

Final Pronouncement  
~~[Month-Year]~~ April 2023

IPSAS®

*International Public Sector Accounting Standard®*

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IPSAS ~~[X]~~46, *Measurement*



International Public  
Sector Accounting  
Standards Board®



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In meeting this objective the IPSASB sets IPSAS™ and Recommended Practice Guidelines (RPGs) for use by public sector entities, including national, regional, and local governments, and related governmental agencies.

IPSAS relate to the general purpose financial statements (financial statements) and are authoritative. RPGs are pronouncements that provide guidance on good practice in preparing general purpose financial reports (GPFRs) that are not financial statements. Unlike IPSAS RPGs do not establish requirements. Currently all pronouncements relating to GPFRs that are not financial statements are RPGs. RPGs do not provide guidance on the level of assurance (if any) to which information should be subjected.

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## Objective

1. **The objective of this Standard is to define measurement bases that assist in reflecting fairly the cost of services, operational capacity and financial capacity of assets and liabilities. The Standard identifies approaches under those measurement bases to be applied through individual IPSAS to achieve the objectives of financial reporting.**

## Scope

2. An entity that prepares and presents financial statements under the accrual basis of accounting shall apply IPSAS ~~FX146~~, *Measurement* in measuring assets and liabilities.
3. Except as specified in paragraph 4, this Standard applies when another IPSAS requires or permits:
  - (a) One or more of the measurement bases defined in this Standard ~~or disclosures about one or more of these measurement bases~~; and
  - (b) Measurements that are based on one or more of the measurement bases (e.g., fair value less costs of disposal) ~~or disclosures about those measurements~~.
4. The measurement requirements of this Standard do not apply to the following:
  - (a) Leasing transactions accounted for in accordance with IPSAS 43, *Leases*;<sup>1</sup>
  - (b) Transactions accounted for in accordance with IPSAS 32, *Service Concession Arrangements: Grantor*; and
  - (c) Measurements that have some similarities to the measurement bases in this Standard but are not those measurement bases, such as net realizable value in IPSAS 12, *Inventories* or value in use in IPSAS 21, *Impairment of Non-Cash-Generating Assets* and IPSAS 26, *Impairment of Cash-Generating Assets* (but this Standard is applied in measuring fair value as required in IPSAS 21 and 26).
5. The measurement requirements described in this Standard apply to both initial and subsequent measurement, unless specific guidance is included in the individual IPSAS.

## Definitions

6. **The following terms are used in this Standard with the meanings specified:**

**Active market** is a market in which transactions for the asset or liability take place with sufficient frequency and volume to provide pricing information on an ongoing basis.

**Cost approach** is a measurement technique that reflects the amount that would be required currently to replace the service capacity of an asset (often referred to as current replacement cost).

**Cost of fulfillment** is the cost that the entity will incur in fulfilling the obligations represented by the liability, assuming that it does so in the least costly manner.

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<sup>1</sup> If IPSAS ~~FX146~~, *Measurement* is adopted prior to IPSAS 43, *Leases*, the measurement requirements of this standard do not apply to IPSAS 13, *Leases*.

**Current operational value is the amount the entity would pay for the remaining service potential of an asset at the measurement date.**

**Deemed cost is an amount used as a surrogate for transaction price at the measurement date.**

**Entry price is the price paid to acquire an asset or received to assume a liability in an exchange transaction.**

**Exit price is the price received to sell an asset or paid to transfer a liability.**

**Expected cash flow is the probability-weighted average (i.e., mean of the distribution) of possible future cash flows.**

**Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.**

**Highest and best use is the use of a non-financial asset by market participants that would maximize the value of the asset or the group of assets and liabilities (e.g., an operation) within which the asset would be used.**

**Historical cost is the consideration given to acquire, construct, or develop an asset plus transaction costs, or the consideration received to assume an obligation minus transaction costs, at the time the asset is acquired, constructed or developed, or the liability is incurred.**

**Income approach is a measurement technique that converts future amounts (e.g., cash flows or revenue and expenses) to a single current (i.e., discounted) amount.**

**Inputs are the assumptions used when pricing the asset or liability, including assumptions about risk, such as the following:**

- (a) The risk inherent in a particular measurement technique used to estimate a measurement in accordance with a measurement basis (such as a pricing model); and
- (b) The risk inherent in the inputs to the measurement technique.

**Inputs may be observable or unobservable.**

**Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities that the entity can access at the measurement date.**

**Level 2 inputs are inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly.**

**Level 3 inputs are unobservable inputs for the asset or liability.**

**Market approach is a measurement technique that uses prices and other relevant information generated by market transactions involving identical or comparable (i.e., similar) assets, liabilities or a group of assets and liabilities.**

**Market participants are buyers and sellers in the principal (or most advantageous) market for the asset or liability that have all of the following characteristics:**

- (a) They are independent of each other, i.e., they are not related parties as defined in IPSAS 20, *Related Party Disclosures*, although the price in a related party transaction may be used as an input to a fair value measurement if the entity has evidence that the transaction was entered into at market terms.

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- (b) They are knowledgeable, having a reasonable understanding about the asset or liability and the transaction using all available information, including information that might be obtained through due diligence efforts that are usual and customary.
- (c) They are able to enter into a transaction for the asset or liability.
- (d) They are willing to enter into a transaction for the asset or liability, i.e., they are motivated but not forced or otherwise compelled to do so.

**Market-corroborated inputs** are inputs that are derived principally from or corroborated by observable market data by correlation or other means.

**Most advantageous market** is the market that maximizes the amount that would be received to sell the asset or minimizes the amount that would be paid to transfer the liability, after taking into account transaction costs and transport costs.

**Non-performance risk** is the risk that an entity will not fulfill an obligation. Non-performance risk includes, but may not be limited to, the entity's own credit risk.

**Observable inputs** are inputs that are developed using market data, such as publicly available information about actual events or transactions, and that reflect the assumptions that market participants would use when pricing the asset or liability.

**Orderly transaction** is a transaction that assumes exposure to the market for a period before the measurement date to allow for marketing activities that are usual and customary for transactions involving such assets or liabilities; it is not a forced transaction (e.g., a forced liquidation or distress sale).

**Principal market** is the market with the greatest volume and level of activity for the asset or liability.

**Risk premium** is the compensation sought by risk-averse market participants for bearing the uncertainty inherent in the cash flows of an asset or a liability. Also referred to as a 'risk adjustment'.

**Transaction costs** are incremental costs that are directly attributable to the acquisition, construction, development or disposal of an asset, or incurrence of a liability, and would not have been incurred if the entity had not acquired, constructed, developed or disposed of the asset, or incurred the liability.

**Transaction price** is the consideration given to acquire, construct or develop an asset or received to assume ~~an obligation-liability~~.

**Transport costs** are the costs that would be incurred to transport an asset from its current location to its principal (or most advantageous) market.

**Unit of account** is the level at which an asset or a liability is aggregated or disaggregated in an IPSAS for recognition purposes.

**Unobservable inputs** are inputs for which market data are not available and that are developed using the best information available about the assumptions that market participants would use when pricing the asset or liability.

Terms defined in other IPSAS are used in this Standard with the same meaning as in those Standards, and are reproduced in the *Glossary of Defined Terms* published separately.

## Measurement

### Initial Measurement

7. On the date an item qualifies for recognition, it shall be initially measured at its transaction price, unless:
- (a) That transaction price does not faithfully present relevant information of the entity in a manner that is useful in holding the entity to account, and for decision-making purposes (see paragraphs 10–13); or
  - (b) Otherwise required or permitted by another IPSAS.

When applying accrual basis IPSAS for the first time, initial measurement in an opening statement of financial position at the date of adoption of IPSAS should be carried out in accordance with IPSAS 33, *First-time Adoption of Accrual Basis International Public Sector Accounting Standards (IPSASs)*.

#### *Transactions in an Orderly Market*

8. When an asset is acquired or a liability is assumed in an orderly market, the transaction price reflects the initial value of the asset or liability negotiated between market participants at the measurement date under current market conditions.
9. Where a transaction price exists, it is presumed to present relevant information on the date the transaction occurred. When determining whether the transaction price presents relevant information about the asset or liability, an entity shall consider factors specific to the transaction and to the asset or liability.

#### *Transactions not Undertaken in an Orderly Market*

10. When an asset is acquired, or a liability is assumed, as a result of an event that is not a transaction in an orderly market:
- (a) It may not be possible to observe a transaction price;
  - (b) The transaction price may not faithfully present relevant information about the asset or liability; or
  - (c) The transaction price may be zero.

In ~~some~~ such cases, ~~a one or more current value measurement techniques basis~~ deemed cost ~~is~~ are used to measure the initial value of the asset or liability. A current value measurement basis is used ~~to estimate the value of the asset or liability as a~~ determine the deemed cost ~~of the asset or liability~~ on initial measurement. Current value measurement ~~techniques~~ bases are described in paragraphs ~~23–31~~ 36–31.

11. Any difference between deemed cost and any consideration given or received would be recognized as revenue or expenses, unless otherwise required in the relevant IPSAS.
12. Circumstances where a transaction price may not be observable or may not faithfully present relevant information ~~may~~ include:
- (a) ~~The~~ Transaction prices ~~includes that have~~ a concessionary element;

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- (b) ~~An asset is~~ transferred to the entity free of charge by a government or donated to the entity by another party;
  - (c) ~~A liability~~ ies might be imposed by legislation or regulation;
  - (d) ~~A liability~~ iesy to pay compensation or a penalty arises from an act of wrongdoing or breach of contract;
  - (e) ~~The transaction prices~~ is-are affected by relationships between the parties, or by financial distress or other duress of one of the parties; and
  - (f) ~~The transaction prices~~ information is-are not available on the date of adoption of IPSAS as defined in IPSAS 33.
13. When assets are acquired, or liabilities assumed, as a result of an event that is not a transaction in an orderly market, all relevant aspects of the transaction or other event need to be identified and considered. For example, it may be necessary to recognize other assets, other liabilities, contributions from owners or distributions to owners to faithfully represent the substance of the effect of the transaction or other event on the entity's financial position and any related effect on the entity's financial performance.

*Transaction Costs at Initial Measurement*

14. Transaction costs incurred in acquiring an asset or incurring a liability are a feature of the transaction in which the asset was acquired, or liability was incurred. The initial measurement of the asset or liability reflects those transaction costs as the entity could not have acquired the asset or liability without incurring those costs. Transaction costs that could be incurred in selling or disposing of the asset or in settling or transferring a liability are a feature of a possible future transaction. Unless explicitly required, possible transaction costs are not included because initial measurement reflects the costs of acquiring the asset or incurring the liability.

*Transaction Occurring in Stages*

15. The purchase of an asset may occur in stages or may be followed by further expenditures to adapt the asset for the entity's own use. Any expenditures incurred in bringing the asset to the state where it is ready for use will be included in the consideration identified as part of the asset's initial measurement.

*Deferred Payments*

16. Where the time value of money is material—for example, where the length of time before settlement falls due is significant—the amount of the future cash flows is discounted so that, at the time an asset or liability is first recognized, it represents the value of the amount received or paid. For example, the difference between the amount of the future cash flows and the present value of the asset or liability is amortized over the life of the asset or liability, so that the asset or liability is stated at the amount due to be received, or the required payment when it falls due.

**Subsequent Measurement**

17. After initial measurement, unless otherwise required by the relevant IPSAS, an accounting policy choice is made to measure an asset or liability at historical cost or at its current value. This accounting policy choice is reflected through the selection of the measurement model.



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*Measurement Models*

18. Assets and liabilities recognized in financial statements are quantified in historical terms or current terms. This requires the selection of a historical cost or current value measurement model. In selecting a measurement model, an entity shall consider the characteristics of the item, the measurement objective and the monetary information being presented.

*Measurement Bases*

19. A measurement basis provides information that achieves the qualitative characteristics, as described in the *Conceptual Framework for General Purpose Financial Reporting by Public Sector Entities* (the *Conceptual Framework*) and ensures the constraints on information in GPFRs are considered under the measurement model selected. Applying a measurement basis to an asset or liability creates a measure for that asset or liability and for related revenue and expenses. The selection of a measurement basis depends on the measurement model applied (see diagram after paragraph 36).
20. **When another IPSAS establishes measurement requirements with reference to one or more of the measurement bases below, an entity shall apply the measurement basis in accordance with the requirements and related appendices in this Standard:**
- (a) **Historical cost basis (Appendix A: Historical cost);**
  - (b) **Current operational value basis (Appendix B: Current operational value);**
  - (c) **Cost of fulfillment basis (Appendix C: Cost of fulfillment); and**
  - (d) **Fair value basis (Appendix D: Fair value).**

*Historical Cost Basis*

21. The historical cost basis ~~cost~~ is an entry, entity-specific value. The historical cost basis provides monetary information about assets, liabilities and related revenue and expenses, using information derived, at least in part, from the price of the transaction or event that gave rise to them.
22. Following initial measurement, the value of an asset or liability is not remeasured to reflect current conditions or increases in the value of the asset or decreases in the value of the liability.

*Current Operational Value Basis*

23. Current operational value provides monetary information about assets, and related amortization, depreciation, etc., using information updated to reflect conditions at the measurement date. Current operational value therefore reflects changes in the values of assets since the previous measurement date. Similar to fair value and cost of fulfillment, current operational value is not dependent, even in part, on the transaction or event that gave rise to the asset.
24. In some cases, current operational value can be determined directly by observing prices in an active market. In other cases, it is determined indirectly. For example, if prices are available for a similar asset, the current operational value of the entity's asset might need to be estimated by adjusting the current price of the similar asset to reflect the unique aspects of the entity's asset in its existing use and condition.
25. Current operational value differs from fair value because it:

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- (a) Is explicitly an entry price and includes all the costs that would necessarily be paid for the remaining service potential of an asset;
- (b) Reflects the value of an asset in its existing use, rather than the asset's highest and best use (for example, a building used as a hospital is measured as a hospital); and
- (c) Is entity-specific and therefore reflects the economic position of the entity, rather than the position prevailing in a hypothetical market.

**Cost of Fulfillment Basis**

- 26. Cost of fulfillment is an exit, entity-specific cost that the entity will incur in fulfilling the obligations represented by the liability, assuming that it does so in the least costly manner. Cost of fulfillment is the present value of the cash, or other economic resources, that the entity expects to be obliged to transfer as it fulfils a liability. Those amounts of cash or other economic resources include not only the amounts to be explicitly transferred, but also the amounts that the entity expects to be obliged to transfer to other parties to enable it to fulfill the liability.
- 27. Cost of fulfillment cannot be observed directly and is determined using cash-flow-based measurement techniques. The cost of fulfillment reflects entity-specific assumptions rather than assumptions used by market participants. In practice, there may be little difference between the assumptions that a market participant would use and those an entity itself uses.
- 28. The cost of fulfillment reflects the same factors as those reflected in fair value measurement, but from an entity-specific perspective, rather than from a market-participant perspective.

**Fair Value Basis**

- 29. Fair value measurement is an exit, market-based measurement that provides monetary information about assets, liabilities and related revenues and expenses, using information updated to reflect conditions at the measurement date. Fair value therefore reflects changes in the values of assets and liabilities since the previous measurement date. The fair value of an asset or liability is not dependent, even in part, on the transaction or event that gave rise to the asset or liability.
- 30. Fair value reflects the perspective of market participants. The asset or liability is measured using the same assumptions that market participants would use when pricing the asset or liability if those market participants act in their economic best interest.
- 31. In some cases, fair value can be determined directly by observing prices in an active market. In other cases, it is determined indirectly.

***Characteristics of the Asset or Liability***

- 32. A measurement basis is applied to a particular asset or liability. Therefore, when applying the measurement basis, an entity shall take into account the characteristics of the asset or liability at the measurement date (for example, for fair value measurement the characteristics are considered if market participants would take those characteristics into account when pricing the asset or liability). Such characteristics include, for example, the following:
  - (a) The condition, use and location of the asset; and
  - (b) Restrictions, if any, on the sale or use of the asset.

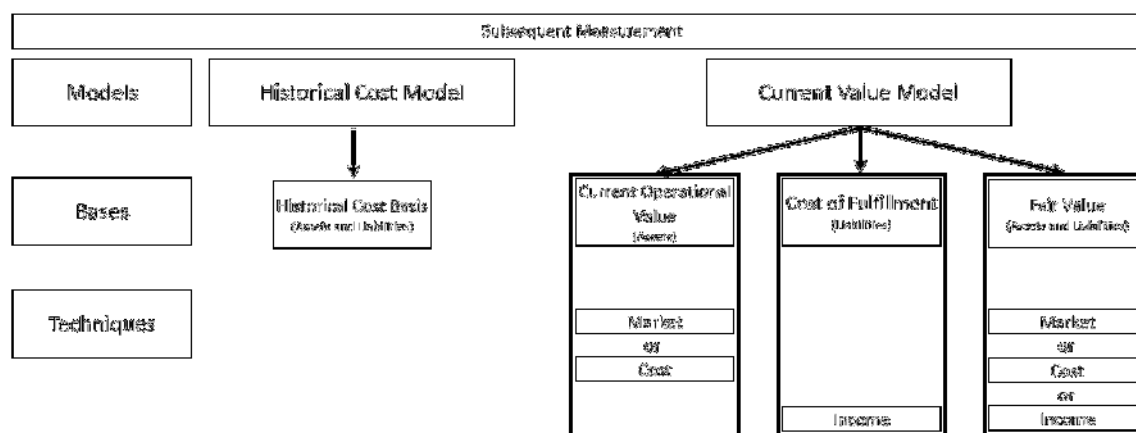
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33. The effect on the measurement arising from a particular characteristic will differ depending on how that characteristic would be taken into account by the entity, for entity-specific measurements, and by market participants, for market-based measurements.
34. The asset or liability measured might be either of the following:
- (a) A stand-alone asset or liability (e.g., a financial instrument or a non-financial asset); or
  - (b) A group of assets, a group of liabilities or a group of assets and liabilities (e.g., a cash-generating unit or an operation).
35. Whether the asset or liability is a stand-alone asset or liability, a group of assets, a group of liabilities or a group of assets and liabilities for recognition or disclosure purposes depends on its unit of account. The unit of account for the asset or liability shall be determined in accordance with the IPSAS that requires or permits the application of one or more measurement bases identified in this Standard, except where specified differently in this Standard.

*Measurement Techniques*

36. **An entity shall use measurement techniques that are appropriate in the circumstances and for which sufficient data are available to estimate the measurement basis or determine deemed cost.**

The following diagram sets out the subsequent measurement framework based on the *Conceptual Framework: Chapter 7, Measurement of Assets and Liabilities in Financial Statements*. This diagram illustrates the three levels of measurement and the relationships between them.



37. A measurement technique is applied to estimate the amount at which an asset or liability is recognized under the selected measurement basis or in determining deemed cost (see paragraph 10). Such techniques are not measurement bases. When using such a technique, it is necessary for the technique to reflect the attributes applicable to that measurement basis. For example, if the measurement basis is fair value, the applicable attributes are those described in paragraphs [2926–3128](#).
38. Three widely used measurement techniques are the market approach, the cost approach and the income approach. The main aspects of those approaches are summarized in paragraphs 42–45. An entity shall use measurement techniques consistent with one or more of those approaches to measure the asset or liability under the selected measurement basis.
39. In some cases, a single measurement technique will be appropriate (e.g., when valuing an asset or a liability using quoted prices in an active market for identical assets or liabilities). In other cases, multiple measurement techniques will be appropriate (e.g., that might be the case when valuing a

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cash-generating unit). If multiple measurement techniques are used to measure the asset or liability under the selected measurement basis, the results shall be evaluated considering the reasonableness of the range of values indicated by those results.

40. Measurement techniques shall be applied consistently. However, a change in a measurement technique or its application (e.g., a change in its weighting when multiple measurement techniques are used or a change in an adjustment applied to a measurement technique) is appropriate if the change results in a measurement that is equally or more representative of the measurement basis in the circumstances. That might be the case if, for example, any of the following events take place:
  - (a) New markets develop;
  - (b) New information becomes available;
  - (c) Information previously used is no longer available;
  - (d) Measurement techniques improve; or
  - (e) Market conditions change
41. Revisions resulting from a change in the measurement technique or its application shall be accounted for as a change in accounting estimate in accordance with IPSAS 3, *Accounting Policies, Changes in Accounting Estimates and Errors*. However, the disclosures in IPSAS 3 for a change in accounting estimate are not required for revisions resulting from a change in a measurement technique or its application.

## Market Approach

42. The market approach uses prices and other relevant information generated by market transactions involving identical or comparable (i.e., similar) assets, liabilities or a group of assets and liabilities.

## Cost Approach

43. The cost approach reflects the amount that would be required currently to replace the service provided by an asset (often referred to as current replacement cost) through the acquisition, construction, or development of a substitute asset of comparable utility, adjusted for obsolescence. Obsolescence encompasses physical deterioration, functional (technological) obsolescence and economic (external) obsolescence and is broader than depreciation for financial reporting purposes.
44. The cost of a substitute asset of comparable utility is calculated as the cost of a modern equivalent asset—that is, a notional asset providing an equivalent service as the existing asset ~~while using the latest technology available~~.

## Income Approach

45. The income approach converts future amounts (e.g., cash flows or revenue and expenses) to a single current (i.e., discounted) amount. When the income approach is used, the estimate of the measurement basis reflects current expectations about those future amounts.

*Depreciation, Impairment and Other Adjustments*

46. Depreciation and impairment are applicable to measurement bases in the historical cost model and the current value model. Neither depreciation nor impairment are measurement bases or

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measurement techniques in their own right. They are methods to reflect the consumption of the asset or loss of the future economic benefits or service potential of the asset.

47. Under both the historical cost model and the current value model, an asset is updated over time to depict:
  - (a) The consumption of part or all of the resource that constitutes the asset (depreciation or amortization);
  - (b) Payments received that extinguish part or all of the asset;
  - (c) The effect of events that cause part or all of the asset to no longer be recoverable (impairment); and
  - (d) Accrual of interest to reflect any financing component of the asset.
48. Under both the historical cost model and the current value model, a liability is updated over time to depict:
  - (a) Fulfillment of part or all of the liability, for example, by making payments that extinguish part or all of the liability or by satisfying an obligation to deliver goods or services;
  - (b) The effect of events that increase the value of the obligation to transfer the resources needed to fulfill the liability to such an extent that the liability becomes onerous. A liability is onerous if the carrying amount is no longer sufficient to depict the obligation to fulfill the liability; and
  - (c) Accrual of interest to reflect any financing component of the liability.

*Transaction Costs in Subsequent Measurement*

49. **Transaction costs are incremental costs that would not have been incurred if the entity had not acquired, constructed, developed or disposed of the asset or incurred the liability.**
50. Incremental costs are a direct result of the transaction. Transaction costs are an essential feature of the transaction, and they would not have been incurred had the transaction not occurred. For example, while costs to operate an asset after it has been acquired are incremental costs because they would not be incurred if the entity had not acquired the asset, these costs are not transaction costs, as they are not a direct result of the transaction.
51. Costs attributable to the acquisition of an asset relate specifically to costs of transfer of control. Costs incurred prior to transfer (e.g., costs to negotiate the transaction), or costs incurred subsequent to the transfer (e.g., borrowing costs), are excluded from the definition of transaction costs.
52. Including transaction costs in the measurement of an asset or liability is dependent on the objective of measurement. Whether an entity is recognizing an asset or liability using an entry-based measurement basis or an exit-based measurement basis impacts whether those transaction costs are included in, or excluded from, the item's measurement.
53. Transaction costs can arise when an asset is acquired, constructed, or developed or a liability is incurred, when an asset is sold or disposed of or a liability is settled or transferred. As transaction costs incurred in acquiring, constructing, or developing an asset or incurring a liability are a feature of the transaction in which the asset was acquired, constructed or developed, or the liability was incurred, such transaction costs incurred in entering into a transaction are included in entry-based measurement bases. Transaction costs that would be incurred in selling or disposing of an asset or

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in settling or transferring a liability are a future or a possible future transaction. As such, transaction costs that would be incurred in exiting a transaction are included in exit-based measurement bases when the measurement basis is entity-specific.

## Disclosure

54. An entity shall disclose information that helps users of its financial statements assess the measurement basis, the valuation techniques and inputs used to develop those measurements.
55. To meet the objectives in paragraph 54, an entity shall apply the measurement disclosure requirements in the relevant IPSAS to which the measurement of the asset or liability applies.

## Effective Date and Transition

### Effective Date

56. **An entity shall apply this Standard for annual periods beginning on or after MM DD, YYYY. Earlier application is permitted. If an entity applies this Standard earlier, it must disclose that fact.**
57. When an entity adopts the accrual basis IPSAS of accounting as defined in IPSAS 33 for financial reporting purposes subsequent to this effective date, this Standard applies to the entity's annual financial statements covering periods beginning on or after the date of adoption of accrual basis IPSAS.

### Transition

58. This Standard shall be applied prospectively as of the beginning of the annual period in which it is initially applied.

## Appendix A

### Historical Cost

*This Appendix is an integral part of IPSAS ~~46~~.*

#### Measurement

- A1. The objective of the historical cost measurement basis is to provide monetary information about assets, liabilities and related revenue and expenses, using information derived, at least in part, from the price of the transaction (or deemed cost, where applicable) or other event that gave rise to them.
- A2. The historical cost basis is:
- (a) The consideration given to acquire, construct and/or develop an asset plus transaction costs;
  - (b) The consideration received to ~~incur or take on a liability~~assume an obligation minus transaction costs; or
  - (c) The deemed cost of the asset or liability or other event that gave rise to it.

The ~~historical cost basis~~consideration is the cash or cash equivalents or the value of the other consideration given or received, at the time, or period over which, the asset is acquired, constructed or developed or the liability is incurred.

#### Initial Measurement

- A3. Initial measurement is determined in accordance with paragraphs 7–16 of this Standard.

#### Subsequent Measurement

- A4. After initial measurement, the gross carrying amount of an asset or liability measured using the historical cost basis remains unaffected by changes in the underlying current market conditions, unless those changes trigger an impairment. For example, the amount at which an item of property, plant, and equipment is recorded is not updated to reflect an increase in the current market price of the item after it has been acquired, constructed or developed.
- A5. However, as with current value measurements, the carrying amount of an asset or liability measured using the historical cost basis is updated to reflect changes to the item as noted in paragraphs 47 and 48.

#### Amortized Cost

- A6. The historical cost basis is applied to financial instruments by measuring the instruments at amortized cost in accordance with paragraph AG160 of IPSAS 41, *Financial Instruments*. Amortized cost reflects estimates of future cash flows, discounted at a rate determined at initial measurement. The amortized cost of a financial asset or financial liability is updated over time to depict subsequent changes, such as the accrual of interest, the impairment of a financial asset or payments.

## Appendix B

### Current Operational Value

*This Appendix is an integral part of IPSAS ~~46~~.*

#### Measurement

- B1. The objective of a current operational value measurement is to estimate the amount an entity would pay for a non-financial asset at the measurement date. A current operational value measurement requires an entity to determine all of the following:
- (a) The amount the entity would pay. This includes assessing the price that would be paid in an active market, or the cost the entity would incur, for the asset in the least costly manner.
  - (b) The remaining service potential of the asset. This considers the current condition of the asset.
  - (c) The asset (consistent with its unit of account). This includes assessing the asset's existing use and location.
  - (d) The measurement technique(s) appropriate for estimating (a) to (c) considering the availability of data that faithfully represents the assumptions that are specific to the entity.
- B2. Current operational value provides an entity specific measurement of an asset held for its operational capacity in its existing use, location, and current condition.
- (a) In the statement of financial position, current operational value reflects the amount an entity would pay at the measurement date for the remaining service potential of its existing asset.
  - (b) In the statement of financial performance, current operational value reflects the consumption of the asset in providing the service based on conditions at the measurement date. This differs from the historical cost basis which reflects consumption of the asset based on the prices when the asset was acquired and initially recognized.

#### *The Amount an Entity would Pay*

- B3. Current operational value is the amount that an entity would pay for the remaining service potential of an asset in the least costly manner based on conditions at the measurement date regardless of whether that price is directly observable or estimated using a measurement technique.
- B4. The amount an entity would pay is:
- (a) The price to acquire the identical, or a similar, asset in an active market; or
  - (b) The cost that would be incurred to reproduce the identical, or a similar, asset.
- B5. When an active market exists for the identical, or a similar, asset, current operational value uses this price as the amount an entity would pay for the asset.
- B6. When no active market exists, a reliable acquisition price for an identical, or similar, asset will generally not exist. Current operational value will then need to be estimated based on the costs to develop or produce the asset using available price information for the parts required to build the asset under valuation. For example, many military assets, such as an aircraft, generally do not have active markets. Such assets often cannot be acquired as a finished product that is identical,



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or similar, to the aircraft under valuation. Determining the cost of each part of the asset, such as the fuselage, engine, electronics etc., and the cost to assemble them into the same, or similar, aircraft, adjusted for the age, functionality, and condition, will generally be necessary to estimate the aircraft's current operational value.

## Entry Price

- B7. The current operational value of an asset represents an entry price. Any transaction costs that would be incurred in obtaining the asset are included in the current operational value measurement.

Entity-Specific Value

- ~~B8. An entity shall measure the current operational value of an asset using assumptions from the entity's perspective, based on the way the existing asset is used. For example, where an entity is using an asset for a particular purpose, the entity will consider the amount it would pay for that type of asset based on its existing use and not consider the value for alternative uses for that asset.~~

## The Least Costly Manner

- ~~B8-B9.~~ A current operational value measure assumes the amount an entity would pay for the remaining service potential of an asset at the measurement date is the least costly amount for the asset.

- ~~B9-B10.~~ An entity need not undertake an exhaustive search of all acquisition methods to identify the least costly amount, but it shall consider all information that could reasonably have been expected to be obtained and taken into account.

- ~~B10-B11.~~ Current operational value does not reflect the costs that might be incurred if an urgent necessity to replace the remaining service potential of an asset arose as a result of some unforeseeable event.

Entity Specific Value

- ~~B11-B1.~~ An entity shall measure the current operational value of an asset using assumptions from the entity's perspective, based on the way the existing asset is used. For example, where an entity is using an asset for a particular purpose, the entity will consider the amount it would pay for that type of asset based on its existing use and not consider the value for alternative uses for that asset.

## Observable Inputs

- B12. For some assets, observable market transactions or market information might be available. For other assets, observable market transactions and market information might not be available. However, the objective of a current operational value in both cases is the same—to estimate the amount the entity would pay for the remaining service potential of the asset based on conditions at the measurement date (i.e., an *entry price* at the measurement date from the perspective of the entity that holds the asset).

- B13. When a price for an identical asset is not observable, an entity measures current operational value using another valuation technique that uses ~~of~~ observable inputs, where feasible, such as when external resources are available and can be used.

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- B14. Because current operational value is an entity-specific value, it is measured using the assumptions from the entity's perspective. These entity-specific assumptions may result from information that is not available publicly. For example, the cost to construct an asset may include labor costs of employees of the entity, as opposed to contract workers. As a result, an entity's intention in ~~holding the asset~~how costs are incurred to construct an asset is relevant when measuring current operational value.
- B15. In practice, there may be little difference between the assumptions that market participants would use and those that an entity itself uses. For example, where the amount that would be paid for a non-specialized asset is generally the same regardless of its existing use, the assumptions a market participant would use would be consistent with those in an entity-specific valuation.

*Remaining Service Potential*

- B16. Current operational value reflects the value of the remaining service potential of the asset. The remaining service potential of the asset takes into account the current age, functionality, and condition of the asset held by the entity.
- B17. In order to reflect the current age, functionality, and condition, the following factors are considered:
- (a) Physical obsolescence relates to any loss of service potential due to the physical deterioration of the asset or its components resulting from its age and use.
  - (b) Functional obsolescence relates to any loss of service potential resulting from inefficiencies in the asset that is being valued compared with its modern equivalent.
  - (c) Economic obsolescence relates to any loss of utility caused by economic or other factors outside the control of the entity.

*The Asset*

- B18. Current operational value measures the remaining service potential of a specific asset. The following key aspects affect the measurement of an asset's current operational value:
- (a) The existing asset;
  - (b) The existing use of the asset; and
  - (c) The existing location of the asset.

*Existing Asset*

- B19. Current operational value assumes the entity will continue to deliver goods and/or services by using the identical, or a similar, asset.
- B20. The identical, or a similar, asset delivers goods and/or services in the same manner as the asset being measured. For example, a power authority that delivers electricity measures the amount it would pay for the remaining service potential of its generation facilities based on the nature of its existing facilities. If the generation facilities are solar farms, the amount an entity would pay for the remaining service potential of the asset is based on a solar farm as opposed to an alternative asset, such as a wind farm, that could also deliver the service.

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## Existing Use of the Asset

- B21. Current operational value measures the remaining service potential of an asset based on its existing use. 'Existing use' is the way an asset is used and generally reflects the policy objectives of the entity operating the asset. For example, a ministry of health is responsible for the wellbeing of citizens. Assets such as buildings are used as hospitals to deliver health care services rather than for commercial purposes.
- B22. Measuring the existing use of an asset disregards potential alternative uses and any other characteristics of the asset that could maximize its market value. For example, the existing use of a building operated as a school, is for the delivery of educational services. Alternative uses, such as the operation of the building as an office block held for rental at market rates are not considered. The existing use may be, but is not necessarily, the highest and best use.
- B23. Any unused portion of the asset in its existing use is evaluated to determine whether the unused portion is held for a specific purpose associated with the asset. This may occur when an asset has security requirements, legal or other restrictions, and/or functional limitations. Unused portions based on the existing use of the asset, but that would be replaced, are included in determining the asset's current operational value.

## Existing Location of the Asset

- B24. The asset's current operational value assumes that the entity will continue to deliver goods and/or services from the same location in which the asset is currently situated or used.
- B25. The current operational value of an asset that cannot be physically moved reflects the value of the physically immovable asset in its existing location. For example, a hospital operating in a city center that could be situated in the suburbs, due to the migration of the population, is measured based on the amount an entity would pay for the hospital ~~in~~at its existing location (e.g., the amount required for a building includes construction costs, permits, regulations, etc. based on costs that would be paid at the existing location).
- B26. The current operational value of a physically movable asset reflects the location from which the entity uses the asset and/or the market the entity has access to. For example, the furniture and equipment in a hospital operating in a city center is measured based on the amount an entity would pay for furniture and equipment for the hospital ~~in~~at its current city center location.

*Measurement Techniques*

- B27. The objective of using a measurement technique is to estimate the amount an entity would pay for the remaining service potential of an asset based on conditions at the measurement date. The widely used measurement techniques are the market approach and the cost approach. The main aspects of those approaches are summarized in paragraphs B31–~~B1B1~~B40. An entity shall use measurement techniques consistent with one or other of those approaches to measure the current operational value.
- B28. An entity uses measurement techniques that are appropriate in the circumstances and for which sufficient data are available to measure current operational value, using observable inputs, where feasible.
- B29. In some cases, current operational value cannot be determined directly by observing prices in an active market and must be determined by other means. For example, if prices are available only for new assets, the current operational value of a used asset might need to be estimated by

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adjusting the current price of a new asset to reflect the current age, functionality, and condition of the asset held by the entity.

- B30. If multiple measurement techniques are used to measure current operational value, the results shall be evaluated considering the reasonableness of the range of values indicated by those results. A current operational value measurement is the point within that range that is the most representative value of the remaining service potential of the asset in the circumstances.

#### Market Approach

- B31. Applying the market approach to measure the current operational value of an asset requires the existence of market transactions involving identical or ~~comparable~~ similar assets.
- B32. The market approach uses an asset price from an orderly transaction in the principal (or most advantageous) market at the measurement date.
- B33. In some cases, the current operational value of an asset can be established by reference to the acquisition price of a similar asset with similar remaining service potential in an active market. For example, the current operational value of an office building, or motor vehicles, may be established by reference to the indexed price for the identical or a similar asset based on a price for a previous period.
- B34. Identical or similar assets include the same characteristics as the asset being measured. When measuring the current operational value of an asset using the market approach an asset with an identical or similar remaining useful life, service potential, etc. must be identified.

#### Cost Approach

- B35. The current operational value of an asset should be established using the cost approach when no active market for similar or identical assets exists. The more specialized the asset, the less likely an active market exists and the more likely the cost approach will need to be applied.
- B36. When the existence of market transactions involving identical or similar assets does not exist, current operational value is determined by the cost to construct or produce the identical, or a similar, asset.

~~B37. B1. Applying the cost approach means current operational value cannot be determined by observing prices in an active market. However, determining the current operational value using the cost approach continues to require the use of relevant observable inputs for parts of the asset, where the entity would acquire those parts from the market.~~

#### Modern Equivalent Asset

- ~~B38.~~ When no cost information is available for a similar or identical asset, or when the existing asset would not be replaced with an identical asset, an entity may estimate current operational value by calculating the cost of a modern equivalent asset to estimate current operational value—that is, a notional asset providing an equivalent service as the existing asset in its existing use while using the latest technology available and then making deductions for obsolescence and optimization. It may be necessary, therefore, to estimate the current operational value of an asset drawing on the current price of a new modern equivalent asset that provides an equivalent service as the existing asset in its existing use, to reflect the current age, condition and functionality of the asset held by the entity.

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~~B39-B37. In some circumstances an existing asset might not be replaced with identical assets, for example due to changes in design, technology, or in operational practice. It may be necessary, therefore, to estimate the current operational value of an asset drawing on the current price of a new modern equivalent asset that provides an equivalent service as the existing asset in its existing use, to reflect the current age, condition and functionality of the asset held by the entity.~~

~~Applying the cost approach means current operational value cannot be determined by observing prices in an active market. However, determining the current operational value using the cost approach continues to require the use of relevant observable inputs for parts of the asset, where the entity would acquire those parts from the market.~~

~~B40-B38. A modern equivalent should be an asset that reflects the same characteristics as the asset being measured.~~

## Appendix C

**Cost of Fulfillment**

*This Appendix is an integral part of IPSAS ~~46~~.*

**Measurement**

- C1. The objective of the cost of fulfillment measurement is to estimate the value of a liability assuming the entity will fulfill its obligation in the least costly manner. A cost of fulfillment measurement requires an entity to determine all the following:
- (a) The particular liability that is the subject of the measurement (consistently with its unit of account).
  - (b) The manner in which the liability will be settled.
  - (c) The measurement technique(s) appropriate for the measurement, considering the availability of data with which to develop inputs when pricing the liability.

*The Least Costly Manner*

- C2. The cost of fulfillment assumes that the liability is settled by the entity in the least costly manner.
- C3. The cost of fulfillment represents the amount the entity is obligated to incur to settle the liability. This obligation represents the minimum amount an entity will incur assuming the entity completely satisfies its obligation. For example, an entity may have an obligation to restore a parcel of land to its original condition when a temporary road is no longer in use. Even when the entity intends to enhance the parcel of land, the costs of enhancements are beyond the cost to fulfill the minimum obligation of restoring the land to its original condition and therefore are not representative of the cost to fulfill the liability. In cases where an entity intends to fulfill the liability beyond its commitment, guidance in IPSAS 19, *Provisions, Contingent Liabilities and Contingent Assets*, should be applied when accounting for amount in excess of the cost to fulfill.
- C4. The entity must have the ability to access the fulfillment method that results in the obligation being settled in the least costly manner at the expected fulfillment date. Because different entities (and operations within those entities) with different activities may have access to a variety of fulfillment methods, the least costly manner for the same liability might be different for different entities (and operations within those entities). Therefore, the least costly manner shall be considered from the perspective of the entity, thereby allowing for differences between and among entities with different activities and circumstances.
- C5. An entity need not undertake an exhaustive search of all fulfillment methods to identify the least costly manner of fulfillment, but it shall take into account all information that is reasonably available. In the absence of evidence to the contrary, the least costly manner of fulfillment is presumed to be the manner in which the entity has currently selected to release itself from the obligation. For example, if an entity elects to fulfill its decommissioning liability using its own employees, it is presumed this is the least costly manner of fulfillment, regardless of the entity's ability to contract the decommissioning to third parties.
- C6. Where fulfillment requires work to be done—for example, where the liability is to rectify environmental damage—the relevant costs are those that the entity will incur. This may be the cost to the entity of doing the remedial work itself, or of contracting with an external party to carry out the work. However, the costs of contracting with an external party are only relevant where

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employing a contractor is the least costly means of fulfilling the obligation and the entity has the ability to access the fulfillment method (see paragraph C4).

- C7.** Where fulfillment will be made by the entity itself, the cost of fulfillment does not include any surplus, because any such surplus does not represent a use of the entity's resources. Where the cost of fulfillment amount is based on the cost of employing a contractor, the amount will implicitly include the profit required by the contractor, as the total amount charged by the contractor will be a claim on the entity's resources.

#### Entity-Specific Value

- C8.** The cost of fulfillment is an entity-specific value. An entity shall measure the cost of fulfillment of a liability using the assumptions from the entity's perspective, assuming the entity acts in accordance with its own public sector objective.
- C9.** In developing those entity-specific assumptions, an entity shall identify characteristics specific to the entity and the liability, considering factors specific to all the following:
- (a) The liability;
  - (b) The entity's expectations about the amount and timing of future outflows of resources; and
  - (c) The time value of money.

Whether a risk premium is included in the calculation will depend on guidance in the relevant IPSAS.<sup>2</sup>

- C10.** When estimating market-based assumptions, such as the time value of money, there may be little difference between the assumptions that a market participant would apply and those an entity uses itself.

#### *The Cost that the Entity Will Incur*

- C11.** The cost of fulfillment estimates the cost assuming the entity settles obligation.
- C12.** A cost of fulfillment measurement, both at initial and subsequent measurement, should only incorporate the future outflows of resources the entity expects to incur to satisfy the obligation. Those future outflows of resources include the amounts:
- (a) To be transferred to the liability counterparty; and
  - (b) The entity expects to be obliged to transfer to other parties to settle the liability.
- C13.** The price used to measure the cost of fulfilling the liability shall not be adjusted for transaction costs incurred to enter into the transaction. Entry-based transaction costs have no impact on the future outflows of resources the entity expects to incur. In contrast, transaction costs that are expected to be incurred in settling the liability, i.e., exit-based, are a future outflow of resources that is relevant in measuring the cost to fulfill the liability and are included in measuring the cost of fulfillment.

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<sup>2</sup> When including a risk premium in measuring cost of fulfillment, an entity should perform the measurement from the perspective of the entity holding the liability rather than from the perspective of the market participant as noted in paragraph D8.

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- C14.** Where the cost of fulfillment depends on uncertain future events, all possible outcomes are taken into account in the estimated cost of fulfillment, which aims to reflect all those possible outcomes in an unbiased manner.
- C15.** Where fulfillment of the obligation will not take place for an extended period, the cash flows need to be discounted to reflect the value of the liability at the measurement date using a measurement technique. As a practical expedient, an entity need not discount the value of the future outflow of resources if the entity expects the obligation to be settled within one year.

*Settling its Obligations*

- C16.** The cost of fulfillment is the cost that the entity expects to incur to settle its obligation in the normal course of operations.
- C17.** In estimating the cost to settle its obligation in the normal course of operations, the entity assumes the obligation will be fulfilled under the existing terms of the arrangement and that the liability will not be transferred to a third party.
- C18.** In estimating the cost of fulfillment the entity takes into account all readily available information at the measurement date under current market conditions in estimating the outflow of resources required to settle the liability at the expected fulfillment date.
- C19.** The cost of fulfillment shall not include the non-performance risk of the entity to settle its obligation. A cost of fulfillment measurement is a measure of the value of a liability assuming the entity will fulfill its obligations. As non-performance risk takes into account the effect on the value of a liability of the entity potentially not meeting its obligations, it is inconsistent to include in the measure of a liability the possibility that it may not meet its obligations when the cost of fulfillment measurement assumes the liability will be fulfilled in the normal course of operations.

**Measurement Techniques**

- C20.** The cost of fulfillment cannot be observed directly in an active market. It is determined using measurement techniques.
- C21.** An entity shall use measurement techniques that are appropriate in the circumstances and for which sufficient data are available to measure the cost of fulfillment. The cost of fulfillment reflects entity-specific assumptions rather than assumptions used by market participants. In practice, there may be little difference between the assumptions that a market participant would apply and those an entity uses itself.
- C22.** The objective of using a measurement technique is to estimate the cost that the entity will incur in fulfilling the obligations represented by the liability at the measurement date under current market conditions. The valuation approach used when measuring the cost of fulfillment is the income approach. The main aspects of that approach as it relates to the cost of fulfillment are summarized in paragraphs C23–C48.

*Income Approach*

- C23.** Applying the income approach to estimate the cost of fulfillment shall take into account the attributes of the cost of fulfillment measurement basis. This includes:
- (a) Estimates of future cash flows.



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- (b) Possible variations in the estimated amount or timing of future cash flows for liability being measured, caused by the uncertainty inherent in the cash flows.
  - (c) The time value of money.
  - (d) Other factors that impact the value of the liability.
- C24.** Paragraphs C25–C48 describe the use of present value techniques to measure the cost of fulfillment. Those paragraphs neither prescribe the use of a single specific present value technique nor limit the use of present value techniques to measure the cost of fulfillment to the techniques discussed. The present value technique used to measure the cost of fulfillment will depend on facts and circumstances specific to the liability being measured and the availability of sufficient data.

## Future Outflows of Resources

- C25.** The estimates of outflows of resources used to determine the cost of fulfillment shall include all inflows of resources and outflows of resources that relate directly to the fulfillment of the liability. Those estimates shall:
- (a) Be explicit (i.e., the entity shall estimate those outflows of resources separately from the estimates of discount rates that adjust those future outflows of resources for the time value of money and the risk adjustment that adjusts those future outflows of resources for the effects of uncertainty about the amount and timing of those outflows of resources);
  - (b) Reflect the perspective of the entity, provided that the estimates of any relevant market variables do not contradict the observable market prices for those variables (see paragraphs C30–C34);
  - (c) Incorporate, in an unbiased way, all of the available information about the amount, timing and uncertainty of all of the inflows of resources and outflows of resources that are expected to arise as the entity fulfills the liability (see paragraph D35); and
  - (d) Be current (i.e., the estimates shall reflect all of the available information at the measurement date) (see paragraphs C36–C40).

## Uncertainty and the Expected Value Approach

- C26.** The expected present value technique uses as a starting point a set of outflows of resources that represents the probability-weighted average of all possible future outflows of resources (i.e., the expected outflows of resources). The resulting estimate is identical to expected value, which, in statistical terms, is the weighted average of a discrete random variable's possible values with the respective probabilities as the weights. Because all possible outflows of resources are probability-weighted, the resulting expected outflows of resources are not conditional upon the occurrence of any specified event (unlike the outflows of resources used in the discount rate adjustment technique).
- C27.** In determining the expected outflows of resources an entity must:
- (a) Identify each possible outcome;
  - (b) Make an unbiased estimate of the amount and timing of the future outflows of resources for each outcome; and
  - (c) Make an unbiased estimate of the probability of each outcome.

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- C28.** Paragraph C27 requires the estimate of expected values reflect an unbiased and probability-weighted amount that is determined by evaluating a range of possible outcomes. In practice, this may not need to be a complex analysis. In some cases, relatively simple modelling may be sufficient, without the need for a large number of detailed simulations of scenarios. For example, the identification of scenarios that specify the amount and timing of the outflows of resources for particular outcomes and the estimated probability of those outcomes will probably be needed. In those situations, the expected outflows of resources shall reflect at least two outcomes.
- C29.** In identifying the set of outflows of resources that represents the probability-weighted average of all possible future outflows of resources, paragraph C2 assumes that the liability is settled by the entity in the least costly manner. Each outflow represents one possible scenario where the liability is settled in the least costly manner.

*Market Variables and Non-Market Variables (Paragraph C25(b))*

- C30.** This Appendix identifies two types of variables:
- (a) Market variables—variables that can be observed in, or derived directly from, markets (e.g., interest rates); and
  - (b) Non-market variables—all other variables (e.g., the frequency and severity of natural disasters impacting decommissioning liabilities).

*Market Variables*

- C31.** Estimates of market variables shall be consistent with observable market prices at the measurement date. An entity shall not substitute its own estimates for observed market prices except as described in paragraph D59. In accordance with Appendix D, if market variables need to be estimated (e.g., because no observable market variables exist), they shall be as consistent as possible with observable market variables.

*Non-Market Variables*

- C32.** Estimates of non-market variables shall reflect all of the available evidence, both external and internal.
- C33.** Non-market external data (e.g., national statistics for decommissioning of a nuclear power facility) may have more or less relevance than internal data (e.g., internally developed statistics for decommissioning of a nuclear power facility), depending on the circumstances.
- C34.** Estimated probabilities for non-market variables shall not contradict observable market variables. For example, estimated probabilities for future inflation rate scenarios shall be as consistent as possible with probabilities implied by market interest rates.

*Estimating Probabilities of Future Payments (Paragraph C25(c))*

- C35.** An entity estimates the probabilities associated with future payments on the basis of:
- (a) Information about the known or estimated characteristics of the liability; and
  - (b) Historical data about the entity's own experience, supplemented when necessary with historical data from other sources. Historical data is adjusted if, for example:

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- (i) The characteristics of the liability differ (or will differ, for example because of adverse selection) from those of the population that has been used as a basis for the historical data;
- (ii) There is evidence that historical trends will not continue, that new trends will emerge or that economic or other changes may affect the outflow of resources that arise from the existing liability; or
- (iii) There have been changes in the entity's practices or procedures that may affect the relevance of historical data to the liability.

*Under Current Estimates (Paragraph C25(d))*

**C36.** In estimating the probability of each outflow of resources scenario, an entity shall use all of the available current information at the measurement date. An entity shall review the estimates of the probabilities that it made at the end of the previous measurement date and update them for any changes. In doing so, an entity shall consider whether:

- (a) The updated estimates faithfully represent the conditions at the end of the measurement date; and
- (b) The changes in estimates faithfully represent the changes in conditions during the period. For example, suppose that estimates were at one end of a reasonable range at the beginning of the period. If the conditions have not changed, changing the estimates to the other end of the range at the end of the period would not faithfully represent what has happened during the whole period. If an entity's most recent estimates are different from its previous estimates, but conditions have not changed, it shall assess whether the new probabilities that are assigned to each scenario are justified. In updating its estimates of those probabilities, the entity shall consider both the evidence that supported its previous estimates and all of the new available evidence, giving more weight to the more persuasive evidence.

**C37.** The probability assigned to each scenario shall reflect the conditions at the measurement date. Consequently, in accordance with IPSAS 14, *Events After the Reporting Date*, an event that occurs after the end of the reporting period and resolves a condition that existed at the reporting date does not provide evidence of a condition that existed at the end of the reporting period. For example, there may be a 20 per cent probability at the end of the reporting period that a major storm will strike prior to a facility being decommissioned that would increase the cost of decommission. After the end of the reporting period and before the financial statements are authorized for issue, a storm strikes. The outflow of resources under that contract shall not reflect the storm that, with hindsight, is known to have occurred. Instead, the outflow of resources that were included in the measurement are multiplied by the 20 per cent probability that was apparent at the end of the reporting period (with appropriate disclosure, in accordance with IPSAS 14, that a non-adjusting event occurred after the end of the reporting period).

*Future Events (Paragraph C25(d))*

**C38.** Estimates of non-market variables shall consider not just current information about the liabilities but also information about trends. For example, technology has consistently improved over long periods decreasing decommissioning costs. The determination of the outflow of resources reflects

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the probabilities that would be assigned to each possible trend scenario in the light of all the available evidence.

- C39.** Similarly, if the outflow of resources associated with fulfilling the liability are sensitive to inflation, the determination of the outflow of resources shall reflect possible future inflation rates. Because inflation rates are likely to be correlated with interest rates, the measurement of the outflow of resources reflects the probabilities for each inflation scenario in a way that is consistent with the probabilities that are implied by market interest rates.
- C40.** When estimating the outflow of resources associated with fulfilling the liability, an entity shall take into account future events that might affect the outflow of resources. The entity shall develop scenarios that reflect those future events, as well as unbiased estimates of the probability weights for each scenario. However, an entity shall not take into account future events, such as a change in legislation, that would change or discharge the present obligation or create new obligations under the existing liability.

*Time Value of Money*

- C41.** Entities are not indifferent to the timing of an outflow of resources. Accordingly, the timing of the future outflows of resources is a characteristic of a liability and needs to be encompassed in any measurement of a liability's current value. Failure to reflect the time value of money would mean that the resulting measurement would not be a faithful representation of the economic burden the liability represents.
- C42.** An entity shall determine the estimated outflows of resources by adjusting the estimates of future outflows of resources for the time value of money, using discount rates that reflect the characteristics of the liability. Such rates shall:
- (a) Be consistent with observable current market prices for instruments with outflows of resources whose characteristics are consistent with those of the liability's outflows of resources, in terms of, for example, timing, currency and liquidity.
  - (b) Exclude the effect of any factors that influence the observable market prices but that are not relevant to the outflows of resources of the liability.
- C43.** When using a risk-free rate, the logical sources of reference rates are high quality bonds, for example, bonds issued by a financially sound government. These instruments should include no or insignificant default risk. They will also typically have a range of maturity dates or durations to match the liability durations. In the event that long-dated bonds are unavailable for liabilities with long durations, such as some decommissioning liabilities, it would be necessary to use extrapolation techniques to estimate the rates.
- C44.** Although rates on high quality government bonds will not need to be adjusted for default risk in determining the risk-free discount rate, they may need to be adjusted for liquidity risk. Some government bonds are traded in deep and liquid markets enabling bond holders to readily sell them at minimal cost. The rate payable on such bonds is lower than the rate payable on an equivalent illiquid bond. Accordingly, it might be necessary to include a 'premium for illiquidity' in the observed rate for government bonds that are not traded in deep and liquid markets.

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**Inputs to Measurement Techniques***General Principles*

- C45. Measurement techniques used in a cost of fulfillment measurement reflects entity-specific assumptions rather than assumptions used by market participants.
- C46. The cost of fulfillment measurement is an entity-specific valuation. When a measurement technique is applied, an entity shall select inputs that are consistent with the characteristics of the liability (see paragraph C10). The technique should maximize the use of observable inputs that are available to a market participant that is making the same valuation as the entity, from the entity's perspective. For example, when measuring the cost to fulfill a decommissioning liability where payments are due in 50 years, an observable market input when discounting the outflow of resources is the government bond rate applicable to the entity.
- C47. In some cases, the characteristics of a liability may result in the application of an adjustment (e.g., there is no corresponding bond rate to discount an outflow of resources due in 3.5 years). However, a cost of fulfillment measurement shall not incorporate an adjustment that is inconsistent with the unit of account in the IPSAS that requires or permits the cost of fulfillment measurement.
- C48. When a liability will settle at a future date, the assumptions applied in developing and identifying inputs are based on current market conditions. For example, a decommissioning liability may be expected to settle in 50 years. The payment due on fulfillment and the associated discount rate are both based on information available at the measurement date.

**Appendix D****Fair Value**

*This Appendix is an integral part of IPSAS ~~46~~.*

**Measurement**

- D1. The objective of a fair value measurement is to estimate the price at which an orderly transaction to sell the asset or to transfer the liability would take place between market participants at the measurement date under current market conditions. A fair value measurement requires an entity to determine all the following:
- (a) The particular asset or liability that is the subject of the measurement (consistently with its unit of account);
  - (b) For a non-financial asset, the valuation premise that is appropriate for the measurement (consistently with its highest and best use);
  - (c) The principal (or most advantageous) market for the asset or liability; and
  - (d) The measurement technique(s) appropriate for the measurement, considering the availability of data with which to develop inputs that represent the assumptions that market participants would use when pricing the asset or liability and the level of the fair value hierarchy within which the inputs are categorized.

*The Transaction*

- D2. A fair value measurement assumes that the asset or liability is exchanged in an orderly transaction between market participants to sell the asset or transfer the liability at the measurement date under current market conditions.
- D3. A fair value measurement assumes that the transaction to sell the asset or transfer the liability takes place either:
- (a) In the principal market for the asset or liability; or
  - (b) In the absence of a principal market, in the most advantageous market for the asset or liability.
- D4. An entity need not undertake an exhaustive search of all possible markets to identify the principal market or, in the absence of a principal market, the most advantageous market, but it shall take into account all information that is reasonably available. In the absence of evidence to the contrary, the market in which the entity would normally enter into a transaction to sell the asset or to transfer the liability is presumed to be the principal market or, in the absence of a principal market, the most advantageous market.
- D5. If there is a principal market for the asset or liability, the fair value measurement shall represent the price in that market (whether that price is directly observable or estimated using another measurement technique), even if the price in a different market is potentially more advantageous at the measurement date.
- D6. The entity must have access to the principal (or most advantageous) market at the measurement date. Because different entities (and operations within those entities) with different activities may have access to different markets, the principal (or most advantageous) market for the same asset

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or liability might be different for different entities (and operations within those entities). Therefore, the principal (or most advantageous) market (and thus, market participants) shall be considered from the perspective of the entity, thereby allowing for differences between and among entities with different activities.

- D7. Although an entity must be able to access the market, the entity does not need to be able to sell the particular asset or transfer the particular liability on the measurement date to be able to measure fair value on the basis of the price in that market.
- D8. Even when there is no observable market to provide pricing information about the sale of an asset or the transfer of a liability at the measurement date, a fair value measurement shall assume that a transaction takes place at that date, considered from the perspective of a market participant that holds the asset or owes the liability. That assumed transaction establishes a basis for estimating the price to sell the asset or to transfer the liability.

*Market Participants*

- D9. An entity shall measure the fair value of an asset or a liability using the assumptions that market participants would use when pricing the asset or liability, assuming that market participants act in their economic best interest.
- D10. In developing those assumptions, an entity need not identify specific market participants. Rather, the entity shall identify characteristics that distinguish market participants generally, considering factors specific to all the following:
  - (a) The asset or liability;
  - (b) The principal (or most advantageous) market for the asset or liability; and
  - (c) Market participants with whom the entity would enter into a transaction in that market.

*The Price*

- D11. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction in the principal (or most advantageous) market at the measurement date under current market conditions (i.e., an exit price) regardless of whether that price is directly observable or estimated using another measurement technique.
- D12. The price in the principal (or most advantageous) market used to measure the fair value of the asset or liability shall not be adjusted for transaction costs. Transaction costs shall be accounted for in accordance with other IPSAS. Transaction costs are not a characteristic of an asset or a liability; rather, they are specific to a transaction and will differ depending on how an entity enters into a transaction for the asset or liability.
- D13. Transaction costs do not include transport costs. If location is a characteristic of the asset (as might be the case, e.g., for a commodity), the price in the principal (or most advantageous) market shall be adjusted for the costs, if any, that would be incurred to transport the asset from its current location to that market.

**Application to non-financial assets***Highest and Best Use for Non-Financial Assets*

- D14. A fair value measurement of a non-financial asset takes into account a market participant's ability to generate economic benefits by using the asset in its highest and best use or by selling it to another market participant that would use the asset in its highest and best use.
- D15. The highest and best use of a non-financial asset takes into account the use of the asset that is physically possible, legally permissible and financially feasible, as follows:
- (a) A use that is physically possible takes into account the physical characteristics of the asset that market participants would take into account when pricing the asset (e.g., the location or size of a property).
  - (b) A use that is legally permissible takes into account any legal restrictions on the use of the asset that market participants would take into account when pricing the asset (e.g., the zoning regulations applicable to a property).
  - (c) A use that is financially feasible takes into account whether a use of the asset that is physically possible and legally permissible generates adequate revenue or cash flows (taking into account the costs of converting the asset to that use) to produce an investment return that market participants would require from an investment in that asset put to that use.
- D16. Highest and best use is determined from the perspective of market participants, even if the entity intends a different use. However, an entity's current use of a non-financial asset is presumed to be its highest and best use unless market or other factors suggest that a different use by market participants would maximize the value of the asset.
- D17. To protect the public interest, or for other reasons, an entity may intend not to use an acquired non-financial asset actively or it may intend not to use the asset according to its highest and best use. For example, that might be the case for an acquired intangible asset, such as a drug patent, that the entity plans to use to manufacture vaccines for its citizens. Nevertheless, the entity shall measure the fair value of a non-financial asset assuming its highest and best use by market participants.

*Valuation Premise for Non-Financial Assets*

- D18. The highest and best use of a non-financial asset establishes the valuation premise used to measure the fair value of the asset, as follows:
- (a) The highest and best use of a non-financial asset might provide maximum value to market participants through its use in combination with other assets as a group (as installed or otherwise configured for use) or in combination with other assets and liabilities (e.g., an operation).
    - (i) If the highest and best use of the asset is to use the asset in combination with other assets or with other assets and liabilities, the fair value of the asset is the price that would be received in a current transaction to sell the asset assuming that the asset would be used with other assets or with other assets and liabilities and that those assets and liabilities (i.e., its complementary assets and the associated liabilities) would be available to market participants.



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- (ii) Liabilities associated with the asset and with the complementary assets include liabilities that fund working capital, but do not include liabilities used to fund assets other than those within the group of assets.
    - (iii) Assumptions about the highest and best use of a non-financial asset shall be consistent for all the assets (for which highest and best use is relevant) of the group of assets or the group of assets and liabilities within which the asset would be used.
  - (b) The highest and best use of a non-financial asset might provide maximum value to market participants on a stand-alone basis. If the highest and best use of the asset is to use it on a stand-alone basis, the fair value of the asset is the price that would be received in a current transaction to sell the asset to market participants that would use the asset on a stand-alone basis.
- D19. The fair value measurement of a non-financial asset assumes that the asset is sold consistently with the unit of account specified in other IPSAS (which may be an individual asset). That is the case even when that fair value measurement assumes that the highest and best use of the asset is to use it in combination with other assets or with other assets and liabilities because a fair value measurement assumes that the market participant already holds the complementary assets and the associated liabilities.
- D20. When measuring the fair value of a non-financial asset used in combination with other assets as a group (as installed or otherwise configured for use) or in combination with other assets and liabilities (e.g., an operation), the effect of the valuation premise depends on the circumstances. For example:
- (a) The fair value of the asset might be the same whether the asset is used on a stand-alone basis or in combination with other assets or with other assets and liabilities. That might be the case if the asset is an operation that market participants would continue to operate. In that case, the transaction would involve valuing the operation in its entirety. The use of the assets as a group in an ongoing operation would generate synergies that would be available to market participants (i.e., market participant synergies that, therefore, should affect the fair value of the asset on either a stand-alone basis or in combination with other assets or with other assets and liabilities).
  - (b) An asset's use in combination with other assets or with other assets and liabilities might be incorporated into the fair value measurement through adjustments to the value of the asset used on a stand-alone basis. That might be the case if the asset is a machine and the fair value measurement is determined using an observed price for a similar machine (not installed or otherwise configured for use), adjusted for transport and installation costs so that the fair value measurement reflects the current condition and location of the machine (installed and configured for use).
  - (c) An asset's use in combination with other assets or with other assets and liabilities might be incorporated into the fair value measurement through the market participant assumptions used to measure the fair value of the asset. For example, if the asset is work in progress inventory that is unique and market participants would convert the inventory into finished goods, the fair value of the inventory would assume that market participants have acquired or would acquire any specialized machinery necessary to convert the inventory into finished goods.

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- (d) An asset's use in combination with other assets or with other assets and liabilities might be incorporated into the measurement technique used to measure the fair value of the asset. That might be the case when using the multi-period excess earnings method to measure the fair value of an intangible asset because that measurement technique specifically takes into account the contribution of any complementary assets and the associated liabilities in the group in which such an intangible asset would be used.
- (e) In more limited situations, when an entity uses an asset within a group of assets, the entity might measure the asset at an amount that approximates its fair value when allocating the fair value of the asset group to the individual assets of the group. That might be the case if the valuation involves real property and the fair value of improved property (i.e., an asset group) is allocated to its component assets (such as land and improvements).

**Fair Value at Initial Recognition**

- D21. When an asset is acquired or a liability is assumed in an exchange transaction for that asset or liability, the transaction price is the price paid to acquire the asset or received to assume the liability (an entry price). In contrast, the fair value of the asset or liability is the price that would be received to sell the asset or paid to transfer the liability (an exit price). Entities do not necessarily sell assets at the prices paid to acquire them. Similarly, entities do not necessarily transfer liabilities at the prices received to assume them.
- D22. In many cases the transaction price will equal the fair value (e.g., that might be the case when on the transaction date the transaction to buy an asset takes place in the market in which the asset would be sold).
- D23. When determining whether fair value at initial recognition equals the transaction price, an entity shall take into account factors specific to the transaction and to the asset or liability. Paragraph D25 describes situations in which the transaction price might not represent the fair value of an asset or a liability at initial recognition.
- D24. If another IPSAS requires or permits an entity to measure an asset or a liability initially at fair value and the transaction price differs from fair value, the entity shall recognize the resulting gain or loss in surplus or deficit unless that IPSAS specifies otherwise.
- D25. When determining whether fair value at initial recognition equals the transaction price, an entity shall take into account factors specific to the transaction and to the asset or liability. For example, the transaction price might not represent the fair value of an asset or a liability at initial recognition if any of the following conditions exist:
  - (a) The transaction is between related parties, although the price in a related party transaction may be used as an input into a fair value measurement if the entity has evidence that the transaction was entered into at market terms.
  - (b) The transaction takes place under duress or the seller is forced to accept the price in the transaction. For example, that might be the case if the seller is experiencing financial difficulty.
  - (c) The unit of account represented by the transaction price is different from the unit of account for the asset or liability measured at fair value. For example, that might be the case if the asset or liability measured at fair value is only one of the elements in the transaction (e.g., in a public sector combination), the transaction includes unstated rights and privileges that

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are measured separately in accordance with another IPSAS, or the transaction price includes transaction costs.

- (d) The market in which the transaction takes place is different from the principal market (or most advantageous market). For example, those markets might be different if the entity is a dealer that enters into transactions with customers in the retail market, but the principal (or most advantageous) market for the exit transaction is with other dealers in the dealer market.
- (e) The transaction takes place to achieve a specific social policy objective (e.g., issuing concessionary loans or financial guarantees where no, or a nominal fee, is charged).

### Measurement Techniques

- D26. In some cases, fair value can be determined directly by observing prices in an active market. In other cases, it is determined indirectly using measurement techniques.
- D27. An entity shall use measurement techniques that are appropriate in the circumstances and for which sufficient data are available to measure fair value, maximizing the use of relevant observable inputs and minimizing the use of unobservable inputs.
- D28. The objective of using a measurement technique is to estimate the price at which an orderly transaction to sell the asset or to transfer the liability would take place between market participants at the measurement date under current market conditions. Three widely used measurement techniques are the market approach, the cost approach and the income approach. The main aspects of those approaches are summarized in paragraphs D31–D36. An entity shall use measurement techniques consistent with one or more of those approaches to measure fair value.
- D29. If multiple measurement techniques are used to measure fair value, the results (i.e., respective indications of fair value) shall be evaluated considering the reasonableness of the range of values indicated by those results. A fair value measurement is the point within that range that is most representative of fair value in the circumstances.
- D30. If the transaction price is fair value at initial recognition and a measurement technique that uses unobservable inputs will be used to measure fair value in subsequent periods, the measurement technique shall be calibrated so that at initial recognition the result of the measurement technique equals the transaction price. Calibration ensures that the measurement technique reflects current market conditions, and it helps an entity to determine whether an adjustment to the measurement technique is necessary (e.g., there might be a characteristic of the asset or liability that is not captured by the measurement technique). After initial recognition, when measuring fair value using a measurement technique or techniques that use unobservable inputs, an entity shall ensure that those measurement techniques reflect observable market data (e.g., the price for a similar asset or liability) at the measurement date.

### Market Approach

- D31. Measurement techniques consistent with the market approach often use market multiples derived from a set of comparables. Multiples might be in ranges with a different multiple for each comparable. The selection of the appropriate multiple within the range requires judgment, considering qualitative and quantitative factors specific to the measurement.

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- D32. Measurement techniques consistent with the market approach include matrix pricing. Matrix pricing is a mathematical technique used principally to value some types of financial instruments, such as debt securities, without relying exclusively on quoted prices for the specific securities, but rather relying on the securities' relationship to other benchmark quoted securities.

*Cost Approach*

- D33. The cost approach reflects the amount that would be required currently to replace the service capacity of an asset (often referred to as current replacement cost).

*Market Participant*

- D34. From the perspective of a market participant seller, the price that would be received for the asset is based on the cost to a market participant buyer to acquire or construct a substitute asset of comparable utility, adjusted for obsolescence. That is because a market participant buyer would not pay more for an asset than the amount for which it could replace the service capacity of that asset. Obsolescence encompasses physical deterioration, functional (technological) obsolescence and economic (external) obsolescence and is broader than depreciation for financial reporting purposes (an allocation of historical cost) or tax purposes (using specified service lives). In many cases the current replacement cost method is used to measure the fair value of tangible assets that are used in combination with other assets or with other assets and liabilities.

*Income Approach*

- D35. When estimating fair value, the income approach can be applied using several methods. Those methods include, for example, the following:
- (a) Present value techniques (see paragraph D36);
  - (b) Option pricing models, such as the Black-Scholes-Merton formula or a binomial model (i.e., a lattice model), that incorporate present value techniques and reflect both the time value and the intrinsic value of an option; and
  - (c) The multi-period excess earnings method, which is used to measure the fair value of some intangible assets.

*Present Value Techniques*

- D36. Paragraphs D37–D54 describe the use of present value techniques to measure fair value. Those paragraphs focus on a discount rate adjustment technique and an expected cash flow (expected present value) technique. Those paragraphs neither prescribe the use of a single specific present value technique nor limit the use of present value techniques to measure fair value to the techniques discussed. The present value technique used to measure fair value will depend on facts and circumstances specific to the asset or liability being measured (e.g., whether prices for comparable assets or liabilities can be observed in the market) and the availability of sufficient data.

*The Components of a Present Value Measurement*

- D37. Present value (i.e., an application of the income approach) is a tool used to link future amounts (e.g., cash flows or values) to a present amount using a discount rate. A measurement of an

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asset or a liability using a present value technique captures all the following elements from the perspective of market participants at the measurement date:

- (a) An estimate of future cash flows for the asset or liability being measured.
- (b) Expectations about possible variations in the amount and timing of the cash flows representing the uncertainty inherent in the cash flows.
- (c) The time value of money, represented by the rate on risk-free monetary assets that have maturity dates or durations that coincide with the period covered by the cash flows and pose neither uncertainty in timing nor risk of default to the holder (i.e., a risk-free interest rate).
- (d) The price for bearing the uncertainty inherent in the cash flows (i.e., a risk premium).
- (e) Other factors that market participants would take into account in the circumstances.
- (f) For a liability, the non-performance risk relating to that liability, including the entity's (i.e., the obligor's) own credit risk.

## General Principles

D38. Present value techniques differ in how they capture the elements in paragraph D37. However, all the following general principles govern the application of any present value technique used to measure fair value:

- (a) Cash flows and discount rates should reflect assumptions that market participants would use when pricing the asset or liability.
- (b) Cash flows and discount rates should take into account only the factors attributable to the asset or liability being measured.
- (c) To avoid double-counting or omitting the effects of risk factors, discount rates should reflect assumptions that are consistent with those inherent in the cash flows. For example, a discount rate that reflects the uncertainty in expectations about future defaults is appropriate if using contractual cash flows of a loan (i.e., a discount rate adjustment technique). That same rate should not be used if using expected (i.e., probability-weighted) cash flows (i.e., an expected present value technique) because the expected cash flows already reflect assumptions about the uncertainty in future defaults; instead, a discount rate that is commensurate with the risk inherent in the expected cash flows should be used.
- (d) Assumptions about cash flows and discount rates should be internally consistent. For example, nominal cash flows, which include the effect of inflation, should be discounted at a rate that includes the effect of inflation. The nominal risk-free interest rate includes the effect of inflation. Real cash flows, which exclude the effect of inflation, should be discounted at a rate that excludes the effect of inflation. Similarly, after-tax cash flows should be discounted using an after-tax discount rate. Pre-tax cash flows should be discounted at a rate consistent with those cash flows.
- (e) Discount rates should be consistent with the underlying economic factors of the currency in which the cash flows are denominated.

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## Risk and Uncertainty

- D39. A measurement using present value techniques is made under conditions of uncertainty because the cash flows used are estimates rather than known amounts. In many cases both the amount and timing of the cash flows are uncertain. Even contractually fixed amounts, such as the payments on a loan, are uncertain if there is risk of default.
- D40. Market participants generally seek compensation (i.e., a risk premium) for bearing the uncertainty inherent in the cash flows of an asset or a liability. A fair value measurement should include a risk premium reflecting the amount that market participants would demand as compensation for the uncertainty inherent in the cash flows. Otherwise, the measurement would not faithfully represent fair value. In some cases, determining the appropriate risk premium might be difficult. However, the degree of difficulty alone is not a sufficient reason to exclude a risk premium.
- D41. Present value techniques differ in how they adjust for risk and in the type of cash flows they use. For example:
- (a) The discount rate adjustment technique (see paragraphs D42–D46) uses a risk-adjusted discount rate and contractual, promised or most likely cash flows.
  - (b) Method 1 of the expected present value technique (see paragraph D49) uses risk-adjusted expected cash flows and a risk-free rate.
  - (c) Method 2 of the expected present value technique (see paragraph D50) uses expected cash flows that are not risk-adjusted and a discount rate adjusted to include the risk premium that market participants require. That rate is different from the rate used in the discount rate adjustment technique.

## Discount Rate Adjustment Technique

- D42. The discount rate adjustment technique uses a single set of cash flows from the range of possible estimated amounts, whether contractual or promised (as is the case for a bond) or most likely cash flows. In all cases, those cash flows are conditional upon the occurrence of specified events (e.g., contractual or promised cash flows for a bond are conditional on the event of no default by the debtor). The discount rate used in the discount rate adjustment technique is derived from observed rates of return for comparable assets or liabilities that are traded in the market. Accordingly, the contractual, promised or most likely cash flows are discounted at an observed or estimated market rate for such conditional cash flows (i.e., a market rate of return).
- D43. The discount rate adjustment technique requires an analysis of market data for comparable assets or liabilities. Comparability is established by considering the nature of the cash flows (e.g., whether the cash flows are contractual or non-contractual and are likely to respond similarly to changes in economic conditions), as well as other factors (e.g., credit standing, collateral, duration, restrictive covenants and liquidity). Alternatively, if a single comparable asset or liability does not fairly reflect the risk inherent in the cash flows of the asset or liability being measured, it may be possible to derive a discount rate using data for several comparable assets or liabilities in conjunction with the risk-free yield curve (i.e., using a 'build-up' approach).
- D44. To illustrate a build-up approach, assume that Asset A is a contractual right to receive CU800 in one year (i.e., there is no timing uncertainty). There is an established market for comparable assets, and information about those assets, including price information, is available. Of those comparable assets:

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- (a) Asset B is a contractual right to receive CU1,200 in one year and has a market price of CU1,083. Thus, the implied annual rate of return (i.e., a one-year market rate of return) is 10.8 per cent  $[(CU1,200/CU1,083) - 1]$ .
  - (b) Asset C is a contractual right to receive CU700 in two years and has a market price of CU566. Thus, the implied annual rate of return (i.e., a two-year market rate of return) is 11.2 per cent  $[(CU700/CU566)^{0.5} - 1]$ .
  - (c) All three assets are comparable with respect to risk (i.e., dispersion of possible pay-offs and credit).
- D45. On the basis of the timing of the contractual payments to be received for Asset A relative to the timing for Asset B and Asset C (i.e., one year for Asset B versus two years for Asset C), Asset B is deemed more comparable to Asset A. Using the contractual payment to be received for Asset A (CU800) and the one-year market rate derived from Asset B (10.8 per cent), the value of Asset A is CU722  $(CU800/1.108)$ . Alternatively, in the absence of available market information for Asset B, the one-year market rate could be derived from Asset C using the build-up approach. In that case the two-year market rate indicated by Asset C (11.2 per cent) would be adjusted to a one-year market rate using the term structure of the risk-free yield curve. Additional information and analysis might be required to determine whether the risk premiums for one-year and two-year assets are the same. If it is determined that the risk premiums for one-year and two-year assets are not the same, the two-year market rate of return would be further adjusted for that effect.
- D46. When the discount rate adjustment technique is applied to fixed receipts or payments, the adjustment for risk inherent in the cash flows of the asset or liability being measured is included in the discount rate. In some applications of the discount rate adjustment technique to cash flows that are not fixed receipts or payments, an adjustment to the cash flows may be necessary to achieve comparability with the observed asset or liability from which the discount rate is derived.

## Expected Present Value Technique

- D47. The expected present value technique uses as a starting point a set of cash flows that represents the probability-weighted average of all possible future cash flows (i.e., the expected cash flows). The resulting estimate is identical to expected value, which, in statistical terms, is the weighted average of a discrete random variable's possible values with the respective probabilities as the weights. Because all possible cash flows are probability-weighted, the resulting expected cash flow is not conditional upon the occurrence of any specified event (unlike the cash flows used in the discount rate adjustment technique).
- D48. In making an investment decision, risk-averse market participants would take into account the risk that the actual cash flows may differ from the expected cash flows. Portfolio theory distinguishes between two types of risk:
- (a) Unsystematic (diversifiable) risk, which is the risk specific to a particular asset or liability.
  - (b) Systematic (non-diversifiable) risk, which is the common risk shared by an asset or a liability with the other items in a diversified portfolio.

Portfolio theory holds that in a market in equilibrium, market participants will be compensated only for bearing the systematic risk inherent in the cash flows. (In markets that are inefficient or out of equilibrium, other forms of return or compensation might be available.)

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- D49. Method 1 of the expected present value technique adjusts the expected cash flows of an asset for systematic (i.e., market) risk by subtracting a cash risk premium (i.e., risk-adjusted expected cash flows). Those risk-adjusted expected cash flows represent a certainty-equivalent cash flow, which is discounted at a risk-free interest rate. A certainty-equivalent cash flow refers to an expected cash flow (as defined), adjusted for risk so that a market participant is indifferent to trading a certain cash flow for an expected cash flow. For example, if a market participant was willing to trade an expected cash flow of CU1,200 for a certain cash flow of CU1,000, the CU1,000 is the certainty equivalent of the CU1,200 (i.e., the CU200 would represent the cash risk premium). In that case the market participant would be indifferent as to the asset held.
- D50. In contrast, Method 2 of the expected present value technique adjusts for systematic (i.e., market) risk by applying a risk premium to the risk-free interest rate. Accordingly, the expected cash flows are discounted at a rate that corresponds to an expected rate associated with probability-weighted cash flows (i.e., an expected rate of return). Models used for pricing risky assets, such as the capital asset pricing model, can be used to estimate the expected rate of return. Because the discount rate used in the discount rate adjustment technique is a rate of return relating to conditional cash flows, it is likely to be higher than the discount rate used in Method 2 of the expected present value technique, which is an expected rate of return relating to expected or probability-weighted cash flows.
- D51. To illustrate Methods 1 and 2, assume that an asset has expected cash flows of CU780 in one year determined on the basis of the possible cash flows and probabilities shown below. The applicable risk-free interest rate for cash flows with a one-year horizon is 5 per cent, and the systematic risk premium for an asset with the same risk profile is 3 per cent.

Possible cash flows	Probability	Probability-weighted cash flows
CU500	15%	CU75
CU800	60%	CU480
CU900	25%	CU225
Expected cash flows		CU780

- D52. In this simple illustration, the expected cash flows (CU780) represent the probability-weighted average of the three possible outcomes. In more realistic situations, there could be many possible outcomes. However, to apply the expected present value technique, it is not always necessary to take into account distributions of all possible cash flows using complex models and techniques. Rather, it might be possible to develop a limited number of discrete scenarios and probabilities that capture the array of possible cash flows. For example, an entity might use realized cash flows for some relevant past period, adjusted for changes in circumstances occurring subsequently (e.g., changes in external factors, including economic or market conditions, industry trends and competition as well as changes in internal factors affecting the entity more specifically), taking into account the assumptions of market participants.
- D53. In theory, the present value of the asset's cash flows is the same whether determined using Method 1 or Method 2, as follows:



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- (a) Using Method 1, the expected cash flows are adjusted for systematic (i.e., market) risk. In the absence of market data directly indicating the amount of the risk adjustment, such adjustment could be derived from an asset pricing model using the concept of certainty equivalents. For example, the risk adjustment (i.e., the cash risk premium of CU22) could be determined using the systematic risk premium of 3 per cent ( $\text{CU780} - [\text{CU780} \times (1.05/1.08)]$ ), which results in risk-adjusted expected cash flows of CU758 ( $\text{CU780} - \text{CU22}$ ). The CU758 is the certainty equivalent of CU780 and is discounted at the risk-free interest rate (5 per cent). The present value (i.e., the fair value) of the asset is CU722 ( $\text{CU758}/1.05$ ).
  - (b) Using Method 2, the expected cash flows are not adjusted for systematic (i.e., market) risk. Rather, the adjustment for that risk is included in the discount rate. Thus, the expected cash flows are discounted at an expected rate of return of 8 per cent (i.e., the 5 per cent risk-free interest rate plus the 3 per cent systematic risk premium). The present value of the asset is CU722 ( $\text{CU780}/1.08$ ).
- D54. When using an expected present value technique, either Method 1 or Method 2 could be used. The selection of Method 1 or Method 2 will depend on facts and circumstances specific to the asset or liability being measured, the extent to which sufficient data are available and the judgments applied.

**Inputs to Measurement Techniques***General Principles*

- D55. Measurement techniques used to measure fair value shall maximize the use of relevant observable inputs and minimize the use of unobservable inputs.
- D56. Examples of markets in which inputs might be observable for some assets and liabilities (e.g., financial instruments) include the following:
- (a) Exchange markets. In an exchange market, closing prices are both readily available and generally representative of fair value. An example of such a market is the London Stock Exchange.
  - (b) Dealer markets. In a dealer market, dealers stand ready to trade (either buy or sell for their own account), thereby providing liquidity by using their capital to hold an inventory of the items for which they make a market. Typically bid and ask prices (representing the price at which the dealer is willing to buy and the price at which the dealer is willing to sell, respectively) are more readily available than closing prices. Over-the-counter markets (for which prices are publicly reported) are dealer markets. Dealer markets also exist for some other assets and liabilities, including some financial instruments, commodities and physical assets (e.g., used equipment).
  - (c) Brokered markets. In a brokered market, brokers attempt to match buyers with sellers but do not stand ready to trade for their own account. In other words, brokers do not use their own capital to hold an inventory of the items for which they make a market. The broker knows the prices bid and asked by the respective parties, but each party is typically unaware of another party's price requirements. Prices of completed transactions are sometimes available. Brokered markets include electronic communication networks, in which buy and sell orders are matched, and commercial and residential real estate markets.

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- (d) Principal-to-principal markets. In a principal-to-principal market, transactions, both originations and resales, are negotiated independently with no intermediary. Little information about those transactions may be made available publicly.
- D57. An entity shall select inputs that are consistent with the characteristics of the asset or liability that market participants would take into account in a transaction for the asset or liability (see paragraphs 32 and 33). In some cases those characteristics result in the application of an adjustment, such as a premium or discount (e.g., a control premium or non-controlling interest discount). However, a fair value measurement shall not incorporate a premium or discount that is inconsistent with the unit of account in the IPSAS that requires or permits the fair value measurement (see paragraphs 34 and 35). Premiums or discounts that reflect size as a characteristic of the entity's holding (specifically, a blockage factor that adjusts the quoted price of an asset or a liability because the market's normal daily trading volume is not sufficient to absorb the quantity held by the entity, as described in paragraph D66) rather than as a characteristic of the asset or liability (e.g., a control premium when measuring the fair value of a controlling interest) are not permitted in a fair value measurement. In all cases, if there is a quoted price in an active market (i.e., a Level 1 input) for an asset or a liability, an entity shall use that price without adjustment when measuring fair value, except as specified in paragraph D65.

*Fair Value Hierarchy*

- D58. To increase consistency and comparability in fair value measurements and related disclosures, this Appendix establishes a fair value hierarchy that categorizes into three levels the inputs to measurement techniques used to measure fair value (see paragraphs D62–D89). The fair value hierarchy gives the highest priority to quoted prices (unadjusted) in active markets for identical assets or liabilities (Level 1 inputs) and the lowest priority to unobservable inputs (Level 3 inputs).
- D59. In some cases, the inputs used to measure the fair value of an asset or a liability might be categorized within different levels of the fair value hierarchy. In those cases, the fair value measurement is categorized in its entirety in the same level of the fair value hierarchy as the lowest level input that is significant to the entire measurement. Assessing the significance of a particular input to the entire measurement requires judgment, taking into account factors specific to the asset or liability. Adjustments to arrive at measurements based on fair value, such as costs to sell when measuring fair value less costs of disposal, shall not be taken into account when determining the level of the fair value hierarchy within which a fair value measurement is categorized.
- D60. The availability of relevant inputs and their relative subjectivity might affect the selection of appropriate measurement techniques (see paragraph D27). However, the fair value hierarchy prioritizes the inputs to measurement techniques, not the measurement techniques used to measure fair value. For example, a fair value measurement developed using a present value technique might be categorized within Level 2 or Level 3, depending on the inputs that are significant to the entire measurement and the level of the fair value hierarchy within which those inputs are categorized.
- D61. If an observable input requires an adjustment using an unobservable input and that adjustment results in a significantly higher or lower fair value measurement, the resulting measurement would be categorized within Level 3 of the fair value hierarchy. For example, if a market participant would take into account the effect of a restriction on the sale of an asset when estimating the price for the asset, an entity would adjust the quoted price to reflect the effect of that restriction. If

## IPSAS 46, MEASUREMENT

that quoted price is a Level 2 input and the adjustment is an unobservable input that is significant to the entire measurement, the measurement would be categorized within Level 3 of the fair value hierarchy.

## Level 1 Inputs

- D62. Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities that the entity can access at the measurement date.
- D63. A quoted price in an active market provides the most faithfully representative evidence of fair value and shall be used without adjustment to measure fair value whenever available, except as specified in paragraph D65.
- D64. A Level 1 input will be available for many financial assets and financial liabilities, some of which might be exchanged in multiple active markets (e.g., on different exchanges). Therefore, the emphasis within Level 1 is on determining both of the following:
- (a) The principal market for the asset or liability or, in the absence of a principal market, the most advantageous market for the asset or liability; and
  - (b) Whether the entity can enter into a transaction for the asset or liability at the price in that market at the measurement date.
- D65. An entity shall not make an adjustment to a Level 1 input except in the following circumstances:
- (a) When an entity holds a large number of similar (but not identical) assets or liabilities (e.g., debt securities) that are measured at fair value and a quoted price in an active market is available but not readily accessible for each of those assets or liabilities individually (i.e., given the large number of similar assets or liabilities held by the entity, it would be difficult to obtain pricing information for each individual asset or liability at the measurement date). In that case, as a practical expedient, an entity may measure fair value using an alternative pricing method that does not rely exclusively on quoted prices (e.g., matrix pricing). However, the use of an alternative pricing method results in a fair value measurement categorized within a lower level of the fair value hierarchy.
  - (b) When a quoted price in an active market does not represent fair value at the measurement date. That might be the case if, for example, significant events (such as transactions in a principal-to-principal market, trades in a brokered market or announcements) take place after the close of a market but before the measurement date. An entity shall establish and consistently apply a policy for identifying those events that might affect fair value measurements. However, if the quoted price is adjusted for new information, the adjustment results in a fair value measurement categorized within a lower level of the fair value hierarchy.
  - (c) When measuring the fair value of a liability or an entity's own equity instrument using the quoted price for the identical item traded as an asset in an active market and that price needs to be adjusted for factors specific to the item or the asset (see paragraph AG143F of IPSAS 41). If no adjustment to the quoted price of the asset is required, the result is a fair value measurement categorized within Level 1 of the fair value hierarchy. However, any adjustment to the quoted price of the asset results in a fair value measurement categorized within a lower level of the fair value hierarchy.

## IPSAS 46, MEASUREMENT

- D66. If an entity holds a position in a single asset or liability (including a position comprising a large number of identical assets or liabilities, such as a holding of financial instruments) and the asset or liability is traded in an active market, the fair value of the asset or liability shall be measured within Level 1 as the product of the quoted price for the individual asset or liability and the quantity held by the entity. That is the case even if a market's normal daily trading volume is not sufficient to absorb the quantity held and placing orders to sell the position in a single transaction might affect the quoted price.

## Level 2 Inputs

- D67. Level 2 inputs are inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly.
- D68. If the asset or liability has a specified (contractual) term, a Level 2 input must be observable for substantially the full term of the asset or liability. Level 2 inputs include the following:
- (a) Quoted prices for similar assets or liabilities in active markets.
  - (b) Quoted prices for identical or similar assets or liabilities in markets that are not active.
  - (c) Inputs other than quoted prices that are observable for the asset or liability, for example:
    - (i) Interest rates and yield curves observable at commonly quoted intervals;
    - (ii) Implied volatilities; and
    - (iii) Credit spreads.
  - (d) Market-corroborated inputs.
- D69. Adjustments to Level 2 inputs will vary depending on factors specific to the asset or liability. Those factors include the following:
- (a) The condition or location of the asset;
  - (b) The extent to which inputs relate to items that are comparable to the asset or liability (including those factors described in paragraph AG143F of IPSAS 41); and
  - (c) The volume or level of activity in the markets within which the inputs are observed.
- D70. An adjustment to a Level 2 input that is significant to the entire measurement might result in a fair value measurement categorized within Level 3 of the fair value hierarchy if the adjustment uses significant unobservable inputs.
- D71. Paragraph D72 describes the use of Level 2 inputs for particular assets and liabilities.
- D72. Examples of Level 2 inputs for particular assets and liabilities include the following:
- (a) Licensing arrangement. For a licensing arrangement that is acquired in a public sector combination and was recently negotiated with an unrelated party by the acquired entity (the party to the licensing arrangement), a Level 2 input would be the royalty rate in the contract with the unrelated party at inception of the arrangement.
  - (b) Finished goods inventory at a retail outlet. For finished goods inventory that is acquired in a public sector combination, a Level 2 input would be either a price to customers in a retail market or a price to retailers in a wholesale market, adjusted for differences between the condition and location of the inventory item and the comparable (i.e., similar) inventory

## IPSAS 46, MEASUREMENT

items so that the fair value measurement reflects the price that would be received in a transaction to sell the inventory to another retailer that would complete the requisite selling efforts. Conceptually, the fair value measurement will be the same, whether adjustments are made to a retail price (downward) or to a wholesale price (upward). Generally, the price that requires the least amount of subjective adjustments should be used for the fair value measurement.

- (c) Building held and used. A Level 2 input would be the price per square meter for the building (a valuation multiple) derived from observable market data, e.g., multiples derived from prices in observed transactions involving comparable (i.e., similar) buildings in similar locations.
- (d) Cash-generating unit. A Level 2 input would be a valuation multiple (e.g., a multiple of earnings or revenue or a similar performance measure) derived from observable market data, e.g., multiples derived from prices in observed transactions involving comparable (i.e., similar) operations, taking into account operational, market, financial and non-financial factors.

## Level 3 Inputs

- D73. Level 3 inputs are unobservable inputs for the asset or liability.
- D74. Unobservable inputs shall be used to measure fair value to the extent that relevant observable inputs are not available, thereby allowing for situations in which there is little, if any, market activity for the asset or liability at the measurement date. However, the fair value measurement objective remains the same, i.e., an exit price at the measurement date from the perspective of a market participant that holds the asset or owes the liability. Therefore, unobservable inputs shall reflect the assumptions that market participants would use when pricing the asset or liability, including assumptions about risk.
- D75. Assumptions about risk include the risk inherent in a particular measurement technique used to measure fair value (such as a pricing model) and the risk inherent in the inputs to the measurement technique. A measurement that does not include an adjustment for risk would not represent a fair value measurement if market participants would include one when pricing the asset or liability. For example, it might be necessary to include a risk adjustment when there is significant measurement uncertainty (e.g., when there has been a significant decrease in the volume or level of activity when compared with normal market activity for the asset or liability, or similar assets or liabilities, and the entity has determined that the transaction price or quoted price does not represent fair value, as described in paragraphs C76–C86).

*Measuring Fair Value when the Volume or Level of Activity for an Asset or a Liability has Significantly Decreased*

- D76. The fair value of an asset or a liability might be affected when there has been a significant decrease in the volume or level of activity for that asset or liability in relation to normal market activity for the asset or liability (or similar assets or liabilities). To determine whether, on the basis of the evidence available, there has been a significant decrease in the volume or level of activity for the asset or liability, an entity shall evaluate the significance and relevance of factors such as the following:
  - (a) There are few recent transactions.

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- (b) Price quotations are not developed using current information.
  - (c) Price quotations vary substantially either over time or among market-makers (e.g., some brokered markets).
  - (d) Indices that previously were highly correlated with the fair values of the asset or liability are demonstrably uncorrelated with recent indications of fair value for that asset or liability.
  - (e) There is a significant increase in implied liquidity risk premiums, yields or performance indicators (such as delinquency rates or loss severities) for observed transactions or quoted prices when compared with the entity's estimate of expected cash flows, taking into account all available market data about credit and other non-performance risk for the asset or liability.
  - (f) There is a wide bid-ask spread or significant increase in the bid-ask spread.
  - (g) There is a significant decline in the activity of, or there is an absence of, a market for new issues (i.e., a primary market) for the asset or liability or similar assets or liabilities.
  - (h) Little information is publicly available (e.g., for transactions that take place in a principal-to-principal market).
- D77. If an entity concludes that there has been a significant decrease in the volume or level of activity for the asset or liability in relation to normal market activity for the asset or liability (or similar assets or liabilities), further analysis of the transactions or quoted prices is needed. A decrease in the volume or level of activity on its own may not indicate that a transaction price or quoted price does not represent fair value or that a transaction in that market is not orderly. However, if an entity determines that a transaction or quoted price does not represent fair value (e.g., there may be transactions that are not orderly), an adjustment to the transactions or quoted prices will be necessary if the entity uses those prices as a basis for measuring fair value and that adjustment may be significant to the fair value measurement in its entirety. Adjustments also may be necessary in other circumstances (e.g., when a price for a similar asset requires significant adjustment to make it comparable to the asset being measured or when the price is stale).
- D78. This Appendix does not prescribe a methodology for making significant adjustments to transactions or quoted prices. See paragraphs D26–D29 and D31–D40 for a discussion of the use of measurement techniques when measuring fair value. Regardless of the measurement technique used, an entity shall include appropriate risk adjustments, including a risk premium reflecting the amount that market participants would demand as compensation for the uncertainty inherent in the cash flows of an asset or a liability (see paragraph D48). Otherwise, the measurement does not faithfully represent fair value. In some cases determining the appropriate risk adjustment might be difficult. However, the degree of difficulty alone is not a sufficient basis on which to exclude a risk adjustment. The risk adjustment shall be reflective of an orderly transaction between market participants at the measurement date under current market conditions.
- D79. If there has been a significant decrease in the volume or level of activity for the asset or liability, a change in measurement technique or the use of multiple measurement techniques may be appropriate (e.g., the use of a market approach and a present value technique). When weighting indications of fair value resulting from the use of multiple measurement techniques, an entity shall consider the reasonableness of the range of fair value measurements. The objective is to determine the point within the range that is most representative of fair value under current market

## IPSAS 46, MEASUREMENT

conditions. A wide range of fair value measurements may be an indication that further analysis is needed.

- D80. Even when there has been a significant decrease in the volume or level of activity for the asset or liability, the objective of a fair value measurement remains the same. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction (i.e., not a forced liquidation or distress sale) between market participants at the measurement date under current market conditions.
- D81. Estimating the price at which market participants would be willing to enter into a transaction at the measurement date under current market conditions if there has been a significant decrease in the volume or level of activity for the asset or liability depends on the facts and circumstances at the measurement date and requires judgment. An entity's intention to hold the asset or to settle or otherwise fulfill the liability is not relevant when measuring fair value because fair value is a market-based measurement, not an entity-specific measurement.

*Identifying Transactions that are not Orderly*

- D82. The determination of whether a transaction is orderly (or is not orderly) is more difficult if there has been a significant decrease in the volume or level of activity for the asset or liability in relation to normal market activity for the asset or liability (or similar assets or liabilities). In such circumstances it is not appropriate to conclude that all transactions in that market are not orderly (i.e., forced liquidations or distress sales). Circumstances that may indicate that a transaction is not orderly include the following:
- (a) There was not adequate exposure to the market for a period before the measurement date to allow for marketing activities that are usual and customary for transactions involving such assets or liabilities under current market conditions.
  - (b) There was a usual and customary marketing period, but the seller marketed the asset or liability to a single market participant.
  - (c) The seller is in or near bankruptcy or receivership (i.e., the seller is distressed).
  - (d) The seller was required to sell to meet regulatory or legal requirements (i.e., the seller was forced).
  - (e) The transaction price is an outlier when compared with other recent transactions for the same or a similar asset or liability.

An entity shall evaluate the circumstances to determine whether, on the weight of the evidence available, the transaction is orderly.

- D83. An entity shall consider all the following when measuring fair value or estimating market risk premiums:
- (a) If the evidence indicates that a transaction is not orderly, an entity shall place little, if any, weight (compared with other indications of fair value) on that transaction price.
  - (b) If the evidence indicates that a transaction is orderly, an entity shall take into account that transaction price. The amount of weight placed on that transaction price when compared with other indications of fair value will depend on the facts and circumstances, such as the following:

## IPSAS 46, MEASUREMENT

- (i) The volume of the transaction.
  - (ii) The comparability of the transaction to the asset or liability being measured.
  - (iii) The proximity of the transaction to the measurement date.
- (c) If an entity does not have sufficient information to conclude whether a transaction is orderly, it shall take into account the transaction price. However, that transaction price may not represent fair value (i.e., the transaction price is not necessarily the sole or primary basis for measuring fair value or estimating market risk premiums). When an entity does not have sufficient information to conclude whether particular transactions are orderly, the entity shall place less weight on those transactions when compared with other transactions that are known to be orderly.

An entity need not undertake exhaustive efforts to determine whether a transaction is orderly, but it shall not ignore information that is reasonably available. When an entity is a party to a transaction, it is presumed to have sufficient information to conclude whether the transaction is orderly.

*Using Quoted Prices Provided by Third Parties*

- D84. This Appendix does not preclude the use of quoted prices provided by third parties, such as pricing services or brokers, if an entity has determined that the quoted prices provided by those parties are developed in accordance with this Appendix.
- D85. If there has been a significant decrease in the volume or level of activity for the asset or liability, an entity shall evaluate whether the quoted prices provided by third parties are developed using current information that reflects orderly transactions or a measurement technique that reflects market participant assumptions (including assumptions about risk). In weighting a quoted price as an input to a fair value measurement, an entity places less weight (when compared with other indications of fair value that reflect the results of transactions) on quotes that do not reflect the result of transactions.
- D86. Furthermore, the nature of a quote (e.g., whether the quote is an indicative price or a binding offer) shall be taken into account when weighting the available evidence, with more weight given to quotes provided by third parties that represent binding offers.
- D87. An entity shall develop unobservable inputs using the best information available in the circumstances, which might include the entity's own data. In developing unobservable inputs, an entity may begin with its own data, but it shall adjust those data if reasonably available information indicates that other market participants would use different data or there is something particular to the entity that is not available to other market participants (e.g., an entity-specific synergy). An entity need not undertake exhaustive efforts to obtain information about market participant assumptions. However, an entity shall take into account all information about market participant assumptions that is reasonably available. Unobservable inputs developed in the manner described above are considered market participant assumptions and meet the objective of a fair value measurement.
- D88. Paragraph C89 describes the use of Level 3 inputs for particular assets and liabilities.



## IPSAS 46, MEASUREMENT

D89. Examples of Level 3 inputs for particular assets and liabilities include the following:

- (a) Long-dated currency swap. A Level 3 input would be an interest rate in a specified currency that is not observable and cannot be corroborated by observable market data at commonly quoted intervals or otherwise for substantially the full term of the currency swap. The interest rates in a currency swap are the swap rates calculated from the respective countries' yield curves.
- (b) Three-year option on exchange-traded shares. A Level 3 input would be historical volatility, i.e., the volatility for the shares derived from the shares' historical prices. Historical volatility typically does not represent current market participants' expectations about future volatility, even if it is the only information available to price an option.
- (c) Interest rate swap. A Level 3 input would be an adjustment to a mid-market consensus (non-binding) price for the swap developed using data that are not directly observable and cannot otherwise be corroborated by observable market data.
- (d) Decommissioning liability assumed in a public sector combination. A Level 3 input would be a current estimate using the entity's own data about the future cash outflows to be paid to fulfill the obligation (including market participants' expectations about the costs of fulfilling the obligation and the compensation that a market participant would require for taking on the obligation to dismantle the asset) if there is no reasonably available information that indicates that market participants would use different assumptions. That Level 3 input would be used in a present value technique together with other inputs, e.g., a current risk-free interest rate or a credit-adjusted risk-free rate if the effect of the entity's credit standing on the fair value of the liability is reflected in the discount rate rather than in the estimate of future cash outflows.
- (e) Cash-generating unit. A Level 3 input would be a financial forecast (e.g., of cash) developed using the entity's own data if there is no reasonably available information that indicates that market participants would use different assumptions.

## Amendments to Other IPSAS

### Amendments to IPSAS 1, Presentation of Financial Statements

Paragraphs 133, 134, 141, and 143 are amended. Paragraph 153P is added. New text is underlined and deleted text is struck through.

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### Structure and Content

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### Notes

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#### *Disclosure of Accounting Policies*

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133. It is important for users to be informed of the measurement basis or bases used in the financial statements (for example, the historical cost basis, ~~current cost, net realizable value,~~ fair value, cost of fulfillment, or current operational value ~~recoverable amount, or recoverable service amount~~), because the basis on which the financial statements are prepared significantly affects their analysis. When more than one measurement basis is used in the financial statements, for example when particular classes of assets are revalued, it is sufficient to provide an indication of the categories of assets and liabilities to which each measurement basis is applied.
134. In deciding whether a particular accounting policy should be disclosed, management considers whether disclosure would assist users in understanding how transactions, other events, and conditions are reflected in the reported financial performance and financial position. Disclosure of particular accounting policies is especially useful to users when those policies are selected from alternatives allowed in IPSASs. An example is disclosure of whether an entity applies the current value model ~~fair value~~ or historical cost model to its investment property (see IPSAS 16, *Investment Property*.) Some IPSASs specifically require disclosure of particular accounting policies, including choices made by management between different policies allowed in those Standards. For example, IPSAS 17 requires disclosure of the measurement bases used for classes of property, plant, and equipment. IPSAS 5, *Borrowing Costs*, requires disclosure of whether borrowing costs are recognized immediately as an expense, or capitalized as part of the cost of qualifying assets.

...

#### *Key Sources of Estimation Uncertainty*

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143. Determining the carrying amounts of some assets and liabilities requires estimation of the effects of uncertain future events on those assets and liabilities at the reporting date. For example, in the absence of ~~recently observed market prices~~ a quoted price in an active market used to measure the following assets and liabilities, future-oriented estimates are necessary to measure (a) the

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recoverable amount of certain classes of property, plant, and equipment, (b) the effect of technological obsolescence on inventories, and (c) provisions subject to the future outcome of litigation in progress. These estimates involve assumptions about such items as the risk adjustment to cash flows or discount rates used and future changes in prices affecting other costs.

...

143. The disclosures in paragraph 140 are not required for assets and liabilities with a significant risk that their carrying amounts might change materially within the next financial year if, at the reporting date, they are measured at fair value based on ~~recently observed market prices~~ a quoted price in an active market for an identical asset or liability. ~~(their~~ Such fair values might change materially within the next financial year, but these changes would not arise from assumptions or other sources of estimation uncertainty at the reporting date).

...

**Effective Date**

...

- 153P. Paragraphs 133, 134, 141, and 143 were amended by IPSAS ~~IX~~46, *Measurement*, issued in [Month] [Year]. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~IX~~46 at the same time.

...

**Amendments to IPSAS 3, Accounting Policies, Changes in Accounting Estimates and Errors**

Paragraph 57 is amended. Paragraph 59F is added. New text is underlined and deleted text is struck through.

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**Impracticability in Respect of Retrospective Application and Retrospective Restatement**

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57. Therefore, retrospectively applying a new accounting policy or correcting a prior period error requires distinguishing information that:
- (a) Provides evidence of circumstances that existed on the date(s) as at which the transaction, other event, or condition occurred; and
  - (b) Would have been available when the financial statements for that prior period were authorized for issue;

from other information. For some types of estimates (e.g., ~~an estimate of a fair value measurement that uses significant unobservable~~ not based on an observable price or observable inputs), it is

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impracticable to distinguish these types of information. When retrospective application or retrospective restatement would require making a significant estimate for which it is impossible to distinguish these two types of information, it is impracticable to apply the new accounting policy or correct the prior period error retrospectively.

...

**Effective Date**

...

- 59F. Paragraph 57 was amended by IPSAS ~~IX146~~, *Measurement*, issued in [Month] [Year]. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~IX146~~ at the same time.

...

**Amendments to IPSAS 4, The Effects of Changes in Foreign Exchange Rates**

Paragraphs 27 and A5 are amended. Paragraph 71H is added. New text is underlined and deleted text is struck through.

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**Reporting Foreign Currency Transactions in the Functional Currency**

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**Reporting at Subsequent Reporting Dates**

27. At each reporting date:
- (a) Foreign currency monetary items shall be translated using the closing rate;
  - (b) Non-monetary items that are measured in terms of historical cost in a foreign currency shall be translated using the exchange rate at the date of the transaction; and
  - (c) Non-monetary items that are measured at fair value or current operational value in a foreign currency shall be translated using the exchange rates at the date when the fair value or current operational value was ~~determined~~ measured.

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**Effective Date**

...

- 71H. Paragraphs 27 and A5 were amended by IPSAS ~~IX146~~, *Measurement*, issued in [Month] [Year]. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity

**APPENDIX E**

applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~FX146~~ at the same time.

...

**Appendix A****Foreign Currency Transactions and Advance Consideration**

*This Appendix is an integral part of IPSAS 4.*

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**Scope**

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A5. This Appendix does not apply when an entity measures the related asset, expense or revenue on initial recognition:

(a) At fair value or current operational value; or

...

**Amendments to IPSAS 9, Revenue from Exchange Transactions**

Paragraph 11 is amended. Paragraph 41F is added. New text is underlined and deleted text is struck through.

...

**Definitions**

11. The following terms are used in this Standard with the meanings specified:

Exchange transactions are transactions in which one entity receives assets or services, or has liabilities extinguished, and directly gives approximately equal value (primarily in the form of cash, goods, services, or use of assets) to another entity in exchange.

~~Fair value is the amount for which an asset could be exchanged, or a liability settled, between knowledgeable, willing parties in an arm's length transaction.~~

Non-exchange transactions are transactions that are not exchange transactions. In a non-exchange transaction, an entity either receives value from another entity without directly giving approximately equal value in exchange, or gives value to another entity without directly receiving approximately equal value in exchange.

Terms defined in other IPSASs are used in this Standard with the same meaning as in those Standards, and are reproduced in the *Glossary of Defined Terms* published separately. Fair value is defined in IPSAS ~~FX146~~, Measurement.

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## Effective Date

...

- 41F. Paragraph 11 was amended by IPSAS ~~IX~~46, *Measurement*, issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~IX~~46 at the same time.

...

## Amendments to IPSAS 10, *Financial Reporting in a Hyperinflationary Economy*

Paragraph 31 is amended. Paragraph 38G is added. New text is underlined and deleted text is struck through.

...

## The Restatement of Financial Statements

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## Corresponding Figures

31. Corresponding figures for the previous reporting period, whether they were based on a historical cost ~~approach model~~ or a current ~~cost approach value model~~, are restated by applying a general price index, so that the comparative financial statements are presented in terms of the measuring unit current at the end of the reporting period. Information that is disclosed in respect of earlier periods is also expressed in terms of the measuring unit current at the end of the reporting period. For the purpose of presenting comparative amounts in a different presentation currency, paragraphs 47(b) and 48 of IPSAS 4 apply.

...

## Effective Date

...

- 38G. Paragraph 31 was amended by IPSAS ~~IX~~46, *Measurement*, issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~IX~~46 at the same time.

...

## Amendments to IPSAS 12, *Inventories*

Paragraph 10 is amended. Paragraphs 50A–50F, and 51H are added. New text is underlined and deleted text is struck through.

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## Definitions

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### Net Realizable Value

10. Net realizable value refers to the net amount that an entity expects to realize from the sale of inventory in the ordinary course of operations. ~~Fair value reflects the amount for which the same inventory could be exchanged between knowledgeable and willing buyers and sellers in the marketplace.~~ Fair value reflects the price at which an orderly transaction to sell the same inventory in the principal (or most advantageous) market for that inventory would take place between market participants at the measurement date. The former is an entity-specific value; the latter is not. Net realizable value for inventories may not equal fair value less costs ~~to sell~~ of disposal.

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## Disclosure

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### Current Value Measurement

- 50A. An entity shall disclose information that helps users of its financial statements assess both of the following:
- (a) For inventories that are measured at fair value on a recurring or non-recurring basis in the statement of financial position after initial recognition, the measurement techniques and inputs used to develop those measurements.
  - (b) For recurring fair value measurements using significant unobservable inputs (Level 3), the effect of the measurements on surplus or deficit or net assets/equity for the period.
- 50B. To meet the objectives in paragraph 50A, an entity shall consider all the following:
- (a) The level of detail necessary to satisfy the disclosure requirements;
  - (b) How much emphasis to place on each of the various requirements;
  - (c) How much aggregation or disaggregation to undertake; and
  - (d) Whether users of financial statements need additional information to evaluate the quantitative information disclosed.

If the disclosures provided in accordance with this IPSAS and other IPSAS are insufficient to meet the objectives in paragraph 50A, an entity shall disclose additional information necessary to meet those objectives.

- 50C. To meet the objectives in paragraph 50A, an entity shall disclose, at a minimum, the following information for each class of inventories (see paragraph 50D for information on determining appropriate classes of inventories) measured at fair value (including measurements based on fair value within the scope of IPSAS ~~46~~, *Measurement*) in the statement of financial position after initial recognition:

**APPENDIX E**

- (a) For recurring and non-recurring fair value measurements, the fair value measurement at the end of the reporting period, and for non-recurring fair value measurements, the reasons for the measurement. Recurring fair value measurements of inventories are those that this Standard requires or permits in the statement of financial position at the end of each reporting period. Non-recurring fair value measurements of inventories are those that this Standard requires or permits in the statement of financial position in particular circumstances.
- (b) For recurring and non-recurring fair value measurements, the level of the fair value hierarchy within which the fair value measurements are categorized in their entirety (Level 1, 2 or 3).
- (c) For recurring and non-recurring fair value measurements estimated using unobservable inputs, a description of the measurement technique(s) and the inputs used in the fair value measurement. If there has been a change in measurement technique (e.g. changing from a market approach to an income approach or the use of an additional measurement technique), the entity shall disclose that change and the reason(s) for making it. For fair value measurements categorized within Level 3 of the fair value hierarchy, an entity shall provide quantitative information about the significant unobservable inputs used in the fair value measurement. An entity is not required to create quantitative information to comply with this disclosure requirement if quantitative unobservable inputs are not developed by the entity when measuring fair value (e.g. when an entity uses prices from prior transactions or third-party pricing information without adjustment). However, when providing this disclosure an entity cannot ignore quantitative unobservable inputs that are significant to the fair value measurement and are reasonably available to the entity.
- (d) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy, or for recurring fair value measurements estimated using unobservable inputs, a reconciliation from the opening balances to the closing balances, disclosing separately changes during the period attributable to the following:
  - (i) Total gains or losses for the period recognized in surplus or deficit, and the line item(s) in surplus or deficit in which those gains or losses are recognized;
  - (ii) Total gains or losses for the period recognized in net assets/equity, and the line item(s) in net assets/equity in which those gains or losses are recognized; and
  - (iii) Purchases, sales, issues and settlements (each of those types of changes disclosed separately).
- (e) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy, or for recurring fair value measurements estimated using unobservable inputs, the amount of the total gains or losses for the period in (d)(i) included in surplus or deficit that is attributable to the change in unrealized gains or losses relating to those inventories held at the end of the reporting period, and the line item(s) in surplus or deficit in which those unrealized gains or losses are recognized.
- (f) For recurring and non-recurring fair value measurements categorized within Level 3 of the fair value hierarchy, or for recurring and non-recurring fair value measurements estimated using unobservable inputs, a description of the valuation processes used by the entity (including, for example, how an entity decides its valuation policies and procedures and analyses changes in fair value measurements from period to period).



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- (g) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy:
- (i) For all such measurements, a narrative description of the sensitivity of the fair value measurement to changes in unobservable inputs if a change in those inputs to a different amount might result in a significantly higher or lower fair value measurement. If there are interrelationships between those inputs and other unobservable inputs used in the fair value measurement, an entity shall also provide a description of those interrelationships and of how they might magnify or mitigate the effect of changes in the unobservable inputs on the fair value measurement. To comply with that disclosure requirement, the narrative description of the sensitivity to changes in unobservable inputs shall include, at a minimum, the unobservable inputs disclosed when complying with (c).

50D. An entity shall determine appropriate classes of inventories on the basis of the following:

- (a) The nature, characteristics and risks of the inventories; and
- (b) The level of the fair value hierarchy within which the fair value measurement is categorized.

The number of classes may need to be greater for fair value measurements categorized within Level 3 of the fair value hierarchy because those measurements have a greater degree of uncertainty and subjectivity. Determining appropriate classes of inventories for which disclosures about fair value measurements should be provided requires judgement. A class of inventories will often require greater disaggregation than the line items presented in the statement of financial position. However, an entity shall provide information sufficient to permit reconciliation to the line items presented in the statement of financial position. If another IPSAS specifies the class for an inventory, an entity may use that class in providing the disclosures required in this Standard if that class meets the requirements in this paragraph.

50E. For each class of inventories not measured at fair value in the statement of financial position but for which the fair value is disclosed, an entity shall disclose the information required by paragraph 50C(b), (c) and (g). However, an entity is not required to provide the quantitative disclosures about significant unobservable inputs used in fair value measurements categorized within Level 3 of the fair value hierarchy, required by paragraph 50C(c). For such inventories, an entity does not need to provide the other disclosures required by this Standard.

50F. An entity shall present the quantitative disclosures required by this Standard in a tabular format unless another format is more appropriate.

...

## **Effective Date**

...

51H. Paragraph 10 was amended, and paragraphs 50A–50F were added by IPSAS ~~IX~~146, *Measurement*, issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~IX~~146 at the same time.

...

## Basis for Conclusions

*This Basis for Conclusions accompanies, but is not part of, IPSAS 12.*

...

### **Revision of IPSAS 12 as a result of IPSAS ~~IX~~46, *Measurement***

BC9. The IPSASB developed IPSAS ~~IX~~46, to ensure that measurement bases were applied consistently to all transactions. This pronouncement amends IPSAS 12 by:

- (a) Updating the definition of fair value to clarify its application across IPSAS and align with IFRS; and
- (b) Adding fair value disclosure requirements to help users assess the measurement techniques and inputs used to measure inventory at fair value and the effect on surplus or deficit or net assets/equity for the period.

The reasons for these changes are set out in the Basis for Conclusions to IPSAS ~~IX~~46.

BC10. IPSAS ~~IX~~46 also introduced a public sector specific measurement basis applicable to assets held for their operational capacity. As part of its review of all measurement bases in its literature, the IPSASB considered whether current operational value should be added to, or replace, an existing measurement basis in this Standard.

BC11. The IPSASB agreed to retain the current measurement bases in this Standard. The IPSASB specifically noted current replacement cost, which shares some characteristics with current operational value, should be retained, and not replaced in this Standard because when IPSAS ~~IX~~46, was issued, the IPSASB was not aware of any issues in practice when applying current replacement cost to inventory. The IPSASB agreed any changes to a specific measurement basis in this Standard should be considered as part of a standalone project related to this IPSAS. This allows stakeholders to clearly consider the implications of the proposal.

## **Amendments to IPSAS 16, *Investment Property***

Paragraphs 33, 38, 39, 40, 41, 41A, 41C, 42, 49, 49A, 50, 57, 59, 62, 62A, 62B, 63, 65, 70, 79, 86, 87, 89, 90 and 97 and the headings above paragraph 42 are amended. Paragraphs 89A–89F, 101K are added. Paragraphs 45–48, 51–56, 58, 60, and 86(d) are deleted. New text is underlined and deleted text is struck through.

...

## **Measurement at Recognition**

...

33. Where an entity initially recognizes its investment property at fair value in accordance with paragraph 27, the fair value is the cost of the property. The entity shall decide, subsequent to initial recognition, to adopt either the fair current value model (paragraphs 42–64) or the historical cost model (paragraph 65).

...

38. The fair value of an asset ~~for which comparable market transactions do not exist~~ is reliably measurable if (a) the variability in the range of reasonable fair value ~~estimates~~ measurements is not significant for that asset or (b) the probabilities of the various estimates within the range can be reasonably assessed and used ~~in estimating~~ when measuring fair value. If the entity is able to ~~determine measure~~ reliably the fair value of either the asset received or the asset given up, then the fair value of the asset given up is used to measure cost unless the fair value of the asset received is more clearly evident.

## Measurement after Recognition

### Accounting Policy

39. With the exception noted in paragraph 41A, an entity shall choose as its accounting policy either the ~~fair current~~ value model in paragraph 42-64 or the historical cost model in paragraph 65, and shall apply that policy to all of its investment property.
40. IPSAS 3, *Accounting Policies, Changes in Accounting Estimates and Errors* states that a voluntary change in accounting policy shall be made only if the change results in the financial statements providing faithfully representative and more relevant information about the effects of transactions, other events or conditions on the entity's financial position, financial performance or cash flows. It is highly unlikely that a change from the ~~fair current~~ value model to the historical cost model will result in a more relevant presentation.
41. This Standard requires all entities to ~~determine measure~~ the fair value of investment property, for the purpose of either measurement (if the entity uses the ~~fair current~~ value model) or disclosure (if it uses the historical cost model). An entity is encouraged, but not required, to ~~determine measure~~ the fair value of investment property on the basis of a valuation by an independent valuer who holds a recognized and relevant professional qualification and has recent experience in the location and category of the investment property being valued.

#### 41A. An entity may:

- (a) **Choose either the ~~fair current~~ value model or the historical cost model for all investment property backing liabilities that pay a return linked directly to the fair value of, or returns from, specified assets including that investment property; and**
- (b) **Choose either the ~~fair current~~ value model or the historical cost model for all other investment property, regardless of the choice made in (a).**

...

- 41C. If an entity chooses different models for the two categories described in paragraph 41A, sales of investment property between pools of assets measured using different models shall be recognized at fair value and the cumulative change in fair value shall be recognized in surplus or deficit. Accordingly, if an investment property is sold from a pool in which the ~~fair current~~ value model is used into a pool in which the historical cost model is used, the property's fair value at the date of the sale becomes its deemed cost.

**Fair Current Value Model**

42. After initial recognition, an entity that chooses the fair current value model shall measure all of its investment property at fair value, except in the cases described in paragraph 62.
- ...
45. ~~The fair value of investment property is the price at which the property could be exchanged between knowledgeable, willing parties in an arm's length transaction (see paragraph 7). Fair value specifically excludes an estimated price inflated or deflated by special terms or circumstances such as atypical financing, sale and leaseback arrangements, special considerations or concessions granted by anyone associated with the sale. [Deleted]~~
46. ~~An entity determines fair value without any deduction for transaction costs it may incur on sale or other disposal. [Deleted]~~
47. ~~The fair value of investment property shall reflect market conditions at the reporting date. [Deleted]~~
48. ~~Fair value is time specific as of a given date. Because market conditions may change, the amount reported as fair value may be incorrect or inappropriate if estimated as of another time. The definition of fair value also assumes simultaneous exchange and completion of the contract for sale without any variation in price that might be made in an arm's length transaction between knowledgeable, willing parties if exchange and completion are not simultaneous. [Deleted]~~
49. When measuring the fair value of investment property in accordance with Appendix D of IPSAS ~~46~~, an entity shall ensure that the fair value reflects, among other things, rental revenue from current leases and reasonable and supportable other assumptions that represent what knowledgeable, willing parties market participants would assume use when pricing the investment property about rental revenue from future leases in the light of under current market conditions. It also reflects, on a similar basis, any cash outflows (including rental payments and other outflows) that could be expected in respect of the property.
- 49A. When a lessee uses the fair current value model to measure an investment property that is held as a right-of-use asset, it shall measure the right-of-use asset, and not the underlying asset, at fair value.
50. IPSAS 43 specifies the basis for initial recognition of the cost of an investment property held by a lessee as a right-of-use asset. Paragraph 42 requires investment property held by a lessee as a right-of-use asset to be remeasured, if necessary, to fair value if the entity chooses the fair current value model. When lease payments are at market rates, the fair value of investment property held by a lessee as a right-of-use asset at acquisition, net of all expected lease payments (including those relating to recognized lease liabilities), should be zero. Thus, remeasuring a right-of-use asset from cost in accordance with IPSAS 43 to fair value in accordance with paragraph 42 (taking into account the requirements in paragraph 59) should not give rise to any initial gain or loss, unless fair value is measured at different times. This could occur when an election to apply the fair value basis model is made after initial recognition.
51. ~~The definition of fair value refers to "knowledgeable, willing parties". In this context, "knowledgeable" means that both the willing buyer and the willing seller are reasonably informed about the nature and characteristics of the investment property, its actual and potential uses, and~~

**APPENDIX E**

market conditions at the reporting date. A willing buyer is motivated, but not compelled, to buy. This buyer is neither over-eager nor determined to buy at any price. The assumed buyer would not pay a higher price than a market comprising knowledgeable, willing buyers and sellers would require. [Deleted]

52. ~~A willing seller is neither an over-eager nor a forced seller, prepared to sell at any price, nor one prepared to hold-out for a price not considered reasonable in current market conditions. The willing seller is motivated to sell the investment property at market terms for the best price obtainable. The factual circumstances of the actual investment property owner are not a part of this consideration because the willing seller is a hypothetical owner (e.g., a willing seller would not take into account the particular tax circumstances of the actual investment property owner).~~ [Deleted]
53. ~~The definition of fair value refers to an arm's length transaction. An arm's length transaction is one between parties that do not have a particular or special relationship that makes prices of transactions uncharacteristic of market conditions. The transaction is presumed to be between unrelated parties, each acting independently.~~ [Deleted]
54. ~~The best evidence of fair value is given by current prices in an active market for similar property in the same location and condition and subject to similar lease and other contracts. An entity takes care to identify any differences in the nature, location, or condition of the property, or in the contractual terms of the leases and other contracts relating to the property.~~ [Deleted]
55. ~~In the absence of current prices in an active market of the kind described in paragraph 54, an entity considers information from a variety of sources, including:~~
  - ~~(a) Current prices in an active market for properties of different nature, condition, or location (or subject to different lease or other contracts), adjusted to reflect those differences;~~
  - ~~(b) Recent prices of similar properties on less active markets, with adjustments to reflect any changes in economic conditions since the date of the transactions that occurred at those prices; and~~
  - ~~(c) Discounted cash flow projections based on reliable estimates of future cash flows, supported by the terms of any existing lease and other contracts and (when possible) by external evidence, such as current market rents for similar properties in the same location and condition, and using discount rates that reflect current market assessments of the uncertainty in the amount and timing of the cash flows.~~ [Deleted]
56. ~~In some cases, the various sources listed in the previous paragraph may suggest different conclusions about the fair value of an investment property. An entity considers the reasons for those differences, in order to arrive at the most reliable estimate of fair value within a range of reasonable fair value estimates.~~ [Deleted]
57. In exceptional cases, there is clear evidence when an entity first acquires an investment property (or when an existing property first becomes an investment property after a change in use) that the variability in the range of reasonable fair value estimates measurements will be so great, and the probabilities of the various outcomes so difficult to assess, that the usefulness of a single estimate measure of fair value is negated. This may indicate that the fair value of the property will not be reliably ~~determinable~~ measurable on a continuing basis (see paragraph 62).

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58. ~~Fair value differs from value in use, as defined in IPSAS 21, Impairment of Non-Cash-Generating Assets and IPSAS 26, Impairment of Cash-Generating Assets. Fair value reflects the knowledge and estimates of knowledgeable, willing buyers and sellers. In contrast, value in use reflects the entity's estimates, including the effects of factors that may be specific to the entity and not applicable to entities in general. For example, fair value does not reflect any of the following factors, to the extent that they would not be generally available to knowledgeable, willing buyers and sellers:~~
- ~~(a) Additional value derived from the creation of a portfolio of properties in different locations;~~
  - ~~(b) Synergies between investment property and other assets;~~
  - ~~(c) Legal rights or legal restrictions that are specific only to the current owner; and~~
  - ~~(d) Tax benefits or tax burdens that are specific to the current owner. [Deleted]~~
59. In determining the carrying amount of investment property under the fair value ~~model~~ basis, an entity does not double-count assets or liabilities that are recognized as separate assets or liabilities. For example:
- (a) Equipment such as elevators or air-conditioning is often an integral part of a building and is generally included in the fair value of the investment property, rather than recognized separately as property, plant, and equipment.
  - (b) If an office is leased on a furnished basis, the fair value of the office generally includes the fair value of the furniture, because the rental revenue relates to the furnished office. When furniture is included in the fair value of investment property, an entity does not recognize that furniture as a separate asset.
  - (c) The fair value of investment property excludes prepaid or accrued lease revenue, because the entity recognizes it as a separate liability or asset.
  - (d) The fair value of investment property held by a lessee as a right-of-use asset reflects expected cash flows (including variable lease payments that are expected to become payable). Accordingly, if a valuation obtained for a property is net of all payments expected to be made, it will be necessary to add back any recognized lease liability, to arrive at the carrying amount of the investment property using the fair value ~~model~~ basis.
60. ~~The fair value of investment property does not reflect future capital expenditure that will improve or enhance the property and does not reflect the related future benefits from this future expenditure. [Deleted]~~

...

*Inability to ~~Determine~~ Measure Fair Value Reliably*

62. **There is a rebuttable presumption that an entity can reliably ~~determine~~ measure the fair value of an investment property on a continuing basis. However, in exceptional cases, there is clear evidence when an entity first acquires an investment property (or when an existing property first becomes investment property after a change in use) that the fair value of the investment property is not reliably ~~determinable~~ measurable on a continuing basis. This arises when, and only when, the market for comparable market property is inactive (e.g.,**

**there are few recent transactions, price quotations are not current or observed transaction prices indicate that the seller was forced to sell) ~~are infrequent~~ and alternative reliable estimates measurements of fair value (for example, based on discounted cash flow projections) are not available. If an entity determines that the fair value of an investment property under construction is not reliably ~~determinable~~ measurable but expects the fair value of the property to be reliably ~~determinable~~ measurable when construction is complete, it shall measure that investment property under construction at historical cost until either its fair value becomes reliably ~~determinable~~ measurable or construction is completed (whichever is earlier). If an entity determines that the fair value of an investment property (other than an investment property under construction) is not reliably ~~determinable~~ measurable on a continuing basis, the entity shall measure that investment property using the historical cost model in IPSAS 17 for owned investment property or in accordance with IPSAS 43 for investment property held by a lessee as a right-of-use asset. The residual value of the investment property shall be assumed to be zero. The entity shall continue to apply IPSAS 17 or IPSAS 43 until disposal of the investment property.**

- 62A. Once an entity becomes able to measure reliably the fair value of an investment property under construction that has previously been measured at cost, it shall measure that property at its fair value. Once construction of that property is complete, it is presumed that fair value can be measured reliably. If this is not the case, in accordance with paragraph 62, the property shall be accounted for using the historical cost model in accordance with IPSAS 17 for owned assets or IPSAS 43 for investment property held by a lessee as a right-of-use asset.
- 62B. The presumption that the fair value of investment property under construction can be measured reliably can be rebutted only on initial recognition. An entity that has measured an item of investment property under construction at fair value may not conclude that the fair value of the completed investment property cannot be ~~determined~~ measured reliably.
63. In the exceptional cases when an entity is compelled, for the reason given in paragraph 62, to measure an investment property using the historical cost model in accordance with IPSAS 17 or IPSAS 43, it measures at fair value all its other investment property, including investment property under construction. In these cases, although an entity may use the historical cost model for one investment property, the entity shall continue to account for each of the remaining properties using the ~~fair~~ current value model.

...

### **Historical Cost Model**

65. **After initial recognition, an entity that chooses the historical cost model shall measure investment property:**
- (a) **In accordance with IPSAS 43 if it is held by a lessee as a right-of-use asset; and**
  - (b) **In accordance with the requirements in IPSAS 17 for the historical cost model if it is held by an owner as an owned investment property.**

...

### **Transfers**



...

70. Paragraphs 71–76 apply to recognition and measurement issues that arise when an entity uses the ~~fair~~ current value model for investment property. When an entity uses the historical cost model, transfers between investment property, owner-occupied property, and inventories do not change the carrying amount of the property transferred, and they do not change the cost of that property for measurement or disclosure purposes.

...

## Disposals

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79. If, in accordance with the recognition principle in paragraph 20, an entity recognizes in the carrying amount of an asset the cost of a replacement for part of an investment property, it derecognizes the carrying amount of the replaced part. For investment property accounted for using the historical cost model, a replaced part may not be a part that was depreciated separately. If it is not practicable for an entity to determine the carrying amount of the replaced part, it may use the cost of the replacement as an indication of what the cost of the replaced part was at the time it was acquired or constructed. Under the ~~fair~~ current value model, the fair value of the investment property may already reflect that the part to be replaced has lost its value. In other cases, it may be difficult to discern how much fair value should be reduced for the part being replaced. An alternative to reducing fair value for the replaced part, when it is not practical to do so, is to include the cost of the replacement in the carrying amount of the asset and then to reassess the fair value, as would be required for additions not involving replacement.

...

## Disclosure

### ~~Fair~~ Current Value Model and Historical Cost Model

...

86. **An entity shall disclose:**
- (a) **Whether it applies the ~~fair~~ current value or the historical cost model;**
  - (b) [Deleted]
  - (c) **When classification is difficult (see paragraph 18), the criteria it uses to distinguish investment property from owner-occupied property and from property held for sale in the ordinary course of operations;**
  - (d) ~~The methods and significant assumptions applied in determining the fair value of investment property, including a statement whether the determination of fair value was supported by market evidence, or was more heavily based on other factors (which the entity shall disclose) because of the nature of the property and lack of comparable market data;~~
  - (e) ...

...



*Fair Current Value Model*

87. In addition to the disclosures required by paragraph 86, an entity that applies the ~~fair~~ current value model in paragraphs 42-64 shall disclose a reconciliation between the carrying amounts of investment property at the beginning and end of the period, showing the following:

(a) ...

...

89. In the exceptional cases referred to in paragraph 62, when an entity measures investment property using the historical cost model in IPSAS 17 or in accordance with IPSAS 43, the reconciliation required by paragraph 87 shall disclose amounts relating to that investment property separately from amounts relating to other investment property. In addition, an entity shall disclose:

...

(b) An explanation of why fair value cannot be ~~determined~~ measured reliably;

...

Current Value Measurement

89A. An entity shall disclose information that helps users of its financial statements assess both of the following:

- (a) For investment properties that are measured at fair value on a recurring or non-recurring basis in the statement of financial position after initial recognition, the measurement techniques and inputs used to develop those measurements; and
- (b) For recurring fair value measurements using significant unobservable inputs (Level 3), the effect of the measurements on surplus or deficit or net assets/equity for the period.

89B. To meet the objectives in paragraph 89A, an entity shall consider all the following:

- (a) The level of detail necessary to satisfy the disclosure requirements;
- (b) How much emphasis to place on each of the various requirements;
- (c) How much aggregation or disaggregation to undertake; and
- (d) Whether users of financial statements need additional information to evaluate the quantitative information disclosed.

If the disclosures provided in accordance with this IPSAS and other IPSAS are insufficient to meet the objectives in paragraph 89A, an entity shall disclose additional information necessary to meet those objectives.

89C. To meet the objectives in paragraph 89A, an entity shall disclose, at a minimum, the following information for each class of investment property (see paragraph 89D for information on determining appropriate classes of investment property) measured at fair value (including

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measurements based on fair value within the scope of IPSAS ~~IX~~46, *Measurement*) in the statement of financial position after initial recognition:

- (a) For recurring and non-recurring fair value measurements, the fair value measurement at the end of the reporting period, and for non-recurring fair value measurements, the reasons for the measurement. Recurring fair value measurements of investment property are those that this Standard requires or permits in the statement of financial position at the end of each reporting period. Non-recurring fair value measurements of investment property are those that this Standard requires or permits in the statement of financial position in particular circumstances;
- (b) For recurring and non-recurring fair value measurements, whether the fair value measurements are estimated using observable or unobservable inputs. For recurring and non-recurring fair value measurements, the level of the fair value hierarchy within which the fair value measurements are categorized in their entirety (Level 1, 2 or 3);
- (c) For recurring and non-recurring fair value measurements estimated using unobservable inputs, a description of the measurement technique(s) and the inputs used in the fair value measurement. If there has been a change in measurement technique (e.g. changing from a market approach to an income approach or the use of an additional measurement technique), the entity shall disclose that change and the reason(s) for making it. For fair value measurements categorized within Level 3 of the fair value hierarchy, or for fair value measurements estimated using unobservable inputs, an entity shall provide quantitative information about the significant unobservable inputs used in the fair value measurement. An entity is not required to create quantitative information to comply with this disclosure requirement if quantitative unobservable inputs are not developed by the entity when measuring fair value (e.g. when an entity uses prices from prior transactions or third-party pricing information without adjustment). However, when providing this disclosure an entity cannot ignore quantitative unobservable inputs that are significant to the fair value measurement and are reasonably available to the entity.
- (d) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy, a reconciliation from the opening balances to the closing balances, disclosing separately changes during the period attributable to the following:
  - (i) Total gains or losses for the period recognized in surplus or deficit, and the line item(s) in surplus or deficit in which those gains or losses are recognized;
  - (ii) Total gains or losses for the period recognized in net assets/equity, and the line item(s) in net assets/equity in which those gains or losses are recognized; and
  - (iii) Purchases, sales, issues and settlements (each of those types of changes disclosed separately).
- (e) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy, the amount of the total gains or losses for the period in (d)(i) included in surplus or deficit that is attributable to the change in unrealized gains or losses relating to those investment properties held at the end of the reporting period, and the line item(s) in surplus or deficit in which those unrealized gains or losses are recognized;

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- (f) For recurring and non-recurring fair value measurements categorized within Level 3 of the fair value hierarchy, a description of the valuation processes used by the entity (including, for example, how an entity decides its valuation policies and procedures and analyses changes in fair value measurements from period to period); and
- (g) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy:
  - (i) For all such measurements, a narrative description of the sensitivity of the fair value measurement to changes in unobservable inputs if a change in those inputs to a different amount might result in a significantly higher or lower fair value measurement. If there are interrelationships between those inputs and other unobservable inputs used in the fair value measurement, an entity shall also provide a description of those interrelationships and of how they might magnify or mitigate the effect of changes in the unobservable inputs on the fair value measurement. To comply with that disclosure requirement, the narrative description of the sensitivity to changes in unobservable inputs shall include, at a minimum, the unobservable inputs disclosed when complying with (c).

89D. An entity shall determine appropriate classes of investment property on the basis of the following:

- (a) The nature, characteristics and risks of the investment property; and
- (b) The level of the fair value hierarchy within which the fair value measurement is categorized, or whether the fair value is observable or unobservable.

The number of classes may need to be greater for fair value measurements categorized within Level 3 of the fair value hierarchy because those measurements have a greater degree of uncertainty and subjectivity. Determining appropriate classes of investment property for which disclosures about fair value measurements should be provided requires judgement. A class of investment property will often require greater disaggregation than the line items presented in the statement of financial position. However, an entity shall provide information sufficient to permit reconciliation to the line items presented in the statement of financial position. If another IPSAS specifies the class for an investment property, an entity may use that class in providing the disclosures required in this Standard if that class meets the requirements in this paragraph.

89E. For each class of investment property not measured at fair value in the statement of financial position but for which the fair value is disclosed, an entity shall disclose the information required by paragraph 89C(b), (c) and (g). However, an entity is not required to provide the quantitative disclosures about significant unobservable inputs used in fair value measurements categorized within Level 3 of the fair value hierarchy, or for fair value measurements estimated using unobservable inputs, required by paragraph 89C(c). For such investment properties, an entity does not need to provide the other disclosures required by this Standard.

89F. An entity shall present the quantitative disclosures required by this Standard in a tabular format unless another format is more appropriate.

...

*Historical Cost Model*

**APPENDIX E**

90. In addition to the disclosures required by paragraph 86, an entity that applies the historical cost model in paragraph 65 shall disclose:

...

- (e) The fair value of investment property. In the exceptional cases described in paragraph 62, when an entity cannot ~~determine~~ measure the fair value of the investment property reliably, the entity shall disclose:

...

- (ii) An explanation of why fair value cannot be ~~determined~~ measured reliably; and

...

## Transitional Provisions

...

### **Fair Current Value Model**

...

97. An entity that (a) has previously applied IPSAS 16 (2001), and (b) elects for the first time to classify and account for some or all eligible property interests held under operating leases as investment property, shall recognize the effect of that election as an adjustment to the opening balance of accumulated surpluses or deficits for the period in which the election is first made. In addition:
- (a) If the entity has previously disclosed publicly (in financial statements or otherwise) the fair value of its investment property in earlier periods (~~determined~~ measured on a basis that satisfies the definition of fair value and the guidance in ~~paragraphs 45–64~~ Appendix D of IPSAS ~~IX~~46), the entity is encouraged, but not required:
- (i) To adjust the opening balance of accumulated surpluses or deficits for the earliest period presented for which such fair value was disclosed publicly; and
- (ii) To restate comparative information for those periods; and
- (b) If the entity has not previously disclosed publicly the information described in (a), it shall not restate comparative information and shall disclose that fact.

...

### **Historical Cost Model**

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## Effective Date

...

- 101K. Paragraphs 33, 38, 39, 40, 41, 41A, 41C, 42, 49, 49A, 50, 57, 59, 62, 62A, 62B, 63, 65, 70, 79, 86, 87, 89, 90 and 97 were amended, and paragraphs 89A–89F were added, and paragraphs 45–48, 51–56, 58, 60, and 86(d) were deleted by IPSAS ~~IX~~46, issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the

amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~IX146~~ at the same time.

...

## Basis for Conclusions

...

### Revision of IPSAS 16 as a result of IPSAS ~~IX146~~, *Measurement*

BC12. IPSAS ~~IX146~~, *Measurement*, issued in [Month] [Year], provides generic guidance on the initial and subsequent measurement of assets, to ensure a consistent approach across all IPSAS. The IPSASB agreed to update measurement terminology and disclosure requirements for consistency with IPSAS ~~IX146~~, remove guidance on measurement in IPSAS 16 where such guidance was now provided in IPSAS ~~IX146~~, and to refer preparers to the guidance in that Standard.

## Amendments to IPSAS 21, Impairment of Non-Cash-Generating Assets

Paragraphs 2, 10 and 29 are amended. Paragraphs 10A and 82M are added. New text is underlined and deleted text is struck through.

2. **An entity that prepares and presents financial statements under the accrual basis of accounting shall apply this Standard in accounting for impairment of non-cash-generating assets, except:**
  - (a) Inventories (see IPSAS 12, *Inventories*);
  - (b) Assets arising from construction contracts (see IPSAS 11, *Construction Contracts*);
  - (c) Financial assets that are included in the scope of IPSAS 41, *Financial Instruments*;
  - (d) Investment property that is measured using the fair current value model (see IPSAS 16, *Investment Property*);
  - (e) ...

...

## Scope

...

10. This Standard does not require the application of an impairment test to ~~an investment property that is carried~~ measured at fair value in accordance with within the scope of IPSAS 16. This is because, under the fair current value model in IPSAS 16, an investment property is carried at fair value at the reporting date and any impairment will be taken into account in the valuation.
- 10A. However, this Standard applies to non-cash-generating assets that are carried at revalued amounts (i.e., fair value, or current operational value, at the date of the revaluation less any subsequent accumulated depreciation and subsequent accumulated impairment losses) in accordance with other IPSAS, such as the current value model in IPSAS ~~IX1 (ED-78)45~~, *Property, Plant, and Equipment* and the revaluation model in IPSAS 31, *Intangible Assets*. The only difference between

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a non-cash-generating asset's fair value and its fair value less costs to sell is the direct incremental costs attributable to the disposal of the non-cash-generating asset.

- (a) If the disposal costs are negligible, the recoverable service amount of the revalued non-cash-generating asset is necessarily close to, or greater than, its revalued amount. In this case, after the revaluation requirements have been applied, it is unlikely that the revalued non-cash-generating asset is impaired and recoverable service amount need not be estimated.
- (b) If the disposal costs are not negligible, the fair value less costs to sell of the revalued non-cash-generating asset is necessarily less than its fair value. Therefore, the revalued non-cash-generating asset will be impaired if its value in use is less than its revalued amount. In this case, after the revaluation requirements have been applied, an entity applies this Standard to determine whether the non-cash-generating asset may be impaired.

**Definitions**

- 14. Fair value, for the purpose of applying this Standard, is the amount for which an asset could be exchanged, or a liability settled, between knowledgeable, willing parties in an arm's length transaction.

**Identifying an Asset that may be Impaired**

- 29. The list in paragraph 27 is not exhaustive. There may be other indications that an asset may be impaired. The existence of other indications may result in the entity estimating the asset's recoverable service amount. For example, any of the following may be an indication of impairment:
  - (a) During the period, There are observable indications that the an asset's market value has declined during the period significantly more than would be expected as a result of the passage of time or normal use; or
  - (b) A significant long-term decline (but not necessarily cessation or near cessation) in the demand for or need for services provided by the asset.

**Effective Date**

- 82M. Paragraphs 2, 10 and 29 were amended and paragraph 10A was added by IPSAS ~~IX~~46, issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is

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**encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~IX~~46 at the same time.**

...

**Basis for Conclusions**

*This Basis for Conclusions accompanies, but is not part of, IPSAS 21.*

...

**Property, Plant, and Equipment and Intangible Assets**

...

BC19. Firstly, there are different methods of determining recoverable service amount under this Standard, and of determining recoverable amount under IAS 36. Recoverable service amount is defined in this Standard as the higher of a non-cash-generating asset's fair value less costs ~~to sell~~ of disposal and its value in use. Under this Standard, an entity determines an asset's value in use by determining the current cost to replace the asset's remaining service potential. The current cost to replace the asset's remaining service potential is determined using the depreciated replacement cost approach, and approaches described as the restoration cost approach and the service units approach. These approaches ~~may also be~~ were also adopted to measure fair value under IPSAS 17 and IPSAS 31 and therefore the value in use ~~is~~ was a measure of fair value. Recoverable amount is defined in IAS 36 as the higher of an asset's fair value less costs ~~to sell~~ of disposal and its value in use. Value in use under IAS 36 is determined using the present value of the cash flows expected to be derived from continued use of the asset and its eventual disposal. IAS 36 states that the value in use may be different from the fair value of the asset.

BC19A. The IPSASB has since issued IPSAS ~~IX~~46, which provides a consistent approach to measuring fair value in all IPSAS. The IPSASB noted that the guidance in that Standard includes a fair value hierarchy, which guidance on measurement techniques that may be used where there is no observable market data. The IPSASB considered whether the restoration cost approach and the service units approach were appropriate to estimate fair value. The IPSASB noted that the alternatives included in IPSAS 17 and IPSAS 31 are inconsistent with measurement techniques available in IPSAS ~~IX~~46, to estimate fair value. The IPSASB agreed to update the definition of fair value in IPSAS 31 to align with IPSAS ~~IX~~46, and replaced IPSAS 17 with IPSAS ~~IX~~45, Property, Plant, and Equipment.

...

**Reversal of Impairment**

...

BC25. Paragraph 27(c) includes "Evidence is available of physical damage of an asset" as a minimum indication of impairment. Paragraph 60 does not include an indication of reversal of impairment that mirrors this indication of impairment. The IPSASB has not included repair of an asset as an indication of reversal, because IPSAS 17 requires entities to add subsequent expenditure to the carrying amount of an item of property, plant, and equipment when it is probable that future economic benefits or service potential over the total life of the asset, in excess of the most

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recently assessed standard of performance of the existing asset, will flow to the entity. This requirement also applies to investment property that is measured using the historical cost model under IPSAS 16. The IPSASB is of the view that these requirements negate the need for an indication of reversal of impairment that mirrors the physical damage indication of impairment. The IPSASB also noted that restoration or repair of damage does not constitute a change in the estimate of the asset's recoverable service amount after impairment as specified by paragraph 65 of this IPSAS.

...

**Revision of IPSAS 21 as a result of IPSAS ~~IX146~~, Measurement**

BC28. IPSAS ~~IX146~~, Measurement, issued in [Month] [Year], provides generic guidance on the initial and subsequent measurement of assets, to ensure a consistent approach across all IPSAS. The IPSASB agreed the concept of fair value should be retained in IPSAS 21, independent of the revised definition of fair value proposed in IPSAS ~~IX146~~. The IPSASB agreed any changes to the concept of fair value in IPSAS 21 should be considered as part of an IPSAS 21 specific project and in the context of estimating impairment more broadly.

**Amendments to IPSAS 22, Disclosure of Financial Information about the General Government Sector**

Paragraph 32 is amended. Paragraph 47G is added. New text is underlined and deleted text is struck through.

...

**Accounting Policies**

...

32. Statistical bases of reporting require all assets and liabilities (except loans) to be revalued to market value at each reporting date. IPSASs include different measurement requirements, and require or permit a historical cost model and current values model for certain classes of assets and liabilities. They do not require all assets and liabilities to be revalued to market value. Therefore, the measurement of assets and liabilities in the GGS disclosures in the financial statements, including the investment in the PFC and PNFC sectors, may differ from the measurement basis adopted in statistical bases of reporting.

...

**Effective Date**

...

47G. Paragraph 32 was amended by IPSAS ~~IX146~~, issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the amendment for a



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period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~46~~ at the same time.

...

**Basis for Conclusions**

...

**Consolidation and Disaggregation**

BC7. Statistical bases of financial reporting and IPSASs have many similarities in their treatment of particular transactions and events. However, there are also differences. For example, statistical bases of financial reporting:

- (a) Require all assets and liabilities (except loans) to be revalued to market value at each reporting date. IPSASs include different measurement requirements, and require or permit a historical cost model and current values model for certain classes of assets and liabilities;
- (b) ...

...

**Amendments to IPSAS 23, Revenue from Non-Exchange Transactions (Taxes and Transfers)**

Paragraphs ~~42-43~~ and 97 are amended and paragraph 124I is added. Paragraph 42 is deleted. New text is underlined and deleted text is struck through.

...

**Recognition of Assets**

...

**Measurement of Assets on Initial Recognition**

- 42. ~~An asset acquired through a non-exchange transaction shall initially be measured at its fair value as at the date of acquisition. [Deleted]Appendix A of IPSAS [X], Measurement, provides guidance on measuring assets at fair value.~~
- 43. Consistent with IPSAS 12, Inventories, IPSAS 16, Investment Property, IPSAS 17, Property, Plant, and Equipment, and IPSAS 41, Financial Instruments, and IPSAS 31, Intangible Assets, assets acquired through non-exchange transactions are measured at their fair value as at the date of acquisition. Consistent with IPSAS ~~45~~, Property, Plant, and Equipment, assets acquired through non-exchange transactions are measured at their deemed cost as at the date of acquisition. The primary objective for which an entity holds property, plant, and equipment determines the current value measurement basis used to determine deemed cost. Property, plant, and equipment held for its operational capacity is measured at current operational value. Property, plant, and equipment held for its financial capacity is measured at fair value.

...

## Transfers

...

### Gifts and Donations, including Goods In-kind

...

97. On initial recognition, gifts and donations, including goods in-kind, of:

(a) Inventories, investment property, financial instruments, intangible assets are measured at their fair value; and

(b) Property, plant, and equipment assets are measured at their deemed cost;

as As at the date of acquisition, ~~which may be ascertained by reference to an active market, or by appraisal. An appraisal of the value of an asset is normally undertaken by a member of the valuation profession who holds a recognized and relevant professional qualification. For many assets, the fair value will be readily ascertainable by reference to quoted prices in an active and liquid market. For example, current market prices can usually be obtained for land, non-specialized buildings, motor vehicles and many types of plant and equipment in accordance with IPSAS [X]46. The primary objective for which an entity holds property, plant, and equipment, in accordance with IPSAS 45, determines the current value measurement basis used to determine deemed cost. Property, plant, and equipment held for its operational capacity is measured at current operational value. Property, plant, and equipment held for its financial capacity is measured at fair value.~~

...

## Effective Date

...

124l. Paragraphs 42-43 and 97 were amended and paragraph 42 was deleted by IPSAS [X]46, issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS [X]46 at the same time.

...

## Basis for Conclusions

### Measurement of Assets

BC16. Prior to the effective date of IPSAS [X]46, Measurement, This this Standard requires required that assets acquired through non-exchange transactions be initially measured at their fair value as at the date of acquisition. The IPSASB is was of the view that this is had concluded the use of fair value was appropriate to reflect the substance of the transaction and its consequences for the recipient. In an exchange transaction, the cost of acquisition is a measure of the fair value of the asset acquired. However, by definition, in a non-exchange transaction the consideration provided for the acquisition of an asset is not approximately equal to the fair value of the asset acquired.

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~~Fair value most faithfully represents represented the actual value the public sector entity accrues as a result of the transaction. Initial measurement of assets acquired through non-exchange transactions at their fair value is was consistent with the approach taken in IPSAS 16, *Investment Property*, and IPSAS 17, *Property, Plant, and Equipment*, for assets acquired at no cost or for a nominal cost. The IPSASB has had made consequential amendments to IPSAS 12, *Inventories*, and IPSAS 16 and IPSAS 17 to fully align those IPSASs with the requirements of this Standard.~~

~~BC16A. As part of the development of IPSAS [X]46, *Measurement*, the IPSASB decided, in the case of property, plant, and equipment held for its operational capacity, deemed cost should be clarified to include current operational value. The IPSASB agreed ~~permitting~~to permit the use of current operational value on initial measurement where the transaction price does not faithfully provide relevant information to– ~~does not contradict previous conclusions that fair value appropriately reflects the substance of the transaction for property, plant, and equipment,~~ held for their operational capacity. While fair value continues to faithfully represent the value to the public sector entity of property, plant, and equipment held for its financial capacity, current operational value faithfully represents the value of property, plant, and equipment held for their operational capacity.~~

...

**Amendments to IPSAS 26, Impairment of Cash-Generating Assets**

Paragraphs 8, 10, 13, 25, 31–36, 41, 42, 66, 78, 85, 87, 89, 92, 94, 100, 104, 120, and 123 are amended. Paragraphs 10A, 66A and 126O are added. Paragraphs 38–40 are deleted. New text is underlined and deleted text is struck through.

...

**Scope**

...

8. This Standard does not apply to inventories and cash-generating assets arising from construction contracts, because existing standards applicable to these assets contain requirements for recognizing and measuring such assets. This Standard does not apply to deferred tax assets, assets related to employee benefits, or deferred acquisition costs and intangible assets arising from an insurer's contractual rights under insurance contracts. The impairment of such assets is addressed in the relevant international or national accounting standards. In addition, this Standard does not apply to biological assets related to agricultural activity that are measured at fair value less costs ~~to sell~~ of disposal. IPSAS 27 dealing with biological assets related to agricultural activity contains measurement requirements.

...

10. This Standard does not require the application of an impairment test to ~~an investment property that is carried~~ measured at fair value ~~in accordance with~~ within the scope of IPSAS 16. Under the fair current value model in IPSAS 16, an investment property is carried at fair value at the reporting date, and any impairment will be taken into account in the valuation.

...

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10A. However, this Standard applies to cash-generating assets that are carried at revalued amounts (i.e., fair value or current operational value at the date of the revaluation less any subsequent accumulated depreciation and subsequent accumulated impairment losses) in accordance with other IPSAS, such as the current value model in IPSAS ~~45~~, *Property, Plant, and Equipment* and IPSAS 31, *Intangible Assets*. The only difference between a cash-generating asset's fair value and its fair value less costs of disposal is the direct incremental costs attributable to the disposal of the cash-generating asset.

(a) If the disposal costs are negligible, the recoverable amount of the revalued cash-generating asset is necessarily close to, or greater than, its revalued amount. In this case, after the revaluation requirements have been applied, it is unlikely that the revalued cash-generating asset is impaired and recoverable amount need not be estimated.

(b) If the disposal costs are not negligible, the fair value less costs of disposal of the revalued cash-generating asset is necessarily less than its fair value. Therefore, the revalued cash-generating asset will be impaired if its value in use is less than its revalued amount. In this case, after the revaluation requirements have been applied, an entity applies this Standard to determine whether the cash-generating asset may be impaired.

...

**Definitions**

13. **The following terms are used in this Standard with the meanings specified:**

...

**Recoverable amount** is the higher of an asset's or a cash-generating unit's fair value less costs ~~to sell~~ of disposal and its value in use.

...

**Identifying an Asset that may be Impaired**

...

25. **In assessing whether there is any indication that an asset may be impaired, an entity shall consider, as a minimum, the following indications:**

**External sources of information**

(a) **During the period, There are observable indicators that an asset's market value has declined during the period significantly more than would be expected as a result of the passage of time or normal use;**

...

**Measuring Recoverable Amount**

31. This Standard defines "recoverable amount" as the higher of an asset's fair value less costs ~~to sell~~ of disposal and its value in use. Paragraphs 32–70 set out the requirements for measuring

recoverable amount. These requirements use the term “an asset” but apply equally to an individual asset or a cash-generating unit.

32. It is not always necessary to determine both an asset's fair value less costs ~~to sell of disposal~~ and its value in use. If either of these amounts exceeds the asset's carrying amount, the asset is not impaired and it is not necessary to estimate the other amount.
33. It may be possible to ~~determine measure~~ fair value less costs ~~to sell of disposal~~, even if ~~there is not a quoted price in an active market for an identical asset is not traded in an active market~~. However, sometimes it will not be possible to ~~determine measure~~ fair value less costs ~~to sell of disposal~~ because there is no basis for making a reliable<sup>3</sup> estimate of the ~~amount obtainable from the sale of the asset in an arm's length transaction between knowledgeable and willing parties price at which an orderly transaction to sell the asset would take place between market participants at the measurement date under current market conditions~~. In this case, the entity may use the asset's value in use as its recoverable amount.
34. If there is no reason to believe that an asset's value in use materially exceeds its fair value less costs ~~to sell of disposal~~, the asset's fair value less costs ~~to sell of disposal~~ may be used as its recoverable amount. This will often be the case for an asset that is held for disposal. This is because the value in use of an asset held for disposal will consist mainly of the net disposal proceeds, as the future cash flows from continuing use of the asset until its disposal are likely to be negligible.
35. Recoverable amount is determined for an individual asset, unless the asset does not generate cash inflows that are largely independent of those from other assets or groups of assets. If this is the case, recoverable amount is determined for the cash-generating unit to which the asset belongs (see paragraphs 85–90), unless either:
  - (a) The asset's fair value less costs ~~to sell of disposal~~ is higher than its carrying amount; or
  - (b) The asset is a part of a cash-generating unit but is capable of generating cash flows individually, in which case the asset's value in use can be estimated to be close to its fair value less costs ~~to sell of disposal~~ and the asset's fair value less costs ~~to sell of disposal~~ can be ~~determined measured~~.
36. In some cases, estimates, averages and computational shortcuts may provide reasonable approximations of the detailed computations for determining fair value less costs ~~to sell of disposal~~ or value in use.

...

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<sup>3</sup> Information that is reliable is free from material error and bias, and can be depended on by users to faithfully represent that which it purports to represent or could reasonably be expected to represent. Paragraph BC16 of IPSAS 1 discusses the transitional approach to the explanation of reliability.

**Fair Value less Costs to Sell of Disposal**

38. ~~The best evidence of an asset's fair value less costs to sell is the price in a binding sale agreement in an arm's length transaction, adjusted for incremental costs that would be directly attributable to the disposal of the asset. [Deleted]~~
39. ~~If there is no binding sale agreement but an asset is traded in an active market, fair value less costs to sell is the asset's market price less the costs of disposal. The appropriate market price is usually the current bid price. When current bid prices are unavailable, the price of the most recent transaction may provide a basis from which to estimate fair value less costs to sell, provided that there has not been a significant change in economic circumstances between the transaction date and the date as at which the estimate is made. [Deleted]~~
40. ~~If there is no binding sale agreement or active market for an asset, fair value less costs to sell is based on the best information available that reflects the amount that an entity could obtain, at the reporting date, from the disposal of the asset in an arm's length transaction between knowledgeable, willing parties, after deducting the costs of disposal. In determining this amount, an entity considers the outcome of recent transactions for similar assets within the same industry. Fair value less costs to sell does not reflect a forced sale. [Deleted]~~
41. Costs of disposal, other than those that have been recognized as liabilities, are deducted in ~~determining~~ measuring fair value less costs ~~to sell of disposal~~. Examples of such costs are legal costs, stamp duty and similar transaction taxes, costs of removing the asset, and direct incremental costs to bring an asset into condition for its sale. However, termination benefits and costs associated with reducing or reorganizing ~~a business an operation~~ following the disposal of an asset are not direct incremental costs to dispose of the asset.
42. Sometimes, the disposal of an asset would require the buyer to assume a liability, and only a single fair value less costs ~~to sell of disposal~~ is available for both the asset and the liability. Paragraph 89 explains how to deal with such cases.

**Value in Use**

...

*Composition of Estimates of Future Cash Flows*

...

66. The estimate of net cash flows to be received (or paid) for the disposal of an asset at the end of its useful life is determined in a similar way to an asset's fair value less costs ~~to sell of disposal~~, except that, in estimating those net cash flows:
- (a) ...
- 66A. Fair value differs from value in use. Fair value reflects the assumptions market participants would use when pricing the asset. In contrast, value in use reflects the effects of factors that may be specific to the entity and not applicable to entities in general. For example, fair value does not reflect any of the following factors to the extent that they would not be generally available to market participants:

- (a) Additional value derived from the grouping of assets (such as the creation of a portfolio of investment property in different locations);
- (b) Synergies between the asset being measured and other assets;
- (c) Legal rights or legal restrictions that are specific only to the current owner of the asset; and
- (d) Tax benefits or tax burdens that are specific to the current owner of the asset.

...

## Cash-Generating Units

...

### Identifying the Cash-Generating Unit to which an Asset Belongs

...

78. The recoverable amount of an individual asset cannot be determined if:

- (a) The asset's value in use cannot be estimated to be close to its fair value less costs ~~to sell~~ of disposal (for example, when the future cash flows from continuing use of the asset cannot be estimated to be negligible); and
- (b) The asset does not generate cash inflows that are largely independent of those from other assets and is not capable of generating cash flows individually.

In such cases, value in use and, therefore, recoverable amount, can be determined only for the asset's cash-generating unit.

...

### Recoverable Amount and Carrying Amount of a Cash-Generating Unit

85. The recoverable amount of a cash-generating unit is the higher of the cash-generating unit's fair value less costs ~~to sell~~ of disposal and its value in use. For the purpose of determining the recoverable amount of a cash-generating unit, any reference in paragraphs 31–70 to an asset is read as a reference to a cash-generating unit.

...

87. The carrying amount of a cash-generating unit:

- (a) Includes the carrying amount of only those assets that can be attributed directly, or allocated on a reasonable and consistent basis, to the cash-generating unit and will generate the future cash inflows used in determining the cash-generating unit's value in use; and
- (b) Does not include the carrying amount of any recognized liability, unless the recoverable amount of the cash-generating unit cannot be determined without consideration of this liability.

This is because fair value less costs ~~to sell~~ of disposal and value in use of a cash-generating unit are determined excluding cash flows that relate to assets that are not part of the cash-generating unit and liabilities that have been recognized (see paragraphs 41 and 56).

...

89. It may be necessary to consider some recognized liabilities to determine the recoverable amount of a cash-generating unit. This may occur if the disposal of a cash-generating unit would require the buyer to assume the liability. In this case, the fair value less costs ~~to sell~~ of disposal (or the estimated cash flow from ultimate disposal) of the cash-generating unit is the ~~estimated selling price to sell~~ for the assets of the cash-generating unit and the liability together, less the costs of disposal. To perform a meaningful comparison between the carrying amount of the cash-generating unit and its recoverable amount, the carrying amount of the liability is deducted in determining both the cash-generating unit's value in use and its carrying amount.

...

### Impairment Loss for a Cash-Generating Unit

...

92. In allocating an impairment loss in accordance with paragraph 91, an entity shall not reduce the carrying amount of an asset below the highest of:
- (a) Its fair value less costs ~~to sell~~ of disposal (if ~~determinable~~ measurable);
- ...
94. If the recoverable amount of an individual asset cannot be determined (see paragraph 78):
- (a) An impairment loss is recognized for the asset if its carrying amount is greater than the higher of its fair value less costs ~~to sell~~ of disposal and the results of the allocation procedures described in paragraphs 91–93; and
  - (b) No impairment loss is recognized for the asset if the related cash-generating unit is not impaired. This applies even if the asset's fair value less costs ~~to sell~~ of disposal is less than its carrying amount.

...

### Reversing an Impairment Loss

...

100. In assessing whether there is any indication that an impairment loss recognized in prior periods for an asset other than goodwill may no longer exist or may have decreased, an entity shall consider, as a minimum, the following indications:

#### External sources of information

- (a) There are observable indications that ~~The the~~ asset's ~~market~~ value has increased significantly during the period;

...

104. A reversal of an impairment loss reflects an increase in the estimated service potential of an asset, either from use or from sale, since the date when an entity last recognized an impairment loss for that asset. An entity is required to identify the change in estimates that causes the increase in estimated service potential. Examples of changes in estimates include:



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- (a) A change in the basis for recoverable amount (i.e., whether recoverable amount is based on fair value less costs ~~to sell~~ of disposal or value in use);
- (b) If recoverable amount was based on value in use, a change in the amount or timing of estimated future cash flows, or in the discount rate; or
- (c) If recoverable amount was based on fair value less costs ~~to sell~~ of disposal, a change in estimate of the components of fair value less costs ~~to sell~~ of disposal.

...

**Disclosure**

...

120. **An entity shall disclose the following for each material impairment loss recognized or reversed during the period for a cash-generating asset (including goodwill) or a cash-generating unit:**

...

- (e) **Whether the recoverable amount of the asset (cash-generating unit) is its fair value less costs ~~to sell~~ of disposal or its value in use;**
- (f) **If the recoverable amount is fair value less costs ~~to sell~~ of disposal, ~~the basis used to determine fair value less costs to sell (such as whether fair value was determined by reference to an active market; and~~ the entity shall disclose the following information:**
  - (i) **The level of the fair value hierarchy (see IPSAS 46) within which the fair value measurement of the asset (cash-generating unit) is categorized in its entirety (without taking into account whether the 'costs of disposal' are observable);**
  - (ii) **For fair value measurements categorized within Level 2 and Level 3 of the fair value hierarchy, a description of the measurement technique(s) used to measure fair value less costs of disposal. If there has been a change in measurement technique, the entity shall disclose that change and the reason(s) for making it; and**
  - (iii) **For fair value measurements categorized within Level 2 and Level 3 of the fair value hierarchy, each key assumption on which management has based its determination of fair value less costs of disposal. Key assumptions are those to which the asset's (cash-generating unit's) recoverable amount is most sensitive. The entity shall also disclose the discount rate(s) used in the current measurement and previous measurement if fair value less costs of disposal is measured using a present value technique.**

...

**Disclosure of Estimates used to Measure Recoverable Amounts of Cash-Generating Units Containing Intangible Assets with Indefinite Useful Lives**

123. **An entity shall disclose the information required by (a)–(f) for each cash-generating unit (group of units) for which the carrying amount of goodwill or intangible assets with**

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indefinite useful lives allocated to that unit (group of units) is significant in comparison with the entity's total carrying amount of goodwill or intangible assets with indefinite useful lives:

...

- (c) The basis on which the unit's (group of units') recoverable amount has been determined (i.e., value in use or fair value less costs ~~to sell~~ of disposal);
- (d) If the unit's (group of units') recoverable amount is based on value in use:
  - (i) ~~A description of each~~ Each key assumption on which management has based its cash flow projections for the period covered by the most recent budgets/forecasts. Key assumptions are those to which the unit's (group of units') recoverable amount is most sensitive;

...

- (e) If the unit's (group of units') recoverable amount is based on fair value less costs ~~to sell~~ of disposal, the ~~methodology~~ measurement technique(s) used to ~~determine~~ measure fair value less costs ~~to sell~~ of disposal. If fair value less costs ~~to sell~~ of disposal is not ~~determined~~ measured using an ~~observable market~~ a quoted price for ~~the an identical unit (group of units), an entity shall disclose~~ the following information ~~shall also be disclosed~~:

- (i) ~~A description of each~~ Each key assumption on which management has based its determination of fair value less costs ~~to sell~~ of disposal. Key assumptions are those to which the unit's (group of units') recoverable amount is most sensitive; and
- (ii) A description of management's approach to determining the value (or values) assigned to each key assumption, whether those values reflect past experience or, if appropriate, are consistent with external sources of information, and, if not, how and why they differ from past experience or external sources of information.
- (iia) The level of the fair value hierarchy (see IPSAS ~~FX146~~) within which the fair value measurement is categorized in its entirety (without giving regard to the observability of 'costs of disposal').
- (iib) If there has been a change in measurement technique, the change and the reason(s) for making it.

If fair value less costs ~~to sell~~ of disposal is ~~determined~~ measured using discounted cash flow projections, an entity shall disclose the following information ~~shall also be disclosed~~:

- (iii) The period over which management has projected cash flows;
- (iv) The growth rate used to extrapolate cash flow projections; and
- (v) The discount rate(s) applied to the cash flow projections.

...

## Effective Date

...

126O. Paragraphs 8, 10, 13, 25, 31-36, 41, 42, 66, 78, 85, 87, 89, 92, 94, 100, 104, 120, and 123 were amended, paragraphs 10A and 66A were added, and paragraphs 38–40 were deleted by IPSAS ~~IX146~~, issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~IX146~~ at the same time.

...

## Basis for Conclusions

*This Basis for Conclusions accompanies, but is not part of, IPSAS 26.*

**Development of IPSAS 26 based on the IASB's revised version of IAS 36 issued in 2004**

...

*Fair Value less Costs ~~to Sell~~ of Disposal and Forced Sales*

...

### **Revision of IPSAS 26 as a result of IPSAS ~~IX146~~, Measurement**

BC22. IPSAS ~~IX146~~, Measurement, issued in [Month] [Year], provides generic guidance on the measurement of fair value, to ensure a consistent approach across all IPSAS. The IPSASB agreed to remove guidance on measurement in IPSAS 26 where such guidance was now provided in IPSAS ~~IX146~~, and to refer preparers to the guidance in that Standard.

...

## Implementation Guidance

*This guidance accompanies, but is not part of, IPSAS 26.*

...

### **Calculation of Value in Use and Recognition of an Impairment Loss**

*Background and Calculation of Value in Use*

...

IG13. It is not possible to determine the fair value less costs ~~to sell~~ of disposal of the power plant. Therefore, recoverability can only be determined through the calculation of value in use. To determine the value in use for the power plant (see Schedule 1), Government R:

- (a) Prepares cash flow forecasts derived from the most recent financial budgets/forecasts for the next five years (years 20X5-20X9) approved by management;

- (b) Estimates subsequent cash flows (years 20Y0–20Y9) based on declining growth rates ranging from -6 percent per annum to -3 percent per annum; and
- (c) Selects a 6 percent discount rate, which represents a rate that reflects current market assessments of the time value of money and the risks specific to Government R's power plant.

...

### **Inclusion of Recognized Liabilities in Calculation of Recoverable Amount of a Cash-Generating Unit**

...

#### *Impairment Testing*

...

IG24. The cash-generating unit's fair value less costs ~~to sell~~ of disposal is CU800. This amount includes restoration costs that have already been provided for. As a consequence, the value in use for the cash-generating unit is determined after consideration of the restoration costs, and is estimated to be CU700 (CU1,200 minus CU500). The carrying amount of the cash-generating unit is CU500, which is the carrying amount of the site (CU1,000) minus the carrying amount of the provision for restoration costs (CU500). Therefore, the recoverable amount of the cash-generating unit exceeds its carrying amount.

...

### **Accounting Treatment of an Individual Asset in a Cash-Generating Unit dependent on whether Recoverable Amount can be Determined**

#### *Background*

IG25. A holding tank at a water purification plant has suffered physical damage but is still working, although not as well as before it was damaged. The holding tank's fair value less costs ~~to sell~~ of disposal is less than its carrying amount. The holding tank does not generate independent cash inflows. The smallest identifiable group of assets that includes the holding tank and generates cash inflows that are largely independent of the cash inflows from other assets is the plant to which the holding tank belongs. The recoverable amount of the plant shows that the plant taken as a whole is not impaired.

#### *Recoverable Amount of Holding Tank Cannot be Determined*

...

- IG27. The recoverable amount of the holding tank alone cannot be estimated because the holding tank's value in use:
- (a) May differ from its fair value less costs ~~to sell~~ of disposal; and
  - (b) Can be determined only for the cash-generating unit to which the holding tank belongs (the water purification plant).

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The plant is not impaired. Therefore, no impairment loss is recognized for the holding tank. Nevertheless, the entity may need to reassess the depreciation period or the depreciation method for the holding tank. Perhaps a shorter depreciation period or a faster depreciation method is required to reflect the expected remaining useful life of the holding tank or the pattern in which economic benefits are expected to be consumed by the entity.

...

*Recoverable Amount of Holding Tank Can be Determined*

...

IG29. The holding tank's value in use can be estimated to be close to its fair value less costs ~~to sell~~ of disposal. Therefore, the recoverable amount of the holding tank can be determined, and no consideration is given to the cash-generating unit to which the holding tank belongs (i.e., the production line). Because the holding tank's fair value less costs ~~to sell~~ of disposal is below its carrying amount, an impairment loss is recognized for the holding tank.

**Amendments to IPSAS 27, Agriculture**

Paragraphs 19, 20, 26, 29 and 34 are amended. Paragraphs 46A–46F and 56J is added. Paragraphs 14, 21–25, 27, 45 and 46 are deleted. New text is underlined and deleted text is struck through.

...

**Recognition and Measurement**

...

14. ~~The fair value of an asset is based on its present location and condition. As a result, for example, the fair value of cattle at a farm is the price for the cattle in the relevant market less the transport and other costs of getting the cattle either to that market or to the location where it will be distributed at no charge or for a nominal charge. [Deleted]~~

...

19. The ~~determination of~~ fair value measurement of ~~for~~ a biological asset or agricultural produce may be facilitated by grouping biological assets or agricultural produce according to significant attributes; for example, by age or quality. An entity selects the attributes corresponding to the attributes used in the market as a basis for pricing.

20. Entities often enter into contracts to sell their biological assets or agricultural produce at a future date. Contract prices are not necessarily relevant in ~~determining~~ measuring fair value, because fair value reflects the current market conditions in which ~~a willing buyer and seller~~ market participant buyers and sellers would enter into a transaction. As a result, the fair value of a biological asset or agricultural produce is not adjusted because of the existence of a contract. In some cases, a contract for the sale of a biological asset or agricultural produce in an exchange transaction may be an onerous contract, as defined in IPSAS 19, *Provisions, Contingent Liabilities and Contingent Assets*. IPSAS 19 applies to onerous contracts.

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21. ~~If an active market exists for a biological asset or agricultural produce in its present location and condition, the quoted price in that market is the appropriate basis for determining the fair value of that asset. If an entity has access to different active markets, the entity uses the most relevant one. For example, if an entity has access to two active markets, it would use the price existing in the market expected to be used. [Deleted]~~
22. ~~If an active market does not exist, an entity uses one or more of the following, when available, in determining fair value:~~
  - ~~(a) The most recent market transaction price, provided that there has not been a significant change in economic circumstances between the date of that transaction and the reporting date;~~
  - ~~(b) Market prices for similar assets with adjustment to reflect differences; and~~
  - ~~(c) Sector benchmarks such as the value of an orchard expressed per export tray, bushel, or hectare, and the value of cattle expressed per kilogram of meat. [Deleted]~~
23. ~~In some cases, the information sources listed in paragraph 22 may suggest different conclusions as to the fair value of a biological asset or agricultural produce. An entity considers the reasons for those differences, in order to arrive at the most reliable estimate of fair value within a relatively narrow range of reasonable estimates. [Deleted]~~
24. ~~In some circumstances, market-determined prices or values may not be available for a biological asset in its present condition. In these circumstances, an entity uses the present value of expected net cash flows from the asset discounted at a current market-determined rate in determining fair value. [Deleted]~~
25. ~~The objective of a calculation of the present value of expected net cash flows is to determine the fair value of a biological asset in its present location and condition. An entity considers this in determining an appropriate discount rate to be used and in estimating expected net cash flows. In determining the present value of expected net cash flows, an entity includes the net cash flows that market participants would expect the asset to generate in its most relevant market. [Deleted]~~
26. ~~An entity does not include any cash flows for financing the assets, taxation, or re-establishing biological assets after harvest (for example, the cost of replanting trees in a plantation forest after harvest).~~
27. ~~In agreeing an arm's length transaction price, knowledgeable, willing buyers and sellers consider the possibility of variations in cash flows. It follows that fair value reflects the possibility of such variations. Accordingly, an entity incorporates expectations about possible variations in cash flows into either the expected cash flows, or the discount rate, or some combination of the two. In determining a discount rate, an entity uses assumptions consistent with those used in estimating the expected cash flows, to avoid the effect of some assumptions being double-counted or ignored. [Deleted]~~
- ...
29. ~~Biological assets are often physically attached to land (for example, trees in a plantation forest). There may be no separate market for biological assets that are attached to the land but an active market may exist for the combined assets, that is, for the biological assets, raw land, and land~~

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improvements, as a package. An entity may use information regarding the combined assets to ~~determine~~ measure the fair value ~~for~~ of the biological assets. For example, the fair value of raw land and land improvements may be deducted from the fair value of the combined assets to arrive at the fair value of biological assets.

...

**Inability to Measure Fair Value Reliably**

34. There is a presumption that fair value can be measured reliably for a biological asset. However, that presumption can be rebutted only on initial recognition for a biological asset for which quoted ~~market-determined~~ prices ~~or values~~ are not available, and for which ~~alternative estimates of~~ fair value measurements are determined to be clearly unreliable. In such a case, that biological asset shall be measured at its cost less any accumulated depreciation and any accumulated impairment losses. Once the fair value of such a biological asset becomes reliably measurable, an entity shall measure it at its fair value less costs to sell.

...

**Disclosure****General**

...

45. ~~An entity shall disclose the methods and significant assumptions applied in determining the fair value of each group of agricultural produce at the point of harvest and each group of biological assets.~~
46. ~~An entity shall disclose the fair value less costs to sell of agricultural produce harvested during the period, determined at the point of harvest.~~
- 46A. An entity shall disclose information that helps users of its financial statements assess both of the following:
- (a) For agricultural assets that are measured at fair value on a recurring or non-recurring basis in the statement of financial position after initial recognition, the measurement techniques and inputs used to develop those measurements; and
  - (b) For recurring fair value measurements using significant unobservable inputs (Level 3), the effect of the measurements on surplus or deficit or net assets/equity for the period.
- 46B. To meet the objectives in paragraph 46A, an entity shall consider all the following:
- (a) The level of detail necessary to satisfy the disclosure requirements;
  - (b) How much emphasis to place on each of the various requirements;
  - (c) How much aggregation or disaggregation to undertake; and
  - (d) Whether users of financial statements need additional information to evaluate the quantitative information disclosed.

If the disclosures provided in accordance with this IPSAS and other IPSAS are insufficient to meet the objectives in paragraph 46A, an entity shall disclose additional information necessary to meet those objectives.

- 46C. To meet the objectives in paragraph 46A, an entity shall disclose, at a minimum, the following information for each class of agricultural assets (see paragraph 46D for information on determining appropriate classes of agricultural assets) measured at fair value (including measurements based on fair value within the scope of IPSAS ~~FX~~46, *Measurement*) in the statement of financial position after initial recognition:
- (a) For recurring and non-recurring fair value measurements, the fair value measurement at the end of the reporting period, and for non-recurring fair value measurements, the reasons for the measurement. Recurring fair value measurements of agricultural assets are those that this Standard requires or permits in the statement of financial position at the end of each reporting period. Non-recurring fair value measurements of agricultural assets are those that this Standard requires or permits in the statement of financial position in particular circumstances;
  - (b) For recurring and non-recurring fair value measurements, the level of the fair value hierarchy within which the fair value measurements are categorized in their entirety (Level 1, 2 or 3);
  - (c) For recurring and non-recurring fair value measurements estimated using unobservable inputs, a description of the measurement technique(s) and the inputs used in the fair value measurement. If there has been a change in measurement technique (e.g. changing from a market approach to an income approach or the use of an additional measurement technique), the entity shall disclose that change and the reason(s) for making it. For fair value measurements categorized within Level 3 of the fair value hierarchy, or for fair value measurements estimated using unobservable inputs, an entity shall provide quantitative information about the significant unobservable inputs used in the fair value measurement. An entity is not required to create quantitative information to comply with this disclosure requirement if quantitative unobservable inputs are not developed by the entity when measuring fair value (e.g. when an entity uses prices from prior transactions or third-party pricing information without adjustment). However, when providing this disclosure an entity cannot ignore quantitative unobservable inputs that are significant to the fair value measurement and are reasonably available to the entity;
  - (d) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy, a reconciliation from the opening balances to the closing balances, disclosing separately changes during the period attributable to the following:
    - (i) Total gains or losses for the period recognized in surplus or deficit, and the line item(s) in surplus or deficit in which those gains or losses are recognized;
    - (ii) Total gains or losses for the period recognized in net assets/equity, and the line item(s) in net assets/equity in which those gains or losses are recognized; and
    - (iii) Purchases, sales, issues and settlements (each of those types of changes disclosed separately).



- (e) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy, the amount of the total gains or losses for the period in (d)(i) included in surplus or deficit that is attributable to the change in unrealized gains or losses relating to those agricultural assets held at the end of the reporting period, and the line item(s) in surplus or deficit in which those unrealized gains or losses are recognized;
- (f) For recurring and non-recurring fair value measurements categorized within Level 3 of the fair value hierarchy, a description of the valuation processes used by the entity (including, for example, how an entity decides its valuation policies and procedures and analyses changes in fair value measurements from period to period); and
- (g) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy:
  - (i) For all such measurements, a narrative description of the sensitivity of the fair value measurement to changes in unobservable inputs if a change in those inputs to a different amount might result in a significantly higher or lower fair value measurement. If there are interrelationships between those inputs and other unobservable inputs used in the fair value measurement, an entity shall also provide a description of those interrelationships and of how they might magnify or mitigate the effect of changes in the unobservable inputs on the fair value measurement. To comply with that disclosure requirement, the narrative description of the sensitivity to changes in unobservable inputs shall include, at a minimum, the unobservable inputs disclosed when complying with (c).

46D. An entity shall determine appropriate classes of agricultural assets on the basis of the following:

- (a) The nature, characteristics and risks of the agricultural assets; and
- (b) The level of the fair value hierarchy within which the fair value measurement is categorized.

The number of classes may need to be greater for fair value measurements categorized within Level 3 of the fair value hierarchy because those measurements have a greater degree of uncertainty and subjectivity. Determining appropriate classes of agricultural assets for which disclosures about fair value measurements should be provided requires judgement. A class of agricultural assets will often require greater disaggregation than the line items presented in the statement of financial position. However, an entity shall provide information sufficient to permit reconciliation to the line items presented in the statement of financial position. If another IPSAS specifies the class for an agricultural asset, an entity may use that class in providing the disclosures required in this Standard if that class meets the requirements in this paragraph.

46E. For each class of agricultural assets not measured at fair value in the statement of financial position but for which the fair value is disclosed, an entity shall disclose the information required by paragraph 46C(b), (c) and (g). However, an entity is not required to provide the quantitative disclosures about significant unobservable inputs used in fair value measurements categorized within Level 3 of the fair value hierarchy, or for fair value measurements estimated using unobservable inputs, required by paragraph 46C(c). For such agricultural assets, an entity does not need to provide the other disclosures required by this Standard.

46F. An entity shall present the quantitative disclosures required by this Standard in a tabular format unless another format is more appropriate.

...

**Effective Date**

...

56J. Paragraphs 19, 20, 26, 29 and 34 were amended, paragraphs 46A–46E were added, and paragraphs 14, 21–25, 27, 45 and 46 were deleted by IPSAS ~~IX146~~, issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~IX146~~ at the same time.

...

**Basis for Conclusions**

*This Basis for Conclusions accompanies, but is not part of, IPSAS 27.*

...

**Revision of IPSAS 27 as a result of IPSAS ~~IX146~~, Measurement**

BC18. IPSAS ~~IX146~~, issued in [Month] [Year], provides generic guidance on the measurement of fair value, to ensure a consistent approach across all IPSAS. The IPSASB agreed to remove guidance on measurement in IPSAS 27 where such guidance was now provided in IPSAS ~~IX146~~, and to refer preparers to the guidance in that Standard.

**Amendments to IPSAS 28, Financial Instruments: Presentation**

Paragraph AG56 is amended. Paragraph 60I is added. New text is underlined and deleted text is struck through.

...

**Effective Date**

...

60I. Paragraph AG56 was amended by IPSAS ~~IX146~~, issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~IX146~~ at the same time.

...

**Application Guidance**

*This Appendix is an integral part of IPSAS 28.*

...

## Presentation

...

### Treatment in Consolidated Financial Statements

...

#### *Compound Financial Instruments (paragraphs 33–37)*

...

AG56. Compound financial instruments are not common in the public sector because of the capital structure of public sector entities. The following discussion does, however, illustrate how a compound financial instrument would be analyzed into its component parts. A common form of compound financial instrument is a debt instrument with an embedded conversion option, such as a bond convertible into ordinary shares of the issuer, and without any other embedded derivative features. Paragraph 33 requires the issuer of such a financial instrument to present the liability component and net assets/equity component separately in the statement of financial position, as follows:

...

- (b) The equity instrument is an embedded option to convert the liability into net assets/equity of the issuer. ~~The fair value of the option comprises its time value and its intrinsic value, if any.~~ This option has value on initial recognition even when it is out of the money.

...

## Amendments to IPSAS 30, Financial Instruments: Disclosures

Paragraphs 8 and 34 are amended. Paragraphs 30A–30I and 52M are added. Paragraphs 31–33 are deleted. New text is underlined and deleted text is struck through.

...

## Definitions

8. The following terms are used in this Standard with the meanings specified:

...

**Other price risk** is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market prices (other than those arising from interest rate risk or currency risk), whether those changes are caused by factors specific to the individual financial instrument or its issuer, or **by** factors affecting all similar financial instruments traded in the market.

...

## Significance of Financial Instruments for Financial Position and Financial Performance

...

### Other Disclosures

...

### Fair Value

...

30A. An entity shall disclose information that helps users of its financial statements assess both of the following:

- (a) For financial instruments that are measured at fair value on a recurring or non-recurring basis in the statement of financial position after initial recognition, the measurement techniques and inputs used to develop those measurements; and
- (b) For recurring fair value measurements using significant unobservable inputs (Level 3), the effect of the measurements on surplus or deficit or net assets/equity for the period.

30B. To meet the objectives in paragraph 30A, an entity shall consider all the following:

- (a) The level of detail necessary to satisfy the disclosure requirements;
- (b) How much emphasis to place on each of the various requirements;
- (c) How much aggregation or disaggregation to undertake; and
- (d) Whether users of financial statements need additional information to evaluate the quantitative information disclosed.

If the disclosures provided in accordance with this IPSAS and other IPSAS are insufficient to meet the objectives in paragraph 30A, an entity shall disclose additional information necessary to meet those objectives.

30C. To meet the objectives in paragraph 30A, an entity shall disclose, at a minimum, the following information for each class of financial instruments (see paragraph 30D for information on determining appropriate classes of financial instruments) measured at fair value (including measurements based on fair value within the scope of IPSAS ~~46~~, Measurement) in the statement of financial position after initial recognition:

- (a) For recurring and non-recurring fair value measurements, the fair value measurement at the end of the reporting period, and for non-recurring fair value measurements, the reasons for the measurement. Recurring fair value measurements of financial instruments are those that this Standard requires or permits in the statement of financial position at the end of each reporting period. Non-recurring fair value measurements of financial instruments are those that this Standard requires or permits in the statement of financial position in particular circumstances;

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- (b) For recurring and non-recurring fair value measurements, the level of the fair value hierarchy within which the fair value measurements are categorized in their entirety (Level 1, 2 or 3);
- (c) For financial instruments held at the end of the reporting period that are measured at fair value on a recurring basis, the amounts of any transfers between Level 1 and Level 2 of the fair value hierarchy, the reasons for those transfers and the entity's policy for determining when transfers between levels are deemed to have occurred (see paragraph 30E). Transfers into each level shall be disclosed and discussed separately from transfers out of each level;
- (d) For recurring and non-recurring fair value measurements estimated using unobservable inputs, a description of the measurement technique(s) and the inputs used in the fair value measurement. If there has been a change in measurement technique (e.g. changing from a market approach to an income approach or the use of an additional measurement technique), the entity shall disclose that change and the reason(s) for making it. For fair value measurements categorized within Level 3 of the fair value hierarchy, or for fair value measurements estimated using unobservable inputs, an entity shall provide quantitative information about the significant unobservable inputs used in the fair value measurement. An entity is not required to create quantitative information to comply with this disclosure requirement if quantitative unobservable inputs are not developed by the entity when measuring fair value (e.g. when an entity uses prices from prior transactions or third-party pricing information without adjustment). However, when providing this disclosure an entity cannot ignore quantitative unobservable inputs that are significant to the fair value measurement and are reasonably available to the entity;
- (e) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy, a reconciliation from the opening balances to the closing balances, disclosing separately changes during the period attributable to the following:
  - (i) Total gains or losses for the period recognized in surplus or deficit, and the line item(s) in surplus or deficit in which those gains or losses are recognized;
  - (ii) Total gains or losses for the period recognized in net assets/equity, and the line item(s) in net assets/equity in which those gains or losses are recognized;
  - (iii) Purchases, sales, issues and settlements (each of those types of changes disclosed separately); and
  - (iv) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy, the amounts of any transfers into or out of Level 3 of the fair value hierarchy, the reasons for those transfers and the entity's policy for determining when transfers between levels are deemed to have occurred (see paragraph 30E). Transfers into Level 3 shall be disclosed and discussed separately from transfers out of Level 3.
- (f) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy, the amount of the total gains or losses for the period in (e)(i) included in surplus or deficit that is attributable to the change in unrealized gains or losses relating to those financial instruments held at the end of the reporting period, and the line item(s) in surplus or deficit in which those unrealized gains or losses are recognized;

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- (g) For recurring and non-recurring fair value measurements categorized within Level 3 of the fair value hierarchy, a description of the valuation processes used by the entity (including, for example, how an entity decides its valuation policies and procedures and analyses changes in fair value measurements from period to period); and
- (h) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy:
  - (i) For all such measurements, a narrative description of the sensitivity of the fair value measurement to changes in unobservable inputs if a change in those inputs to a different amount might result in a significantly higher or lower fair value measurement. If there are interrelationships between those inputs and other unobservable inputs used in the fair value measurement, an entity shall also provide a description of those interrelationships and of how they might magnify or mitigate the effect of changes in the unobservable inputs on the fair value measurement. To comply with that disclosure requirement, the narrative description of the sensitivity to changes in unobservable inputs shall include, at a minimum, the unobservable inputs disclosed when complying with (d); and
  - (ii) For financial assets and financial liabilities, if changing one or more of the unobservable inputs to reflect reasonably possible alternative assumptions would change fair value significantly, an entity shall state that fact and disclose the effect of those changes. The entity shall disclose how the effect of a change to reflect a reasonably possible alternative assumption was calculated. For that purpose, significance shall be judged with respect to surplus or deficit, and total assets or total liabilities, or, when changes in fair value are recognized in net assets/equity, total equity.

30D. An entity shall determine appropriate classes of financial instruments on the basis of the following:

- (a) The nature, characteristics and risks of the financial instruments; and
- (b) The level of the fair value hierarchy within which the fair value measurement is categorized, or whether the fair value is observable or unobservable.

The number of classes may need to be greater for fair value measurements categorized within Level 3 of the fair value hierarchy because those measurements have a greater degree of uncertainty and subjectivity. Determining appropriate classes of financial instruments for which disclosures about fair value measurements should be provided requires judgement. A class of financial instruments will often require greater disaggregation than the line items presented in the statement of financial position. However, an entity shall provide information sufficient to permit reconciliation to the line items presented in the statement of financial position. If another IPSAS specifies the class for a financial instrument, an entity may use that class in providing the disclosures required in this Standard if that class meets the requirements in this paragraph.

30E. An entity shall disclose and consistently follow its policy for determining when transfers between levels of the fair value hierarchy are deemed to have occurred in accordance with paragraph 30C(c) and (e)(iv). The policy about the timing of recognizing transfers shall be the same for transfers into the levels as for transfers out of the levels. Examples of policies for determining the timing of transfers include the following:

- (a) The date of the event or change in circumstances that caused the transfer;
  - (b) The beginning of the reporting period; and
  - (c) The end of the reporting period.
- 30F. If an entity makes an accounting policy decision to use the exception in paragraph IPSAS 41.AG143O, it shall disclose that fact.
- 30G. For each class of financial instruments not measured at fair value in the statement of financial position but for which the fair value is disclosed, an entity shall disclose the information required by paragraph 30C(b), (d) and (h). However, an entity is not required to provide the quantitative disclosures about significant unobservable inputs used in fair value measurements categorized within Level 3 of the fair value hierarchy, or for fair value measurements estimated using unobservable inputs, required by paragraph 30C(d). For such financial instruments, an entity does not need to provide the other disclosures required by this Standard.
- 30H. For a liability measured at fair value and issued with an inseparable third-party credit enhancement, an issuer shall disclose the existence of that credit enhancement and whether it is reflected in the fair value measurement of the liability.
- 30I. An entity shall present the quantitative disclosures required by this Standard in a tabular format unless another format is more appropriate.
31. ~~An entity shall disclose for each class of financial instruments the methods and, when a valuation technique is used, the assumptions applied in determining fair values of each class of financial assets or financial liabilities. For example, if applicable, an entity discloses information about the assumptions relating to prepayment rates, rates of estimated credit losses, and interest rates or discount rates. If there has been a change in valuation technique, the entity shall disclose that change and the reasons for making it. [Deleted]~~
32. ~~To make the disclosures required by paragraph 33 an entity shall classify fair value measurements using a fair value hierarchy that reflects the significance of the inputs used in making the measurements. The fair value hierarchy shall have the following levels:~~
- ~~(a) Quoted prices (unadjusted) in active markets for identical assets or liabilities (Level 1);~~
  - ~~(b) Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly (i.e., as price) or indirectly (i.e., derived from prices) (Level 2); and~~
  - ~~(c) Inputs for the asset or liability that are not based on observable market data (unobservable inputs) (Level 3).~~

~~The level in the fair value hierarchy within which the fair value measurement is categorized in its entirety shall be determined on the basis of the lowest level input that is significant to the fair value measurement in its entirety. For this purpose, the significance of an input is assessed against the fair value measurement in its entirety. If a fair value measurement uses observable inputs that require significant adjustment based on unobservable inputs, that measurement is a Level 3 measurement. Assessing the significance of a particular input to the fair value measurement in its entirety requires judgment, considering factors specific to the asset or liability. [Deleted]~~

33. ~~For fair value measurements recognized in the statement of financial position an entity shall disclose for each class of financial instruments:~~
- ~~(a) The level in the fair value hierarchy into which the fair value measurements are categorized in their entirety, segregating fair value measurements in accordance with the levels defined in paragraph 32.~~
  - ~~(b) Any significant transfers between Level 1 and Level 2 of the fair value hierarchy and the reasons for those transfers. Transfers into each level shall be disclosed and discussed separately from transfers out of each level. For this purpose, significance shall be judged with respect to surplus or deficit, and total assets or total liabilities.~~
  - ~~(c) For fair value measurements in Level 3, a reconciliation from the beginning balances to the ending balances, disclosing separately changes during the period attributable to the following:
 
    - ~~(i) Total gains or losses for the period recognized in surplus or deficit, and a description of where they are presented in the statement of financial performance;~~
    - ~~(ii) Total gains or losses recognized in net assets/equity;~~
    - ~~(iii) Purchases, sales, issues, and settlements (each type of movement disclosed separately); and~~
    - ~~(iv) Transfers into or out of Level 3 (e.g., transfers attributable to changes in the observability of market data) and the reasons for those transfers. For significant transfers, transfers into Level 3 shall be disclosed and discussed separately from transfers out of Level 3.~~~~
  - ~~(d) The amount of total gains or losses for the period in (c)(i) above included in surplus or deficit that are attributable to gains or losses relating to those assets and liabilities held at the end of the reporting period and a description of where those gains or losses are presented in the statement of financial performance.~~
  - ~~(e) For fair value measurements in Level 3, if changing one or more of the inputs to reasonably possible alternative assumptions would change fair value significantly, the entity shall state that fact and disclose the effect of those changes. The entity shall disclose how the effect of a change to a reasonably possible alternative assumption was calculated. For this purpose, significance shall be judged with respect to surplus or deficit, and total assets or total liabilities, or, when changes in fair value are recognized in net assets/equity, total equity.~~
- ~~An entity shall present the quantitative disclosures required by this paragraph in tabular format unless another format is more appropriate. [Deleted]~~
34. ~~If the market for a financial instrument is not active, an entity establishes its fair value using a valuation technique (see paragraphs AG149-AG154 of IPSAS 41). Nevertheless, the best evidence of fair value at initial recognition is the transaction price (i.e., the fair value of the consideration given or received), unless conditions described in paragraph AG151 of IPSAS 41 are met. It follows that there could be a difference between the fair value at initial recognition and the amount that would be determined at that date using the valuation technique. If such a difference exists, an entity shall disclose, by class of financial instrument: In some cases, an entity does not~~



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recognize a gain or loss on initial recognition of a financial asset or financial liability because the fair value is neither evidenced by a quoted price in an active market for an identical asset or liability (i.e., a Level 1 input) nor based on a measurement technique that uses only data from observable markets (see paragraph AG117 of IPSAS 41). In such cases, the entity shall disclose by class of financial asset or financial liability:

- (a) Its accounting policy for recognizing in surplus or deficit the ~~that~~ difference between the fair value at initial recognition and the transaction price in surplus or deficit to reflect a change in factors (including time) that market participants would consider in setting a price take into account when pricing the asset or liability (see paragraph AG117(b) of IPSAS 41); and
- (b) The aggregate difference yet to be recognized in surplus or deficit at the beginning and end of the period and a reconciliation of changes in the balance of this difference; and
- (c) Why the entity concluded that the transaction price was not the best evidence of fair value, including a description of the evidence that supports the fair value.

...

**Effective Date**

...

52M. Paragraphs 8 and 34 were amended, paragraphs 30A–30I were added, and paragraphs 31–33 were deleted by IPSAS ~~IX~~46, issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~IX~~46 at the same time.

...

**Implementation Guidance**

*This guidance accompanies, but is not part of, IPSAS 30.*

...

**Significance of Financial Instruments for Financial Position and Financial Performance (paragraphs 10–36, AG4 and AG5)**

...

***Fair Value (paragraphs ~~31–34~~)***

...

IG16. The fair value at initial recognition of financial instruments that are not traded in active markets is determined in accordance with paragraph AG151 of IPSAS 41. However, when, after initial recognition, an entity will use a measurement valuation technique that incorporates data not obtained from observable markets, there may be a difference between the transaction price at initial recognition and the amount determined at initial recognition using that measurement valuation technique. In these circumstances, the difference will be recognized in surplus or deficit in

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subsequent periods in accordance with IPSAS 41 and the entity's accounting policy. Such recognition reflects changes in factors (including time) that market participants would consider in setting a price (see paragraph AG151 of IPSAS 41). ~~Paragraph 33 requires disclosures in these circumstances.~~ An entity might disclose the following to comply with paragraph 34:

**Background**

On January 1, 20X1 an entity purchases for CU15 million financial assets that are not traded in an active market. The entity has only one class of such financial assets.

The transaction price of CU15 million is the fair value at initial recognition.

After initial recognition, the entity will apply a measurement ~~valuation~~ technique to establish the financial assets' fair value. This measurement ~~valuation~~ technique includes variables other than data from observable markets.

At initial recognition, the same measurement ~~valuation~~ technique would have resulted in an amount of CU14 million, which differs from fair value by CU1 million.

The entity has existing differences of CU5 million at January 1, 20X1.

**Application of Requirements**

The entity's 20X2 disclosure would include the following:

*Accounting Policies*

The entity uses the following measurement ~~valuation~~ technique to ~~determine~~ measure the fair value of financial instruments that are not traded in an active market: [description of technique not included in this example]. Differences may arise between the fair value at initial recognition (which, in accordance with IPSAS 41, is generally the transaction price) and the amount determined at initial recognition using the measurement ~~valuation~~ technique. Any such differences are [description of the entity's accounting policy]

*In the Notes to the Financial Statements*

As discussed in note X, the entity uses [name of measurement ~~valuation~~ technique] to measure the fair value of the following financial instruments that are not traded in an active market. However, in accordance with IPSAS 41, the fair value of an instrument at inception is generally the transaction price. If the transaction price differs from the amount determined at inception using the measurement ~~valuation~~ technique, that difference is [description of the entity's accounting policy].

...

**Amendments to IPSAS 31, *Intangible Assets***

Paragraphs 45, 48, 71, 74, 75, 76, 81, 83, 99, 121, 123 and 124 are amended. Paragraphs 123A–123F and 132N are added. New text is underlined and deleted text is struck through.

...

## Recognition and Measurement

...

### Exchanges of Assets

...

45. Paragraph 28(b) specifies that a condition for the recognition of an intangible asset is that the cost of the asset can be measured reliably. The fair value of an intangible asset ~~for which comparable market transactions do not exist~~ is reliably measurable if:

- (a) The variability in the range of reasonable fair value ~~estimates~~ measurements is not significant for that asset; or
- (b) The probabilities of the various ~~estimates~~ measurements within the range can be reasonably assessed and used ~~in estimating~~ when measuring fair value.

If an entity is able to ~~determine~~ measure reliably the fair value of either the asset received or the asset given up, then the fair value of the asset given up is used to measure cost unless the fair value of the asset received is more clearly evident.

...

### Internally Generated Goodwill

...

48. Differences between the ~~market fair~~ value of an entity and the carrying amount of its identifiable net assets at any time may capture a range of factors that affect the fair value of the entity. However, such differences do not represent the cost of intangible assets controlled by the entity.

...

## Subsequent Measurement

71. **An entity shall choose either the historical cost model in paragraph 73 or the ~~revaluation~~ current value model in paragraph 74 as its accounting policy. If an intangible asset is accounted for using the ~~revaluation~~ current value model, all the other assets in its class shall also be accounted for using the same model, unless there is no active market for those assets.**

...

### Historical Cost Model

...

### Current Value ~~Revaluation~~ Model

74. **After initial recognition, an intangible asset shall be carried at a revalued amount, being its fair value at the date of the revaluation less any subsequent accumulated amortization and subsequent accumulated impairment losses. For the purpose of revaluations under this**

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**Standard, fair value shall be ~~determined~~ measured by reference to an active market. Revaluations shall be made with such regularity that at the reporting date the carrying amount of the asset does not differ materially from its fair value.**

75. The ~~revaluation~~ current value model does not allow:
- (a) The revaluation of intangible assets that have not previously been recognized as assets; or
  - (b) The initial recognition of intangible assets at amounts other than cost.
76. The ~~revaluation~~ current value model is applied after an asset has been initially recognized at cost. However, if only part of the cost of an intangible asset is recognized as an asset because the asset did not meet the criteria for recognition until part of the way through the process (see paragraph 63), the ~~revaluation~~ current value model may be applied to the whole of that asset. Also, the ~~revaluation~~ current value model may be applied to an intangible asset that was received through a non-exchange transaction (see paragraphs 42–43).
- ...
81. **If the fair value of a revalued intangible asset can no longer be ~~determined~~ measured by reference to an active market, the carrying amount of the asset shall be its revalued amount at the date of the last revaluation by reference to the active market less any subsequent accumulated amortization and any subsequent accumulated impairment losses.**
- ...
83. If the fair value of the asset can be ~~determined~~ measured by reference to an active market at a subsequent measurement date, the ~~revaluation~~ current value model is applied from that date.
- ...

## **Intangible Assets with Finite Useful Lives**

...

### **Residual Value**

99. **The residual value of an intangible asset with a finite useful life shall be assumed to be zero unless:**
- (a) There is a commitment by a third party to acquire the asset at the end of its useful life; or
  - (b) There is an active market (as defined in IPSAS ~~IX~~146) for the asset, and:
    - (i) Residual value can be determined by reference to that market; and
    - (ii) It is probable that such a market will exist at the end of the asset's useful life.
- ...

## **Disclosure**

### **General**

...

121. An entity shall also disclose:

...

~~(a)~~(c) For intangible assets acquired through a non-exchange transaction and initially recognized at fair value (see paragraphs 42–43):

- (i) The fair value initially recognized for these assets;
- (ii) Their carrying amount; and
- (iii) Whether they are measured after recognition under the historical cost model or the current value revaluation model.

~~(b)~~(d)...

...

**Intangible Assets Measured after Recognition using the Current Value Revaluation Model**

123. If intangible assets are accounted for at revalued amounts, an entity shall disclose the following:

(a) By class of intangible assets:

- (i) The effective date of the revaluation;
- (ii) The carrying amount of revalued intangible assets; and
- (iii) The carrying amount that would have been recognized had the revalued class of intangible assets been measured after recognition using the historical cost model in paragraph 73;

(b) ...

~~(c) The methods and significant assumptions applied in estimating the assets' fair values.~~  
[Deleted]

123A. An entity shall disclose information that helps users of its financial statements assess both of the following:

- (a) For intangible assets that are measured at fair value on a recurring or non-recurring basis in the statement of financial position after initial recognition, the measurement techniques and inputs used to develop those measurements; and
- (b) For recurring fair value measurements using significant unobservable inputs (Level 3), the effect of the measurements on surplus or deficit or net assets/equity for the period.

123B. To meet the objectives in paragraph 123A, an entity shall consider all the following:

- (a) The level of detail necessary to satisfy the disclosure requirements;
- (b) How much emphasis to place on each of the various requirements;
- (c) How much aggregation or disaggregation to undertake; and

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- (d) Whether users of financial statements need additional information to evaluate the quantitative information disclosed.

If the disclosures provided in accordance with this IPSAS and other IPSAS are insufficient to meet the objectives in paragraph 123A, an entity shall disclose additional information necessary to meet those objectives.

123C. To meet the objectives in paragraph 123A, an entity shall disclose, at a minimum, the following information for each class of intangible assets (see paragraph 123D for information on determining appropriate classes of intangible assets) measured at fair value (including measurements based on fair value within the scope of IPSAS ~~IX~~46, *Measurement*) in the statement of financial position after initial recognition:

- (a) For recurring and non-recurring fair value measurements, the fair value measurement at the end of the reporting period, and for non-recurring fair value measurements, the reasons for the measurement. Recurring fair value measurements of intangible assets are those that this Standard requires or permits in the statement of financial position at the end of each reporting period. Non-recurring fair value measurements of intangible assets are those that this Standard requires or permits in the statement of financial position in particular circumstances;
- (b) For recurring and non-recurring fair value measurements, the level of the fair value hierarchy within which the fair value measurements are categorized in their entirety (Level 1, 2 or 3);
- (c) For recurring and non-recurring fair value measurements estimated using unobservable inputs, a description of the measurement technique(s) and the inputs used in the fair value measurement. If there has been a change in measurement technique (e.g. changing from a market approach to an income approach or the use of an additional measurement technique), the entity shall disclose that change and the reason(s) for making it. For fair value measurements categorized within Level 3 of the fair value hierarchy, or for fair value measurements estimated using unobservable inputs, an entity shall provide quantitative information about the significant unobservable inputs used in the fair value measurement. An entity is not required to create quantitative information to comply with this disclosure requirement if quantitative unobservable inputs are not developed by the entity when measuring fair value (e.g. when an entity uses prices from prior transactions or third-party pricing information without adjustment). However, when providing this disclosure an entity cannot ignore quantitative unobservable inputs that are significant to the fair value measurement and are reasonably available to the entity;
- (d) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy, a reconciliation from the opening balances to the closing balances, disclosing separately changes during the period attributable to the following:
  - (i) Total gains or losses for the period recognized in surplus or deficit, and the line item(s) in surplus or deficit in which those gains or losses are recognized;
  - (ii) Total gains or losses for the period recognized in net assets/equity, and the line item(s) in net assets/equity in which those gains or losses are recognized; and

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- (iii) Purchases, sales, issues and settlements (each of those types of changes disclosed separately).
- (e) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy, or for recurring fair value measurements estimated using unobservable inputs, the amount of the total gains or losses for the period in (d)(i) included in surplus or deficit that is attributable to the change in unrealized gains or losses relating to those intangible assets held at the end of the reporting period, and the line item(s) in surplus or deficit in which those unrealized gains or losses are recognized;
- (f) For recurring and non-recurring fair value measurements categorized within Level 3 of the fair value hierarchy, a description of the valuation processes used by the entity (including, for example, how an entity decides its valuation policies and procedures and analyses changes in fair value measurements from period to period); and
- (g) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy:
  - (i) For all such measurements, a narrative description of the sensitivity of the fair value measurement to changes in unobservable inputs if a change in those inputs to a different amount might result in a significantly higher or lower fair value measurement. If there are interrelationships between those inputs and other unobservable inputs used in the fair value measurement, an entity shall also provide a description of those interrelationships and of how they might magnify or mitigate the effect of changes in the unobservable inputs on the fair value measurement. To comply with that disclosure requirement, the narrative description of the sensitivity to changes in unobservable inputs shall include, at a minimum, the unobservable inputs disclosed when complying with (c).

123D. An entity shall determine appropriate classes of intangible assets on the basis of the following:

- (a) The nature, characteristics and risks of the intangible assets; and
- (b) The level of the fair value hierarchy within which the fair value measurement is categorized, or whether the fair value is observable or unobservable.

The number of classes may need to be greater for fair value measurements categorized within Level 3 of the fair value hierarchy because those measurements have a greater degree of uncertainty and subjectivity. Determining appropriate classes of intangible assets for which disclosures about fair value measurements should be provided requires judgement. A class of intangible assets will often require greater disaggregation than the line items presented in the statement of financial position. However, an entity shall provide information sufficient to permit reconciliation to the line items presented in the statement of financial position. If another IPSAS specifies the class for an intangible assets, an entity may use that class in providing the disclosures required in this Standard if that class meets the requirements in this paragraph.

123E. For each class of intangible assets not measured at fair value in the statement of financial position but for which the fair value is disclosed, an entity shall disclose the information required by paragraph 123C(b), (c) and (g). However, an entity is not required to provide the quantitative disclosures about significant unobservable inputs used in fair value measurements categorized within Level 3 of the fair value hierarchy, or for fair value measurements estimated using

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unobservable inputs, required by paragraph 123C(c). For such intangible assets, an entity does not need to provide the other disclosures required by this Standard.

123F. An entity shall present the quantitative disclosures required by this Standard in a tabular format unless another format is more appropriate.

124. It may be necessary to aggregate the classes of revalued assets into larger classes for disclosure purposes. However, classes are not aggregated if this would result in the combination of a class of intangible assets that includes amounts measured under both the historical cost and current value ~~revaluation~~ models.

**Effective Date**

...

132N. Paragraphs 45, 48, 71, 74, 75, 76, 81, 83, 99, 121, 123, and 124 were amended, and paragraphs 123A–123F were added by IPSAS ~~46~~, issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~46~~ at the same time.

...

**Basis for Conclusions**

*This Basis for Conclusions accompanies, but is not part of, IPSAS 31.*

...

**Current Value ~~Revaluation~~ Model**

...

BC9. The current value ~~revaluation~~ model proposed in IPSAS 31 is similar to the revaluation model that in IAS 38 which requires revaluations to be accounted for on an asset-by-asset basis. IPSAS 17, *Property, Plant, and Equipment* requires revaluations to be accounted for by class of assets rather than by individual asset. The IPSASB considered this approach for intangible assets, but concluded that it was not necessary because intangible assets differ from property, plant, and equipment in that they are less likely to be homogeneous. One of the major types of intangible assets of public sector entities is internally-developed software, for which detailed information is available on an individual asset basis. Consequently, the IPSASB concluded that it was appropriate to require revalued intangible assets to be accounted for on an asset-by-asset basis.

...

**Revision of IPSAS 31 as a result of *Improvements to IPSAS, 2018***

BC13. Paragraph 109 requires an entity to test an intangible asset for impairment when reassessing its useful life. When this standard was issued, such a test was only required for intangible assets measured under the historical cost model. Following the publication of *Impairment of Revalued Assets* (Amendments to IPSAS 21, *Impairment of Non-Cash-Generating Assets*, and IPSAS 26,



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*Impairment of Cash-Generating Assets*) in July 2016, this test is required for all intangible assets, and paragraph 109 has been amended accordingly.

**Revision of IPSAS 31 as a result of IPSAS ~~IX~~46, *Measurement***

- BC14. IPSAS ~~IX~~46, issued in [Month] [Year], provides generic guidance on the initial and subsequent measurement of assets, to ensure a consistent approach across all IPSAS. The IPSASB agreed to remove guidance on measurement in IPSAS 31 where such guidance was now provided in IPSAS ~~IX~~46, and to refer preparers to the guidance in that Standard.
- BC15. IPSAS ~~IX~~46 introduced a public sector current value measurement basis, current operational value. This measurement basis is primarily applied when assets are held for their operational capacity. When IPSAS ~~IX~~46 was issued, the IPSASB concluded intangible assets have a single use. As such they are always held for their highest and best use and measurement is therefore consistent with fair value measurement. Current operational value was therefore not added as an available measurement basis to IPSAS 31.

**Amendments to IPSAS 33, First-time Adoption of Accrual Basis International Public Sector Accounting Standards (IPSASs)**

Paragraphs 9, 64, 65, 69, 70, 71, 72 and 148 are amended. Paragraphs 41B, 64A, 152A–152F and 154M are added. New text is underlined and deleted text is struck through.

...

**Definitions****9. The following terms are used in this Standard with the meanings specified:**

Date of adoption of IPSASs is the date an entity adopts accrual basis IPSASs for the first time, and is the start of the reporting period in which the first-time adopter adopts accrual basis IPSASs and for which the entity presents its first transitional IPSAS financial statements or its first IPSAS financial statements.

~~Deemed cost is an amount used as a surrogate for acquisition cost or depreciated cost at a given date. [deleted]~~

...

**Exemptions that Affect Fair Presentation and Compliance with Accrual Basis IPSASs during the Period of Transition**

...

**APPENDIX E****Three Year Transitional Relief Period for the Recognition and/or Measurement of Assets and/or Liabilities***Recognition and/or Measurement of Assets and/or Liabilities*

...

- 41B. A first-time adopter shall apply the guidance in IPSAS ~~FX146~~ when measuring assets and/or liabilities ~~at historical cost, current operational value, cost of fulfillment or fair value.~~

...

**Exemptions that Do Not Affect Fair Presentation and Compliance with Accrual Basis IPSASs During the Period of Adoption**

...

**Using Deemed Cost to Measure Assets and/or Liabilities**

...

64. A first-time adopter may elect to measure the following assets and/or liabilities at their fair value when reliable cost information about the assets and liabilities is not available, and use that fair value as the deemed cost for:

- (a) Inventory (see IPSAS 12);
- (b) Investment property, if the first-time adopter elects to use the ~~historical~~ cost model in IPSAS 16;
- (ba) Right-of-use assets (see IPSAS 43);
- (c) ~~Property, plant, and equipment (see IPSAS 17);~~ [deleted]
- (d) Intangible assets, other than internally generated intangible assets (see IPSAS 31) that meets:
  - (i) The recognition criteria in IPSAS 31 (excluding the reliable measurement criterion); and
  - (ii) The criteria in IPSAS 31 for revaluation (including the existence of an active market);
- (e) Financial Instruments (see IPSAS 41); or
- (f) Service concession assets (see IPSAS 32).

- 64A. A first-time adopter may ~~also~~ elect to measure property, plant, and equipment, ~~at the~~ at deemed cost, being ~~their~~ current operational value or fair value, in accordance with IPSAS ~~FX146~~, when ~~the~~ the entity will apply that measurement basis to the asset in future reporting periods reliable cost information about the assets and liabilities is not available. In accordance with IPSAS 45, the primary objective for which an entity holds property, plant, and equipment determines the current value measurement basis. Property, plant, and equipment held for its operational capacity is measured at current operational value. Property, plant, and equipment held for its financial capacity is measured at fair value.

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65. Deemed cost can only be determined where the acquisition cost of the asset and/ or the liability is not available. Deemed cost assumes that the entity had initially recognized the asset and/ or the liability at the given date. Subsequent depreciation or amortization is based on that deemed cost on the premise that the acquisition cost is equal to the deemed cost. For example, a first-time adopter may elect to measure property, plant and equipment at deemed cost at the date of adoption of IPSASs because cost information about the item of property, plant and equipment was not available on that date, and use current operational value, or fair value as its deemed cost at that date. Any subsequent depreciation is based on the ~~fair value determined~~ measured at that date and starts from the date that the deemed cost has been determined.
66. The use of deemed cost is not considered a revaluation or the application of the ~~fair~~ current value model for subsequent measurement in accordance with other IPSASs.
67. A first-time adopter may elect to use the revaluation amount of property, plant and equipment under its previous basis of accounting as deemed cost if the revaluation was, at the date of the revaluation, broadly comparable to:
- (a) Fair value, when the property, plant, and equipment is held for its financial capacity; or
  - (ab) Current operational value, when the property, plant, and equipment is held for its operational capacity; or
  - (b) Cost or depreciated cost, where appropriate, in accordance with IPSASs adjusted to reflect, for example, changes in a general or specific price index.
68. A first-time adopter may have established a deemed cost in accordance with its previous basis of accounting for property, plant and equipment by measuring it at fair value, or current operational value, at one particular date because of a specific event:
- (a) If the measurement date is at or before the date of adoption of IPSASs, a first-time adopter may use such event-driven fair value, or current operational value, measurements as deemed cost for IPSASs at the date of that measurement.
  - (b) If the measurement date is after the date of adoption of IPSASs, but during the period of transition where the first-time adopter takes advantage of the exemption that provides a three year transitional relief period to not recognize and/or measure certain assets, the event-driven fair value, or current operational value, measurements may be used as deemed cost when the event occurs. A first-time adopter shall recognize the resulting adjustments directly in accumulated surplus or deficit when the asset is recognized and/or measured.
69. In ~~determining~~ measuring the fair current value in accordance with paragraph 67, the first-time adopter shall apply the definition of fair value, or current operational value, and guidance in ~~other applicable IPSASs~~ IPSAS 46 in ~~determining~~ to measure the fair value of the asset in question. ~~The fair value shall reflect conditions that existed at the date on which it was determined~~ measured.
70. **If ~~reliable market-based evidence of fair~~ observable inputs of current value is ~~are not~~ available for inventory, ~~or~~ investment property that is of a specialized nature, ~~or~~ property, plant, and equipment, a first-time adopter may consider the following measurement alternatives in determining a deemed cost in accordance with IPSAS 46:**
- (a) ~~For inventory, current replacement cost; and~~**

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~~(b) For investment property of a specialized nature, depreciated replacement cost; and~~

~~(c) For property, plant, and equipment, current operational value.~~

Using Deemed Cost to Measure Assets Acquired Through a Non-Exchange Transaction

71. A first-time adopter may elect to measure an asset acquired through a non-exchange transaction at its fair value, or for property, plant, and equipment at its fair value or current operational value, when reliable cost information about the asset is not available, and use that fair value as its deemed cost. In accordance with IPSAS 45, the primary objective for which an entity holds property, plant, and equipment determines the current value measurement basis. Property, plant, and equipment held for its operational capacity is measured at current operational value. Property, plant, and equipment held for its financial capacity is measured at fair value.

...

**Using Deemed Cost for Investments in Controlled Entities, Joint Ventures and Associates (IPSAS 34)**

72. Where a first-time adopter measures an investment in a controlled entity, joint venture or associate at cost in its separate financial statements, it may, on the date of adoption of IPSASs, elect to measure that investment at one of the following amounts in its separate opening statement of financial position:

- (a) Cost; or
- (b) Deemed cost. The deemed cost of such an investment shall be its fair value ~~(determined in accordance with IPSAS 41)~~ at the first-time adopter's date of adoption of IPSASs in its separate financial statements.

...

**Disclosures**

**Disclosures where Deemed Cost is Used for Inventory, Investment Property, Property, Plant and Equipment, Intangible Assets, Financial Instruments or Service Concession Assets**

148. If a first-time adopter uses fair a current value measurement basis, or the alternative in paragraphs 64, 67 or 70, as deemed cost for inventory, investment property, property, plant and equipment, intangible assets, financial instruments, or service concession assets, its financial statements shall disclose:

- (a) The aggregate of those fair current values ~~or other measurement alternatives~~ that were considered in determining deemed cost;
- (b) The aggregate adjustment to the carrying amounts recognized under the previous basis of accounting; and
- (c) Whether the deemed cost was determined on the date of adoption of IPSASs or during the period of transition.

...

**Current Value Measurement**

152A. **An entity shall disclose information that helps users of its financial statements assess the following:**

- (a) **For assets or liabilities that are measured at current operational value or fair value on a non-recurring basis in the statement of financial position after initial recognition, the measurement techniques and inputs used to develop those measurements.**

152B. To meet the objectives in paragraph 152A, an entity shall consider all the following:

- (a) The level of detail necessary to satisfy the disclosure requirements;
- (b) How much emphasis to place on each of the various requirements;
- (c) How much aggregation or disaggregation to undertake; and
- (d) Whether users of financial statements need additional information to evaluate the quantitative information disclosed.

If the disclosures provided in accordance with this IPSAS and other IPSAS are insufficient to meet the objectives in paragraph 152A, an entity shall disclose additional information necessary to meet those objectives.

152C. To meet the objectives in paragraph 152A, an entity shall disclose, at a minimum, the following information for each class of assets or liabilities measured at current operational value or fair value (including measurements based on current operational value or fair value within the scope of IPSAS ~~X146~~, *Measurement*) in the statement of financial position after initial recognition:

- (a) For non-recurring current operational value or fair value measurements, the current operational value or fair value measurement at the end of the reporting period, and the reasons for the measurement. Non-recurring current operational value or fair value measurements of assets or liabilities are those that this Standard requires or permits in the statement of financial position in particular circumstances.
- (b) For non-recurring current operational value or fair value measurements, whether the current operational value or fair value measurements are estimated using observable or unobservable inputs, and the level of the fair value hierarchy within which the fair value measurements are categorized in their entirety (Level 1, 2 or 3), or of the current operational value estimated using unobservable inputs.
- (c) For non-recurring current operational value or fair value measurements estimated using unobservable inputs, a description of the measurement technique(s) and the inputs used in the current operational value or fair value measurement. If there has been a change in measurement technique (e.g. changing from a market approach to an income approach or the use of an additional measurement technique), the entity shall disclose that change and the reason(s) for making it. For fair value measurements categorized within Level 3 of the fair value hierarchy, or for current operational value or fair value measurements estimated using unobservable inputs, an entity shall provide quantitative information about the significant unobservable inputs used in the current operational value or fair value measurement. An entity is not required to create quantitative information to comply with this disclosure requirement if quantitative unobservable inputs are not developed by the entity when

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measuring current operational value or fair value (e.g. when an entity uses prices from prior transactions or third-party pricing information without adjustment). However, when providing this disclosure an entity cannot ignore quantitative unobservable inputs that are significant to the current operational value or fair value measurement and are reasonably available to the entity.

- (d) For non-recurring fair value measurements categorized within Level 3 of the fair value hierarchy, or for non-recurring current operational value measurements estimated using unobservable inputs, a description of the valuation processes used by the entity (including, for example, how an entity decides its valuation policies and procedures and analyses changes in current operational value or fair value measurements from period to period).

152D. An entity shall determine appropriate classes of assets or liabilities on the basis of the following:

- (a) The nature, characteristics and risks of the assets or liabilities; and  
 (b) The level of the fair value hierarchy within which the fair value measurement is categorized, or whether the current operational value or fair value is observable or unobservable.

The number of classes may need to be greater for fair value measurements categorized within Level 3 of the fair value hierarchy, or for current operational value measurements estimated using unobservable inputs, because those measurements have a greater degree of uncertainty and subjectivity. Determining appropriate classes of assets or liabilities for which disclosures about current operational value or fair value measurements should be provided requires judgement. A class of assets or liabilities will often require greater disaggregation than the line items presented in the statement of financial position. However, an entity shall provide information sufficient to permit reconciliation to the line items presented in the statement of financial position. If another IPSAS specifies the class for an asset or a liability, an entity may use that class in providing the disclosures required in this Standard if that class meets the requirements in this paragraph.

152E. For each class of assets or liabilities not measured at current operational value or fair value in the statement of financial position but for which the current operational value or fair value is disclosed, an entity shall disclose the information required by paragraph 152C(b), (c) and (d). However, an entity is not required to provide the quantitative disclosures about significant unobservable inputs used in fair value measurements categorized within Level 3 of the fair value hierarchy, or for current operational value or fair value measurements estimated using unobservable inputs, required by paragraph 152C(c). For such assets or liabilities, an entity does not need to provide the other disclosures required by this Standard.

152F. An entity shall present the quantitative disclosures required by this Standard in a tabular format unless another format is more appropriate.

...

## **Effective Date**

...

154M. Paragraphs ~~9, 64, 65, 69, 70, 71, 72~~ and 148 were amended and paragraphs 41B, 64A, and 152A–152F were added by IPSAS ~~IX~~146, issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD,

YYYY. Earlier application is encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~FX146~~ at the same time.

...

## Basis for Conclusions

*This Basis for Conclusions accompanies, but is not part of, IPSAS 33.*

...

## Exemptions that Do Not Affect Fair Presentation and Compliance with Accrual Basis IPSAS

### Deemed Cost

Deemed Cost for Assets and/or Liabilities

...

BC84A. As part of the development of IPSAS ~~FX146~~, *Measurement*, additional guidance on deemed cost was developed. This guidance was developed to clarify the application of deemed cost in practice. Measurement guidance in IPSAS ~~FX146~~ is generic in nature, and was developed to supplement specific guidance in specific IPSAS. The deemed cost guidance in IPSAS ~~FX146~~ was developed to be consistent with the existing guidance in this Standard. However, where specific deemed cost guidance in this Standard exists, it takes precedent over the generic guidance in IPSAS ~~FX146~~.

...

### Alternative Measurement Bases for Fair Value in Determining Deemed Cost

...

BC93. In determining “fair value”, when IPSAS 33 was developed, the guidance in each applicable IPSAS ~~is~~ was considered, where such guidance ~~is~~ was provided. In IPSAS 17 it ~~is~~ was noted that fair value ~~is~~ was normally determined by reference to market-based evidence, often by appraisal. IPSAS 17 also ~~states~~ stated that if ~~market-based~~ market-based evidence ~~is~~ was not available to measure items of property, plant and equipment, an entity ~~can~~ could estimate fair value using replacement cost, reproduction cost or a service units approach.

BC94. The IPSASB noted that the fair value guidance in IPSAS 16 only ~~considers~~ considered a market-based value, and that limited guidance ~~is~~ was provided in IPSAS 12 in determining fair value. The IPSASB concluded that because a first-time adopter may find it difficult to determine a market-based fair value for all investment properties and all inventories, other measurement alternatives may need to be considered in determining deemed cost for inventory or investment property.

BC94A. The IPSASB has since issued IPSAS ~~FX146~~, which provides a consistent approach to measuring fair value in all IPSAS. The IPSASB noted that the guidance in that Standard includes a fair value hierarchy, which guidance on measurement techniques that may be used where there is no observable market data. The IPSASB considered whether the continued use of measurement alternatives was appropriate, and noted that the alternatives included in IPSAS 33 are consistent

**APPENDIX E**

with measurement techniques available in IPSAS ~~IX146~~, to estimate fair value. The IPSASB agreed to modify the wording of IPSAS 33 accordingly.

BC95. The IPSASB agreed that a first-time adopter may consider the following measurement ~~alternatives~~ techniques in determining a deemed cost if ~~reliable market-based evidence~~ observable inputs of fair value ~~is~~ are not available on the date of adoption of IPSASs, or on the date that the asset is recognized and/or measured where a first-time adopter takes advantage of the exemption that provides a three year transitional relief period to not recognize and/or measure certain assets:

- (a) For inventory, current replacement cost; and
- (b) For investment property of a specialized nature, depreciated replacement cost.

...

### **Revision of IPSAS 33 as a result of IPSAS ~~IX146~~, Measurement**

BC127. IPSAS ~~IX146~~, issued in [Month] [Year], provides generic guidance on the initial and subsequent measurement of assets and liabilities, to ensure a consistent approach across all IPSAS. Paragraph 70 of this Standard permits a first-time adopter to consider replacement cost as a measurement alternative to fair value when observable inputs are not available for inventory or investment property. Since IPSAS ~~IX146~~ does not identify replacement cost as measurement bases, the IPSASB consider whether it should be replaced.

BC128. Since replacement cost is retained in IPSAS 12, *Inventories*, and IPSAS 16, *Investment Property*, the IPSASB agreed to retain replacement cost in the context of this Standard to maintain consistency in principles between the specific requirements in individual IPSAS, and the principles on first-time adoption.

BC129. Furthermore, the IPSASB agreed to add current operational value as a measurement alternative to fair value for property, plant, and equipment. Current operational value was added to align the principles in this Standard with IPSAS ~~IX1 (ED-78)45~~, *Property, Plant, and Equipment* which, as a result of IPSAS ~~IX145~~, permits measuring property, plant, and equipment at current operational value for subsequent measurement.

BC130. IPSAS ~~IX146~~ also provided additional generic guidance on the application of deemed cost. This guidance is consistent with the deemed cost guidance in this Standard (see BC84A).

...

### **Amendments to IPSAS 34, Separate Financial Statements**

Paragraphs 23A–23I and 32E are added. New text is underlined and deleted text is struck through.

...

### **Disclosure**

...



**Current Value Measurement**

23A. **An entity shall disclose information that helps users of its financial statements assess both of the following:**

- (a) **For investments that are measured at fair value on a recurring or non-recurring basis in the statement of financial position after initial recognition, the measurement techniques and inputs used to develop those measurements; and**
- (b) **For recurring fair value measurements using significant unobservable inputs (Level 3), the effect of the measurements on surplus or deficit or net assets/equity for the period.**

23B. To meet the objectives in paragraph 23A, an entity shall consider all the following:

- (a) The level of detail necessary to satisfy the disclosure requirements;
- (b) How much emphasis to place on each of the various requirements;
- (c) How much aggregation or disaggregation to undertake; and
- (d) Whether users of financial statements need additional information to evaluate the quantitative information disclosed.

If the disclosures provided in accordance with this IPSAS and other IPSAS are insufficient to meet the objectives in paragraph 23A, an entity shall disclose additional information necessary to meet those objectives.

23C. To meet the objectives in paragraph 23A, an entity shall disclose, at a minimum, the following information for each class of investments (see paragraph 23D for information on determining appropriate classes of investments) measured at fair value (including measurements based on fair value within the scope of IPSAS ~~146~~, *Measurement*) in the statement of financial position after initial recognition:

- (a) For recurring and non-recurring fair value measurements, the fair value measurement at the end of the reporting period, and for non-recurring fair value measurements, the reasons for the measurement. Recurring fair value measurements of investments are those that this Standard requires or permits in the statement of financial position at the end of each reporting period. Non-recurring fair value measurements of investments are those that this Standard requires or permits in the statement of financial position in particular circumstances;
- (b) For recurring and non-recurring fair value measurements, the level of the fair value hierarchy within which the fair value measurements are categorized in their entirety (Level 1, 2 or 3);
- (c) For investments held at the end of the reporting period that are measured at fair value on a recurring basis, the amounts of any transfers between Level 1 and Level 2 of the fair value hierarchy, the reasons for those transfers and the entity's policy for determining when transfers between levels are deemed to have occurred (see paragraph 23E). Transfers into each level shall be disclosed and discussed separately from transfers out of each level;
- (d) For recurring and non-recurring fair value measurements estimated using unobservable inputs, a description of the measurement technique(s) and the inputs used in the fair value measurement. If there has been a change in measurement technique (e.g. changing from a

**APPENDIX E**

market approach to an income approach or the use of an additional measurement technique), the entity shall disclose that change and the reason(s) for making it. For fair value measurements categorized within Level 3 of the fair value hierarchy, an entity shall provide quantitative information about the significant unobservable inputs used in the fair value measurement. An entity is not required to create quantitative information to comply with this disclosure requirement if quantitative unobservable inputs are not developed by the entity when measuring fair value (e.g. when an entity uses prices from prior transactions or third-party pricing information without adjustment). However, when providing this disclosure an entity cannot ignore quantitative unobservable inputs that are significant to the fair value measurement and are reasonably available to the entity;

- (e) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy, a reconciliation from the opening balances to the closing balances, disclosing separately changes during the period attributable to the following:
  - (i) Total gains or losses for the period recognized in surplus or deficit, and the line item(s) in surplus or deficit in which those gains or losses are recognized;
  - (ii) Total gains or losses for the period recognized in net assets/equity, and the line item(s) in net assets/equity in which those gains or losses are recognized;
  - (iii) Purchases, sales, issues and settlements (each of those types of changes disclosed separately); and
  - (iv) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy, the amounts of any transfers into or out of Level 3 of the fair value hierarchy, the reasons for those transfers and the entity's policy for determining when transfers between levels are deemed to have occurred (see paragraph 23E). Transfers into Level 3 shall be disclosed and discussed separately from transfers out of Level 3.
- (f) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy, the amount of the total gains or losses for the period in (e)(i) included in surplus or deficit that is attributable to the change in unrealized gains or losses relating to those investments held at the end of the reporting period, and the line item(s) in surplus or deficit in which those unrealized gains or losses are recognized;
- (g) For recurring and non-recurring fair value measurements categorized within Level 3 of the fair value hierarchy, a description of the valuation processes used by the entity (including, for example, how an entity decides its valuation policies and procedures and analyses changes in fair value measurements from period to period); and
- (h) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy:
  - (i) For all such measurements, a narrative description of the sensitivity of the fair value measurement to changes in unobservable inputs if a change in those inputs to a different amount might result in a significantly higher or lower fair value measurement. If there are interrelationships between those inputs and other unobservable inputs used in the fair value measurement, an entity shall also provide a description of those interrelationships and of how they might magnify or mitigate the effect of changes in the unobservable inputs on the fair value measurement. To comply with that disclosure

requirement, the narrative description of the sensitivity to changes in unobservable inputs shall include, at a minimum, the unobservable inputs disclosed when complying with (d); and

- (ii) For financial assets and financial liabilities, if changing one or more of the unobservable inputs to reflect reasonably possible alternative assumptions would change fair value significantly, an entity shall state that fact and disclose the effect of those changes. The entity shall disclose how the effect of a change to reflect a reasonably possible alternative assumption was calculated. For that purpose, significance shall be judged with respect to surplus or deficit, and total assets or total liabilities, or, when changes in fair value are recognized in net assets/equity, total equity.

23D. An entity shall determine appropriate classes of investments on the basis of the following:

- (a) The nature, characteristics and risks of the investments; and
- (b) The level of the fair value hierarchy within which the fair value measurement is categorized, or whether the fair value is observable or unobservable.

The number of classes may need to be greater for fair value measurements categorized within Level 3 of the fair value hierarchy, or for fair value measurements estimated using unobservable inputs, because those measurements have a greater degree of uncertainty and subjectivity. Determining appropriate classes of investments for which disclosures about fair value measurements should be provided requires judgement. A class of investments will often require greater disaggregation than the line items presented in the statement of financial position. However, an entity shall provide information sufficient to permit reconciliation to the line items presented in the statement of financial position. If another IPSAS specifies the class for an investments, an entity may use that class in providing the disclosures required in this Standard if that class meets the requirements in this paragraph.

23E. An entity shall disclose and consistently follow its policy for determining when transfers between levels of the fair value hierarchy are deemed to have occurred in accordance with paragraph 23C(c) and (e)(iv). The policy about the timing of recognizing transfers shall be the same for transfers into the levels as for transfers out of the levels. Examples of policies for determining the timing of transfers include the following:

- (a) The date of the event or change in circumstances that caused the transfer;
- (b) The beginning of the reporting period; and
- (c) The end of the reporting period.

23F. If an entity makes an accounting policy decision to use the exception in paragraph IPSAS 41.AG143, it shall disclose that fact.

23G. For each class of investments not measured at fair value in the statement of financial position but for which the fair value is disclosed, an entity shall disclose the information required by paragraph 23C(b), (d) and (h). However, an entity is not required to provide the quantitative disclosures about significant unobservable inputs used in fair value measurements categorized within Level 3 of the fair value hierarchy, or for fair value measurements estimated using

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unobservable inputs, required by paragraph 23C(d). For such investments, an entity does not need to provide the other disclosures required by this Standard.

- 23H. An entity shall present the quantitative disclosures required by this Standard in a tabular format unless another format is more appropriate.

...

**Effective Date**

...

- 32E. Paragraphs 23A–23H were added by IPSAS ~~IX146~~, *Measurement*, issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~IX146~~ at the same time.

...

**Amendments to IPSAS 38, Disclosure of Interests in Other Entities**

Paragraphs 57A–57F and 61E are added. New text is underlined and deleted text is struck through.

...

**Disclosure**

...

**Current Value Measurement**

- 57A. An entity shall disclose information that helps users of its financial statements assess both of the following:
- (a) For interests in other entities that are measured at fair value on a recurring or non-recurring basis in the statement of financial position after initial recognition, the measurement techniques and inputs used to develop those measurements; and
  - (b) For recurring fair value measurements using significant unobservable inputs (Level 3), the effect of the measurements on surplus or deficit or net assets/equity for the period.
- 57B. To meet the objectives in paragraph 57A, an entity shall consider all the following:
- (a) The level of detail necessary to satisfy the disclosure requirements;
  - (b) How much emphasis to place on each of the various requirements;
  - (c) How much aggregation or disaggregation to undertake; and
  - (d) Whether users of financial statements need additional information to evaluate the quantitative information disclosed.

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If the disclosures provided in accordance with this IPSAS and other IPSAS are insufficient to meet the objectives in paragraph 57A, an entity shall disclose additional information necessary to meet those objectives.

- 57C. To meet the objectives in paragraph 57A, an entity shall disclose, at a minimum, the following information for each class of interests in other entities (see paragraph 57D for information on determining appropriate classes of interests in other entities) measured at fair value (including measurements based on fair value within the scope of IPSAS ~~IX~~46, *Measurement*) in the statement of financial position after initial recognition:
- (a) For recurring and non-recurring fair value measurements, the fair value measurement at the end of the reporting period, and for non-recurring fair value measurements, the reasons for the measurement. Recurring fair value measurements of interests in other entities are those that this Standard requires or permits in the statement of financial position at the end of each reporting period. Non-recurring fair value measurements of interests in other entities are those that this Standard requires or permits in the statement of financial position in particular circumstances;
  - (b) For recurring and non-recurring fair value measurements, the level of the fair value hierarchy within which the fair value measurements are categorized in their entirety (Level 1, 2 or 3);
  - (c) For recurring and non-recurring fair value measurements estimated using unobservable inputs, a description of the measurement technique(s) and the inputs used in the fair value measurement. If there has been a change in measurement technique (e.g. changing from a market approach to an income approach or the use of an additional measurement technique), the entity shall disclose that change and the reason(s) for making it. For fair value measurements categorized within Level 3 of the fair value hierarchy, or for fair value measurements estimated using unobservable inputs, an entity shall provide quantitative information about the significant unobservable inputs used in the fair value measurement. An entity is not required to create quantitative information to comply with this disclosure requirement if quantitative unobservable inputs are not developed by the entity when measuring fair value (e.g. when an entity uses prices from prior transactions or third-party pricing information without adjustment). However, when providing this disclosure an entity cannot ignore quantitative unobservable inputs that are significant to the fair value measurement and are reasonably available to the entity;
  - (d) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy a reconciliation from the opening balances to the closing balances, disclosing separately changes during the period attributable to the following:
    - (i) Total gains or losses for the period recognized in surplus or deficit, and the line item(s) in surplus or deficit in which those gains or losses are recognized;
    - (ii) Total gains or losses for the period recognized in net assets/equity, and the line item(s) in net assets/equity in which those gains or losses are recognized; and
    - (iii) Purchases, sales, issues and settlements (each of those types of changes disclosed separately).

- (e) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy, the amount of the total gains or losses for the period in (e)(i) included in surplus or deficit that is attributable to the change in unrealized gains or losses relating to those interests in other entities held at the end of the reporting period, and the line item(s) in surplus or deficit in which those unrealized gains or losses are recognized;
- (f) For recurring and non-recurring fair value measurements categorized within Level 3 of the fair value hierarchy, a description of the valuation processes used by the entity (including, for example, how an entity decides its valuation policies and procedures and analyses changes in fair value measurements from period to period); and
- (g) For recurring fair value measurements categorized within Level 3 of the fair value hierarchy:
  - (i) For all such measurements, a narrative description of the sensitivity of the fair value measurement to changes in unobservable inputs if a change in those inputs to a different amount might result in a significantly higher or lower fair value measurement. If there are interrelationships between those inputs and other unobservable inputs used in the fair value measurement, an entity shall also provide a description of those interrelationships and of how they might magnify or mitigate the effect of changes in the unobservable inputs on the fair value measurement. To comply with that disclosure requirement, the narrative description of the sensitivity to changes in unobservable inputs shall include, at a minimum, the unobservable inputs disclosed when complying with (c).

57D. An entity shall determine appropriate classes of interests in other entities on the basis of the following:

- (a) The nature, characteristics and risks of the interests in other entities; and
- (b) The level of the fair value hierarchy within which the fair value measurement is categorized

The number of classes may need to be greater for fair value measurements categorized within Level 3 of the fair value hierarchy, or for fair value measurements estimated using unobservable inputs, because those measurements have a greater degree of uncertainty and subjectivity. Determining appropriate classes of interests in other entities for which disclosures about fair value measurements should be provided requires judgement. A class of interests in other entities will often require greater disaggregation than the line items presented in the statement of financial position. However, an entity shall provide information sufficient to permit reconciliation to the line items presented in the statement of financial position. If another IPSAS specifies the class for an interests in other entities, an entity may use that class in providing the disclosures required in this Standard if that class meets the requirements in this paragraph.

57E. For each class of interests in other entities not measured at fair value in the statement of financial position but for which the fair value is disclosed, an entity shall disclose the information required by paragraph 57C(b), (c) and (g). However, an entity is not required to provide the quantitative disclosures about significant unobservable inputs used in fair value measurements categorized within Level 3 of the fair value hierarchy, or for fair value measurements estimated using unobservable inputs, required by paragraph 57C(c). For such interests in other entities, an entity does not need to provide the other disclosures required by this Standard.

57F. An entity shall present the quantitative disclosures required by this Standard in a tabular format unless another format is more appropriate.

...

## Effective Date

...

61E. Paragraphs 57A–57F were added by IPSAS ~~IX~~46, *Measurement*, issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~IX~~46 at the same time.

...

## Amendments to IPSAS 39, *Employee Benefits*

Paragraphs 8 and 144 are amended and paragraph 176D is added. New text is underlined and deleted text is struck through.

...

## Definitions

8. The following terms are used in this Standard with the meanings specified

....

## Definitions Relating to the Net Defined Benefit Liability (Asset)

...

The deficit or surplus is:

- (a) The present value of the defined benefit obligation less
- (b) The fair value (as defined in IPSAS ~~IX~~46, *Measurement*, of plan assets (if any).

...

Terms defined in other IPSAS are used in this Standard with the same meaning as in those Standards, and are reproduced in the *Glossary of Defined Terms* published separately.

## Short-Term Employee Benefits

...

## Post-Employment Benefits—Defined Benefit Plans

...

## Disclosure

...

*Explanation of Amounts in the Financial Statements*

...

144. An entity shall disaggregate the fair value of the plan assets into classes that distinguish the nature and risks of those assets, subdividing each class of plan asset into those that have a quoted market price in an active market (as defined in IPSAS ~~IX146~~) and those that do not. For example, and considering the level of disclosure discussed in paragraph 138, an entity could distinguish between:

...

**Effective Date**

...

- 176D. Paragraphs 8 and 144 were amended by IPSAS ~~IX146~~, *Measurement*, issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~IX146~~ at the same time.

...

**Amendments to IPSAS 40, Public Sector Combinations**

Paragraph 72 is amended and paragraph 126H is added. New text is underlined and deleted text is struck through.

...

**The Acquisition Method of Accounting**

...

**Recognizing and Measuring the Identifiable Assets Acquired, the Liabilities Assumed and any Non-Controlling Interest in the Acquired Operation**

...

*Measurement Principle*

72. The acquirer shall measure the identifiable assets acquired and the liabilities assumed at their acquisition-date fair values (as defined in IPSAS ~~IX146~~, *Measurement*). Appendix D of IPSAS ~~IX146~~ provides guidance on measuring assets and liabilities at fair value.

...

**Effective Date**

...

- 126H. Paragraph 72 was amended by IPSAS ~~IX146~~, *Measurement*, issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering periods beginning



on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~IX~~46 at the same time.

...

## Illustrative Examples

*These examples accompany, but are not part of, IPSAS 40*

...

### Adjusting the Carrying Amounts of the Identifiable Assets and Liabilities of the Combining Operations to Conform to the Resulting Entity's Accounting Policies in an Amalgamation

*Illustrating the Consequences of Applying Paragraphs 26–27 and 36 of IPSAS 40*

...

- IE167. On 1 October 20X5 RE is formed by an amalgamation of two government departments, COA and COB. COA has previously adopted an accounting policy of measuring property, plant and equipment using the cost model in ~~IPSAS 47~~ IPSAS ~~IX~~45, *Property, Plant and Equipment*. COB has previously adopted an accounting policy of measuring property, plant and equipment using the ~~revaluation~~ current value model in ~~IPSAS 47~~ IPSAS ~~IX~~45.
- IE168. RE adopts an accounting policy of measuring property, plant and equipment using the ~~revaluation~~ current value model. RE seeks an independent valuation for the items of property, plant and equipment previously controlled by COA.

...

### Recognizing and Measuring Components of Net Assets/Equity Arising as a Result of an Amalgamation

*Illustrating the Consequences of Applying Paragraphs 37–39 of IPSAS 40*

...

- IE180. COA has previously adopted an accounting policy of measuring property, plant and equipment using the historical cost model. COB has previously adopted an accounting policy of measuring property, plant and equipment using the ~~revaluation~~ current value model. RE has adopted an accounting policy of measuring property, plant and equipment using the ~~revaluation~~ current value model. RE obtains an independent valuation for the items of property, plant and equipment previously controlled by COA. As a result, it increases its carrying amount for those items of the property, plant and equipment by CU5,750 and makes the corresponding adjustment to components of net assets/equity.

...

**APPENDIX E**

IE185. Suppose that RE is formed by the amalgamation of COA and COB (two municipalities that were not under common control prior to the amalgamation) on 30 November 20X3. Prior to the amalgamation, COA had an accounting policy of using the ~~revaluation~~ current value model for measuring land and buildings, whereas COB's accounting policy was to measure land and buildings using the historical cost model. RE adopts an accounting policy of measuring land and buildings using the ~~revaluation~~ current value model, and seeks an independent valuation for the land and buildings previously controlled by COB. This valuation was not complete by the time RE authorized for issue its financial statements for the year ended 31 December 20X3. In its 20X3 annual financial statements, RE recognized provisional values for the land and buildings of CU150,000 and CU275,000 respectively. At the amalgamation date, the buildings had a remaining useful life of fifteen years. The land had an indefinite life. Four months after the amalgamation date, RE received the independent valuation, which estimated the amalgamation-date value of the land as CU160,000 and the amalgamation-date value of the buildings as CU365,000.

...

**Disclosure Requirements Relating to Amalgamations**

Illustrating the Consequences of Applying the Disclosure Requirements in Paragraphs 53–57 of IPSAS 40.

IE192. ...

Paragraph reference				
		Original Amount (CU)	Adjustment (CU)	Revised Amount (CU)
54(e)(i)	Restatement of financial assets reorded by COA to eliminate transactions with COB	822	(25)	797
54(e)(i)	Restatement of financial liabilities recorded by COB to eliminate transactions with COA	(1,093)	25	(1,068)
54(e)(ii)	Restatement of property plant and equipment recorded by COA to	12,116	17,954	30,070

	measure the items using the <u>revaluation current value</u> model			
--	--	--	--	--

...

## Disclosure Requirements Relating to Acquisitions

*Illustrating the Consequences of Applying the Disclosure Requirements in Paragraphs 119–125 of IPSAS 40.*

IE278. The following example illustrates some of the disclosure requirements relating to acquisitions; it is not based on an actual transaction. The example assumes that AE is a public sector entity with responsibility for healthcare in its region and that TE is a listed entity. The illustration presents the disclosures in a tabular format that refers to the specific disclosure requirements illustrated. An actual footnote might present many of the disclosures illustrated in a simple narrative format.

...

### Paragraph reference

...

124(b) ... owned by TE, in excess of CU7,500 for 20X3, up to a maximum amount of CU2,500 (undiscounted).

The potential undiscounted amount of all future payments that AE could be required to make under the contingent consideration arrangement is between CU0 and CU2,500.

The fair value of the contingent consideration arrangement of CU1,000 was estimated by applying an income approach. The fair value measurement is based on significant inputs that are not observable in the market, which IPSAS ~~46~~, *Measurement*, refers to as Level 3 inputs. Key assumptions include a discount rate range of 20–25 percent and assumed probability-adjusted revenues in XE of CU10,000–20,000.

As of 31 December 20X2, neither the amount recognized for the contingent consideration arrangement, nor the range of outcomes or the assumptions used to develop the estimates had changed.

...

## Amendments to IPSAS 41, *Financial Instruments*

Paragraphs 9, 66, AG31, AG38, AG115 and AG117 are amended. Paragraphs AG143A–AG143AB, and 156G are added. Paragraphs 67, 68 and AG144–AG155 are deleted. New text is underlined and deleted text is struck through.

...

## Definitions

9. ...

Terms defined in other IPSAS are used in this Standard with the same meaning as in those Standards, and are reproduced in the *Glossary of Defined Terms* published separately. The following terms are defined in either IPSAS 28, or IPSAS 30, *Financial Instruments*: *Disclosures*, or IPSAS ~~IX146~~, *Measurement*: credit risk<sup>4</sup>, currency risk, fair value, liquidity risk, market risk, equity instrument, financial asset, financial instrument, financial liability and puttable instrument.

...

## Measurement

...

### Fair Value Measurement Considerations

66. In determining the fair value of a financial asset or a financial liability for the purpose of applying this Standard, IPSAS 28 or IPSAS 30, an entity shall apply IPSAS ~~IX146~~ and paragraphs AG143A–AG143AB AG144–AG155 of Appendix A.
67. ~~The best evidence of fair value is quoted prices in an active market. If the market for a financial instrument is not active, an entity establishes fair value by using a valuation technique. The objective of using a valuation technique is to establish what the transaction price would have been on the measurement date in an arm's length exchange motivated by normal operating considerations. Valuation techniques include using recent arm's length market transactions between knowledgeable, willing parties, if available, reference to the current fair value of another instrument that is substantially the same, discounted cash flow analysis and option pricing models. If there is a valuation technique commonly used by market participants to price the instrument and that technique has been demonstrated to provide reliable estimates of prices obtained in actual market transactions, the entity uses that technique. The chosen valuation technique makes maximum use of market inputs and relies as little as possible on entity-specific inputs. It incorporates all factors that market participants would consider in setting a price and is consistent with accepted economic methodologies for pricing financial instruments. Periodically, an entity calibrates the valuation technique and tests it for validity using prices from any observable current market transactions in the same instrument (i.e., without modification or repackaging) or based on any available observable market data. [Deleted]~~

<sup>4</sup> This term (as defined in IPSAS 30) is used in the requirements for presenting the effects of changes in credit risk on liabilities designated as at fair value through surplus or deficit (see paragraph 108).

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68. ~~The fair value of a financial liability with a demand feature (e.g., a demand deposit) is not less than the amount payable on demand, discounted from the first date that the amount could be required to be paid. [Deleted]~~

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**Effective Date**

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- 156F. Paragraphs 9, 66, AG31, AG38, AG115 and AG117 were amended, paragraphs AG143A–AG143AB were added, and paragraphs 67, 68 and AG144–AG155 were deleted by IPSAS ~~IX146~~, *Measurement* issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~IX146~~ at the same time.

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**Application Guidance**

**This Appendix is an integral part of IPSAS 41.**

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**Subsequent Measurement**

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*Transfers that Qualify for Derecognition*

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- AG31. When measuring the fair values of the part that continues to be recognized and the part that is derecognized for the purposes of applying paragraph 24, an entity applies the fair value measurement requirements ~~in paragraphs 66–68 and AG144–AG155 IPSAS ~~IX146~~ in addition to paragraph 25.~~

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**Examples**

...

AG38. ...

	<i>Estimated <del>fair</del> Fair value</i>	<i>Percentage</i>	<i>Allocated carrying amount</i>
Portion	9,090	90 percent	9,000

transferred			
Portion retained	1,010	10 percent	1,000
<b>Total</b>	<b>10,100</b>		<b>10,000</b>

...

## Initial measurement

### Initial Measurement of Financial Assets and Financial Liabilities (Paragraphs 57–59)

AG115. The fair value of a financial instrument at initial recognition is normally the transaction price (i.e., the fair value of the consideration given or received, see also paragraph AG117 and IPSAS 46). However, if part of the consideration given or received is for something other than the financial instrument, an entity shall measure the fair value of the financial instrument is estimated, using a valuation technique (see paragraphs AG149–AG154). For example, the fair value of a long-term loan or receivable that carries no interest can be measured as the present value of all future cash receipts discounted using the prevailing market rate(s) of interest for a similar instrument (similar as to currency, term, type of interest rate and other factors) with a similar credit rating. Any additional amount lent is an expense or a reduction of revenue unless it qualifies for recognition as some other type of asset.

...

AG117. The best evidence of the fair value of a financial instrument at initial recognition is normally the transaction price (i.e., the fair value of the consideration given or received, see also IFRS 13). If an entity determines that the fair value at initial recognition differs from the transaction price as mentioned in paragraph 58, the entity shall account for that instrument at that date as follows:

- (a) At the measurement required by paragraph 57 if that fair value is evidenced by a quoted price in an active market for an identical asset or liability (i.e., a Level 1 input) or based on a valuation measurement technique that uses only data from observable markets. An entity shall recognize the difference between the fair value at initial recognition and the transaction price as a gain or loss.
- (b) ...

...

### *Fair Value Measurement Considerations*

#### Application to Liabilities and an Entity's Own Equity Instruments

##### General Principles

AG143A. A fair value measurement assumes that a financial or non-financial liability or an entity's own equity instrument (e.g., equity interests issued as consideration in a public sector combination)

is transferred to a market participant at the measurement date. The transfer of a liability or an entity's own equity instrument assumes the following:

- (a) A liability would remain outstanding and the market participant transferee would be required to fulfil the obligation. The liability would not be settled with the counterparty or otherwise extinguished on the measurement date; and
- (b) An entity's own equity instrument would remain outstanding and the market participant transferee would take on the rights and responsibilities associated with the instrument. The instrument would not be cancelled or otherwise extinguished on the measurement date.

AG143B. Even when there is no observable market to provide pricing information about the transfer of a liability or an entity's own equity instrument (e.g., because contractual or other legal restrictions prevent the transfer of such items), there might be an observable market for such items if they are held by other parties as assets (e.g., a government bond or a call option on an entity's shares).

AG143C. In all cases, an entity shall maximize the use of relevant observable inputs and minimize the use of unobservable inputs to meet the objective of a fair value measurement, which is to estimate the price at which an orderly transaction to transfer the liability or equity instrument would take place between market participants at the measurement date under current market conditions.

#### Liabilities and Equity Instruments Held by Other Parties as Assets

AG143D. When a quoted price for the transfer of an identical or a similar liability or entity's own equity instrument is not available and the identical item is held by another party as an asset, an entity shall measure the fair value of the liability or equity instrument from the perspective of a market participant that holds the identical item as an asset at the measurement date.

AG143E. In such cases, an entity shall measure the fair value of the liability or equity instrument as follows:

- (a) Using the quoted price in an *active market* for the identical item held by another party as an asset, if that price is available.
- (b) If that price is not available, using other observable inputs, such as the quoted price in a market that is not active for the identical item held by another party as an asset.
- (c) If the observable prices in (a) and (b) are not available, using another measurement technique, such as
  - (i) An *income approach* (e.g., a present value technique that takes into account the future cash flows that a market participant would expect to receive from holding the liability or equity instrument as an asset; see paragraphs 45 and C35); and
  - (ii) A *market approach* (e.g. using quoted prices for similar liabilities or equity instruments held by other parties as assets; see paragraphs 42, C31 and C32).

AG143F. An entity shall adjust the quoted price of a liability or an entity's own equity instrument held by another party as an asset only if there are factors specific to the asset that are not applicable

to the fair value measurement of the liability or equity instrument. An entity shall ensure that the price of the asset does not reflect the effect of a restriction preventing the sale of that asset. Some factors that may indicate that the quoted price of the asset should be adjusted include the following:

- (a) The quoted price for the asset relates to a similar (but not identical) liability or equity instrument held by another party as an asset. For example, the liability or equity instrument may have a particular characteristic (e.g., the credit quality of the issuer) that is different from that reflected in the fair value of the similar liability or equity instrument held as an asset; and
- (b) The unit of account for the asset is not the same as for the liability or equity instrument. For example, for liabilities, in some cases the price for an asset reflects a combined price for a package comprising both the amounts due from the issuer and a third-party credit enhancement. If the unit of account for the liability is not for the combined package, the objective is to measure the fair value of the issuer's liability, not the fair value of the combined package. Thus, in such cases, the entity would adjust the observed price for the asset to exclude the effect of the third-party credit enhancement.

#### Liabilities and Equity Instruments not Held by Other Parties as Assets

AG143G. When a quoted price for the transfer of an identical or a similar liability or entity's own equity instrument is not available and the identical item is not held by another party as an asset, an entity shall measure the fair value of the liability or equity instrument using a measurement technique from the perspective of a market participant that owes the liability or has issued the claim on equity.

AG143H. For example, when applying a present value technique an entity might take into account either of the following:

- (a) The future cash outflows that a market participant would expect to incur in fulfilling the obligation, including the compensation that a market participant would require for taking on the obligation (see paragraphs AG143X–AG143Z); or
- (b) The amount that a market participant would receive to enter into or issue an identical liability or equity instrument, using the assumptions that market participants would use when pricing the identical item (e.g., having the same credit characteristics) in the principal (or most advantageous) market for issuing a liability or an equity instrument with the same contractual terms.

#### Non-Performance Risk

AG143I. The fair value of a liability reflects the effect of *non-performance risk*. Non-performance risk includes, but may not be limited to, an entity's own credit risk (as defined in IFRS 7 *Financial Instruments: Disclosures*). Non-performance risk is assumed to be the same before and after the transfer of the liability.

AG143J. When measuring the fair value of a liability, an entity shall take into account the effect of its credit risk (credit standing) and any other factors that might influence the likelihood that the obligation will or will not be fulfilled. That effect may differ depending on the liability, for example:



- (a) Whether the liability is an obligation to deliver cash (a financial liability) or an obligation to deliver goods or services (a non-financial liability); and
- (b) The terms of credit enhancements related to the liability, if any.

AG143K. The fair value of a liability reflects the effect of non-performance risk on the basis of its unit of account. The issuer of a liability issued with an inseparable third-party credit enhancement that is accounted for separately from the liability shall not include the effect of the credit enhancement (e.g., a third-party guarantee of debt) in the fair value measurement of the liability. If the credit enhancement is accounted for separately from the liability, the issuer would take into account its own credit standing and not that of the third-party guarantor when measuring the fair value of the liability.

#### Restriction Preventing the Transfer of a Liability or an Entity's Own Equity Instrument

AG143L. When measuring the fair value of a liability or an entity's own equity instrument, an entity shall not include a separate input or an adjustment to other *inputs* relating to the existence of a restriction that prevents the transfer of the item. The effect of a restriction that prevents the transfer of a liability or an entity's own equity instrument is either implicitly or explicitly included in the other inputs to the fair value measurement.

AG143M. For example, at the transaction date, both the creditor and the obligor accepted the transaction price for the liability with full knowledge that the obligation includes a restriction that prevents its transfer. As a result of the restriction being included in the transaction price, a separate input or an adjustment to an existing input is not required at the transaction date to reflect the effect of the restriction on transfer. Similarly, a separate input or an adjustment to an existing input is not required at subsequent measurement dates to reflect the effect of the restriction on transfer.

#### Financial Liability with a Demand Feature

AG143N. The fair value of a financial liability with a demand feature (e.g., a demand deposit) is not less than the amount payable on demand, discounted from the first date that the amount could be required to be paid.

#### Application to Financial Assets and Financial Liabilities with Offsetting Positions in Market Risks or Counterparty Credit Risk

AG143O. An entity that holds a group of financial assets and financial liabilities is exposed to market risks (as defined in IFRS 7) and to the credit risk (as defined in IFRS 7) of each of the counterparties. If the entity manages that group of financial assets and financial liabilities on the basis of its net exposure to either market risks or credit risk, the entity is permitted to apply an exception to this IFRS for measuring fair value. That exception permits an entity to measure the fair value of a group of financial assets and financial liabilities on the basis of the price that would be received to sell a net long position (i.e., an asset) for a particular risk exposure or paid to transfer a net short position (i.e., a liability) for a particular risk exposure in an orderly transaction between market participants at the measurement date under current market conditions. Accordingly, an entity shall measure the fair value of the group of financial assets and financial liabilities consistently with how market participants would price the net risk exposure at the measurement date.

- AG143P. An entity is permitted to use the exception in paragraph AG143O only if the entity does all the following:
- (a) Manages the group of financial assets and financial liabilities on the basis of the entity's net exposure to a particular market risk (or risks) or to the credit risk of a particular counterparty in accordance with the entity's documented risk management or investment strategy;
  - (b) Provides information on that basis about the group of financial assets and financial liabilities to the entity's key management personnel, as defined in IPSAS 20, *Related Party Disclosures*; and
  - (c) Is required or has elected to measure those financial assets and financial liabilities at fair value in the statement of financial position at the end of each reporting period.
- AG143Q. The exception in paragraph AG143O does not pertain to financial statement presentation. In some cases, the basis for the presentation of financial instruments in the statement of financial position differs from the basis for the measurement of financial instruments, for example, if an IPSAS does not require or permit financial instruments to be presented on a net basis. In such cases an entity may need to allocate the portfolio-level adjustments (see paragraphs AG143T–AG143W) to the individual assets or liabilities that make up the group of financial assets and financial liabilities managed on the basis of the entity's net risk exposure. An entity shall perform such allocations on a reasonable and consistent basis using a methodology appropriate in the circumstances.
- AG143R. An entity shall make an accounting policy decision in accordance with IPSAS 3, *Accounting Policies, Changes in Accounting Estimates and Errors* to use the exception in paragraph AG143O. An entity that uses the exception shall apply that accounting policy, including its policy for allocating bid-ask adjustments (see paragraphs AG143T–AG143V) and credit adjustments (see paragraph AG143W), if applicable, consistently from period to period for a particular portfolio.
- AG143S. The exception in paragraph AG143O applies only to financial assets, financial liabilities and other contracts within the scope of IPSAS 41, *Financial Instruments* (or IPSAS 29, *Financial Instruments: Recognition and Measurement*, if IPSAS 41 has not yet been adopted). The references to financial assets and financial liabilities in paragraphs AG143O–AG143R and AG143T–AG143W should be read as applying to all contracts within the scope of, and accounted for in accordance with, IPSAS 41 (or IPSAS 29, if IPSAS 41 has not yet been adopted), regardless of whether they meet the definitions of financial assets or financial liabilities in IPSAS 29, *Financial Instruments: Presentation*.

#### Exposure to Market Risks

- AG143T. When using the exception in paragraph AG143O to measure the fair value of a group of financial assets and financial liabilities managed on the basis of the entity's net exposure to a particular market risk (or risks), the entity shall apply the price within the bid-ask spread that is most representative of fair value in the circumstances to the entity's net exposure to those market risks (see paragraphs AG143AA and AG143BB).

- AG143U. When using the exception in paragraph AG143O, an entity shall ensure that the market risk (or risks) to which the entity is exposed within that group of financial assets and financial liabilities is substantially the same. For example, an entity would not combine the interest rate risk associated with a financial asset with the commodity price risk associated with a financial liability because doing so would not mitigate the entity's exposure to interest rate risk or commodity price risk. When using the exception in paragraph AG143O, any basis risk resulting from the market risk parameters not being identical shall be taken into account in the fair value measurement of the financial assets and financial liabilities within the group.
- AG143V. Similarly, the duration of the entity's exposure to a particular market risk (or risks) arising from the financial assets and financial liabilities shall be substantially the same. For example, an entity that uses a 12-month futures contract against the cash flows associated with 12 months' worth of interest rate risk exposure on a five-year financial instrument within a group made up of only those financial assets and financial liabilities measures the fair value of the exposure to 12-month interest rate risk on a net basis and the remaining interest rate risk exposure (i.e., years 2–5) on a gross basis.

#### Exposure to the Credit Risk of a Particular Counterparty

- AG143W. When using the exception in paragraph AG143O to measure the fair value of a group of financial assets and financial liabilities entered into with a particular counterparty, the entity shall include the effect of the entity's net exposure to the credit risk of that counterparty or the counterparty's net exposure to the credit risk of the entity in the fair value measurement when market participants would take into account any existing arrangements that mitigate credit risk exposure in the event of default (e.g., a master netting agreement with the counterparty or an agreement that requires the exchange of collateral on the basis of each party's net exposure to the credit risk of the other party). The fair value measurement shall reflect market participants' expectations about the likelihood that such an arrangement would be legally enforceable in the event of default.

#### Applying Present Value Techniques to Liabilities and an Entity's Own Equity Instruments not Held by Other Parties as Assets (paragraphs AG143G and AG143H)

- AG143X. When using a present value technique to measure the fair value of a liability that is not held by another party as an asset (e.g., a decommissioning liability), an entity shall, among other things, estimate the future cash outflows that market participants would expect to incur in fulfilling the obligation. Those future cash outflows shall include market participants' expectations about the costs of fulfilling the obligation and the compensation that a market participant would require for taking on the obligation. Such compensation includes the return that a market participant would require for the following:
- (a) Undertaking the activity (i.e., the value of fulfilling the obligation; e.g., by using resources that could be used for other activities); and
  - (b) Assuming the risk associated with the obligation (i.e., a risk premium that reflects the risk that the actual cash outflows might differ from the expected cash outflows; see paragraph AG143Z).
- AG143Y. For example, a non-financial liability does not contain a contractual rate of return and there is no observable market yield for that liability. In some cases, the components of the return that

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market participants would require will be indistinguishable from one another (e.g., when using the price a third party contractor would charge on a fixed fee basis). In other cases an entity needs to estimate those components separately (e.g., when using the price a third party contractor would charge on a cost plus basis because the contractor in that case would not bear the risk of future changes in costs).

AG143Z. An entity can include a risk premium in the fair value measurement of a liability or an entity's own equity instrument that is not held by another party as an asset in one of the following ways:

- (a) By adjusting the cash flows (i.e., as an increase in the amount of cash outflows); or
- (b) By adjusting the rate used to discount the future cash flows to their present values (i.e., as a reduction in the discount rate).

An entity shall ensure that it does not double-count or omit adjustments for risk. For example, if the estimated cash flows are increased to take into account the compensation for assuming the risk associated with the obligation, the discount rate should not be adjusted to reflect that risk.

**Inputs to Measurement Techniques**

AG143AA. If an asset or a liability measured at fair value has a bid price and an ask price (e.g., an input from a dealer market), the price within the bid-ask spread that is most representative of fair value in the circumstances shall be used to measure fair value regardless of where the input is categorized within the fair value hierarchy (i.e., Level 1, 2 or 3; see paragraphs D59–D89 of IPSAS ~~46~~ *Measurement*). The use of bid prices for asset positions and ask prices for liability positions is permitted, but is not required.

AG143AB. IPSAS ~~46~~ *Measurement*, does not preclude the use of mid-market pricing or other pricing conventions that are used by market participants as a practical expedient for fair value measurements within a bid-ask spread.

AG144. Underlying the definition of fair value is a presumption that an entity is a going concern without any intention or need to liquidate, to curtail materially the scale of its operations or to undertake a transaction on adverse terms. Fair value is not, therefore, the amount that an entity would receive or pay in a forced transaction, involuntary liquidation or distress sale. However, fair value reflects the credit quality of the instrument. ~~[Deleted]~~

AG145. This Standard uses the terms “bid price” and “asking price” (sometimes referred to as “current offer price”) in the context of quoted market prices, and the term “the bid-ask spread” to include only transaction costs. Other adjustments to arrive at fair value (e.g., for counterparty credit risk) are not included in the term “bid-ask spread.” ~~[Deleted]~~

**Active Market: Quoted Price**

AG146. A financial instrument is regarded as quoted in an active market if quoted prices are readily and regularly available from an exchange, dealer, broker, industry group, pricing service or regulatory agency, and those prices represent actual and regularly occurring market transactions on an arm's length basis. Fair value is defined in terms of a price agreed by a willing buyer and a willing seller in an arm's length transaction. The objective of determining

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fair value for a financial instrument that is traded in an active market is to arrive at the price at which a transaction would occur at the end of the reporting period in that instrument (i.e., without modifying or repackaging the instrument) in the most advantageous active market to which the entity has immediate access. However, the entity adjusts the price in the more advantageous market to reflect any differences in counterparty credit risk between instruments traded in that market and the one being valued. The existence of published price quotations in an active market is the best evidence of fair value and when they exist they are used to measure the financial asset or financial liability. [Deleted]

- AG147. ~~The appropriate quoted market price for an asset held or liability to be issued is usually the current bid price and, for an asset to be acquired or liability held, the asking price. When an entity has assets and liabilities with offsetting market risks, it may use mid-market prices as a basis for establishing fair values for the offsetting risk positions and apply the bid or asking price to the net open position as appropriate. When current bid and asking prices are unavailable, the price of the most recent transaction provides evidence of the current fair value as long as there has not been a significant change in economic circumstances since the time of the transaction. If conditions have changed since the time of the transaction (e.g., a change in the risk-free interest rate following the most recent price quote for a government bond), the fair value reflects the change in conditions by reference to current prices or rates for similar financial instruments, as appropriate. Similarly, if the entity can demonstrate that the last transaction price is not fair value (e.g., because it reflected the amount that an entity would receive or pay in a forced transaction, involuntary liquidation or distress sale), that price is adjusted. The fair value of a portfolio of financial instruments is the product of the number of units of the instrument and its quoted market price. If a published price quotation in an active market does not exist for a financial instrument in its entirety, but active markets exist for its component parts, fair value is determined on the basis of the relevant market prices for the component parts. [Deleted]~~
- AG148. ~~If a rate (rather than a price) is quoted in an active market, the entity uses that market-quoted rate as an input into a valuation technique to determine fair value. If the market-quoted rate does not include credit risk or other factors that market participants would include in valuing the instrument, the entity adjusts for those factors. [Deleted]~~

#### No Active Market: Valuation Measurement Technique

- AG149. ~~If the market for a financial instrument is not active, an entity establishes fair value by using a valuation technique. Valuation techniques include using recent arm's length market transactions between knowledgeable, willing parties, if available, reference to the current fair value of another instrument that is substantially the same, discounted cash flow analysis and option pricing models. If there is a valuation technique commonly used by market participants to price the instrument and that technique has been demonstrated to provide reliable estimates of prices obtained in actual market transactions, the entity uses that technique. [Deleted]~~
- AG150. ~~The objective of using a valuation technique is to establish what the transaction price would have been on the measurement date in an arm's length exchange motivated by normal operating considerations. Fair value is estimated on the basis of the results of a valuation technique that makes maximum use of market inputs, and relies as little as possible on entity-~~

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specific inputs. A valuation technique would be expected to arrive at a realistic estimate of the fair value if (a) it reasonably reflects how the market could be expected to price the instrument and (b) the inputs to the valuation technique reasonably represent market expectations and measures of the risk-return factors inherent in the financial instrument. [Deleted]

- AG151. ~~Therefore, a valuation technique (a) incorporates all factors that market participants would consider in setting a price and (b) is consistent with accepted economic methodologies for pricing financial instruments. Periodically, an entity calibrates the valuation technique and tests it for validity using prices from any observable current market transactions in the same instrument (i.e., without modification or repackaging) or based on any available observable market data. An entity obtains market data consistently in the same market where the instrument was originated or purchased. [Deleted]~~
- AG152. ~~The initial acquisition or origination of a financial asset or incurrence of a financial liability is a market transaction that provides a foundation for estimating the fair value of the financial instrument. In particular, if the financial instrument is a debt instrument (such as a loan), its fair value can be determined by reference to the market conditions that existed at its acquisition or origination date and current market conditions or interest rates currently charged by the entity or by others for similar debt instruments (i.e., similar remaining maturity, cash flow pattern, currency, credit risk, collateral and interest basis). Alternatively, provided there is no change in the credit risk of the debtor and applicable credit spreads after the origination of the debt instrument, an estimate of the current market interest rate may be derived by using a benchmark interest rate reflecting a better credit quality than the underlying debt instrument, holding the credit spread constant, and adjusting for the change in the benchmark interest rate from the origination date. If conditions have changed since the most recent market transaction, the corresponding change in the fair value of the financial instrument being valued is determined by reference to current prices or rates for similar financial instruments, adjusted as appropriate, for any differences from the instrument being valued. [Deleted]~~
- AG153. ~~The same information may not be available at each measurement date. For example, at the date that an entity makes a loan or acquires a debt instrument that is not actively traded, the entity has a transaction price that is also a market price. However, no new transaction information may be available at the next measurement date and, although the entity can determine the general level of market interest rates, it may not know what level of credit or other risk market participants would consider in pricing the instrument on that date. An entity may not have information from recent transactions to determine the appropriate credit spread over the basic interest rate to use in determining a discount rate for a present value computation. It would be reasonable to assume, in the absence of evidence to the contrary, that no changes have taken place in the spread that existed at the date the loan was made. However, the entity would be expected to make reasonable efforts to determine whether there is evidence that there has been a change in such factors. When evidence of a change exists, the entity would consider the effects of the change in determining the fair value of the financial instrument. [Deleted]~~
- AG154. ~~In applying discounted cash flow analysis, an entity uses one or more discount rates equal to the prevailing rates of return for financial instruments having substantially the same terms and characteristics, including the credit quality of the instrument, the remaining term over which~~

the contractual interest rate is fixed, the remaining term to repayment of the principal and the currency in which payments are to be made. [Deleted]

#### Inputs to ~~Valuation~~ Measurement Techniques

AG155. ~~An appropriate technique for estimating the fair value of a particular financial instrument would incorporate observable market data about the market conditions and other factors that are likely to affect the instrument's fair value. The fair value of a financial instrument will be based on one or more of the following factors (and perhaps others).~~

- ~~(a) The time value of money (i.e., interest at the basic or risk-free rate). Basic interest rates can usually be derived from observable government bond prices and are often quoted in financial publications. These rates typically vary with the expected dates of the projected cash flows along a yield curve of interest rates for different time horizons. For practical reasons, an entity may use a well-accepted and readily observable general market rate, such as a swap rate, as the benchmark rate. (If the rate used is not the risk-free interest rate, the credit risk adjustment appropriate to the particular financial instrument is determined on the basis of its credit risk in relation to the credit risk in this benchmark rate). In some countries, the central government's bonds may carry a significant credit risk and may not provide a stable benchmark basic interest rate for instruments denominated in that currency. Some entities in these countries may have a better credit standing and a lower borrowing rate than the central government. In such a case, basic interest rates may be more appropriately determined by reference to interest rates for the highest rated corporate bonds issued in the currency of that jurisdiction.~~
- ~~(b) Credit risk. The effect on fair value of credit risk (i.e., the premium over the basic interest rate for credit risk) may be derived from observable market prices for traded instruments of different credit quality or from observable interest rates charged by lenders for loans of various credit ratings.~~
- ~~(c) Foreign currency exchange prices. Active currency exchange markets exist for most major currencies, and prices are quoted daily in financial publications.~~
- ~~(d) Commodity prices. There are observable market prices for many commodities.~~
- ~~(e) Equity prices. Prices (and indexes of prices) of traded equity instruments are readily observable in some markets. Present value based techniques may be used to estimate the current market price of equity instruments for which there are no observable prices.~~
- ~~(f) Volatility (i.e., magnitude of future changes in price of the financial instrument or other item). Measures of the volatility of actively traded items can normally be reasonably estimated on the basis of historical market data or by using volatilities implied in current market prices.~~
- ~~(g) Prepayment risk and surrender risk. Expected prepayment patterns for financial assets and expected surrender patterns for financial liabilities can be estimated on the basis of historical data. (The fair value of a financial liability that can be surrendered by the counterparty cannot be less than the present value of the surrender amount — see paragraph 68).~~



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~~(h) Servicing costs for a financial asset or a financial liability. Costs of servicing can be estimated using comparisons with current fees charged by other market participants. If the costs of servicing a financial asset or financial liability are significant and other market participants would face comparable costs, the issuer would consider them in determining the fair value of that financial asset or financial liability. It is likely that the fair value at inception of a contractual right to future fees equals the origination costs paid for them, unless future fees and related costs are out of line with market comparables. [Deleted]~~

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**Basis for Conclusions**

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**Revision of IPSAS 41 as a result of IPSAS ~~IX146~~, *Measurement***

BC164. The IPSASB issued IPSAS ~~IX146~~, *Measurement*, in [Month] [Year]. That Standard provides guidance on measuring assets and liabilities at fair value, which is relevant to the measuring financial instruments. Guidance specific to applying fair value to the measurement of financial instruments was added as application guidance (see paragraphs AG143A–AG143BB).

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**Amendments to IPSAS 42, *Social Benefits***

Paragraphs 12 and AG17 are amended. Paragraph 35B is added. New text is underlined and deleted text is struck through.

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**General Approach**

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**Measurement of a Liability for a Social Benefit Scheme***Initial Measurement of the Liability*

12. **An entity shall measure the liability for a social benefit scheme at the best estimate of the costs (i.e., the social benefit payments) that the entity will incur in fulfilling the present obligations represented by the liability. IPSAS ~~IX146~~, *Measurement*, provides guidance on measuring liabilities at cost of fulfillment.**

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**Effective Date**

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35B. Paragraphs 12 and AG17 were amended by IPSAS ~~IX146~~, *Measurement*, issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering



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periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~IX~~46 at the same time.

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**Application Guidance**

*This Appendix is an integral part of IPSAS 42.*

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**General Approach (see paragraphs 6–21)**

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*Measurement of a Liability for a Social Benefit Scheme*

...

AG17. Because a liability cannot extend beyond the point at which eligibility criteria for the next payment will be next satisfied, liabilities in respect of social benefits will usually be short-term liabilities. Consequently, prior to the financial statements being authorized for issue, an entity may receive information regarding the eligibility of beneficiaries to receive the social benefit. IPSAS 14, *Events After the Reporting Date*, and Appendix ~~B-C~~ of IPSAS ~~IX~~46, *Measurement*, provides guidance on using this information.

...

**Basis for Conclusions**

*This Basis for Conclusions accompanies, but is not part of, IPSAS 42.*

...

**Revision of IPSAS 42 as a result of IPSAS ~~IX~~46, *Measurement***

BC168. The IPSASB issued IPSAS ~~IX~~46, *Measurement*, in [Month] [Year]. That Standard provides guidance on measuring liabilities at the cost of fulfillment, which is relevant to the measuring the liability for social benefits under the general approach. That guidance includes a requirement that a risk adjustment is considered in estimating the cost of fulfillment. Generally, this is not expected to affect the measurement of the liability under the general approach given the short-term nature of most social benefit liabilities.

BC169. While the guidance on measuring liabilities at cost of fulfillment is not expected to change the measurement of liabilities for social benefits under the general approach in the majority of cases, the IPSASB agreed to amend Illustrative Examples 9 and 10 to avoid references to using information about payments made after the reporting date, which might conflict with the guidance in IPSAS ~~IX~~46. The IPSASB noted that the provisions in other IPSAS regarding materiality would allow entities to use information about payments made after the reporting date where the effect of doing so was not materially different from using estimates made at the reporting date.

...

## Illustrative Examples

*These examples accompany, but are not part of, IPSAS 42*

...

### General Approach: Recognition and Measurement

...

#### Example 9

...

- IE37. In this example, it is assumed that there is no difference between the estimates Government I has complete information at the date it pays retirement pensions used in recognizing the liability and the actual amount of pensions paid. Consequently, the difference between the amount paid in January 20X8 (CU3,024,997) and the liability recognized as at December 31, 20X7 (CU2,990,656) represents the pro-rated retirement pensions paid to those who reached retirement age during January 20X8 (CU34,341).
- IE38. On ~~January 31, 20X9~~ December 31, 20X8, Government I ~~pays~~ recognizes a liability for retirement pensions payable to those who satisfied the eligibility criteria at that date. Government I estimates that, on January 31, 20X9, it will pay retirement pensions totaling CU3,053,576. There are three elements to this ~~payment~~ estimate as follows:

	CU
Full pensions paid to those pensioners eligible at December 31, 20X8 and remaining eligible at January 31, 20X9	2,979,600
Pro-rated pensions paid to those pensioners eligible at December 31, 20X8 who died during January 20X9	36,420
Pro-rated pensions paid to those who reached retirement age during January 20X9	37,556
Total	3,053,576

- IE39. ~~As at December 31, 20X8, Government I recognizes a liability for retirement pensions payable to those who satisfied the eligibility criteria at that date. Because its 20X8 financial statements are issued after the January 20X9 retirement pensions have been paid, Government I uses the information available at that time to prepare its financial statements. [Deleted]~~
- IE40. Consequently, Government I recognizes a liability of CU3,016,020. This includes the full pensions that will be paid to those pensioners eligible at December 31, 20X8 and who are estimated to remaining eligible at January 31, 20X9 (CU2,979,600) and the pro-rated pensions that will be paid to those pensioners eligible at December 31 who died are estimated to die during January 20X9 (CU36,420). The liability does not include the pro-rated pensions that will be paid to those who reach are estimated to reached retirement age during January 20X9 because they had not satisfied the eligibility criteria as at December 31, 20X8.

**APPENDIX E**

- IE41. During 20X8, the total amount recognized as an expense is CU36,485,544. The breakdown of this amount is as follows:

	<b>CU</b>
Pro-rated pensions paid to those who reached retirement age during January 20X8 (recognized in January 20X8)	34,341
Pensions paid between February 20X8 and December 20X8 and recognized in the financial year January 1, 20X8 to December 31, 20X8	33,435,183
Full pensions paid to those pensioners eligible at December 31, 20X8 and <u>estimated to remaining</u> eligible at January 31, 20X9 (recognized in December 20X8)	2,979,600
Pro-rated pensions paid to those pensioners eligible at December 31, 20X8 who <u>are estimated to died</u> during January 20X9 (recognized in December 20X8)	36,420
Total	<u>36,485,544</u>

*Example 10*

...

- IE46. In this example, it is assumed that there is no difference between the estimates State Government J used in recognizing the liability and the actual amount of ~~has complete information at the date it pays~~ unemployment benefits paid. Consequently, the difference between the amount paid on July 15, 20X1 (CU129,745) and the liability recognized as at June 30 20X1 (CU125,067) represents the pro-rated unemployment benefit paid to those who became eligible for unemployment benefits between July 1, 20X1 and July 15, 20X1 (CU4,678).
- IE47. On ~~July 15, 20X2~~ June 30, 20X2, State Government J ~~pays~~ recognizes a liability for unemployment benefits payable to those who satisfied the eligibility criteria at that date. State Government J estimates that, on July 15, 20X2, it will pay unemployment benefits totaling CU132,952. There are four elements to this ~~payment~~ estimate as follows:

	<b>CU</b>
Unemployment benefits <u>to be</u> paid to unemployed persons eligible at June 15, 20X2 and <u>estimated to remaining</u> eligible at July 15, 20X2	113,120
Pro-rated unemployment benefits <u>to be</u> paid to those unemployed persons eligible at June 15, 20X2 whose eligibility <del>had</del> <u>was estimated to</u> come to an end by July 15, 20X2	9,975
Pro-rated unemployment benefits <u>to be</u> paid to those unemployed persons who became eligible between June 15, 20X2 and June 30, 20X2	5,045
Pro-rated unemployment benefits <u>to be</u> paid to those unemployed persons who <u>were estimated to become</u> <del>became</del> eligible between July 1, 20X2 and July 15, 20X2	4,812
Total	<u>132,952</u>

**APPENDIX E**

IE48. ~~As at June 30, 20X2, State Government J recognizes a liability for unemployment benefits payable to those who satisfied the eligibility criteria at that date. Because its July 20X1–June 20X2 financial statements are issued after the July 20X2 unemployment benefits have been paid, State Government J uses the information available at that time to prepare its financial statements.~~  
[Deleted]

IE49. Consequently, State Government J recognizes a liability of CU128,140. This includes:

- (a) The unemployment benefits that will be paid to those unemployed persons eligible at June 15, 20X2 and who are estimated to remaining eligible at July 15, 20X2 (CU113,120);
- (b) The pro-rated unemployment benefits that will be paid to those unemployed persons eligible at June 15, 20X2 whose eligibility is estimated to ~~had~~ come to an end by July 15, 20X2 (CU9,975); and
- (c) The pro-rated unemployment benefits that will be paid to those unemployed persons who became eligible between June 15, 20X2 and June 30, 20X2 (CU5,045).

IE50. The liability does not include the pro-rated unemployment benefits that will be paid to those who are estimated to become ~~became~~ eligible between July 1, 20X2 and July 15, 20X2 because they had not satisfied the eligibility criteria as at June 30, 20X2.

IE51. During the financial year July 1, 20X1–June 30, 20X2, the total amount recognized as an expense is CU1,714,949. The breakdown of this amount is as follows:

	<b>CU</b>
Pro-rated unemployment benefits paid in July 20X1 to those who became eligible between July 1, 20X1 and July 15, 20X1 (recognized in July 20X1)	4,678
Unemployment benefits paid in between August 20X1 and June 20X2 and recognized in the financial year July 1, 20X1–June 30, 20X2	1,582,131
Unemployment benefits <u>estimated to be</u> paid in July 20X2 to unemployed persons eligible at June 15, 20X2, both those <u>estimated to remain</u> ing eligible and those whose eligibility <del>had</del> <u>is estimated to</u> come to an end by July 15, 20X2; and those unemployed persons who became eligible between June 15, 20X2 and June 30, 20X2 (recognized in June 20X2)	128,140
	1,714,949

...

### **Amendments to IPSAS 43, Leases**

Paragraphs 35 and 113 are amended. Paragraph 103C is added. New text is underlined and deleted text is struck through.

...

**Lessee**

...

**Measurement**

...

*Other Measurement Models*

35. If a lessee applies the fair value measurement basis in the current value model in IPSAS 16, *Investment Property* to its investment property, the lessee shall also apply that fair value ~~model~~ measurement basis to right-of-use assets that meet the definition of investment property in IPSAS 16.

...

**Transition**

...

*Lessees*

...

*Leases Previously Classified as Operating Leases*

...

113. Notwithstanding the requirements in paragraph 112, for leases previously classified as operating leases applying IPSAS 13, a lessee:
- (a) Is not required to make any adjustments on transition for leases for which the underlying asset is of low value (as described in paragraphs AG4–AG9) that will be accounted for applying paragraph 7. The lessee shall account for those leases applying this Standard from the date of initial application.
  - (b) Is not required to make any adjustments on transition for leases previously accounted for as investment property using the fair value measurement basis in the current value model in IPSAS 16. The lessee shall account for the right-of-use asset and the lease liability arising from those leases applying IPSAS 16 and this Standard from the date of initial application.
  - (c) Shall measure the right-of-use asset at fair value at the date of initial application for leases previously accounted for as operating leases applying IPSAS 13 and that will be accounted for as investment property using the fair value measurement basis in the current value model in IPSAS 16 from the date of initial application. The lessee shall account for the right-of-use asset and the lease liability arising from those leases applying IPSAS 16 and this Standard from the date of initial application.

...

## Effective Date and Transition

### Effective Date

103C. Paragraphs 35 and 113 were amended by IPSAS ~~IX146~~, *Measurement*, issued in Month YYYY. An entity shall apply these amendments for annual financial statements covering periods beginning on or after MM DD, YYYY. Earlier application is encouraged. If an entity applies the amendment for a period beginning before MM DD, YYYY, it shall disclose that fact and apply IPSAS ~~IX146~~ at the same time.

...

### Basis for Conclusions

*This Basis for Conclusions accompanies, but is not part of, IPSAS 42.*

...

### Revision of IPSAS 42 as a result of IPSAS ~~IX146~~, *Measurement*

...

## IPSAS 43, *Leases*

...

### Fair Value

...

BC64. In developing ED 75, the IPSASB had considered whether to retain the fair value definition consistent with IFRS 16 and IPSAS 13 or to include the fair value definition consistent with ~~ED 77~~ IPSAS ~~IX146~~, *Measurement*.

BC65. The IPSASB had noted that including the fair value definition consistent with ~~ED 77~~ IPSAS ~~IX146~~ might significantly change the lease classification and the timing of recognizing gains or losses for sale and leaseback transactions.

...

### Responses to ED 75, *Leases*

...

BC67. While the majority of respondents agreed with the ED 75 proposals, some respondents disagreed with the retention of the fair value definition from IFRS 16, *Leases* and IPSAS 13, *Leases* in ED 75 because:

- (a) Of the possible confusion for users and preparers of having two different fair value definitions in IPSASB's literature;
- (b) Sale and leaseback transactions (where the definition of fair value is used) occur infrequently in the public sector;
- (c) Of the benefits of the consistent use of terminology in IPSASB literature; and

**APPENDIX E**

- (d) Most countries are still in the process of implementing IPSAS and, therefore, the change to the ~~ED-77~~ IPSAS 46 fair value definition would not cause significant change for their accounting system.

...

## Basis for Conclusions

*This Basis for Conclusions accompanies, but is not part of, IPSAS ~~14~~46.*

### Introduction

#### *The Purpose of Measurement in Public Sector Financial Statements*

- BC1. The purpose of measurement in public sector financial statements is to provide information about assets and liabilities and related revenues and expenditures that users need for accountability and decision making. Measurement that fairly reflects the cost of services, operational capacity and financial capacity of a public sector entity supports users' assessments of such matters as:
- (a) Whether the entity provided its services to constituents in an efficient and effective manner;
  - (b) The resources currently available for future expenditures, and to what extent there are restrictions or conditions attached to their use;
  - (c) To what extent the burden on future-year taxpayers of paying for current services has changed; and
  - (d) Whether the entity's ability to provide services has improved or deteriorated compared with the previous year.

#### *Service Delivery Objective and Public Sector Assets and Liabilities*

- BC2. Public sector measurement should take into account both the primary objective of most public entities and the type of assets and liabilities that such entities hold. The primary objective of most public sector entities is to deliver services to the public, rather than to make profits and generate a return on equity to investors. The type of assets and liabilities that a public sector entity holds is likely to reflect this objective. For example, in the public sector the primary reason for holding property, plant, and equipment and other assets is for their service potential rather than their ability to generate cash flows. Because of the types of services provided, a significant proportion of assets used by public sector entities is specialized—for example, roads and military assets. There may be a limited market for specialized assets and, even then, they may need considerable adaptation in order to be used by other operators. These factors have implications for the measurement of such assets.
- BC3. Another common feature of public sector assets is that they are held to achieve policy objectives, such as service delivery, which need to be taken into account when measurement aims to derive a value that reflects existing use.
- BC4. Governments and other public sector entities may hold items that contribute to the historical and cultural character of a nation or region—for example, art treasures, historical buildings, and other artifacts. They may also be responsible for national parks and other areas of natural significance with native flora and fauna. Such items and areas are not generally held for sale, even if markets exist. Rather, governments and public sector entities have a responsibility to preserve and maintain them for current and future generations.
- BC5. Governments and other public sector entities incur liabilities related to their service delivery objectives. Many liabilities arise from non-exchange transactions and include those related to programs that operate to deliver social benefits. Liabilities may also arise from governments' role as a lender of last resort and from any obligations to transfer resources to those affected by



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disasters. In addition, many governments have obligations that arise from monetary activities such as currency in circulation.

*Measurement of Assets and Liabilities for Financial Reporting by Public Sector Entities*

- BC6. Chapter 7 of *The Conceptual Framework for General Purpose Financial Reporting by Public Sector Entities* (the Conceptual Framework) addresses measurement of assets and liabilities in the financial statements. In developing Chapter 7 the IPSASB took into account the special characteristics of the public sector, the needs of users, public sector entities' objectives, different types of assets and liabilities, and the importance of service potential.
- BC7. Where an asset is held primarily for its service potential, rather than its ability to generate future economic benefits, its measurement should provide information on the value of the asset's service potential to the entity. This was an important consideration for the IPSASB, as it developed concepts for public sector measurement and identified appropriate measurement bases for use in the public sector.
- BC8. The objective of measurement and the measurement bases in Chapter 7 of the Conceptual Framework address public sector financial reporting needs. They differ from objectives and measurement bases developed for private sector entities that operate to make a profit and value assets and liabilities in terms of their ability to generate future economic benefits, which focuses on future cash flows.
- BC9. The objective of measurement is to select those measurement bases that most fairly reflect the cost of services, operational capacity and financial capacity of the entity in a manner that is useful in holding the entity to account, and for decision-making purposes.

*Relationship Between IPSAS ~~PX146~~, Measurement and Other IPSAS*

- BC10. During development of this Standard the IPSASB considered including all requirements with respect to measurement of assets and liabilities in one IPSAS, in order to provide a comprehensive "one stop shop". However, the IPSASB decided:
- (a) Other IPSAS should identify which measurement basis should be applied and any specific measurement requirements relating to the assets or liabilities covered by the IPSAS, and address impairment, depreciation, and amortization.
  - (b) IPSAS ~~PX146~~, *Measurement*, should provide the definitions and generic application guidance for the measurement bases identified in the Conceptual Framework. For example, IPSAS ~~45~~~~PX1~~, *Property, Plant, and Equipment*, allows property, plant, and equipment measured at historical cost, current operational value, or fair value. The application guidance for these measurement bases is located in this Standard.

The aim of this Standard is to support consistent application of measurement bases referred to in other IPSAS.

- BC11. The IPSASB decided to develop appendices for the following four measurement bases: historical cost basis, current operational value basis, cost of fulfilment basis, and fair value basis because the greater need for guidance relates to these four measurement bases.

**Objective (paragraph 1)**

- BC12. The Standard's objective explains that it focuses on the definition of appropriate measurement bases and their derivation. It does not establish requirements for which measurement bases

## IPSAS [X], MEASUREMENT

should be used in IPSAS. This Standard refers to the objective of measurement in the Conceptual Framework because this underpins its approach to measurement bases and their selection.

*Structure of Measurement Standard*

- BC13. One objective of the measurement project is to provide detailed guidance on the implementation of commonly used measurement bases, and the circumstances under which these measurement bases will be used.
- BC14. In order to satisfy this objective, the IPSASB agreed core text should define key terms and provide generic principles for measurement bases and techniques while the appendices would expand on principles for measurement bases and outline how measurement techniques are applied when estimating the value of an asset or liability measured by a specific measurement basis.
- BC15. The IPSASB concluded this structure is appropriate because:
- (a) Core text stands alone. Including principle level guidance for measurement bases and measurement techniques in the core text allows it to be read and applied independently of the appendices.
  - (b) Minimal duplication. The most significant challenge to overcome in structuring the material was to reduce the duplication of measurement technique guidance between the core text and the appendices, and within the appendices. This was a challenge because some measurement techniques can be applied to more than one measurement basis. The structure of the Standard allows for key measurement techniques and principles to be included once in the core text, and application of those principles to each measurement basis to be included in the appropriate appendix.

**Scope and Definitions (paragraphs 2–6)**

- BC16. The Standard's scope conveys the definitions of measurement bases and the related appendices apply when another IPSAS requires measurement using one of the defined measurement bases. As part of its scoping decision, the IPSASB considered whether the Standard should include guidance on the measurement of assets held for sale. The IPSASB noted that the issues relating to the measurement of assets held for sale are similar to those relating to the measurement of impaired assets, which is outside the scope of the project. Therefore, the IPSASB decided that the measurement of assets held for sale should also be excluded and issued a separate IPSAS (IPSAS 45, *Non-Current Assets Held for Sale and Discontinued Operations*).

**Initial Measurement (paragraphs 7–16)**

- BC17. The IPSASB discussed the applicability of the subsequent measurement framework to initial and subsequent measurement. Unless otherwise required or permitted by another IPSAS, the IPSASB concluded measurement bases identified in the subsequent measurement framework are applicable to initial measurement at deemed cost when the transaction price does not faithfully present relevant information about the entity in a manner that is useful in holding the entity to account, and for decision-making purposes, at a deemed cost. and concluded that it is applicable to measurement in the financial statements (i.e., subsequent measurement).
- BC18. ~~Unless otherwise required or permitted by another IPSAS, o~~On the transaction date an asset or liability is initially measured at its transaction price or, as noted in paragraph BC17~~when the~~

## IPSAS [X], MEASUREMENT

~~transaction price does not faithfully present relevant information of the entity in a manner that is useful in holding the entity to account, and for decision-making purposes,~~ at a deemed cost. This approach is applied regardless of whether the current value model or historical cost model is applied when measuring assets and liabilities in the financial statements. ~~For this reason, the IPSASB concluded that initial recognition in the financial statements is based on a measurement after the transaction date and thus the hierarchy applies to subsequent measurement.~~

- BC19. A transaction price is applied, where appropriate, because transactions occurring in orderly markets are negotiated between parties at arm's length and are presumed to faithfully present the economics of the transaction. The transaction price is therefore useful for decision-making purposes and to the users of the financial information to hold decision-makers to account. Where transaction price is not appropriate, a deemed cost is calculated using a current value measurement ~~technique basis~~ to approximate the value of the asset or liability on the transaction date.
- BC20. After measurement on the transaction date the entity makes an accounting policy choice, where permitted, to apply a historical cost model or current value model to reflect the measurement objective of the item being measured. ~~The accounting policy choice impacts the measurement when the item is first, and subsequently, recognized in the financial statements.~~

Deemed Cost

BC20A. With the development of current operational value for assets held for operational capacity, the IPSASB decided deemed cost should be clarified to be an amount used as a surrogate for transaction price. This clarification replaces the definition of deemed cost in IPSAS 33, *First-Time Adoption of Accruals Basis International Public Sector Accounting Standards (IPSASs)*, was replaced to reflect the IPSASB's decision and allows for initial measurement of property, plant, and equipment transactions where the transaction price does not faithfully present relevant information to be measured at current operational value, in addition to fair value.

BC20B. The IPSASB agreed concluded the usefulness of information that current operational value provides financial statement users in subsequent measurement for property, plant, and equipment, held for their operational capacity also applies at initial measurement.

BC20C. The IPSASB agreed concluded permitting current operational value to determine deemed cost does not contradict previous conclusions that fair value appropriately reflects the substance of the transaction. While fair value continues to faithfully represent the value to the public sector entity accrues as a result of the transaction when the property, plant, and equipment, is held for its financial capacity, and current operational value more faithfully represents the value of the property, plant, and equipment, to the public sector entity when the transaction occurs for assets held for their operational capacity.

Amendments to Other IPSAS

- BC21. The initial measurement guidance developed in this Standard, is principles-based and broadly applicable across the IPSAS suite of standards. When making amendments to other IPSAS as a result of IPSAS [X]46, the IPSASB agreed the initial measurement requirements in individual IPSAS would not be replaced by the initial measurement principles in IPSAS [X]46. The IPSASB concluded the more specific initial measurement guidance in specific IPSAS continues to be relevant and therefore should be retained.

**Subsequent Measurement (paragraphs 17–53)***Use of the Historical Cost Model or Current Value Model*

- BC22. The IPSASB accepts that the existence of accounting policy options reduces comparability between reporting entities. The IPSASB considered the options for measurement subsequent to initial recognition in existing IPSAS with a view to eliminating or reducing those options.
- BC23. The IPSASB noted that Chapter 7 of the Conceptual Framework sets out the measurement objective (see paragraph BC8).
- BC24. The Conceptual Framework states that it is not possible to identify a single measurement model that best meets the measurement objective and acknowledges both historical cost and current value measurements models.
- BC25. The IPSASB concluded that:
- (a) Where an accounting policy choice exists in an IPSAS to measure using the historical cost model or current value model, it would be inconsistent with the Conceptual Framework to eliminate existing accounting policy options for subsequent measurement; and
  - (b) Such a step would be outside the scope of this Standard, which is to provide requirements and guidance on the definitions and application of measurement bases (i.e., what is meant by each measurement basis and how to derive measurement bases), rather than to specify where they should be used. The latter is a decision for individual standards.
- BC26. The Basis for Conclusions of the Conceptual Framework notes that many respondents to the Exposure Draft on the Conceptual Framework and the Exposure Draft on Measurement advocated the continued widespread use of the historical cost basis, mostly in combination with other measurement bases. Supporters of historical cost referenced the accountability objective of financial reporting, the verifiability of historical cost and its suitability for budget reporting purposes where budgets are prepared on a historical cost basis.
- BC27. Conversely, those who supported current values linked this view to both decision making and accountability, arguing that the cost of service provision should reflect the value of assets used in service provision at the time they are consumed, rather than their transaction price.

*Determining the Measurement Model*

- BC27A. Some respondents to the Measurement Exposure Draft recommended guidance be developed explaining how to determine the appropriate measurement model. The IPSASB agreed clarifications would support the consistent application of the guidance and developed Implementation Guidance to expand on the accounting policy choice.
- BC27B. The IPSASB noted the historical cost model or current value model applied to measure an entity's assets and liabilities may be determined by factors outside of the entity's control. This may occur when the policy choice is made by:
- (a) A more senior level of government for all entities in a sector or jurisdiction; or
  - (b) An applicable regulatory framework in the sector or jurisdiction.

When the reporting entity can make its own accounting policy choice in selecting a measurement model, the entity considers the information it believes best meets the qualitative characteristics.

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BC27C. In selecting the appropriate measurement model, the reporting entity should consider whether it wants its asset or liability to reflect the value of the transaction at the date of initial recognition or the current value of the same transaction on the date of measurement.

## Historical Cost (Appendix A)

### *Measurement Techniques*

BC27D The IPSASB agreed initial measurement of an asset or a liability should be at its transaction price, adjusted for transaction costs, or deemed cost. Historical cost is the consideration given to acquire, construct, or develop an asset, plus transaction costs, or the consideration received to assume an obligation, minus transaction costs, at the time of the asset's acquisition, construction, or development, or when the liability is incurred.

BC27E Since the measurement hierarchy—framework applies only to subsequent measurement, no measurement techniques apply to the historical cost basis. This is because after initial measurement, the gross carrying amount of an asset or liability measured at the historical cost basis remains unaffected by changes in the underlying current market conditions (i.e., no measurement techniques are applied).

### *Financial Instruments Measured at Historical Cost*

#### *Amortized Cost*

BC28. The amortized cost of a financial asset or financial liability reflects estimates of future cash flows discounted at a rate that is not updated after initial recognition. For loans given or received, if interest is receivable or payable regularly, the amortized cost of the loan typically approximates the amount originally paid or received. Therefore, the amortized cost of a financial asset or liability is considered to be a form of the historical cost basis.

## Current Operational Value (Appendix B)

BC29. Most responses to the April 2019 Measurement Consultation Paper agreed with the IPSASB's preliminary view that fair value is relevant and applicable in measuring some assets and liabilities in the public sector. Constituents' concerns with fair value related to the fact that when an item is held for its operational capacity, as is often the case in the public sector, fair value is difficult and inappropriate to apply because the following concepts generally are not applicable:

- (a) Highest and best use; and
- (b) Maximizing the use of market participant data.

BC30. While respondents agreed the fair value definition proposed is applicable in some circumstances, they also noted the definition is unlikely to be appropriate as a current value measurement basis in most cases. Respondents expressed the view that a public sector specific measurement is required.

BC31. The IPSASB agreed with respondents' views and developed a current value measurement basis unique to the public sector. Given fair value is applied to items held for their financial capacity, this basis was developed specifically for assets held for their operational capacity.

BC32. When assets are held for their operational capacity in the public sector, they are held to achieve a policy objective. Holding an asset to meet a policy objective often results in an asset being held in a capacity other than that of one that satisfies its highest and best financial use. For example, an

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entity may have a policy objective to provide medical services to citizens of a city center. While operating a building the entity owns as a hospital may not be in the best financial interests of the entity, it does satisfy the policy objective.

BC33. The IPSASB agreed that, when an asset is held for its operational capacity, the most relevant information to the users of financial information is the current value of the asset in its existing use. This provides users with useful information in the public sector:

- (a) In the statement of financial position, it reflects the amount an entity would pay at the measurement date for the remaining service potential of its existing assets.
- (b) In the statement of financial performance, the consumption of the asset, through depreciation, reflects the amount the entity would incur during the period to provide the service at the prevailing prices when an asset is measured. This differs from the historical cost basis, which reflects consumption of the asset in terms of the prices that prevailed when the asset was acquired.

*Developing a Public Sector Specific Measurement Basis*

BC33A. In responding to comments received to the April 2019 Measurement Consultation paper the IPSASB developed a new measurement basis that addressed the challenges in measuring most public sector assets. Specifically, the measurement basis considered how to present assets held for their operational capacity in the financial statements that provided users of those reports with relevant and useful information.

BC33B. The Measurement Exposure Draft, issued in April 2021, defined current operational value as the value of an asset used to achieve the entity's service delivery objectives at the measurement date. The Exposure Draft clarified the definition by proposing several key principles that were relevant for a public sector measurement basis. These principles included:

- (a) Current asset;
- (b) Current use;
- (c) Current location;
- (d) Service policy objective;
- (e) Entry price;
- (f) Least costly manner;
- (g) Current market conditions;
- (h) Use of observable inputs; and
- (i) Entity-specific valuation.

BC33C. The Exposure Draft included an Alternative View proposed by two members of the IPSASB. The Alternative View disagreed with the proposal in the Exposure Draft as follows:

- (a) The income approach is not appropriate as a measurement technique for current operational value;
- (b) The lack of clarity about the accounting for surplus capacity;
- (c) The proposed definition of current operational value could permit either entry or exit values; and

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- (d) The lack of clarity in the proposed definition of current operational value risks not achieving the qualitative characteristics of financial reporting.

BC33D. In responding to the Exposure Draft, stakeholders were clear a public sector measurement basis was necessary. Respondents strongly supported the inclusion of fair value, aligned with IFRS 13, but echoed responses to the Consultation Paper, that fair value would not provide financial statement users with relevant and useful information for assets held for their service capacity. While there was support for current operational value, respondents indicated further clarification on its application in practice was necessary.

BC33E. In responding to stakeholder comments, the IPSASB updated current operational value by:

- (a) Removing the income approach as a separate measurement technique for current operational value. The IPSASB agreed it is unlikely discounting future cash flows, whether inflows or outflows, would be relevant in determining the amount an entity would pay for the remaining service potential of an asset.
- (b) Clarifying when unused capacity is included in current operational value by developing implementation guidance, including a decision tree and examples.
- (c) Proposed a revised definition of current operational value where it is the amount an entity would pay for the remaining service potential of an asset at the measurement date. This clarified current operational value is an entry price and gave those applying the measurement basis a clearer understanding of the basis.

BC33F. Finally, in developing the current operational value for this Standard, the IPSASB revisited each principle proposed in the Exposure Draft. The IPSASB reaffirmed each principle was necessary to present relevant and useful information regarding assets held for their operational capacity. The IPSASB also clarified each principle to enhance understandability and facilitate application in practice. The following principles are applicable to current operational value:

- (a) Existing asset;
- (b) Existing use;
- (c) Existing location;
- (d) Remaining service potential;
- (e) Entry price;
- (f) Least costly manner;
- (g) Current market conditions;
- (h) Use of observable inputs; and
- (i) Entity-specific valuation.

*Current Operational Value – Amount the Entity Would Pay*

BC33G. When assets are held for their operational capacity in the public sector, they are held to achieve a policy objective. A strong indication of the value of the operational capacity of an asset is the amount the entity would ~~incur to replace~~ pay for the ~~operational capacity~~ remaining service potential of the asset to achieve its policy objective. The IPSASB decided current operational value should reflect this concept by estimating the amount that would be paid for the remaining service potential of an asset (i.e., an entry price) rather than using an exit price (i.e., the amount



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that could be received to sell the asset), which does not necessarily reflect the amount required to replace the remaining service potential of an asset.

~~BC33H. An entry price, i.e., the amount required to replace the asset, will reflect the amount required to replace the operational capacity of the asset. An exit price, i.e., the amount that could be received to sell the asset, does not necessarily reflect the amount required to replace the operational capacity of an asset.~~

*Current Operational Value – Existing Asset*

BC33I. During the development of this Standard, the IPSASB discussed alternative approaches to capture the value of public sector assets. Based on some responses to the Exposure Draft, the IPSASB considered whether measuring the asset based on the value of the service or benefits the asset provides results in useful and relevant information when presenting an asset held for its operational capacity – i.e., to deliver direct services to the public, and/or to provide a wider community benefit.

BC33J. The IPSASB rejected the idea of measuring public sector assets based on the value of services or benefits they provide because:

- (a) It is inconsistent with how all other non-financial assets are measured on the statement of financial position;
- (b) The IPSASB agreed that a public sector measurement basis that values the asset by valuing the services delivered to the public, or the wider community benefits to the public, would result in the asset recognition criteria not being satisfied, as there is no well-established method in practice to derive such a valuation in a relevant and reliable way.

BC33K. The IPSASB agreed that the public sector measurement basis is based on the value of the physical items that comprise the asset. For example, a public sector entity provides a service for passenger vehicles to cross a water way. The service is currently being delivered with a tunnel. A current operational value measurement estimates the amount an entity would pay for the remaining service potential of the asset. In this example, the tunnel. Current operational value does not measure the value of the service and, by extension, alternative assets (such as a bridge or ferry service) that could also provide the same service.

*Current Operational Value – Existing Use*

BC33L. An asset supports an entity in achieving its policy objectives in its existing use. Existing use is the current way an asset or group of assets is used. Measuring the existing use of an asset disregards potential alternative uses and any other characteristics of the asset that could maximize its market value. This approach reflects the economic position of the entity, rather than the position prevailing in a hypothetical market.

BC33M. The IPSASB agreed the concept of existing use is core to current operational value. The IPSASB agreed with responses to its Exposure Draft that fair value does not present relevant measurement information for assets held for their service capacity because fair value requires assets to be measured at their 'highest and best use'. A public-sector-specific measurement basis must measure assets as they are currently being used to meet the entity's policy objectives. This measurement will provide users of the entity's financial information with the value of the asset to the entity as it is currently being used.

BC34. [deleted]



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BC35. [deleted]

BC36. [deleted]

BC37. [deleted]

*Current Operational Value – Existing Location*

BC38. The IPSASB noted that, in carrying out a valuation under the cost approach, valuation professionals would consider the cost of a site suitable for the delivery of the service delivery objectives from a modern equivalent asset. This might be a site of a similar size and in a similar location to the actual site. Where the actual site would no longer be considered appropriate because, for example, the service would be delivered more efficiently or effectively from another location, a hypothetical site in an appropriate location would be used as the basis for the land valuation, subject to discussion and agreement with the entity.

BC39. Despite this, the IPSASB agreed that a valuation based on an alternative site would not achieve the objective of a current operational value measurement because it would not provide a value of the existing asset in its existing use. This is because delivering the service from another location is unlikely to be in the public interest, given that the location where the asset is currently situated was selected for service delivery needs. Relocating the asset to another location is a separate, future policy decision that should not be taken into consideration when measuring the asset. Current operational value valuations should be based on delivering the entity's goods and/or services from the existing location.

BC40. The IPSASB noted that measuring land held for its operational capacity at its existing location, total capacity and actual size may result in a valuation that is similar to a market participant valuation, or fair value.

BC41. [deleted]

BC42. [deleted]

BC43. [deleted]

BC44. [deleted]

BC45. [deleted]

*Current Operational Value – Measurement Techniques*

BC46. To support the application of current operational value, the IPSASB agreed the market approach and the cost approach reflect the attributes of the measurement basis and can be applied in estimating the value of the asset when measured at current operational value. No hierarchy was developed to select the measurement technique. The IPSASB agreed the selection of the measurement technique that approximates the value of the asset under current operational value should be based on judgment. In most cases the IPSASB believes the selection should be straightforward as the measurement technique is generally selected based on the data available to the entity measuring the asset.

BC47. For example, an active market for an identical asset may exist for certain types of assets. In these circumstances applying the market approach is likely to be a straightforward valuation. As the asset becomes more specialized, the existence of an active market likely decreases. In these circumstances the cost approach is relevant.

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BC47A. The IPSASB agreed the income approach is not an appropriate measurement technique when estimating the value of the asset when measured at current operational value. Given public sector assets often generate little to no cash flows, and generally cash flows are insufficient to cover operating expenses, the IPSASB concluded discounting future income streams would be impracticable. Furthermore, given the nature of current operational value, the income approach would not be applied in conjunction with another measurement technique because discounting future cash flows is not necessary given the market approach assumes pricing for the asset is available on the measurement date, and the cost approach assumes the production or development of the asset is immediate.

*Use of Current Operational Value throughout IPSAS*

BC48. A review of existing IPSAS was performed to determine whether the public sector specific measurement basis, current operational value, should be added to, or replace, existing measurement bases in each IPSAS.

BC49. The IPSASB agreed current operational value should be available to estimate the value of property, plant, and equipment within the scope of IPSAS ~~145~~ <sup>145</sup>. The IPSASB added current operational value to historical cost and fair value as measurement bases available to estimate property, plant, and equipment because many items of property, plant, and equipment are held for their operational capacity in the public sector, which may not be accurately represented when applying fair value.

BC50. The IPSASB identified other instances where current operational value may be appropriate throughout its literature. However, the IPSASB agreed any additional changes to measurement bases are best made through projects specific to the IPSAS in question to allow stakeholders to focus on the impact of the proposal. The IPSASB did not propose current operational value be added to any other IPSAS when this Standard was issued.

**Cost of Fulfillment (Appendix C)**

BC50A. In developing Cost of Fulfillment, the IPSASB considered concepts applied by the IASB related to Fulfillment Value. Both measurement bases share many characteristics. However, one key difference between the bases is fulfillment value requires a risk premium be included when measuring a liability. A risk premium, also known as a risk adjustment or risk margin, is the price for bearing the uncertainty inherent in the cash flows.

BC50B. In developing its April 2019 Measurement Consultation Paper, the IPSASB proposed including the requirement to include a risk premium when measuring liabilities using the Cost of Fulfillment measurement basis. Respondents challenged the rationale and questioned the need for a risk premium in the public sector. Respondents:

- (a) Questioned whether the risk premium provides faithfully representative and relevant information to users about the extent of the entity's obligations to be settled in the future;
- (b) Noted it does not reflect the least costly manner to fulfill the liability; and
- (c) Expressed the view that a risk premium reflects a bias in the estimate due to the entity's perception of its indifference to variable and fixed cash flows.

BC50C. The IPSASB agreed concerns raised by stakeholders could apply in some circumstances and agreed that an assessment as to whether to include a risk premium in the valuation of a liability was specific guidance that should be provided on a standard by standard basis.

IPSAS ~~[X]~~, MEASUREMENT**Fair Value (Appendix D)**

BC51. During development of this Standard the IPSASB considered whether the fair value measurement basis was relevant to measuring assets and liabilities held by public sector entities. The IPSASB concluded that:

- (a) There are assets and liabilities held by public sector entities that should be measured at fair value; and,
- (b) The term “fair value” should have the same meaning as that established by IFRS 13, *Fair Value Measurement*.

BC52. In reaching these two conclusions the IPSASB noted that there were references to fair value throughout IPSAS. However, the definition of fair value in the initial suite of IPSAS was derived from a pre-IFRS 13 definition. IFRS 13 defines fair value as an exit value, as follows:

*Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.*

BC53. The IPSASB’s 2014 Conceptual Framework did not include fair value in its list of measurement bases because the IPSASB considered that the IFRS 13 meaning of fair value would not be appropriate for many public sector assets and liabilities, because it is an exit value. However, during the development of this Standard the IPSASB’s work on financial instruments has demonstrated that an exit-based definition of fair value is relevant for many financial instruments and more generally assets held for financial rather than operational capacity.

BC54. The IPSASB decided that if the term “fair value” continues to be used in IPSAS, the same meaning as that in IFRS 13 should apply. This avoids confusion and supports good quality measurement, when using this measurement basis.

BC55. In June 2018 the IPSASB approved IPSAS 41, *Financial Instruments*, which is an IFRS-aligned IPSAS. IPSAS 41 identifies fair value as a measurement basis applicable to financial instruments. The IPSASB had already decided, in September 2017, that the Measurement project should allow for measurement at fair value, with the issue being one of how to integrate the IFRS 13 definition of fair value into IPSAS. The IPSASB decided that IPSAS ~~44~~46, *Measurement*, should include the majority of IFRS 13 text to ensure that its definition of fair value would be consistent with that in IFRS 13, and adequately support IPSAS 41’s requirements with respect to measurement of financial instruments at fair value. On that basis the Standard’s fair value appendix has reproduced the majority of IFRS 13 text and aims to ensure that the Standard’s definition of fair value is the same as that established in IFRS 13.

***Use of Fair Value throughout IPSAS***

BC56. A review of existing IPSAS was performed to determine whether the updated fair value was applicable in IPSAS where the legacy “fair value” definition was applied. The IPSASB considered the components of the IFRS 13 definition of fair value to identify the key indicator or indicators of the appropriateness of fair value. The IPSASB concluded that the exit vs. entry distinction is not useful in selecting measurement bases (see BC7.19–BC7.22 of the IPSASB Conceptual Framework). The IPSASB noted that some jurisdictions considered the specialized vs. non-specialized distinction to be useful in considering whether fair value is an appropriate measurement basis. The IPSASB concluded that while the specialization of an asset is a useful distinction, it is not a clear determinant when assessing the appropriateness of fair value. Rather, the IPSASB agreed that an entity’s intent to hold the asset or liability for either financial or

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operational capacity is the clearest indicator. The IPSASB concluded that fair value is an appropriate measurement basis when the asset is held, or the liability incurred, primarily for its financial capacity.

- BC57. The IPSASB also cautioned against a “blanket approach” of fair value appropriateness by Standard, as there may be instances where the use of fair value appropriateness may differ by reporting entity in a consolidation, or where a cash-generating or non-cash-generating asset may have hybrid measurement objectives. It is important to consider transaction-specific and entity-specific considerations within each IPSAS when selecting measurement bases.
- BC58. In cases where assets held for operational capacity and assets held for financial capacity are within the scope of the same IPSAS, an entity should exercise professional judgment, consider entity- and transaction-specific factors, and apply accounting principles in existing IPSAS. The primary measurement objective, and in turn the measurement basis, is determined for each individual asset or class of assets (i.e., assets with similar nature and use to an entity's operations within the same IPSAS). The IPSASB concluded that accounting principles to guide an entity to group assets of similar nature and determine the intended primary objective are sufficiently illustrated in existing IPSAS guidance.
- BC59. The IPSASB concluded that the need for consequential amendments will be decided on a case-by-case basis in accordance with IPSAS ~~46~~, *Measurement*. In performing this analysis, the IPSASB reviewed each IPSAS and decided to retain the term fair value throughout IPSAS and apply this Standard's definition except for:
- (a) IPSAS 43, *Leases*,<sup>5</sup> where the term and existing fair value definition in IPSAS 43 are retained;
  - (b) IPSAS 21, *Impairment of Non-Cash-Generating Assets*, where the term and existing fair value definition in IPSAS 21 are retained; and
  - (c) IPSAS 32, *Service Concession Arrangements: Grantor*, where the term and existing fair value definition in IPSAS 32 are retained.

In each instance where the term and existing fair value definition are retained, the IPSASB decided changes to these definitions of fair value should be considered as part of any projects specific to these IPSAS.

- BC60. As noted in ~~BC10~~~~Error! Reference source not found.~~, guidance in IPSAS ~~46~~, is generic in nature. As such, specific measurement guidance in IFRS 13 has been located in the applicable IPSAS. For example, IFRS 13 paragraphs 34–56 and 70–71 are specific to measuring financial instruments and have been added to IPSAS 41, *Financial Instruments*.

### Value in Use

- BC61. One of the project's objectives was to provide more detailed guidance on the implementation of commonly used measurement bases and the circumstances under which these measurement bases will be used. In considering whether this Standard should include measurement guidance related to value in use, the IPSASB concluded value in use:

<sup>5</sup> If IPSAS ~~46~~, *Measurement* is adopted prior to IPSAS 43, *Leases*, the measurement requirements of this standard do not apply to IPSAS 13, *Leases*.

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- (a) Is not commonly used – value in use is limited to impairment evaluations in IPSAS 21, *Impairment of Non-Cash-Generating Assets*, and IPSAS 26, *Impairment of Cash-Generating Assets*; and
- (b) Is well understood both in application and identifying when it should be applied – IPSAS 21 and IPSAS 26 include extensive measurement guidance when applying a value in use measurement.

BC62. The IPSASB agreed including value in use guidance in this Standard is unnecessary. This decision was supported by responses to the Measurement Consultation Paper.

### Application of Measurement Techniques

BC63. Since measurement techniques consider the attributes of measurement bases, some techniques can be applied to multiple bases. As such, the IPSASB decided to place generic measurement technique guidance in the core text to reflect the generic nature of the measurement technique and enable that guidance to be applicable across multiple measurement bases.

BC64. The IPSASB considered how a measurement technique can be used to estimate a value of an asset or a liability under a measurement basis when a public sector entity uses data available to estimate and reflect the attributes of that basis. Based on this analysis, the IPSASB concluded:

- (a) The market approach can be used to estimate measures under the fair value and current operational value measurement bases;
- (b) The income approach can be used to estimate measures under the fair value and cost of fulfillment measurement bases; and
- (c) The cost approach can be used to estimate measures under the fair value and current operational value measurement bases.

The IPSASB noted that judgment is required to select and apply the most appropriate technique to estimate a value of an asset or a liability under a particular measurement basis for each transaction, or event, that best meets the objective of that basis.

BC64A. In developing this Standard, the IPSASB elected to align with IFRS 13, *Fair Value*, adopting all measurement techniques set out in IFRS 13. The cost approach is considered an appropriate measurement technique to approximate Fair Value as the cost to replace an asset is consistent with an exit price definition of fair value. An entity's cost to replace an asset would equal the amount that a market participant buyer of that asset (that would use it similarly) would pay to acquire it (i.e., the entry price and the exit price would be equal in the same market).

### Depreciation and Amortization

BC65. Depreciation is a charge for the consumption of an asset over its useful life. The Standard does not address depreciation. Requirements and guidance on depreciation are provided at standards level. For example, IPSAS ~~145~~45, *Property, Plant and Equipment*, addresses:

- (a) The unit of account for depreciation;
- (b) The recognition of depreciation;
- (c) The point at which depreciation of an asset begins;
- (d) The relationship between economic and useful lives;
- (e) The circumstances under which land may be depreciated;

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- (f) Depreciation methods; and
- (g) The relationship between the revenue generated by an asset and depreciation.

BC66. Amortization is the term applied to the consumption of an intangible asset that does not have a physical substance. As for depreciation, requirements and guidance are provided at standards-level, and the Standard does not address amortization. IPSAS 31, *Intangible Assets*, distinguishes intangible assets with definite and indefinite useful lives, and for the former provides requirements and guidance on amortization periods and methods and their review and residual value.

BC67. The selection of an accounting policy for measurement subsequent to initial recognition may have an impact on whether an asset is depreciated or amortized. This is determined at standards level. For example, IPSAS ~~14~~<sup>45</sup> requires that assets on the current value model with useful lives are depreciated. IPSAS 16, *Investment Property*, does not require depreciation of an investment property that is measured in accordance with the current value model subsequent to initial recognition.

### Disclosures

BC68. The scope of the measurement project included the development of enhanced measurement disclosures that would apply across the IPSAS. In developing disclosures, the IPSASB agreed no additional disclosures are required for assets and liabilities measured using the historical cost model. As no remeasurement occurs, there is no additional information to disclose as part of subsequent measurement.

BC69. For assets and liabilities measured using the current value model, the IPSASB agreed additional disclosures are required. With recurring remeasurements, new information is available as at each measurement date. Disclosures providing information about the measurement techniques, inputs and assumptions applied when measuring assets and liabilities using the current value model provide useful information for decision making.

BC70. The IPSASB developed disclosures that are to be applied consistently across the IPSAS that require assets or liabilities be measured using a measurement basis available in the current value model. These disclosures were inserted in the relevant IPSAS to clearly indicate to which IPSAS the disclosures are to be applied.

BC70A. In March 2022, the IPSASB reconfirmed the location of the disclosure requirements. The IPSASB considered whether generic measurement disclosure requirements that apply across the IPSAS should be consolidated in the Measurement standard. The IPSASB expressed concern about splitting the disclosure requirements. The IPSASB agreed to maintain the existing approach of inserting the disclosure requirements in the relevant IPSAS to clearly indicate the disclosures are to be applied.

### Transition

BC71. The IPSASB concluded that although IPSAS ~~13~~<sup>46</sup>, is a major new standard that incorporates the IFRS 13, *Fair Value* concept into IPSASB literature, much of the Standard is a codification of existing measurement guidance currently spread across many individual IPSAS. IPSAS ~~13~~<sup>46</sup> brings together generic measurement guidance, while transaction-specific guidance remains in those individual IPSAS.

~~IPSAS [X], MEASUREMENT~~

BC72. Consequently, the IPSASB decided that IPSAS ~~[X]46~~ should be effective for annual periods beginning on or after [Month Day, Year]. Because IPSAS ~~[X]46~~ applies when other IPSAS require or permit application of the measurement bases, the IPSASB believes that the extended transition period for IPSAS ~~[X]46~~ provides enough time for entities, their auditors and users of financial statements to prepare for implementation of its requirements.

~~BC73.~~ The IPSASB proposed prospective application because a change between current value measures would be inseparable from a change in the current value measurements (i.e., as new events occur or as new information is obtained, e.g., through better insight or improved judgment). Therefore, the IPSASB concluded that IPSAS ~~[X]46~~ should be applied prospectively (in the same way as a change in accounting estimate).

~~BC74.~~BC73.

## Implementation Guidance

*This guidance accompanies, but is not part of, IPSAS [X], Measurement.*

### Section A: Measurement

#### A.1. What are the attributes of each measurement basis

##### What are the attributes of each measurement basis?

	Fair Value	Current Operational Value	Cost of Fulfillment	Historical Cost
Asset Valuation	X	X		X
Liability Valuation	X		X	X
Exit Value	X		X	
Entry Value		X		X
Entity Specific		X	X	X
Market Inputs	X	X		
Market Participant	X			
Non-Performance Risk	X			
Risk Premium	X			
Current Market Conditions	X	X	X	
Principal or most advantageous market	X	X		
Highest and Best Use	X			
Least costly manner		X	X	

#### A.2 What disclosures are required when applying current value measurements bases in IPSAS.

~~No additional disclosures are required for assets and liabilities measured using the historical cost model. As no remeasurement occurs, there is no additional information to disclose as part of subsequent measurement.~~

For assets and liabilities measured using the current value model, additional disclosures are required. With recurring remeasurements, new information is available as at each measurement date. Disclosures providing information about the measurement techniques, inputs and assumptions applied when measuring assets and liabilities using the current value model provide useful information for decision making. These disclosures were inserted in the relevant IPSAS to clearly indicate to which IPSAS the disclosures are to be applied as follows:



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			Current Value Measurement						Only Current Value Disclosed		
			Recurring			Non-Recurring					
IPSAS	Relevant paragraph	Requirement	L1 <sup>6</sup>	L2 <sup>7</sup>	L3 <sup>8</sup>	L1	L2	L3	L1	L2	L3
IPSAS 12 (50C (b))	(a)	Fair value measurement at the end of the reporting period	X	X	X	X	X	X			
IPSAS 16 (89C (b))	(a)	Reasons for the measurement				X	X	X			
IPSAS 27 (46C (b))	(b)	Level of the fair value hierarchy	X	X	X	X	X	X	X	X	X
IPSAS 30 (30C (b))	(c)	Description of the measurement technique(s) and the inputs used in the fair value measurement		X	X		X	X		X	X
IPSAS 31 (123C (b))	(c)	Any changes to the measurement technique(s) and the reasons therefore		X	X		X	X		X	X
IPSAS 34 (23C (b))	(c)	Quantitative information about the significant unobservable inputs used in the fair value measurement		X	X		X	X		X	X
IPSAS 38 (57C (b))	(d)	Reconciliation from the opening balances to the closing balances			X						
	(e)	Total gains or losses for the period included in surplus or deficit that is attributable to the change in unrealized gains or losses relating to those			X						

<sup>6</sup> Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities that the entity can access at the measurement date.

<sup>7</sup> Level 2 inputs are inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly.

<sup>8</sup> “Level 3 inputs are unobservable inputs for the asset or liability.

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		intangible assets held at the end of the reporting period									
	(f)	Description of the valuation processes used by the entity			X			X			
	(g)	Narrative description of the sensitivity of the fair value measurement to changes in unobservable inputs			X						
	(g)	For financial assets and financial liabilities, if changing one or more of the unobservable inputs to reflect reasonably possible alternative assumptions would change fair value significantly, an entity shall state that fact and disclose the effect of those changes <sup>9</sup> .			X						

## Section B: Selection of Measurement Bases

### B.1. How does an entity determine the intended primary measurement objective of an asset?

Where an asset is used for both cash-generating and non-cash-generating purposes, an entity shall determine the primary objective of holding the asset in order to select the appropriate measurement basis. An entity should apply professional judgment and consider the principles outlined in IPSAS 21, *Impairment of Non-Cash-Generating Assets*, (paragraphs 16–21) to determine the asset's intended primary objective. Where an entity is unable to do so using those principles, an entity shall presume that the asset is non-cash-generating given the overall objective of the public sector.

### B.2. How does an entity determine whether an asset is one unit of account or multiple units of account?

In some cases, an asset being used for both cash-generating and non-cash-generating purposes may be an indicator there each part of the asset should be measured separately and measured using a different measurement basis. For example, the part of the asset used for operational purposes is measured using current operational value, and the part of the asset used for financial purposes is measured using fair value. This may occur when one wing of a hospital generates a financial return by charging for health care services, while another wing of a hospital is held only for its operational capacity where health care services are delivered free of charge to citizens.

<sup>9</sup> This disclosure requirement is limited to the amendments made to *IPSAS 30, Financial Instruments: Disclosures*.

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Whether the asset is a stand-alone asset, has multiple parts, or is a group of assets depends on its unit of account. The unit of account for the asset or liability shall be determined in accordance with the IPSAS that requires or permits the application of one or more measurement bases identified in this Standard.

**B.23.** *What should an entity consider when determining the appropriate measurement model?*

The historical cost model or current value model applied to measure an entity's assets and liabilities may be determined by factors outside of the entity's control. This may occur when the policy choice is made by:

- (a) A more senior level of government for all entities in a sector or jurisdiction; or
- (b) An applicable regulatory framework in the jurisdiction.

When the reporting entity can make its own accounting policy choice in selecting a measurement model, the entity should select the measurement model that best meets the informational needs of the user of the financial reports.

In selecting the appropriate measurement model, the reporting entity should consider whether or not it wants its asset or liability to reflect the value of the transaction at the date of initial recognition, or the current value of the same transaction on the date of measurement.

## Section C: Historical Cost

**C.1.** *Is there a difference between the transaction price and the historical cost basis?*

Yes. Transaction price defined as the consideration given to acquire, construct, or develop an asset, or received to assume an obligation, and is used to measure an asset or liability is determined on the date of initial recognition. ~~whereas the~~ The historical cost basis is a subsequent measurement basis that is derived from the transaction price adjusted for transaction costs, or deemed cost where applicable presents the consideration given to acquire, construct, or develop an asset, which is the cash or cash equivalents, or the value of the other consideration given, at the time of its acquisition, construction, or development. In some cases, the historical cost basis ~~will~~ may be equal to the transaction price, and in some cases the historical cost basis is derived, at least in part, from the price of the transaction or other event that gave rise to the asset or liability.

**C.2.** *Should transaction costs be subtracted from the transaction price when determining the historical cost of a liability?*

Yes. The definition of historical cost includes transaction costs as such costs can be significant. To appropriately reflect the economics of the liability, transaction costs incurred to assume the liability are deducted from the contractual amount of the borrowing. For example, an entity borrows 1,000,000 CU of which transaction costs 100,000 CU. In such an instance the historical cost is 900,000 CU. This is because immediately after taking receipt of the 1,000,000 CU, the transaction costs of ~~900~~100,000 CU is repaid to the institution or counterparty, leaving the entity with 900,000 CU. The transaction costs of 100,000 CU are included in interest expense over the term of the instrument as the carrying amount of 900,000 CU is accreted to 1,000,000 CU on the settlement date.

## Section D: Current Operational Value

**D.1.** *How does an entity reflect the remaining service potential of an asset?*

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Service potential is the capacity to provide services that contribute to achieving the entity's policy objectives. Service potential enables an entity to achieve its objectives without necessarily generating net cash inflows. To reflect the remaining service potential, the age, functionality, and condition of the asset need to be reflected in the ~~measurement~~valuation.

For example, a new asset is expected to have more remaining service potential than an asset that is midway through its service life. The age of the asset is correlated with the remaining service potential. Reflecting the age of the asset in the ~~valuation~~measurement, ensures the remaining service potential is estimated appropriately.

The current age, functionality, and condition of an asset is reflected in the asset valuation by considering physical, functional, economic obsolescence.

- (a) Physical Obsolescence – Physical obsolescence relates to any loss of service potential due to the physical deterioration of the asset or its components resulting from its age and use. In assessing physical obsolescence, an entity should also consider any probable future routine, regular maintenance, as such maintenance may provide insight into the asset or its components' useful lives and their rate of deterioration.
- (b) Functional Obsolescence – Functional obsolescence relates to any loss of service potential resulting from inefficiencies in the asset that is being valued compared with its modern equivalent – is the asset suitable for its current function? Functional obsolescence might occur because of advances or changes in the design and/or specification of the asset, or because of technological advances. For example, advances in health care technology might mean that the asset in use is outdated, or technological advances in educational material could mean that chalk/white boards would be replaced by digital screens. Such advances will need to be incorporated into the assessment of functional obsolescence.
- (c) Economic (or External) Obsolescence – Economic obsolescence relates to any loss of utility caused by economic or other factors outside the control of the entity. This may include, for example, capacity that is excess to the usage requirements of the existing asset.

*D.2. How does an entity ~~reflect the remaining service potential~~calculate the current operational value of an asset ~~when there is no active market~~?*

~~Yes.~~ Current operational value can be determined using a price from an inactive market when the price for an identical ~~asset~~ in an active market is unavailable. Generally, if the price for an identical, or similar, asset is unavailable in an active market, it will also be unavailable in an inactive market and current operational value will be determined based on the cost to construct or develop an identical, or similar, asset ~~(i.e., the cost approach)~~.

When determining the cost to construct or develop an identical, or similar, asset, an entity determines the price of each part of the asset included in the assembly of the asset. The cost to construct or develop the asset also includes the amount that would be paid to assemble the parts, or construct/develop the asset. Observable inputs are used in determining the price of parts and the costs to assemble, construct, or develop when it is feasible to do so. As current operational value is an entity-specific valuation, observable inputs are used when they are available, and they are relevant to the entity. For example, when measuring an aircraft, the ministry of defense may conclude it would acquire each of the parts in an active market, but use its own personal to construct the aircraft ~~(i.e., the least costly manner)~~. Observable inputs are used for the fuselage,

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engine, etc. as they are relevant to the ministry of defense. Entity-specific inputs related to the assembly of the parts is applied as the ministry of defense will assemble the aircraft internally.

*D.3. How does an entity identify an identical, or similar, asset when new technology has been developed making the existing asset obsolete?*

An entity measures current operational value by identifying the price it would pay for the remaining service potential of an identical asset in an active market. An identical asset in an active market is used regardless of whether new technology exists that supersedes the asset under valuation. For example, if a health authority is measuring the current operational value of ventilators acquired 10 years previously, it does not consider the newest iteration of a ventilator when identifying an identical asset.

When an identical asset cannot be identified, a similar asset maybe the latest iteration of the asset. However, in determining the current operation value, the value of the most recent iteration of the asset is adjusted to reflect the current age, functionality, and condition of the asset under valuation.

*D.4. Is the currently unused capacity of an asset excluded from the current operational value of an asset?*

It depends. Any part of the asset that is currently unused is evaluated to determine whether the unused part is held for an operational purpose associated with the asset. This may occur when an asset has security requirements, legal or other restrictions, ~~and/or functional limitations, or~~ when the unused portion is necessary for future use.

~~Parts of the asset that are currently unused, but have an operational purpose, are included in current operational value.~~

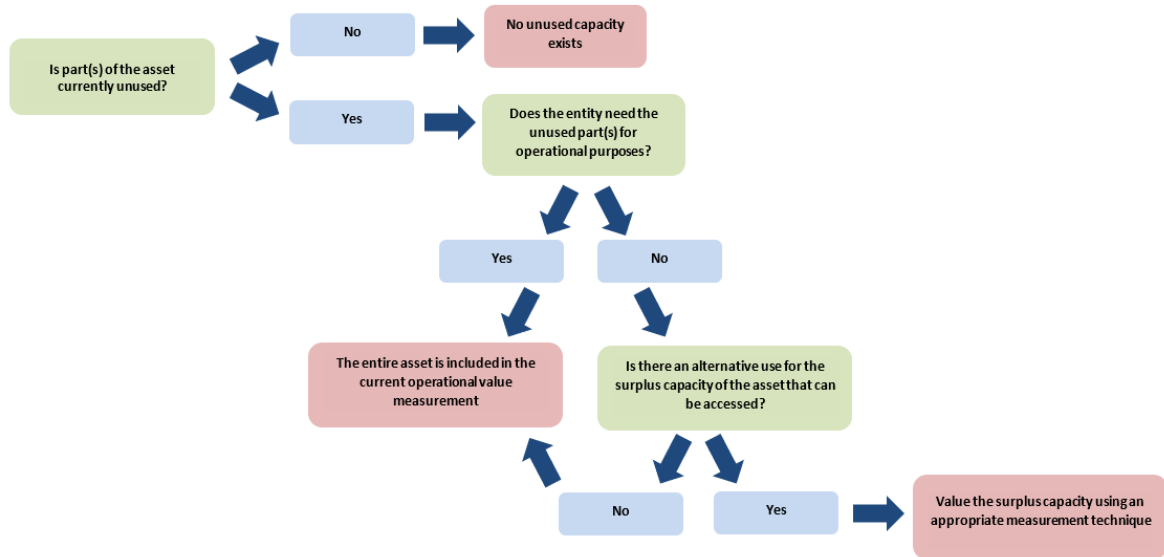
~~Where it is determined the unused part has no operational purpose, an entity must determine whether the unused part has an alternative use. When an alternative use is currently available, the relevant part of the asset is valued as a separate unit of account using an appropriate measurement basis. Where the unused part has no alternative use, it is included in the current operational value, but has no value.~~

For example, a community center in a municipality prone to natural disasters has a capacity of 700 individuals even though only 200 individuals currently use the location on a regular basis. The unused portion still has operational capacity because the building has a dual purpose. It is operated as both a community center and as a shelter for the community in the event of a natural disaster. The currently unused capacity of 500 individuals is still required for the municipality's broader operational purpose and so the whole asset is included in the measurement of its current operational value.

Another example might be where the currently unused part of the asset is expected to be required in the near future. In circumstances where a school is built in a community that is rapidly growing, it may have been constructed to take the anticipated student numbers rather than the existing student numbers. The current unused portion is, therefore, required and is included in the measurement of the school's current operational value.

Where it is determined that the unused part of the asset has no operational purposed, an entity must determine whether it has

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~~D.5. Is a currently unused part of an asset, held for operational purposes, included in the current operational value?~~

~~Yes. Where part of an asset is currently unused, but is held for operational purposes, it is included in the current operational value of an asset.~~

~~For example, a community center in a municipality prone to natural disasters has a capacity of 700 individuals even though only 200 individuals currently occupy the location on a regular basis.~~

~~While this building has a currently unused capacity for 500 individuals, the unused portion still has operational capacity, because the building has a dual purpose. It is operated as both a community center and as a shelter for the community in the event of a natural disaster. The currently unused capacity of 500 individuals is still required for the broader operational purpose for which the municipality has the community center.~~

~~D.6. Should an unused part of an asset, that is expected to be used in the future, be included in the current operational value of an asset?~~

~~Yes. When evaluating whether an unused part of an asset is held for operational purposes, the entity should consider the expected usage of the part of the asset in the future.~~

~~For example, a school is built with a capacity of 500 students. Because of the current demographics of the jurisdiction, only 300 students currently attend. The facts, circumstances, and intended use related to the school will impact whether the unused capacity is included in the current operational value of the school. In each case, an evaluation is necessary to determine whether the unused capacity is surplus.~~

~~In circumstances where a school is built in a community that is rapidly growing, while only 300 students currently attend the school, if there is an expectation attendance will realistically grow to 500 in the future, the current unused portion is required and is therefore included in the current operational value of the school.~~

~~In circumstances where a school was built in a period where demographics were much higher than at present, the current unused portion related to the 200 students exceed the long term needs of~~

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~~the school and may not be required. In making this determination, the entity would consider the expected demographic shifts in the future.~~

~~In circumstances where the current unused portion related to the 200 students is not expected to be used by students in the future, the entity will also evaluate whether there is another use for the unused capacity. For example, the space could be used as a daycare. In circumstances where the unused capacity has another use, the entity reassesses its unit of account and measures the unused capacity as a separate asset.~~

**D.75. Are restrictions on an asset's use or disposal included in the current operational value of an asset?**

Yes. Many assets are subject to restrictions on their use or disposal. Such restrictions are reflected in how the entity operates the asset. For example, a state may restrict the operation of a municipally run building, where the building is required to be operated as a library. When the entity measures the current operational value of the building, it measures the building based on its existing use (i.e., as a library).

**D.86. What factors are considered in identifying a modern equivalent asset, and what adjustments are necessary to reflect the current operational value of the existing asset?**

A modern equivalent should reflect the same characteristics as the asset being measured. For example, if the asset being measured is contaminated, an equivalent asset should be a contaminated asset. If the equivalent asset has a different service potential from the asset being measured (although necessarily the same nature), market comparison techniques are used to adjust for the difference between the service potential of the entity's asset being measured and the service potential of the equivalent reference asset. For example, a public sector entity could measure a school using the component prices of a recently constructed school in a neighboring district that has double the student capacity, with adjustments for the difference in capacity and any other difference in value if the reference asset provides different amenity. Despite differing capacities or amenity, the component prices of the nearby school is an equivalent asset because it provides services of the same nature as the school being measured.

In some circumstances a modern equivalent asset may not be reflective of the asset being measured. For example, it may be challenging to calculate the cost of a modern equivalent asset when estimating the current operational value of a heritage asset, such as an historical building. This is because the value of the asset extends beyond the mere facsimile of the existing asset. Replacing the heritage asset with a modern equivalent would not represent the heritage value of the asset and therefore would not be a suitable measurement.

The cost of a modern equivalent asset will reflect the amount that would be paid if the works were commissioned on the measurement date. However, there are factors that may result in the cost of a replacement asset being different from that of creating the actual asset:

- (a) **Phasing of work** – An asset may have been developed in phases. The cost of a modern equivalent asset would normally be based on a single-phase development, and this should be measured at the building cost at the measurement date. A single-phase development may still occur over an extended period of time.
- (b) **Borrowing costs** – If the entity does not capitalize borrowing costs in accordance with IPSAS 5, *Borrowing Costs*, the entity should disregard any financing costs in measuring the modern equivalent asset.



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- (c) Additional costs arising from extending an existing asset – These costs should not be considered as the valuation will be of a modern equivalent asset.
- (d) Contract variations – Additional construction costs because of contract variations should not be considered. The modern equivalent asset being valued will have the same service capacity as the existing asset in its existing use.
- (e) Planning changes – Entities should consider whether planning consent would need to be obtained to construct the modern equivalent asset and take this into account.

It may not always be practicable to separately identify adjustments for each form of obsolescence. In particular, it may be difficult to distinguish between functional obsolescence and economic (or external) obsolescence. In such cases the adjustments for obsolescence may need to be considered collectively.

## Section E: Use of Experts

### *E.1. Who should carry out a valuation of assets or liabilities?*

Responsibility for obtaining a valuation of asset(s) or liability(ies) for financial accounting and reporting purposes rests with the preparer of the relevant financial statements. However, the valuation should be carried out by an individual (or organization) with the relevant expertise to provide a valuation that faithfully represents the values of the asset(s) or liability(ies) in the financial statements in accordance with IPSAS 1, *Presentation of Financial Statements*, paragraph 27.

The nature of the asset(s) or liability(ies) will guide the preparer of the financial statements in determining what field of expertise is required. For example: the measurement of liabilities arising under a pension scheme will require the input of an actuary; the measurement of medical plant and equipment assets will involve discussions with clinicians and procurement experts; those responsible for the management of vehicle fleets will need to be involved with the valuation of those fleets; the measurement of any legal claims against the entity (liabilities) will involve discussions with the entity's legal advisors; the valuation of infrastructure assets will involve engineers and surveyors; and the valuation of land and buildings will need to be carried out by appropriately qualified surveyors.

### *E.2. What type of information will the valuation specialist require in order to carry out a valuation?*

The entity and the valuation specialist will need to discuss and agree the nature and scope of the valuation assignment prior to the assignment being undertaken. The information that the valuation specialist will require depends in part on the nature of the asset(s) or liability(ies) to be valued.

The information that the entity will need to give to the valuation specialist in order that the specialist can carry out a valuation will generally include some or all of the following.

- (a) The purpose of the valuation. An entity might require a valuation of its assets or liabilities for a variety of reasons, and the purpose might determine the basis of valuation that the expert will adopt. The purpose of the valuation in applying this Standard is for inclusion in the entity's financial statements. The entity should inform the valuation specialist that the financial statements will be prepared in accordance with IPSAS; a copy of the relevant IPSAS (or the relevant extract) might usefully be supplied to and discussed with the valuation specialist. Any discussion between the entity and the valuation specialist should clarify what valuation work will be carried out and any specific disclosures required to accompany the valuation in order to ensure that the precise accounting needs are addressed.



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- (b) The asset(s) or liability(ies) being valued. The entity and the valuation specialist need to agree what asset(s) or liability(ies) are to be valued for inclusion in the financial statements. The valuation specialist will need:
- (i) To understand the entity's legal interest in each asset or liability, and whether the whole or only part of the legal interest will be valued;
  - (ii) Where the entity is a tenant of real estate, information about any improvements made by the entity and whether these improvements would to be disregarded on renewals, or review of the lease, and whether the entity will need to reinstate the real estate to its original condition at the end of the tenancy;
  - (iii) To understand the degree of control an entity has over real estate or other property<sup>10</sup> that is owned by more than one entity and how any rights held by the other owning entities might restrict the ability of an entity to sell its interest in the real estate or other property;
  - (iv) To ensure that, in the context of a portfolio of real estate, any grouping of those assets is appropriate;
  - (v) Information about the purpose of holding the asset or liability – for financial capacity or operational capacity – as the purpose may influence the valuation specialist in the selection of a valuation method (a measurement basis or technique).
- (c) Assumptions and any special assumptions. International or national standards applicable to the type of valuation may differentiate between assumptions that are consistent, or could be consistent, with the known facts at the date of the valuation, and special assumptions where the assumptions used in the valuation differ from the known facts. When applicable, the entity and the valuation specialist will need to agree what assumptions should be used in the valuation, taking into account the attributes of the measurement basis; any assumptions should be included in the valuation report.
- (d) The valuation date. The entity will need to inform the valuation specialist of the specific valuation date required.
- (e) The reporting currency. The entity must inform the valuation specialist of the currency in which the valuation of the asset or liability will be expressed in the financial statements. This is particularly important where the asset(s) or liability(ies) being valued are spread across more than one jurisdiction or where cash flows associated with the asset(s) or liability(ies) are expressed in more than one currency. A typical example is the operation of overseas diplomatic activities.
- (f) Limitations on the work of the valuation specialist. A valuation specialist will follow the appropriate international or national standards applicable to the type of valuation being undertaken. The methodology used by the valuation specialist might include any of the following:
- (i) Physical inspections of the asset(s) or liability(ies) (particularly if the valuation specialist is undertaking a valuation of the specific asset(s) or liability(ies) for the first time).

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<sup>10</sup> Other property is/are asset(s) or liability(ies) other than real estate as defined above.

~~IPSAS [X], MEASUREMENT~~

- (ii) Enquiries (both internal and external to the entity).
- (iii) Analysis of the information provided by the entity or through enquiries, or from the results of any physical inspections.

The entity must inform the valuation specialist of any limitations or restrictions that will be imposed on the valuation assignment because these may affect the results of the valuation and will need to be recorded in the valuation report.

*E.3. What valuation bases does the valuation specialist use?*

Valuation specialists will use international or national standards appropriate for the valuation assignment. In general terms, the valuation specialist will use a market approach, income approach, or cost approach to valuation depending on the nature of the asset (or liability), the purpose, measurement objective and measurement basis, intended use and context of the particular assignment, and any jurisdictional statutory or other mandatory requirements.

*E.4. What sort of assumptions would it be reasonable for an entity to require the valuation specialist to make when carrying out a valuation of real estate?*

The nature of any assumptions and special assumptions may be influenced by one or more of the factors listed below; these and any other factors should be discussed with the valuation specialist when the scope of the valuation assignment is being determined.

- (a) Jurisdictional requirements. For example, where real estate assets that are revalued under the cost approach (often referred to as the depreciated replacement cost valuation method), a jurisdiction might require the entity to instruct the valuation specialist to assume that a proposed building or other specialized asset had actually been completed on the valuation date as an 'instant build' or 'single phase development' (that is, no assumptions are required about the length of time it might take to build a replacement building). This would be a 'special assumption'.
- (b) Service delivery constraints. For example, if an entity has determined that, in order to meet its service delivery objectives, the service has to be delivered from a specific location, then the entity should instruct the valuation specialist to value that real estate asset in that location. This would be a 'special assumption'.
- (c) Service delivery requirements. For example, experienced demographic changes, or demographic changes reasonably expected over the remaining life of the asset, might indicate a change in demand for the service. This in turn might lead to a change in assumption about the ongoing use of the asset or to a change in the specifications required for an efficient and effective replacement of the asset. This might be an 'assumption' or a 'special assumption' depending on the circumstances.
- (d) Functionality. For example, a building might have a conventional, basic design that is superficially similar to other buildings that are regularly bought and sold in the market, but on closer inspection have specialized features designed to meet the requirements of the actual occupier. Examples of specialized features include the addition of security/safety enhancements to protect staff from physical attack in office buildings used for the delivery of services directly to the public; stand-off land around embassies to protect the premises (and staff) from terrorist attack; or other adaptations to a building to enhance efficiency and effectiveness in delivering services. An entity will need to discuss whether any of the

## IPSAS [X], MEASUREMENT

specialized features would lead to a 'special assumption' about the measurement basis and technique to be applied in the valuation.

- (e) Standard models. For example, the construction industry will generally have standard design lives for different types of real estate (residential, commercial or industrial); engineers will take a similar approach to certain types of built structures such as bridges or dams. In some cases, there may also be standard costings associated with certain types of other property assets and, unless instructed otherwise, the valuation specialist might use these standard model assumptions in preparing the valuation.

#### E.5. What is meant by a 'modern equivalent asset'?

The concept of a modern equivalent asset is applied by a valuation specialist when valuing real estate under the cost approach (the depreciated replacement cost (DRC) valuation method in some international or national valuation standards).

The DRC method is based on the economic theory of substitution. Like the other forms of valuation, it involves comparing the asset being valued with another. However, DRC is normally used in situations where there is no directly comparable alternative. The comparison therefore has to be made with a hypothetical substitute, also described as the modern equivalent asset (MEA). The underlying theory is that the potential buyer in an exchange transaction would not pay any more to acquire the asset being valued than the cost of acquiring an equivalent new one. The technique involves assessing all the costs of providing a modern equivalent asset using pricing at the valuation date.

In order to assess the price that the potential buyer would bid for the actual asset, valuation depreciation adjustments have to be made to the gross replacement cost of the MEA to reflect the differences between it and the modern equivalent. These differences can reflect obsolescence factors such as the physical condition, the remaining economic life, the comparative running costs and the comparative efficiency and functionality of the actual asset. Land required for the MEA will be separately assessed.

An MEA is one that provides similar function and equivalent utility to the asset being valued, but which is of a current design and constructed or made using current cost-effective materials and techniques.

Under the cost approach, the valuation specialist will reflect all appropriate costs in the replacement cost of the asset; these will include the value of the land, infrastructure, design fees, finance costs (where appropriate) and developer profit that would be incurred by a participant in creating an equivalent asset.

In order to ensure comparability, the entity should instruct the valuation specialist to assume that the land on which an MEA would be constructed is ready for development to the same extent that an alternative site would be ready for development. That is, any site clearance costs to make the existing site ready for development would be ignored.

If the jurisdiction does not normally capitalize borrowing costs under IPSAS 5, *Borrowing Costs*, the entity should instruct the valuation expert to disregard any financing costs.

The cost of the MEA needs to be adjusted to reflect the condition, functionality and any other factors of obsolescence of the existing asset. The valuation specialist will consider, in consultation with the entity:

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- (a) Physical obsolescence. The valuation specialist considers the existing asset and adjusts for a loss of utility arising from its age, condition and probable costs of routine servicing and repairs over the remaining useful life of the asset. Any future capital expenditure on significant refurbishment or replacement of components of the asset (such as, for example, new lifts) would not be considered as probable costs as part of the assignment.
- (b) Functional obsolescence. The valuation specialist will assess the suitability of the existing asset for its current use by comparing its functionality against the functionality of the modern equivalent asset in terms of design, specification and technology. Examples of such factors are:
  - (i) Compatibility of plant and services within the asset or group of assets (this might be of particular importance, for example, where the asset is a connected series of buildings such as a hospital or school that has developed over time by adding new buildings to existing buildings);
  - (ii) Inefficient use or under-use of part or all of plant and machinery;
  - (iii) Poor layout of a building, leading to inefficient use; or
  - (iv) Outdated technology.
- (c) Economic (or external) obsolescence. The valuation specialist assesses external factors, such as the characteristics of the area, national and local planning policies, externally imposed restrictions, and changes in demand for the services provided by the asset.

*E.6. Do I have to use a valuation expert external to my entity?*

You do not have to use a specialist from another organization. Where an entity has the relevant, suitably qualified (that is, a member of an appropriate professional body) expertise available in-house, that specialist can be used to provide a valuation. However, the entity's management and the auditor will need to be satisfied that the use of an in-house valuation specialist provides the level of independence required under international and national valuation standards.

Whatever the source of the expertise, the name, qualifications and employing organization of the valuation specialist must be provided in the notes to the financial statements. This disclosure might be in the note on accounting policies or in the notes accompanying the detailed asset disclosures.

*E.7. What can I expect from a valuation specialist's report?*

International and national valuation standards require valuation specialists to include certain information in their reports. This will apply regardless of whether the valuation is carried out in-house or externally.

The information in a report will depend partly on what the entity and the valuation specialist agreed prior to the assignment, partly on the nature of the asset(s) or liability(ies) being valued, and partly on the standards framework used by the valuation specialist.

The information in the report will include, but will not necessarily be limited to:

- (a) The name, qualifications, employing organization and any other relevant details of the valuation specialist.
- (b) The name of the entity that commissioned the valuation and the name(s) of any other intended users of the report.

~~IPSAS [X], MEASUREMENT~~

- (c) The purpose of the valuation.
- (d) The asset(s) or liability(ies) valued. For real estate assets, the report might include maps and plans depending on jurisdictional requirements, as well as the type of tenure (freehold or leasehold and, in the case of leasehold, details of the financial terms and of the responsibilities for repairs etc. under the lease).
- (e) The valuation base(s) adopted.
- (f) The valuation date and the date of the valuation report.
- (g) A discussion of the approach the valuation specialist took in undertaking the assignment – for example, details of any physical inspections, interviews, review of documents, constraints placed on the assignment, etc.).
- (h) Assumptions and special assumptions.
- (i) Confirmation that the valuation has been undertaken in accordance with the relevant international or national valuation standards.
- (j) The valuation amount(s) and the reasoning behind arriving at those amounts, with reference to the bases used. The report will provide separate valuation amounts for land and buildings on that land. It is likely that the valuation report will include separate valuation amounts for individual components of an asset where material in terms of the amounts or significant in terms of the asset itself. The report will include valuation amounts in both functional and reporting currencies (as appropriate).
- (k) A discussion of any material uncertainties in the valuation amount(s) where this is necessary for a proper understanding of the valuation amount(s).
- (l) For certain liabilities, the probability of the timing and amount of any payments to settle claims.

### Comparison with IASB IFRS 13

The fair value measurement requirements in IPSAS [X]46, *Measurement* ~~is~~ are drawn primarily ~~partially~~ drawn from IFRS 13, *Fair Value Measurement* (issued in May 2011, including amendments up to January 2016February 2023). The main differences between IPSAS [X]46 and IFRS 13 ~~are~~ are as follows as follows:

- IPSAS [X]46 provides guidance on historical cost, current operational value, cost of fulfilment and fair value. IFRS 13 only provides guidance on fair value. ~~The subsequent current value measurement bases in IPSAS [X] are current operational value, cost of fulfilment and fair value. Current value measurement bases identified in IFRSs are fair value, value in use and fulfilment value and current cost.~~
- IPSAS [X]46 defines current operational value as the amount the entity would pay for the remaining service potential of an asset at the measurement date. IFRSs do not have such a measurement basis. ~~requires an entity to apply the measurement disclosure requirements in the relevant IPSAS. IFRS 13 includes all disclosures about fair value measurement.~~

~~IPSAS [X] defines cost of fulfilment as the cost that the entity will incur in fulfilling the obligations represented by the liability, assuming it does so in the least costly manner. IFRSs defines fulfilment value as the present value of the cash, or other economic resources, that an entity expects to be obliged to transfer as it fulfils a liability.~~

### Comparison with GFS

In developing IPSAS ~~¶~~46, Measurement, the IPSASB considered Government Finance Statistics (GFS) reporting guidelines.

Key similarities and differences with GFS are as follows:

- IPSAS ~~¶~~46, provides guidance on historical cost, current operational value, cost of fulfilment and fair value. In GFS, as a general rule, all flows and stock positions should be measured at market prices, but there are exceptions to this general rule.

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