IFRS 9 Impairment

Global insights

China Banking Association 15 November 2017



Agenda

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IFRS 9 impairment
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Introduction and high level overview of IFRS 9

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Overview of IFRS 9 Financial assets

Classification & Measurement	Impairment	Hedge Accounting
 Revised approach to measurement of financial assets 	 Fundamental redesign of provisioning model for financial assets 	 New standard aimed at simplifying existing hedge accounting rules
Principle-based, unified model based on both the use of assets within entities business models and the nature of the cash flows	 Move from an "incurred loss" model to an "expected loss" model Earlier recognition of impairment. For performing 	 Reflects more accurately how an entity manages its risk and the extent to which hedging mitigates those risks
 Financial assets are reclassified between measurement categories only when the business model for managing them changes 	assets – 12 months worth of expected losses. For non- performing assets – lifetime losses to be captured upfront	 Removes some of operational burden associated with hedge effectiveness testing More risks can be hedged



Key challenges Pre-implementation considerations





Key challenges Classification and Measurement





Key challenges



Key challenges Hedge Accounting

Qualitative and quantitative threshold for recognising effectiveness

- Require robust hedge documentation
- Emphasis on qualitative factors for prospective effectiveness assessment
- Elimination of the 80-125% quantitative threshold for recognising effectiveness
- Hedge relationship can no longer be voluntarily revoked at the will of management
- Increase in use of various hedging tools and/or strategies by peers may impose pressure on entities to explore new hedging tools and/or strategies

Disclosures

- Disclosure is more onerous than IAS 39, in particular on risk management and hedging strategies, definition of hedge effectiveness, rebalancing of risk and consequential financial impacts on financial statements
- Reconciliation between IAS 39 and IFRS 9



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IFRS 9 Impairment Survey at a glance



Participants profile

We surveyed 29 top-tier banks worldwide, of which:

- ► Fifteen have a balance sheet in excess of €600b; 10 have a balance sheet between €200b and €600b, while the remaining four have a balance sheet of less than €200b.
- Eleven are global systemically important banks (G-SIBs).
- ► Twelve are under the scope of Sarbanes-Oxley Act (SOX).
- Seventeen use an Advanced Internal-Rating Based approach (A-IRB) for all of their portfolios.



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1. Impact assessment – impairment provisions

Expected percentage increase in total impairment provisions on transition to IFRS 9



1. Impact assessment – impairment provisions

Expected percentage increase in total impairment provisions on transition to IFRS 9 (continued)



1. Impact assessment – pro-cyclicality Impairment provision and pro-cyclicality



1. Impact assessment – capital CET1 ratio and preferred day one treatment



¹ "Publications," Bank for International Settlements website, www.bis.org/bcbs/publ/d401.pdf, accessed 21 August 2017.

² "Publications," European Council website, http://data.consilium.europa.eu/doc/document/ST-9480-2017-INIT/en/pdf, accessed 21 August 2017.

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1. Impact assessment – disclosures Disclosure of the potential impact of applying IFRS 9 impairment



*Year end reporting for Canadian banks

1. Impact assessment – stage allocation Exposure analysis on transition to IFRS 9



*The definition of SME is based on the regulatory definition of small medium enterprises, whose criteria may differ by country. For the purposes of the survey, it is included within wholesale.

1. Impact assessment – stage allocation Duration analysis on transition to IFRS 9



*For the purpose of this question, we define average portfolio duration as the average life in which the bank would incur a loss.

1. Impact assessment – stage allocation Basel 12-month Probability of Default (PD) analysis for stage 2 exposures on transition to IFRS 9



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2. IFRS 9 project status Progress on 2017 planned parallel runs (continued)



* Data collected from the Australian banks have been excluded in the geographical breakdown to keep confidentiality because of the low number of participants. Furthermore, early adopters and the count of unanswered have been removed from the cumulative count.

2. IFRS 9 project status Point of transition and incremental business as usual (BAU) budget



Commentary

Large range of IFRS 9 budgets up to the point of transition

- Responses illustrate the range of funding requirements across all banks.
- The expected spend is influenced by the size of the institution. A wide range of spend is expected for larger banks, while, in proportion, the budget is more significant for mid-tier banks.
- ► Geography also influences the expected budget, as most Canadian banks expect to spend less than €40m, with French and UK banks spending more than that. Other geographies show a wide range of results.
- Most of the total spend (60% or more) relates to IT infrastructure and modeling. Project management office (PMO), governance and controls are also key items.

Half of the participants have not assessed the IFRS 9 BAU budget yet

- Regardless of the size, most banks are yet to assess the full incremental BAU cost resulting from IFRS 9 post implementation.
- From the limited data collected, the incremental BAU budget appears more influenced by the size of the bank than the expected total IFRS 9 project budget.

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3. Operating model Frequency of the BAU IFRS 9 impairment process

Data				
ECL calculation and staging assessment				
Frequency	ECL calculation	Staging assessment	ECL calculation with full governance	Re- assessment of significance thresholds
Monthly	22	22	5	-
Quarterly	7	7	22	2
Semiannually	-	-	-	-
Annually	-	-	1	18
Other	-	-	-	9
Unanswered	-	-	1	-

Economic scenarios and significance thresholds

Frequency	Refresh of base case economic scenario	Refresh of alternative economic scenarios	Refresh of probability weights
Monthly	2	-	-
Quarterly	20	16	16
Semiannually	5	5	5
Annually	1	3	3
Other	1	5	5

Retail and wholesale ratings, PDs and LGDs

Frequency	Update of retail ratings and PDs	Update of wholesale ratings and PDs	Update of retail LGDs	Update of wholesale LGDs
Monthly	15	9	12	6
Quarterly	7	7	8	6
Semiannually	1	1	2	2
Annually	3	11	6	11
Other	3	1	1	3
Unanswered	-	-	-	1

Commentary

ECL calculations performed monthly, but full governance process quarterly

- Responses show strong consistency across all banks in the frequency of main processes.
- Twenty-two banks indicated that the ECL calculation and staging assessment will be performed on a monthly basis. However, the ECL calculation subject to full governance (e.g., approval through respective three lines of defence) will largely be performed on a quarterly basis. This is consistent with the existing frequency of impairment review meetings under IAS 39.

Economic scenarios refresh quarterly

A refresh of the base case and alternative economic scenarios as well as the associated probability weights will be performed on a quarterly basis. More frequent refreshes may result in unnecessary delay for little added benefit.

Staging thresholds revisited annually

- More than half of the participants indicated that they will look to reassess the appropriateness of the staging thresholds on an annual basis.
- ► Some respondents indicated that this will be subject to robust governance, sensitivity analysis and will be portfolio specific.

Frequency of parameter refreshes largely driven by the existing credit rating and credit review process

- Retail ratings, PDs and loss given defaults (LGDs) are mostly updated on monthly basis.
- Wholesale parameters will largely be updated on an annual basis, in line with the credit review cycle, with ad hoc re-rating as new information of the borrower's financial situation comes to light.
- A number of banks reported that, in addition to this, IFRS 9 PDs and LGDs will be updated on a monthly or quarterly basis to incorporate information available and required under IFRS 9 (such as macroeconomic scenario scalers).

3. Operating model Cutoff dates



3. Operating model Responsibility



Commentary

Responsibility for various components split between finance, risk, operations and economist functions

- Risk is the primary function responsible for data quality; although this will depend on the nature and source of the particular data attribute required for ECL calculation purposes. Hence, finance, economists and operations are also responsible.
- Reconciliation of exposures tends to sit with finance, which ensures that the source to report system data is complete and accurate.
- Model approval is clearly owned within risk as is independent model validation. We expect these to be segregated teams within risk functions.

Multiple economic scenarios

- The base case (most likely) economic scenario is generally the responsibility of economist functions, and in some instances, is a joint responsibility with risk.
- Ownership of alternative scenarios and probability weights follows a similar trend to that observed for the base case scenario, although risk takes more responsibility at the stage of assigning probability weights.

3. Operating model Responsibility (continued)



Commentary

Responsibility for IFRS 9

- Overlays are controlled by risk or finance depending on the nature of the adjustment, e.g., overlays for model underperformance, data quality or idiosyncratic factors that are not captured in the model. Most banks adopt a joint model for responsibility.
- ► ECL calculators are generally owned in the risk function.
- Two-thirds of banks allocate the responsibility of final stage allocation to the risk function.
- ► There is a mixed responsibility model for final impairment numbers with most respondents indicating a joint model. Approaches on governance around these areas appear to still be evolving. The purpose of the question was to consider the governance process for determining the final impairment number rather than the overall responsibility in relation to published financial statements.
- Clear ultimate responsibility and accountability will be required at senior level. Senior management regime in the UK, "three lines of defense" principles in Europe and SOX concepts will be important for banks to give due consideration to while allocating ownership.

3. Operating model Governance for back testing



3. Operating model Back testing



3. Operating model The impact of IFRS 9 on business strategies and control frameworks



EY IFRS 9 Impairment Banking Survey 4. Stage Allocation

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Staging Approach simplification

Simplifications

- Use change in 12-month risk as approximation for change in lifetime risk
- Set transfer threshold by determining maximum initial credit risk
- Low credit risk equivalent to "investment grade"





Transfer Criteria: Validation

The assessment criteria

- Predictive: Does the Staging approach accurately predict deterioration in credit risk (high true positive rate)?
- Pre-emptive: Is the Staging approach relying more on backstops or PD assessment?
- Accurate: Does the Staging approach correctly identify accounts that become delinquent (high sensitivity rate)?
- **Sufficiently large**: Is the size of the Stage 2 population sufficiently large to capture up-to-date accounts that deteriorate (high coverage ratio)?

Illustration of the assessment criteria:

Approach: calculate the Staging allocation as of a given snapshot and assess the performance in the subsequent 12 months.



- Up-to-date Stage 1 accounts that roll to delinquency
- Delinquent Stage 2 (backstops)
- Up-to-date Stage 2 population that doesn't roll to delinquency
- Up-to-date Stage 2 population that rolls to delinquency

The population can be segregated in to the following, with its associated KPIs:

- <u>Delinquent*</u> accounts which are captured by the backstops (ie. 100).
- <u>Up-to-date accounts which are captured</u> by the PD assessment but <u>do not</u> <u>become</u> delinquent in the outcome period (ie. False positives = 350).
- <u>Up-to-date accounts which are captured</u> by the PD assessment and subsequently <u>become delinquent</u> (ie. true positives = 50 and true positive rate = 50/400)
- <u>Up-to-date accounts</u> which are <u>not captured</u> by the PD assessment and subsequently <u>become delinquent</u> (ie. missed bads= 150 and predictive rate = 50/200)
- The coverage ratio is Up-to-date Stage 2/ Up-to-date accounts that roll to delinquency (coverage= 400/200)

Application

The validation framework can be used to compare the Staging performance across portfolios as well as to monitor the performance of the Staging allocation across time

KPIs (volume-based)	Personal Loans	Credit Cards	Mortgages
True positive rate	23.0%	20.0%	19.2%
Sensitivity rate	26.7%	25.4%	31.2%
% Captured by PD assessment	99.5%	99.6%	99.7%
Coverage ratio	1.16	1.27	1.63
False positives : True positives	3.35 : 1	4.01 : 1	4.21 : 1
Population splits (millions of accounts)	11k 9k 3K	64K 47K 16K	10k 5k 2k
	True positives	Missed bads	False positives

Comments

- In the example above, we compared the Staging allocation across different Retail portfolios. The Staging allocation for Retail Unsecured performs comparably whereas the Staging allocation for mortgages appears a bit more conservative (ie. higher sensitivity and lower true positive rate)
- There is a trade-off between sensitivity and true positives. Very high true positive rate suggest the Staging allocation is aggressive (ie. Stage 2 accounts are on a rapid downturn trajectory).
- All portfolios have coverage ratio bigger than 1 evidencing that the size of the Stage 2 is sufficiently large to cover future delinquency.
- % Captured by PD assessment measures what proportion of Stage 2 population is captured by the PD assessment on a standalone basis. It assesses how pre

Transitional Arrangements

Missing PD at origination

Dealing with missing origination data

When it is not possible to determine the PD at origination, modellers should consider the following options:



4. Stage allocation Overall observations

Commentary

- As already emerged in the previous survey, all banks consider using a combination of quantitative and qualitative drivers structured as primary and secondary drivers, plus backstops. The primary driver is the earliest indicator and is generally based on a relative measure, while the others cover more obvious (absolute) signs of deterioration, such as forbearance or delinquency.
- Most banks intend to use IFRS 9 lifetime PDs and rating deterioration as the primary drivers for staging. This is generally assisted by watchlists and forbearance measures as a secondary indicator for wholesale and retail, respectively.
- ▶ The use of 30 DPD as a backstop for classification into stage 2 is prominent compared with other measures across all types of exposures.
- Several banks will use a combination of different backstops in addition to the 30 DPD presumption, forbearance being one of them when not used as a secondary indicator.
- Use of variation of 12-month PD: Banks will have to demonstrate that they are not missing any significant increase in risk of a default beyond 12 months. This may require further adjustments on the basis of macroeconomic forecasts. However, these indicators are still considered very relevant as they are well understood and have been used and tested for some time.
- Use of variation of lifetime PD: The obvious challenge on transition is to have data available at the origination date for existing portfolios (including forward-looking information). Some banks mentioned that they would have to use proxies on transition (Basel scores, through the cycle (TTC) PDs, latest information available or lending policy cutoffs).
- Use of variation of ratings: Ratings are considered more forward looking by nature as they involve more expert judgment on the basis of a wider range of information, including more prospective information (borrower's financials, sectorial information, etc.) and look beyond a 12-month horizon. Depending on their calibration, they may also require demonstrating that the associated PDs reflect current circumstances and reasonable forecasts.
- Transitional vs. strategic approach: The challenges faced at transition are obviously less significant for banks using Basel scores or PD, although some issues may still arise depending on when the IRB models were built. It remains to be seen whether, in the longer term, the development and increasing use of lifetime PD curve (including forward-looking elements) may result in more convergence toward the use of this more sophisticated quantitative measure.

4. Stage allocation Indicators of significant deterioration in credit risk - retail



Commentary

- Most banks will utilize lifetime PDs as primary indicators with fewer banks intending to use 12-month and Basel PDs as the primary indicator.
- Many banks will utilise forbearance as the secondary indicator, with many other utilizing behavioral scoring processes. No banks indicated forbearance as a primary indicator.
- Most banks will not use 30 DPD as a primary indicator, effectively showing that institutions have heard the regulators' messages about delinquency being a lagging indicator.
- Watchlists continue to only be secondary indicators for both secured and unsecured retail exposures, broadly in line with the observations from 12 months ago. Retail watchlists are more mechanical than for corporate exposures and tend to largely overlap with forbearance and delinquency as well as fixed levels of scores or PDs.
- Similar to secured retail exposures, most banks will use lifetime PDs as the primary indicator with a few banks intending to use 12-month and Basel PDs.
- Forbearance and 30 days past will again be used as backstops for transfers to stage 2. Days past due are considered as a particularly relevant indicator for credit cards by most banks.
- "Specific client monitoring" was generally stated as a secondary indicator within the "other" category.
- Two banks noted forbearance as a primary indicator, which was not the case during the previous survey.

4. Stage allocation Indicators of significant deterioration in credit risk – wholesale



4. Stage allocation Indicators of significant deterioration in credit risk – wholesale (continued)



4. Stage allocation Indicators of significant deterioration in credit risk – debt securities



Commentary

Debt securities exposures

- A number of banks remain undecided on which primary indicators, secondary indicators and backstops they will use.
- A number of banks will use the LCR simplification as their primary indicator of deterioration in credit risk for debt securities. Other banks will utilise lifetime PDs (as opposed to 12-month or Basel PDs) as the primary indicator followed by other risk metrics like scores and ratings.
- Watchlists will generally be used as a secondary indicator. Two banks are considering adding an exposure to their watchlists as a primary indicator of deterioration in credit risk.
- ► A minority of the banks will use ratings and scores as a primary indicator.

4. Stage allocation Definition of significant thresholds



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