

A row of colorful hot air balloons is lined up in a grassy field at dawn. The balloons are illuminated from within, casting a warm glow. The sky is a mix of blue and purple, indicating the time is either early morning or late evening. The balloons have various patterns and colors, including stripes, checkered, and solid colors. The foreground is a lush green field.

EY IFRS 9 Impairment Banking Survey

July 2018

IFRS 9 Financial Instruments: Impairment challenges remain

Welcome to EY's fourth annual IFRS 9 impairment survey. This survey was undertaken to compare the impact of, continued challenges and focus areas specific to impairment programmes for major banking institutions. Overall we have observed that the impact on provisions is less than was expected, there is convergence in the application of multiple scenarios, and some of the best practices around stress testing are starting to crystallise. However, the longer term impacts are still unclear.

Change programmes have extended longer than expected and it remains a challenge to embed the extensive additional risk and finance data, processes and controls into the business. The volume of changes to a financial institution's data, systems, quantitative models, processes and control framework to calculate expected credit losses were generally underestimated.

It has become evident that the management judgment, complexity and transparent reporting will require more intensive oversight with increased stakeholder scrutiny.

Banks are focussed on the most transparent ways to explain the results of expected credit losses to stakeholders, as well as managing the competing demands for information.

Banks have past the 1 January 2018 implementation date but we are far from done with IFRS 9. Banks continue to focus on stabilising the risk and finance processes as well as optimisation of the operating model. One specific focus is the number of working days it takes to complete the calculations of expected credit losses and to pass these through the control and governance frameworks.

The impact on operational processes and financial reporting will not be limited to the transition period and first year of adoption. Impacts will be identified and adaptations will need to be made, even into 2019.

For further insights on IFRS 9, including how your institution compares to the results in the survey, please contact our survey team or your local EY contact.

We hope you find this information helpful as you continue your IFRS 9 impairment journey.



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Key highlights of the survey

A wide range of impacts on provisions



Half the respondents expect an increase in provisions over

10%

Less divergence on the impact on capital

The majority of respondents expect the day one fully loaded impact to be less than

20bps

Multiple economic scenarios (MES)

75% of the respondents expect an impact of MES of less than

10%



65%

of banks will apply three scenarios: base case, upper case and lower case

2018 change programmes

Over half the banks will continue their change programmes through the

second half of 2018



Controls added

One-third of banks will increase their number of controls due to IFRS 9 impairment by

over 30%



Days to record expected credit losses in the general ledger

Most banks have a working day timetable of

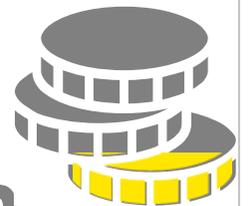
20-30 days



Budget

Several of the larger banks reported a business as usual yearly budget of

over €15m

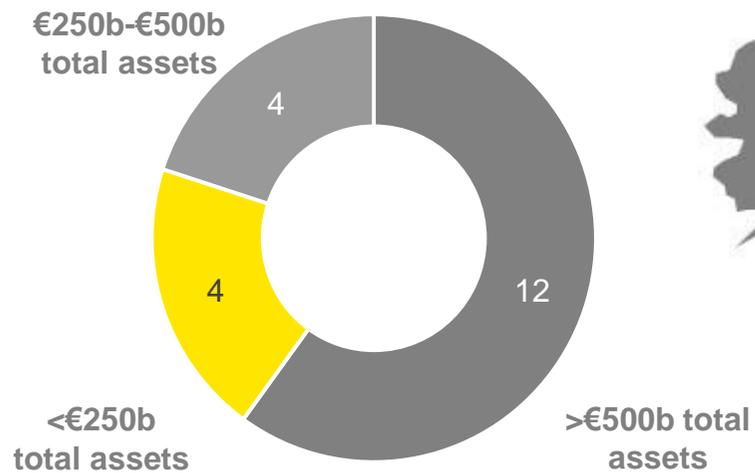


Participants profile

We surveyed 20 top-tier, global banks, of which:

- ▶ All are primary IFRS reporters
- ▶ Eleven are global systemically important banks (G-SIBs)
- ▶ Twelve are under the scope of Sarbanes-Oxley Act (SOX)
- ▶ Fourteen use an advanced internal-rating based approach (A-IRB) for all of their portfolios

Size and location of participants

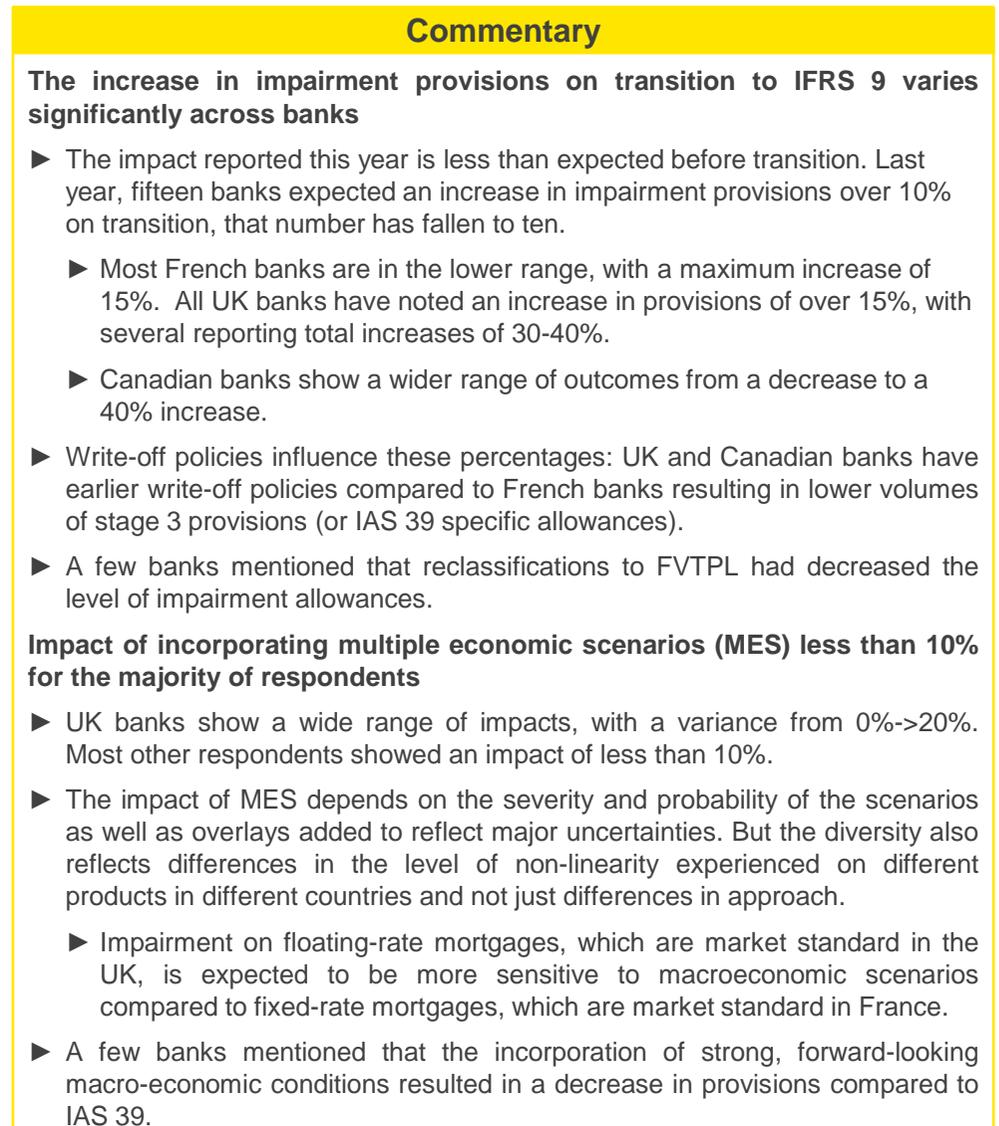
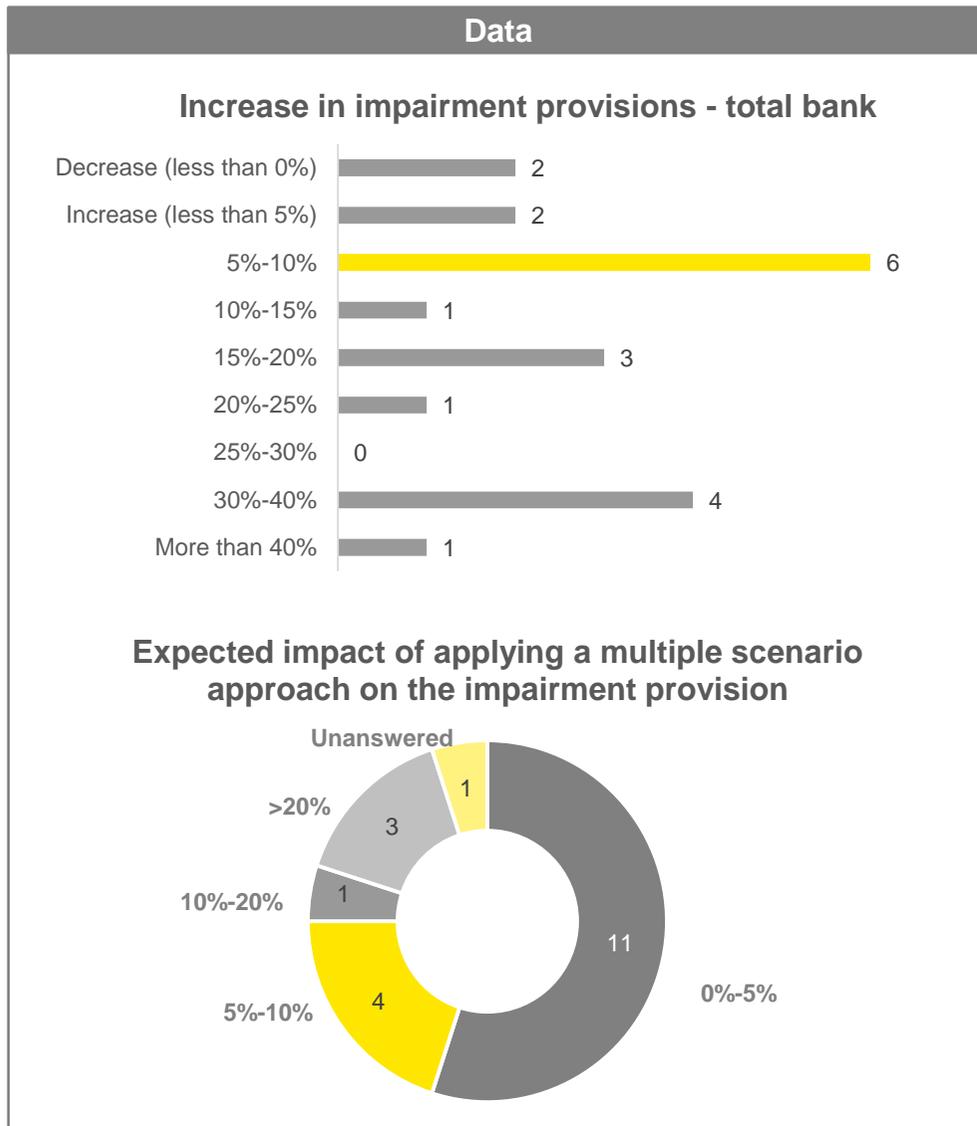


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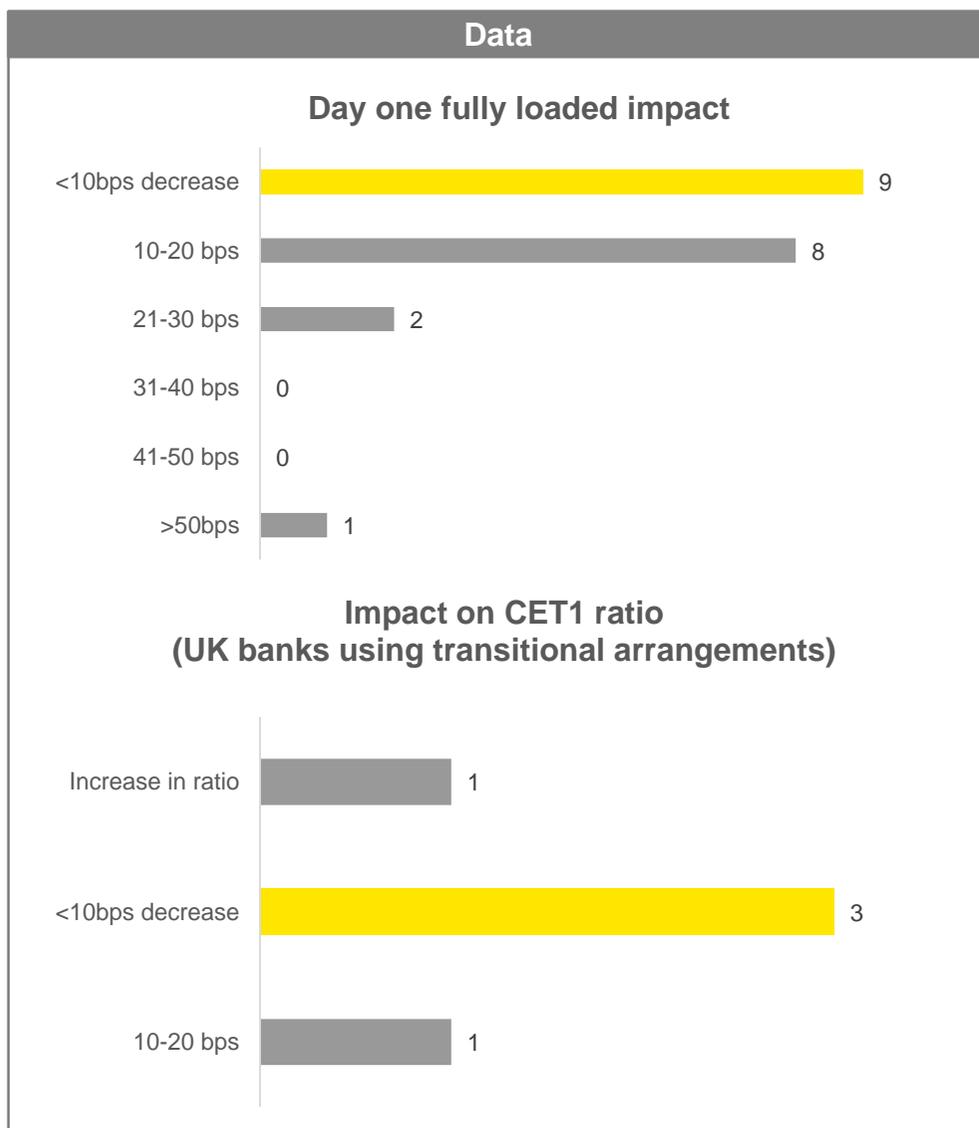
1. Impact assessment – impairment provisions

Percentage increase in impairment provisions on transition to IFRS 9 – total bank



1. Impact assessment – capital

Estimate of the day one fully-loaded impact of IFRS 9 and impact on CET1 ratio



Commentary

Day one fully loaded impact mostly showed a decrease of less than 10bps

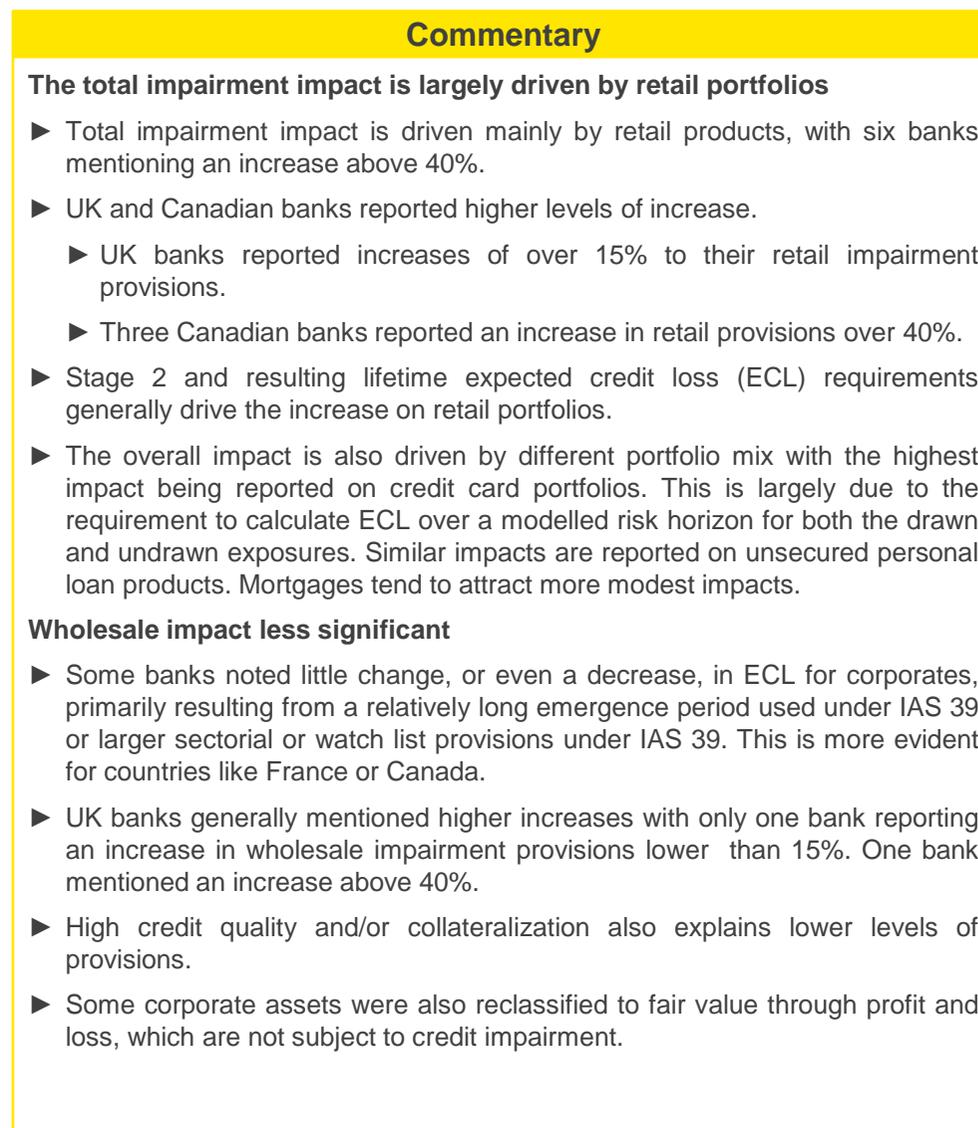
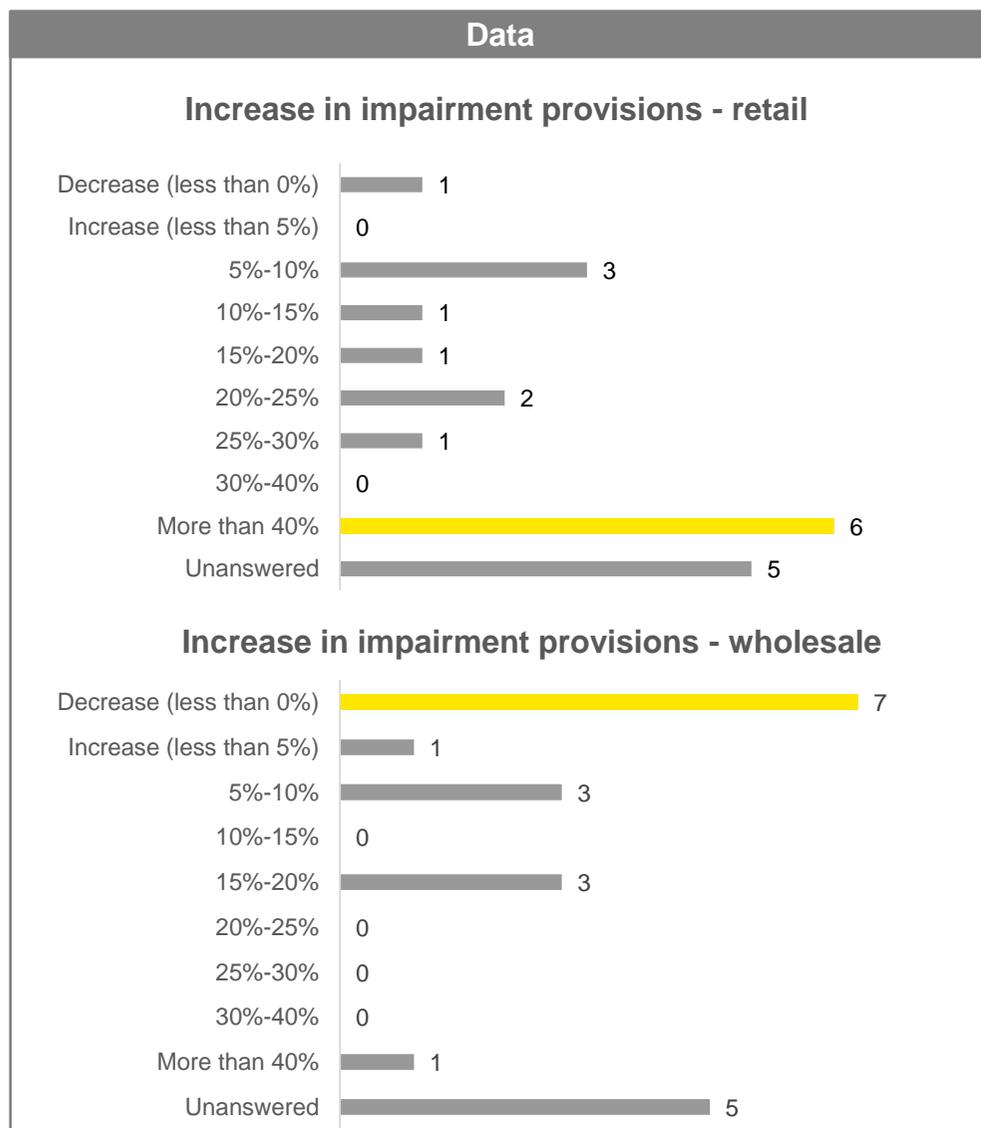
- ▶ Most banks have reported a decrease of less than 10bps or an increase of 10-20 bps as the day one fully loaded impact. Only one bank has reported an increase over 50 bps.
- ▶ There is less impact and divergence on CET1 ratio (common equity tier 1 ratio) than on provisions. This is due to the excess loss currently deducted from CET1 under IAS 39 offsetting part of the increase for IRB portfolios. Banks had diverse levels of shortfalls available to absorb the IFRS 9 impact, mainly due to diverse IAS 39 impairment approaches.
- ▶ A few banks mentioned positive impacts on reclassifications to FVTPL which substantially offset the impact of increased impairment allowances.
- ▶ Deferred tax assets also tend to decrease the effects of increased provisions on CET1 ratios.

Day one impact with transitional arrangements

- ▶ European banks have the ability to apply transitional arrangements and spread the impairment impact over a five-year period. In year one, only 5% of this impact is retained for the banks which opted for these arrangements.
- ▶ UK banks all apply these measures and the majority reported an impact lower than 10bp under the transitional regime.
 - ▶ For a few banks, the transitional arrangements when combined with positive impacts from reclassifications (which are not in the scope of the transitional arrangements) result in nil or positive effects on CET1 ratio.
- ▶ Most countries in our survey are not applying transition arrangements, so we have included only UK banks in the chart showing the impact on CET1 ratio.

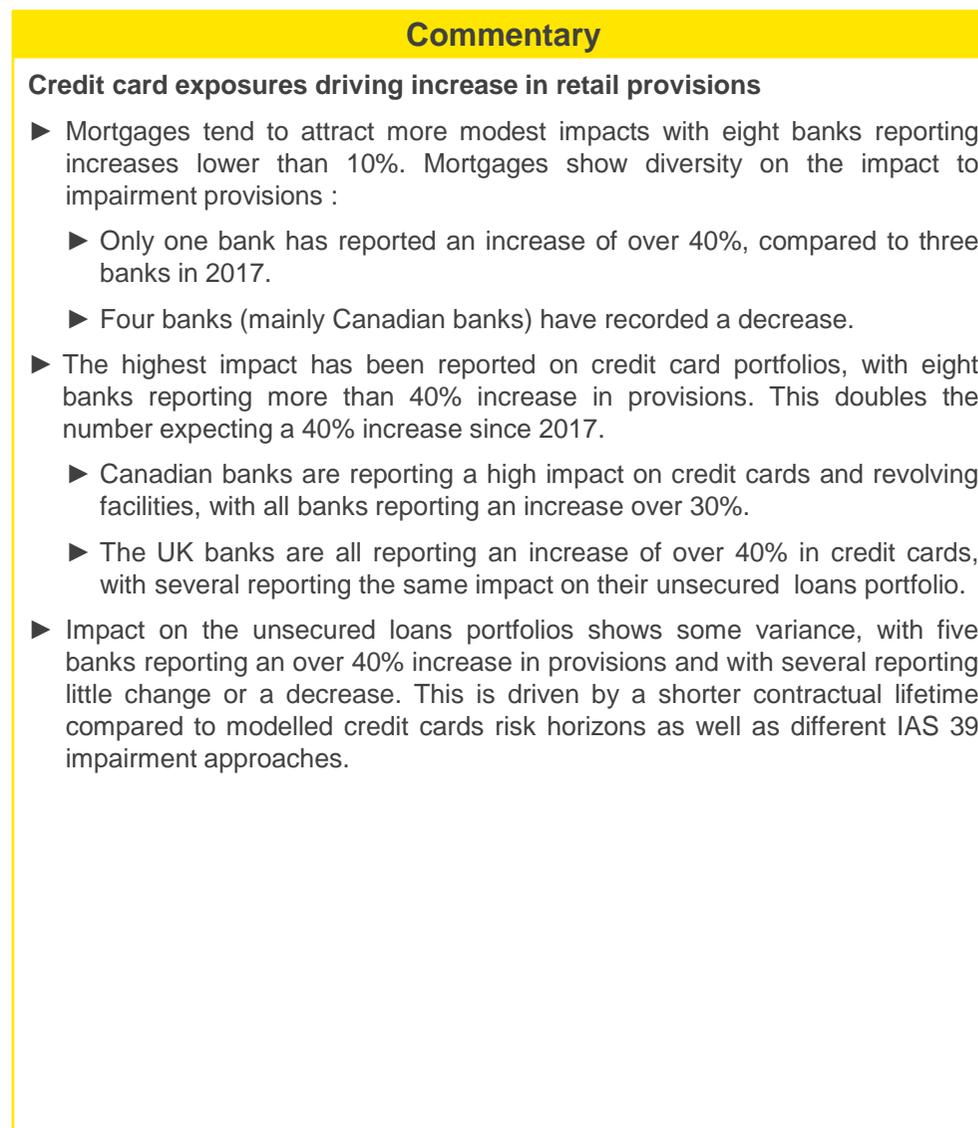
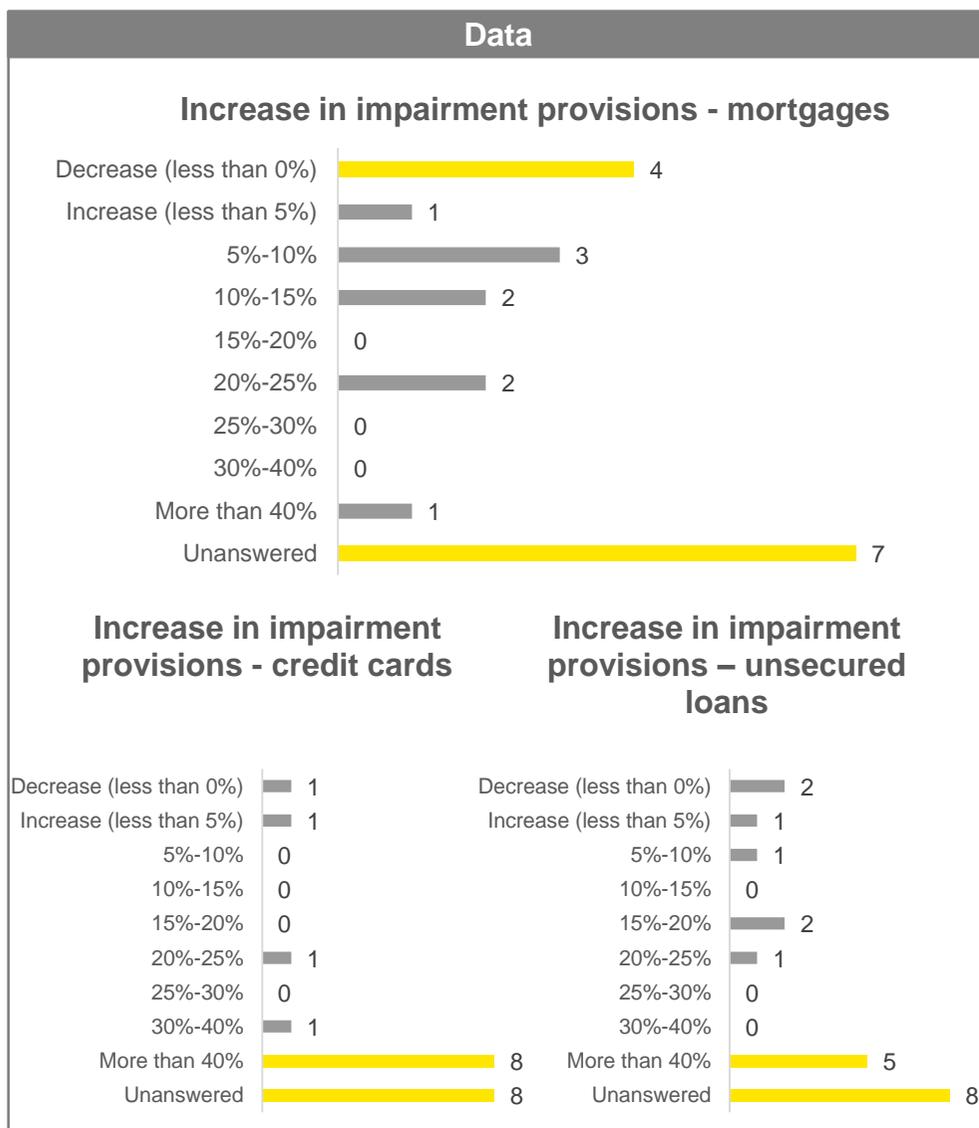
1. Impact assessment – impairment provisions

Percentage increase in impairment provisions on transition to IFRS 9



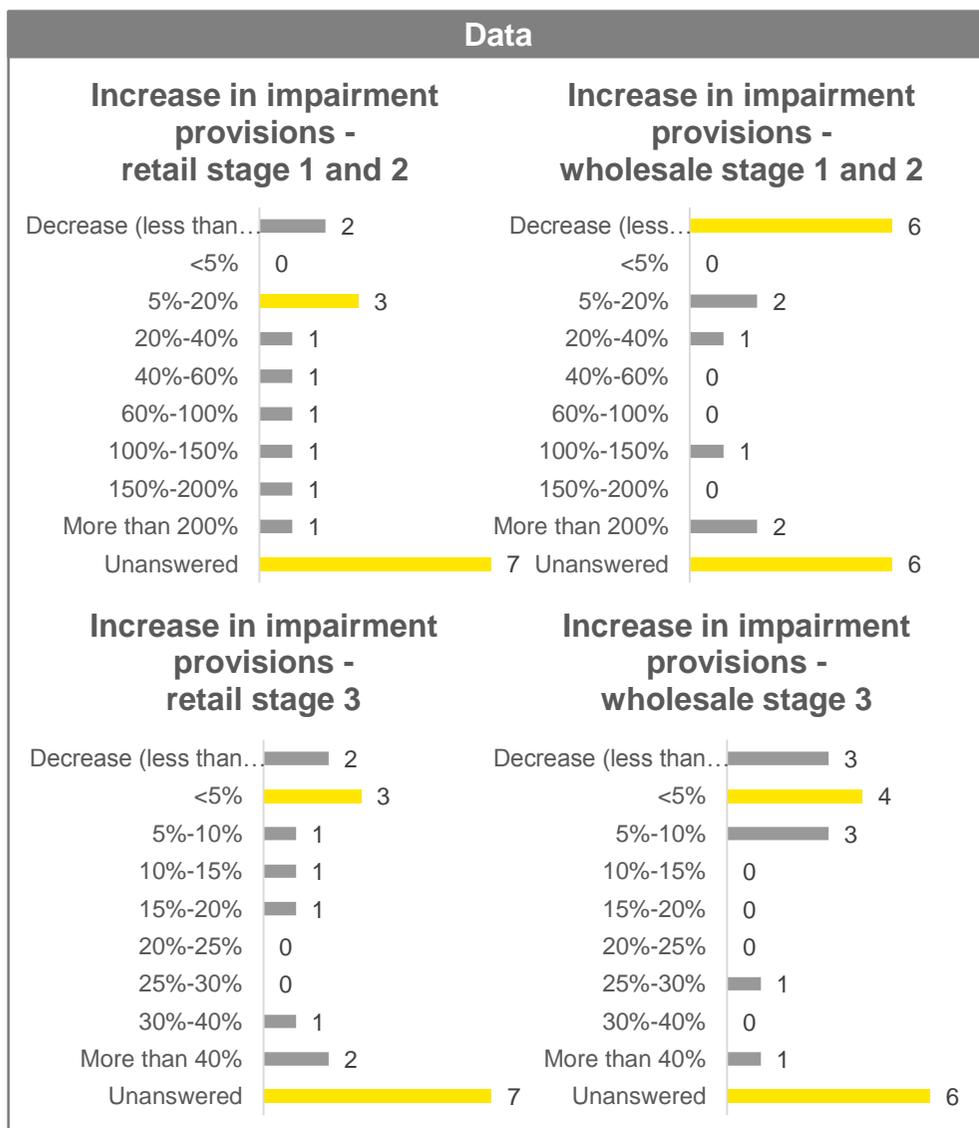
1. Impact assessment – impairment provisions

Percentage increase in impairment provisions on transition to IFRS 9 – retail products

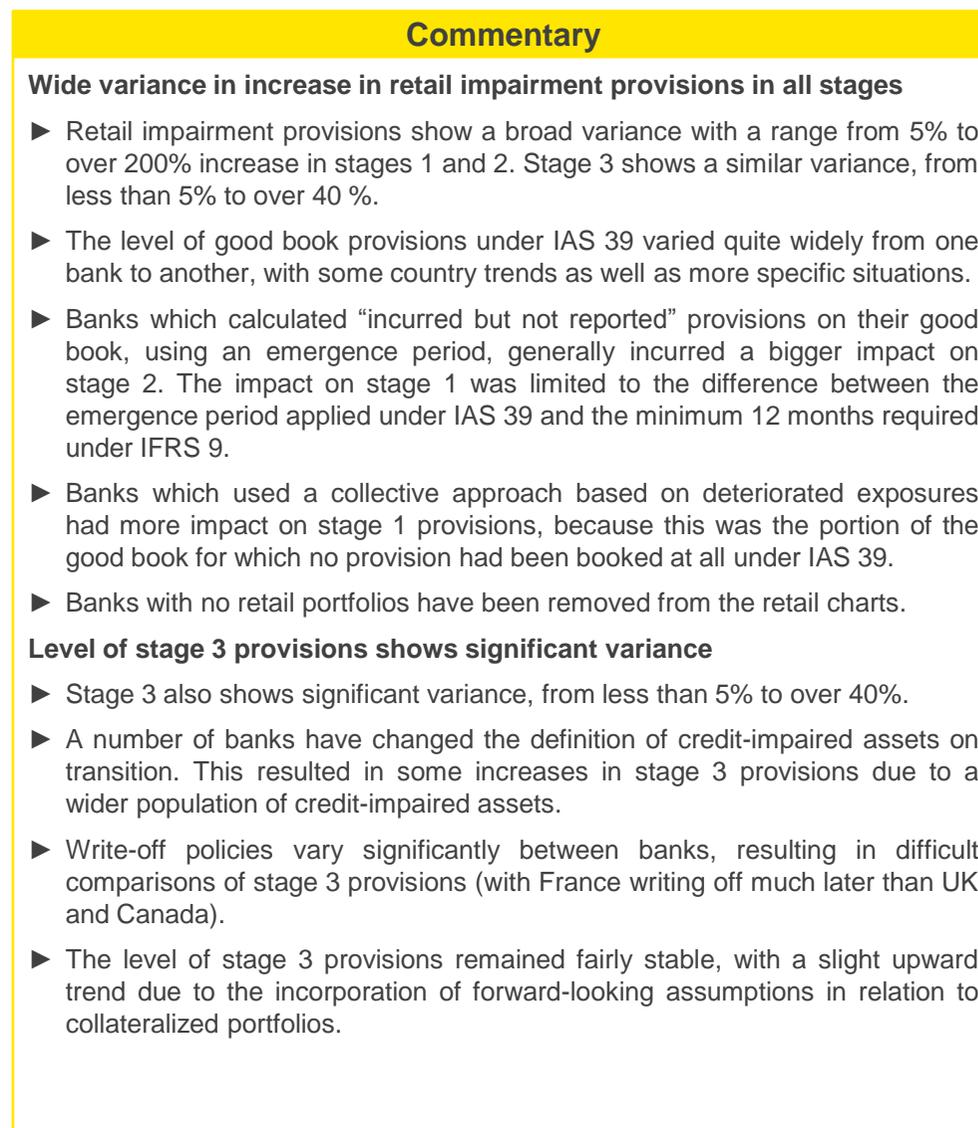


1. Impact assessment – impairment provisions

Percentage increase in impairment provisions on transition to IFRS 9 – by stage

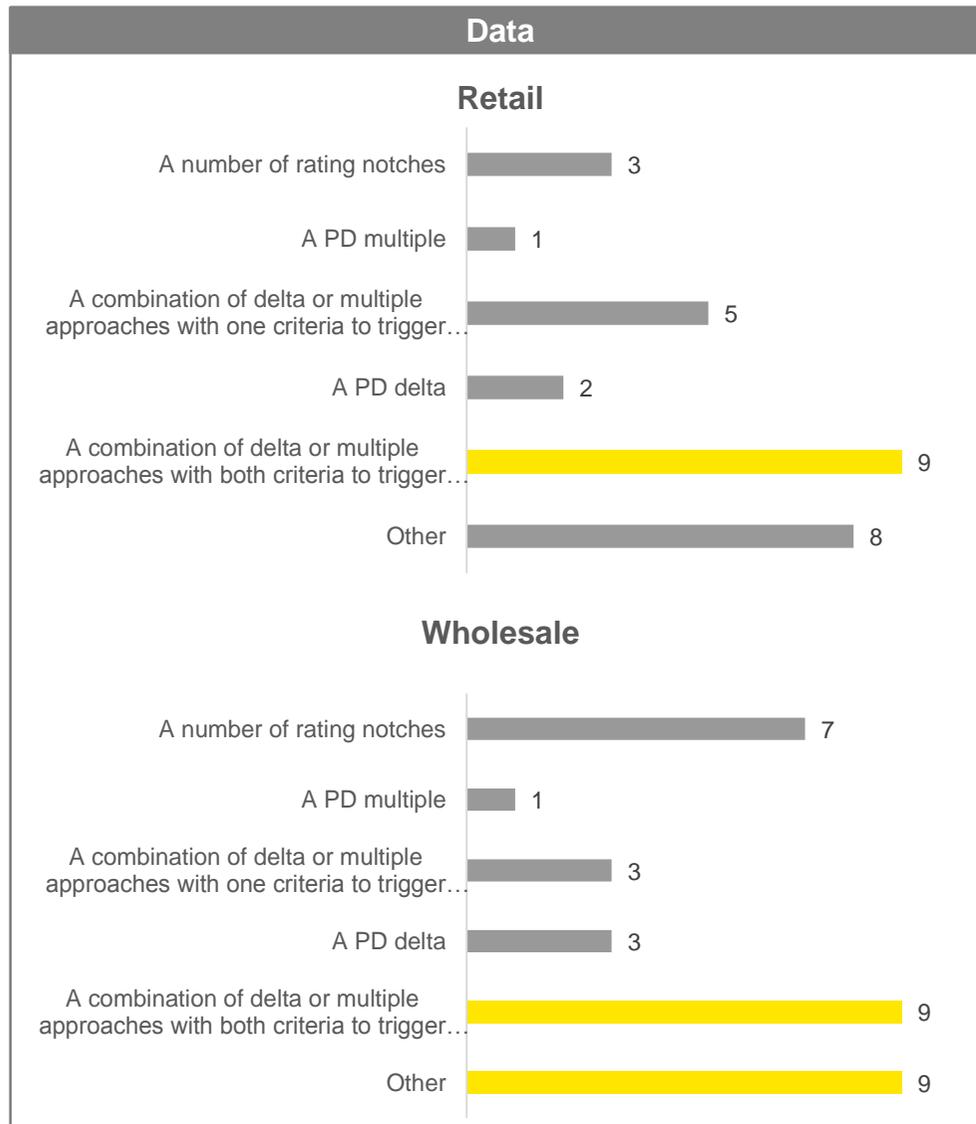


Note - banks with no retail portfolios have been removed from the retail charts



1. Impact assessment – impairment provisions

Significant thresholds for retail and wholesale exposures



Commentary

Similar range in methods used to determine significant thresholds for retail portfolios

- ▶ Most banks are using a combination of PD delta or multiple approaches with both criteria to trigger stage 2. A smaller number are using multiple approaches but only one criteria is required to trigger stage 2.
- ▶ Three banks are using a number of rating notches to determine the threshold for retail stage 2, with one bank using a PD multiple and two using a PD delta.
- ▶ The variance is similar in wholesale portfolios, with nine banks using a number of rating notches, one using a PD multiple and three using a PD delta. Three banks are using multiple approaches with one criteria triggering stage 2 and nine banks are using multiple approaches with both criteria triggering stage 2.
- ▶ Eight banks have chosen different thresholds for retail portfolios and nine for wholesale. These thresholds include PD deterioration, forbearance, or a combination of delta and notches e.g. “rating notches for existing portfolio and combo of delta and multiple for new exposures”.
- ▶ The understanding of significant thresholds has changed from last year’s survey, when calibration was very much a work in progress as banks tested different sets of triggers.
 - ▶ Four banks were planning to use a PD multiple last year, and only one has continued with this threshold.
 - ▶ Only two banks planned to use a combination of delta or multiples approaches with one criteria triggering stage 2 – five banks are now using this approach.
 - ▶ Fourteen banks planned to use a combination approach with both criteria triggering stage 2 – only nine are now taking that approach.
 - ▶ Only three banks planned to use a different approach last year – this has now risen to eight.

1. Impact assessment – stage allocation

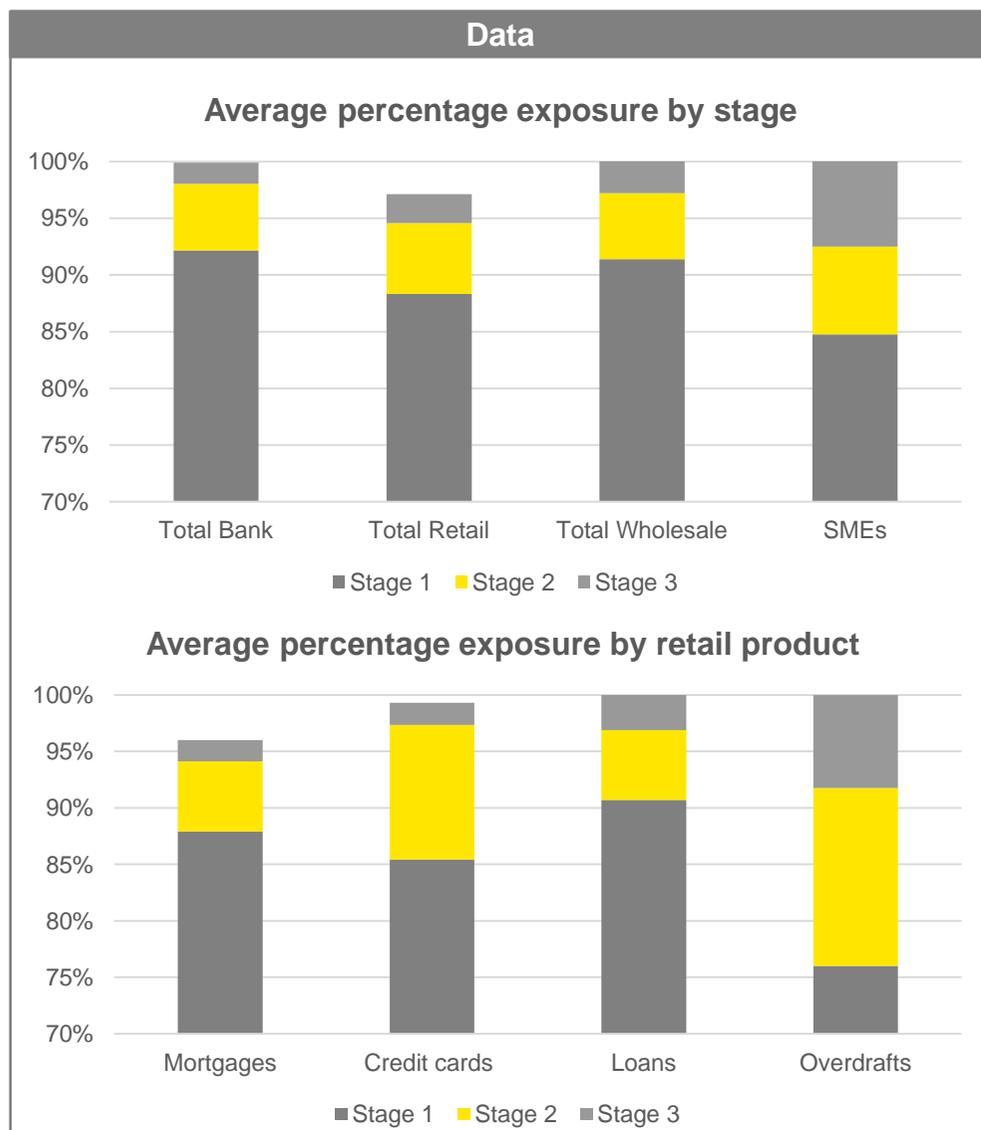
Expected percentage exposure in each stage

Data			
Expected exposure by stage – total bank			
	Stage 1	Stage 2	Stage 3
Bank A	92.9%	6.4%	0.7%
Bank B	95.0%	4.0%	1.0%
Bank C	93.0%	4.0%	3.0%
Bank D	94.0%	5.0%	1.0%
Bank E	74.0%	12.0%	14.0%
Bank F	89.0%	8.0%	3.0%
Bank G	90.0%	7.0%	3.0%
Bank H	95.0%	4.0%	1.0%
Bank I	96.4%	3.0%	0.6%
Bank J	92.0%	7.0%	1.0%
Bank K	94.0%	5.0%	1.0%
Bank L	96.0%	4.0%	0.0%
Bank M	93.1%	6.6%	0.3%
Bank N	93.0%	6.5%	0.5%
Bank O	91.2%	7.0%	1.8%

Commentary			
Approximately 90% of all exposure types are classified as stage 1			
<ul style="list-style-type: none"> ▶ The remainder of exposures are split 8% for stage 2 and 2% for stage 3 assets, with very few exposures classified as purchased or originated credit impaired (POCI). ▶ This applies to both retail and wholesale exposures, and across all asset classes, with retail exposures at 88% in stage 1 and wholesale at 91%. ▶ Overdrafts, credit cards and small and medium enterprises (SMEs) comprise the largest proportion of stage 2 assets in the good book (stage 1 and 2), being on average 17.6%, 12.2% and 8.6% respectively. ▶ Most UK and Canadian banks have 1% (or under) of assets in stage three (only two UK/Canadian banks have more than 1%) – both the UK and Canada tend to write-off earlier than French banks, driving the lower stage 3 provisions. ▶ We would expect to see higher stage 2 and 3 exposures in countries that experienced a greater impact from the global financial crisis and therefore, a higher volume of forbearance and defaults. 			
Stage 2 as a proportion of stage 1 and stage 2 (in percentage)			
	Average	Minimum	Maximum
Total bank	6.17%	3.02%	13.95%
Total retail	6.67%	1.81%	17.24%
Mortgages	6.58%	1.40%	17.24%
Credit cards	12.19%	4.04%	24.74%
Unsecured loans	6.51%	3.03%	12.79%
Overdrafts	17.60%	4.04%	25.88%
Total wholesale	6.01%	1.01%	13.83%
SMEs	8.56%	1.84%	15.96%

1. Impact assessment – stage allocation

Average exposure in each stage and by product



Commentary

Write-off policies will impact the allocations by stage

- ▶ Varying write-off policies will impact the allocations by stage as banks writing off later (i.e. French banks) expect to show larger stage 3 exposure and ECL. Due to banks in the UK and Canada applying earlier write-offs, it is more helpful to focus on the percentage of stage 2 in stage 1 and 2 (see page 14).
- ▶ Canadian, UK and Swedish banks tend to have a higher exposure in stage 1, closer to 95% than 90%.
- ▶ The higher stage 2 for retail products is due to the fact that stage 2 drivers in retail are more sensitive, resulting in higher stage 2 proportions of exposure.
- ▶ We would expect to see a higher exposure in stage 2 for overdrafts vs. other retail products as the triggers for default on overdrafts tend to be more sensitive than other retail products. It is worth noting that only a small number of respondents supplied data on overdraft exposures by stage – with a range from 63% to 95% in stage 1.

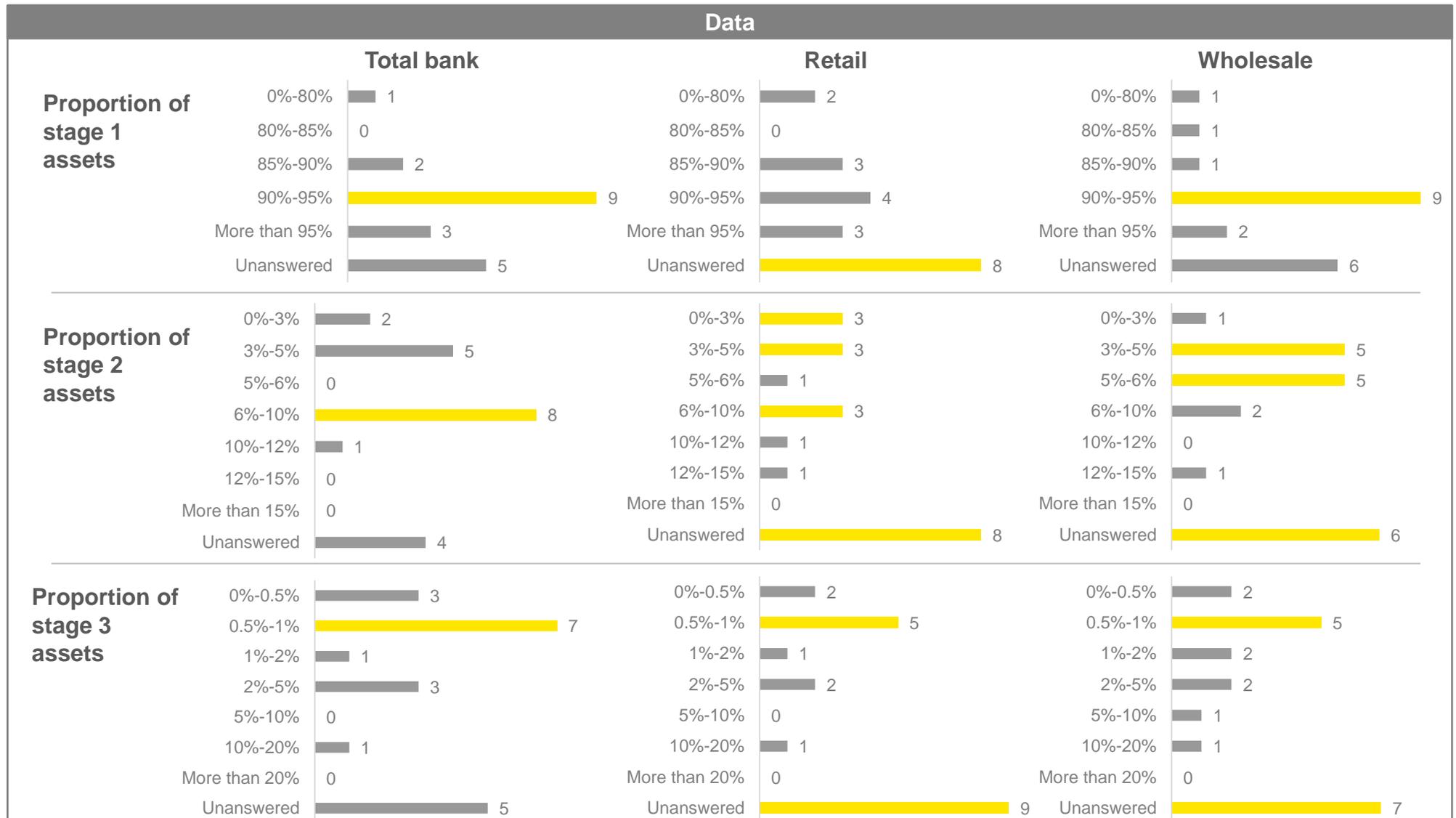
Few banks have changed write-off policy under IFRS 9 compared to IAS 39

- ▶ Most banks have not changed their write-off policy under IFRS 9 compared to IAS 39, where “loans are written off when there is no realistic probability of recovery”.
- ▶ Of the two banks who have changed their write-off policy, one will write-off at the point where the loan enters the legal process and the other has changed only the precision on partial write-off.
- ▶ Eight banks are partially writing-off non-performing loans.

Note – averages have been calculated by stage and not across total exposures and therefore will not necessarily total 100%

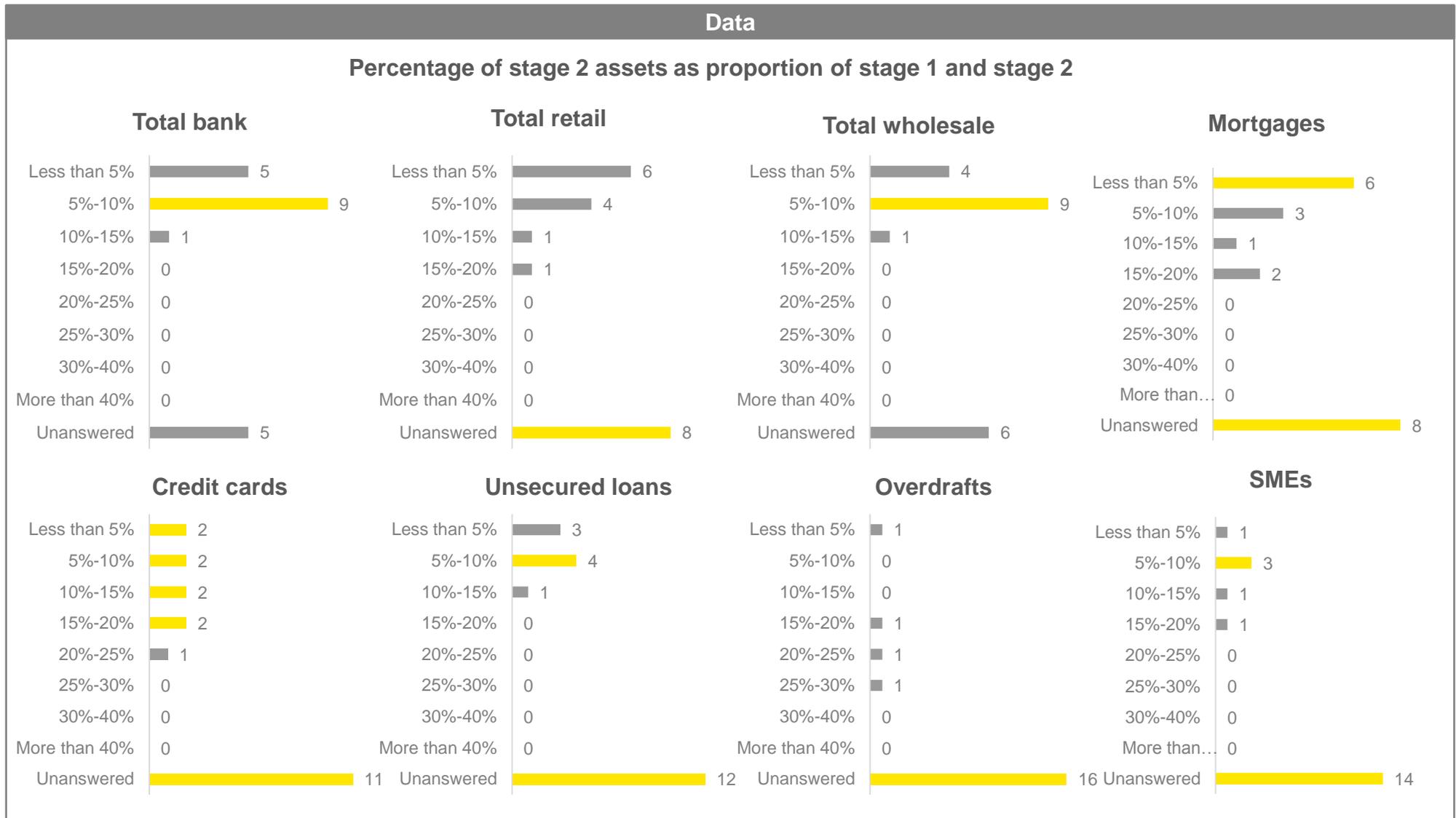
1. Impact assessment – stage allocation

Exposure analysis on transition to IFRS 9



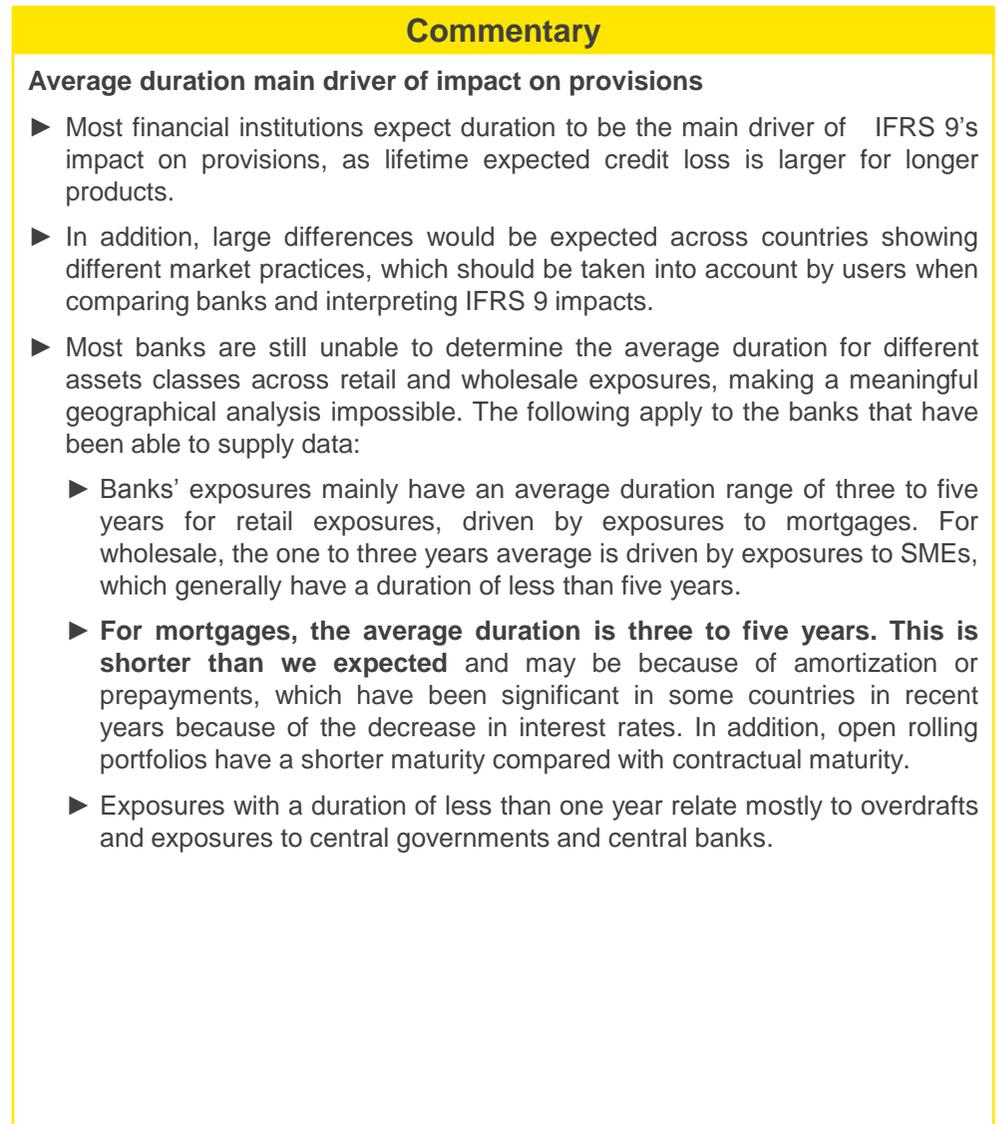
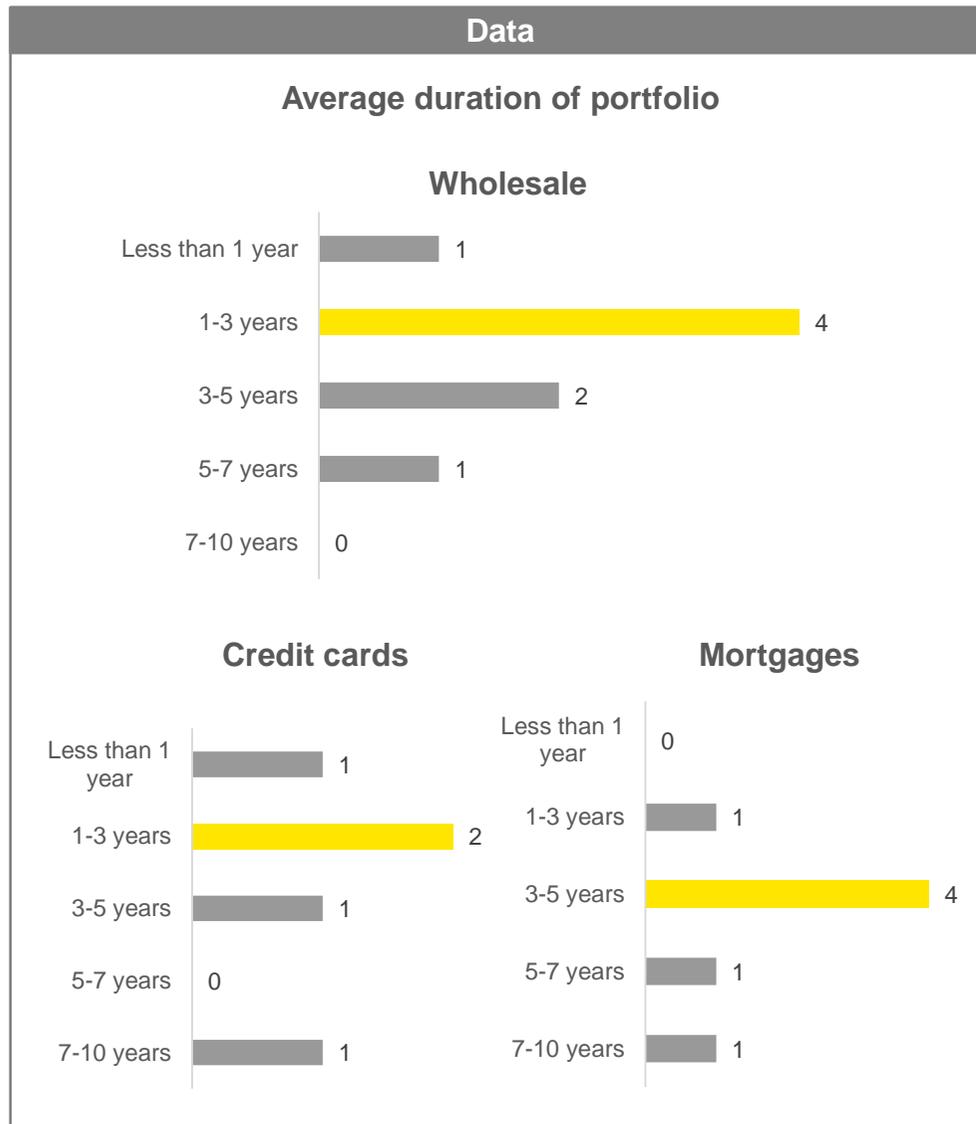
1. Impact assessment – stage allocation

Exposure analysis on transition to IFRS 9 (continued)



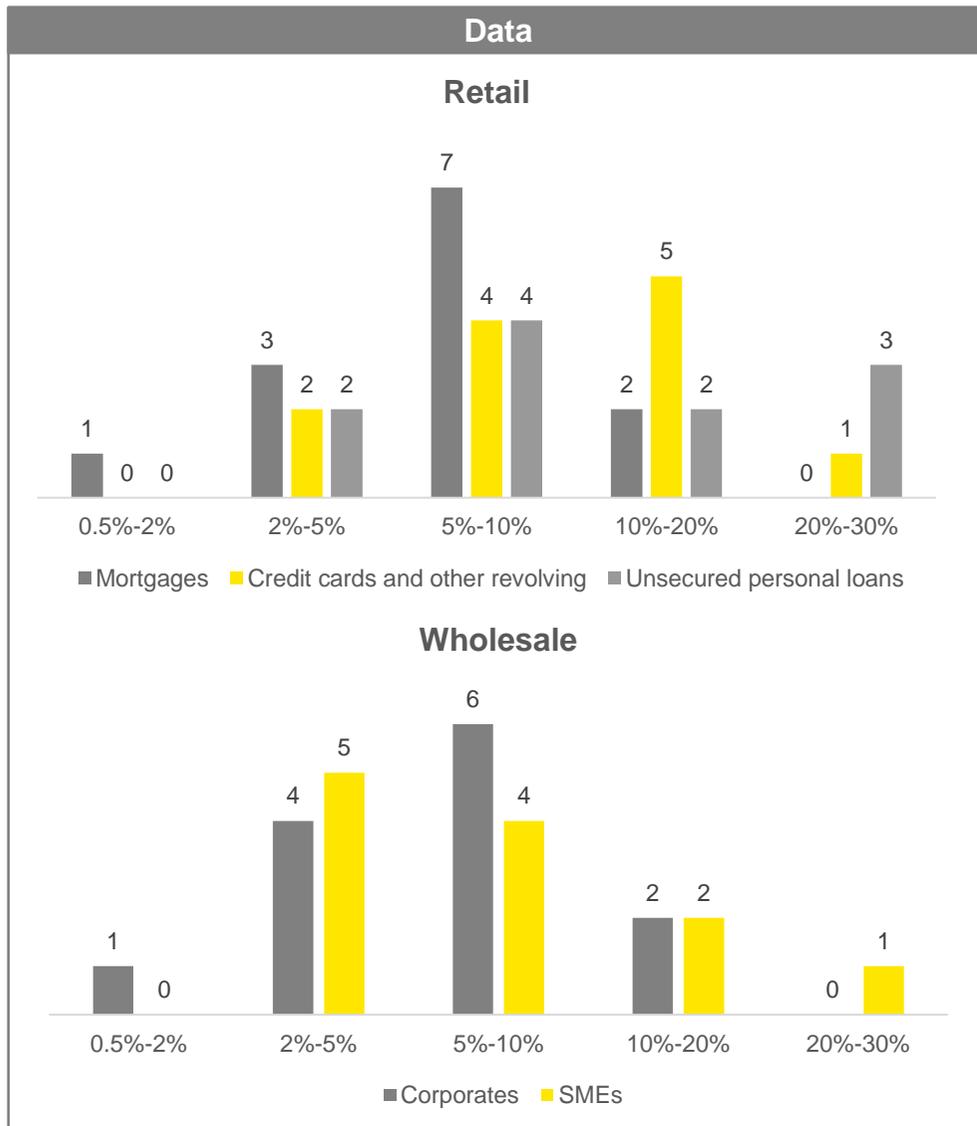
1. Impact assessment – stage allocation

Duration analysis on transition to IFRS 9



1. Impact assessment – stage allocation

Portfolio average probability of default (PD) for stage 2 on transition



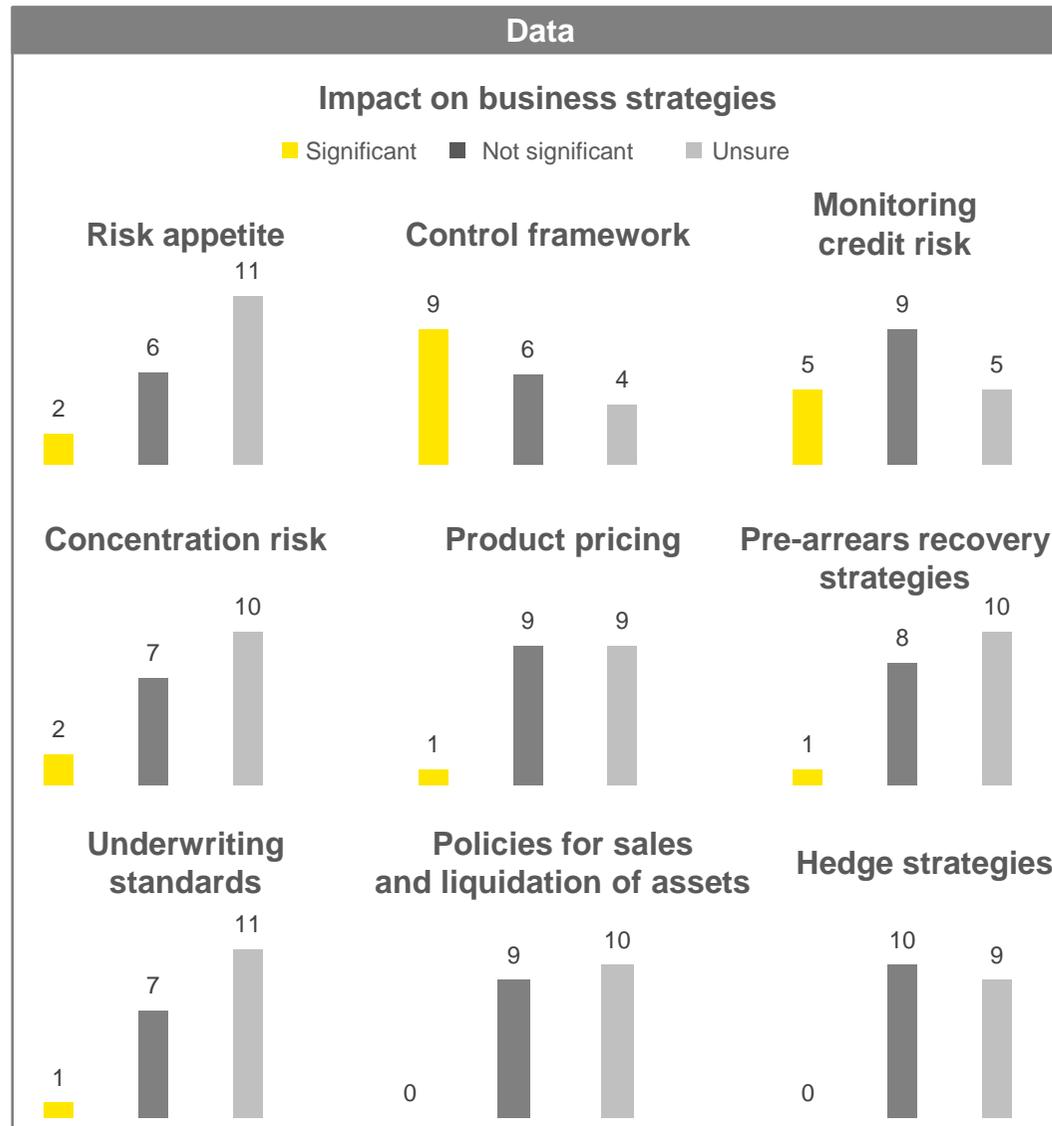
Commentary

Divergence in retail exposures with a PD range of 0%-30%

- ▶ The average 12-month PD for assets in stage 2 is a simple risk measure to compare the average level of risk sitting within this bucket across banks.
- ▶ Several banks decided not to disclose this metric and others decided to disclose the values only for certain asset classes.
- ▶ Banks that have supplied data generally noted an average of 5%-10% for wholesale exposures. There is divergence in retail exposures with a wide range of 0%-30%.
- ▶ An interesting trend can be seen for mortgages, suggesting that most institutions have similar risks within their stage 2 portfolio. Other products show more variance in the PDs and therefore different levels of risks.
- ▶ SME exposures generally show greater levels of PDs (between 2% and 30%), while corporates are more spread between 0.5% and 10%.
- ▶ Credit card exposures have the highest PDs for the most number of banks with most in the range of 2% to 20%.

2. Operating model

Impact of IFRS 9 on business strategies and controls framework



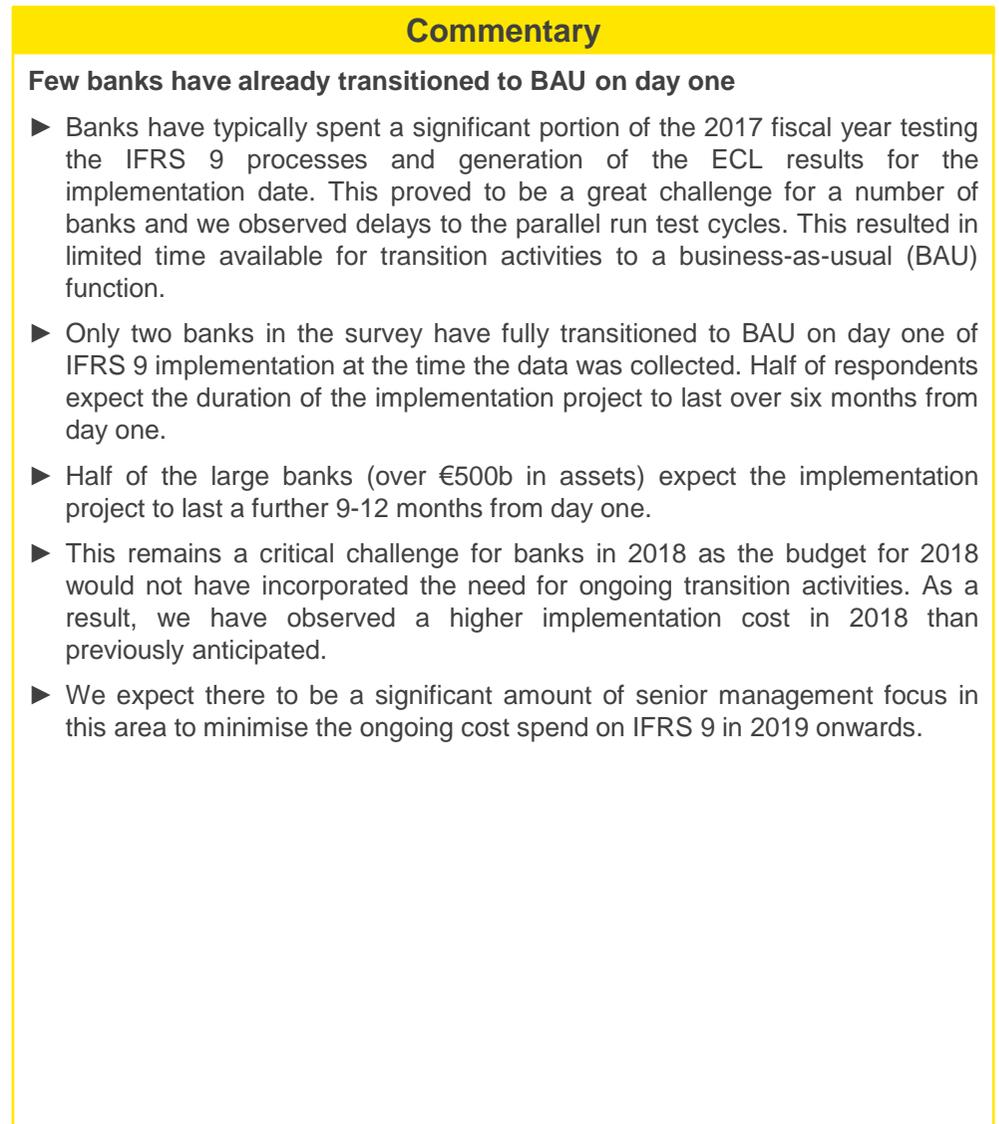
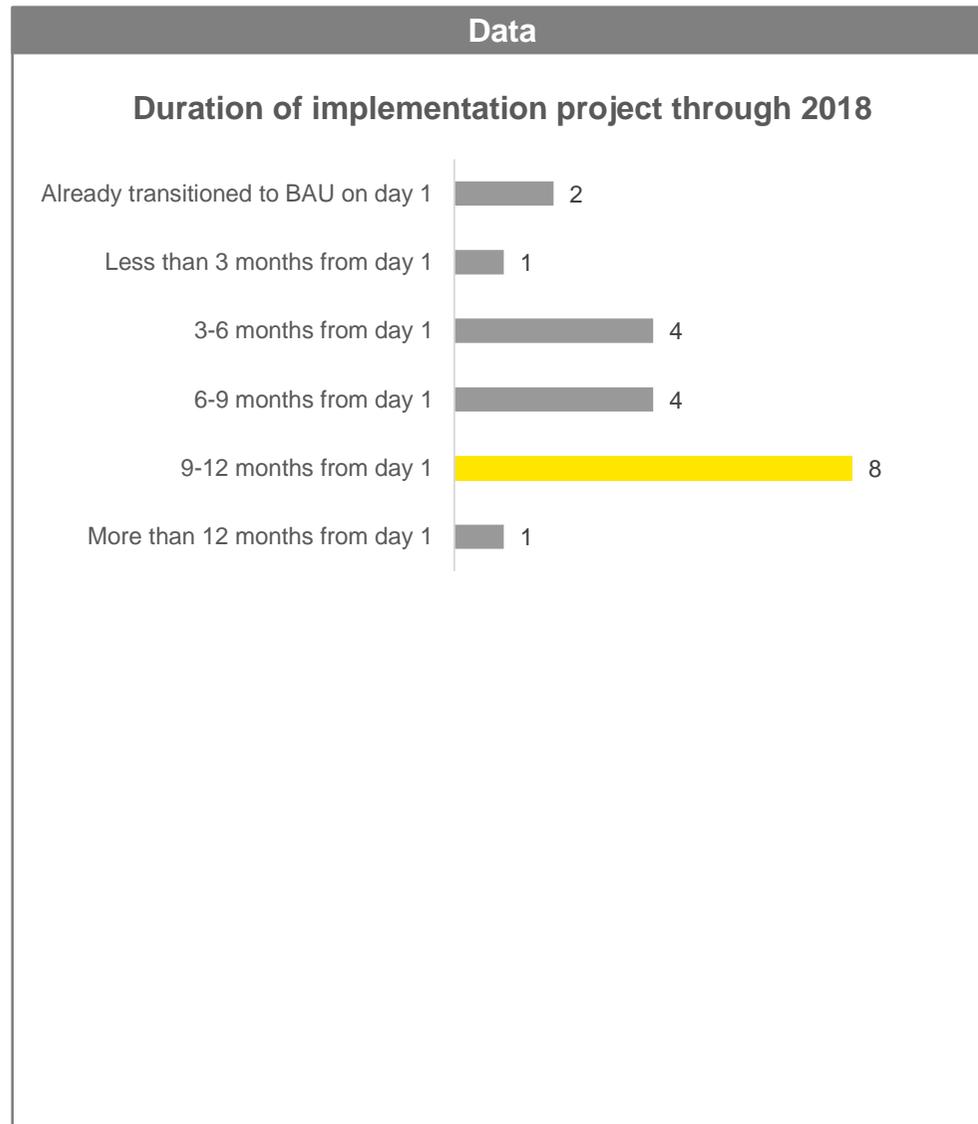
Commentary

The impact of IFRS 9 across process and controls remains a focus point for the majority of banks.

- ▶ The majority of banks have seen significant changes to their control frameworks as a result of IFRS 9 implementation. This includes the introduction of new processes and controls that were typically managed by Risk, as well as enhancements to Finance processes. Banks reporting an insignificant impact to control frameworks have generally had an immaterial impact as a result of adopting the standard.
- ▶ **At the time the data was collected, many banks still remain unsure what the impact of IFRS 9 will be on various business strategies such as product pricing and how credit risk would be mitigated** through the use of additional covenants, increased collateral and granting loans with shorter durations. We expect that as the processes matures and results stabilize, banks will be willing to determine the impact of the IFRS 9 results on these areas.
- ▶ Most banks still need to determine how IFRS 9 will impact risk appetite, underwriting standards and hedging strategies.

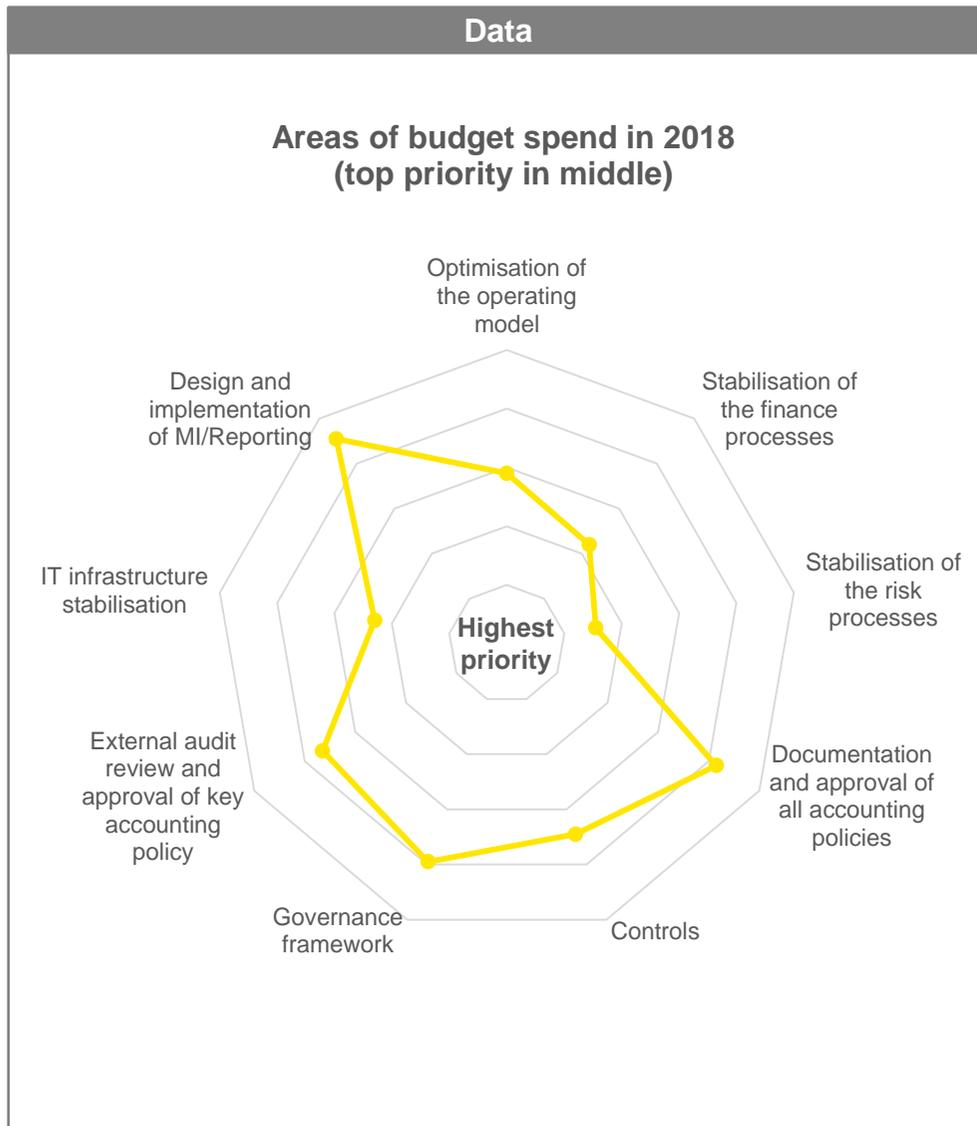
2. Operating model

Duration of implementation project through 2018



2. Operating model

Areas of IFRS 9 which will attract the most spending in 2018



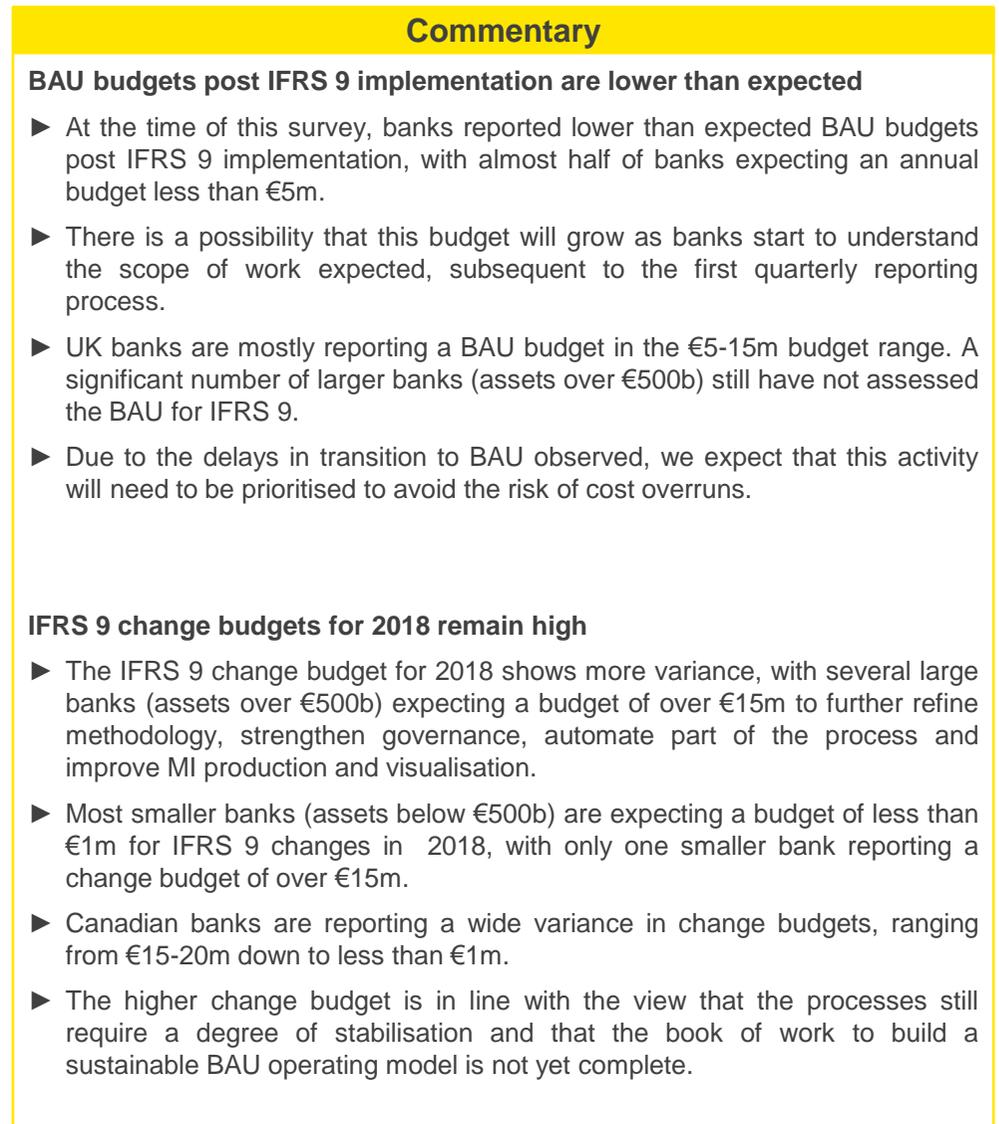
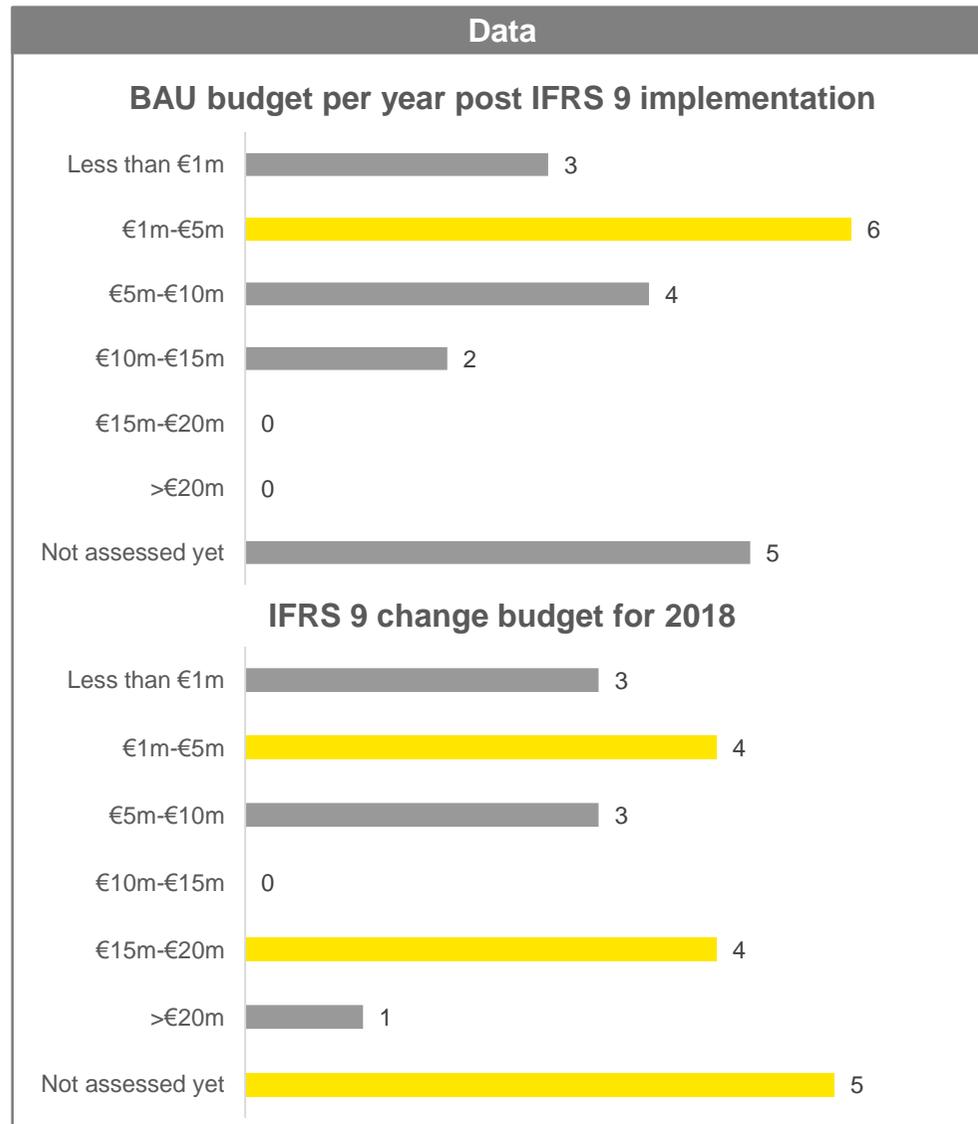
Commentary

Budget spend focused on stabilization of finance, risk and IT

- ▶ The areas of IFRS 9 that will attract the most spending in 2018 are the stabilisation of IT infrastructure, risk processes and finance processes.
- ▶ Most of the larger banks (assets over €500b) see most spend going towards stabilisation of the finance and risk processes.
- ▶ Due to the delays observed in the parallel run cycles in 2017, a number of remediation activities were deferred to the following year. The focus of most of these activities was process optimisation and stabilisation as this would not have posed a material risk to the implementation date activities.
- ▶ At this stage in the IFRS 9 implementation process, we would expect to see the majority of spend going towards the design and implementation of MI/reporting and on the documentation and approval of all accounting policies. However these areas are the ones that will attract the least budget spending in 2018 – indicating that there is still a large amount of work to be done on these elements of the process.
- ▶ We anticipate that as banks start to face additional external pressure from regulators and stakeholders for increased reporting, there will be a shift towards to build of enhanced MI/reporting to meet the needs of users.
- ▶ Additionally, there will be increased pressure from external audit teams for high-quality documentation and reporting to support the 2018 audit process.

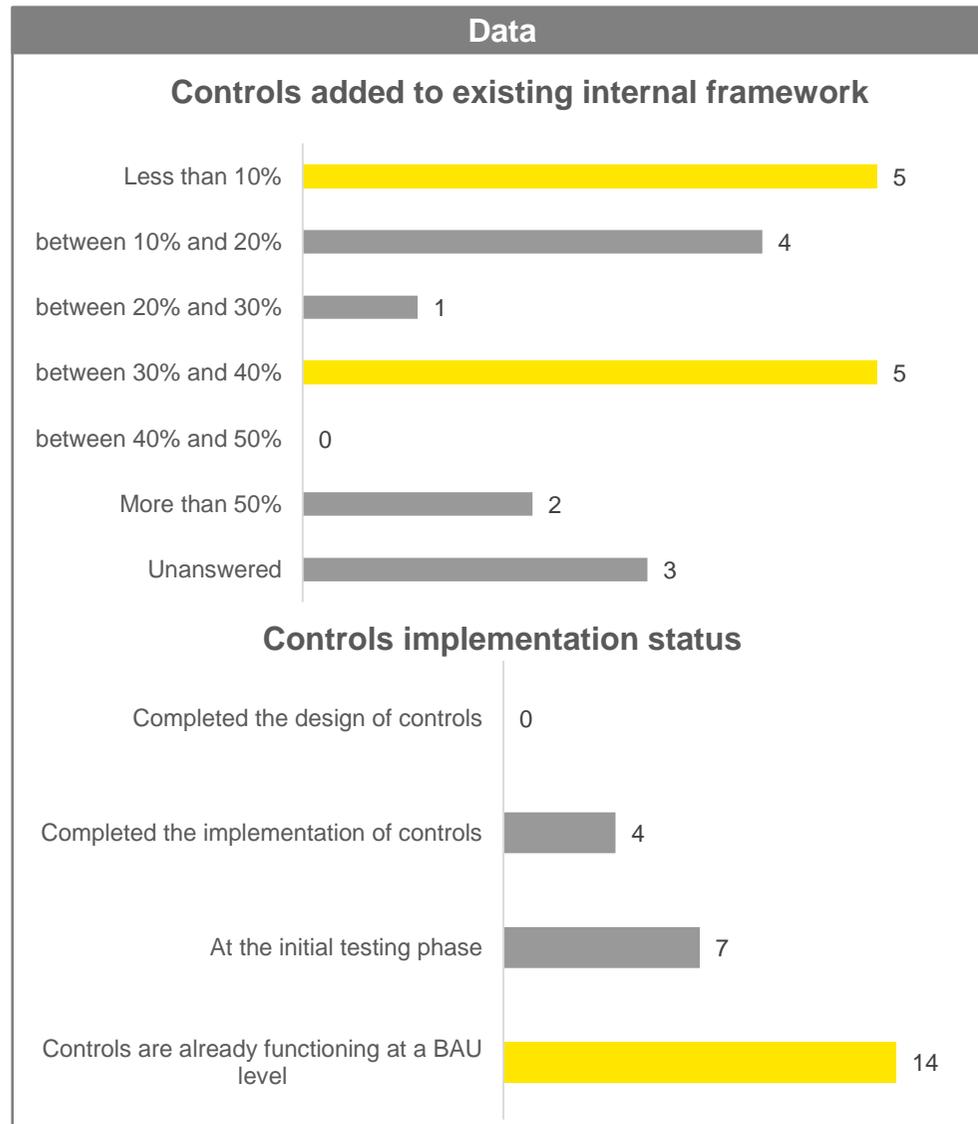
2. Operating model

BAU IFRS 9 budget and expected 2018 change budget



2. Operating model

Controls framework implementation and KPIs measuring operational performance



Commentary

Variance in number of controls added to internal framework

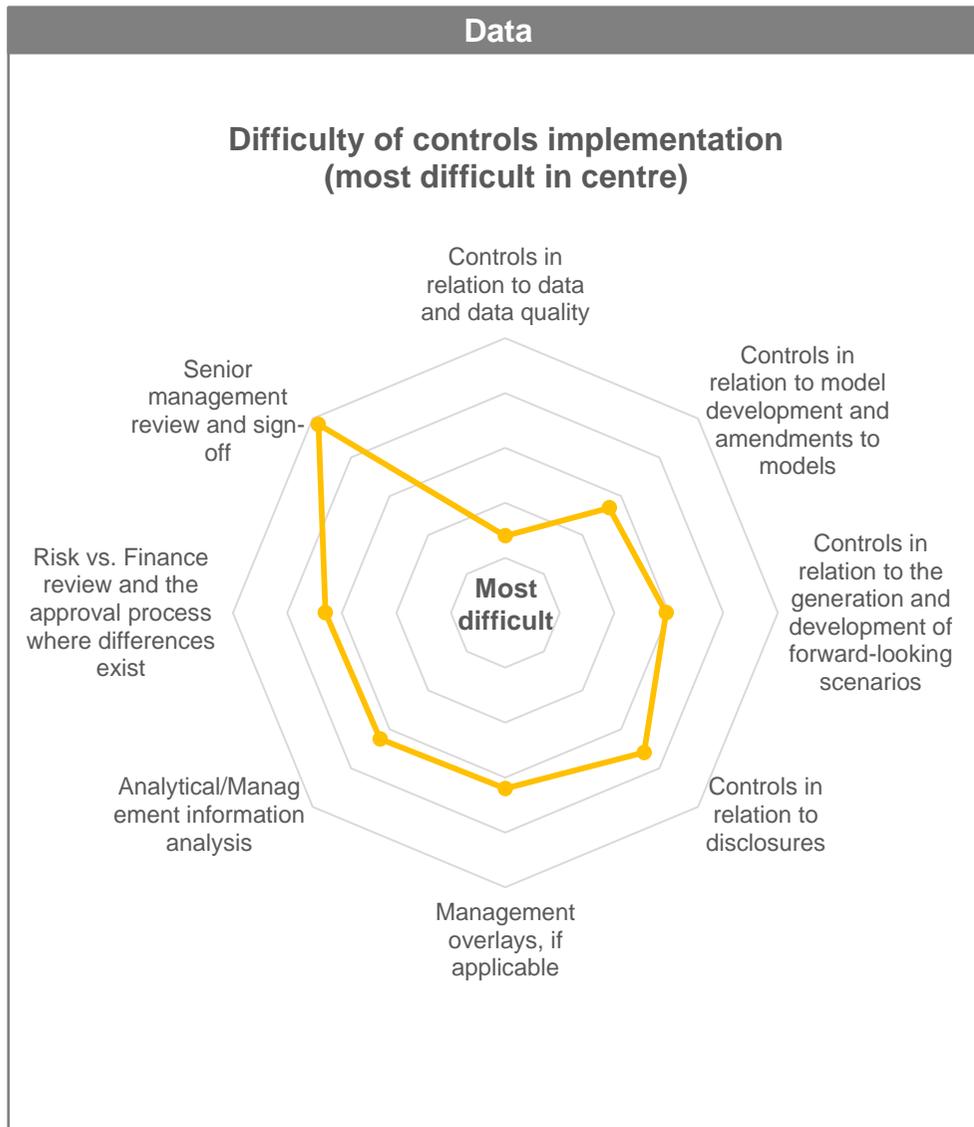
- ▶ Banks are showing a variance when considering the percentage of controls adding to the existing internal framework after IFRS 9 transition. Just under a third of banks have reported adding less than 10%, while the same number have added over 30% to the controls framework.
- ▶ The UK banks have reported varied answers across the full range, from less than 10% with one bank adding more than 50%.
- ▶ Half of the Canadian banks however, had added less than 10% to the controls framework. This is may be due to the advanced SOX processes existing in Canada.

Most banks have IFRS 9 controls already functioning at the BAU level

- ▶ Almost all the banks who are still at initial testing phase for controls are larger banks (over €500b assets). Notably, French banks are still at initial testing phase.
- ▶ With the expectation that external auditors will be focusing on this area in the current year, there will likely be an increase to the level of controls reported in the next six to nine months.
- ▶ Five banks indicated that some controls are already functioning at a BAU level while others are still in the testing and implementation phases and therefore provided more than one status.

2. Operating model

Difficult elements in implementing controls framework



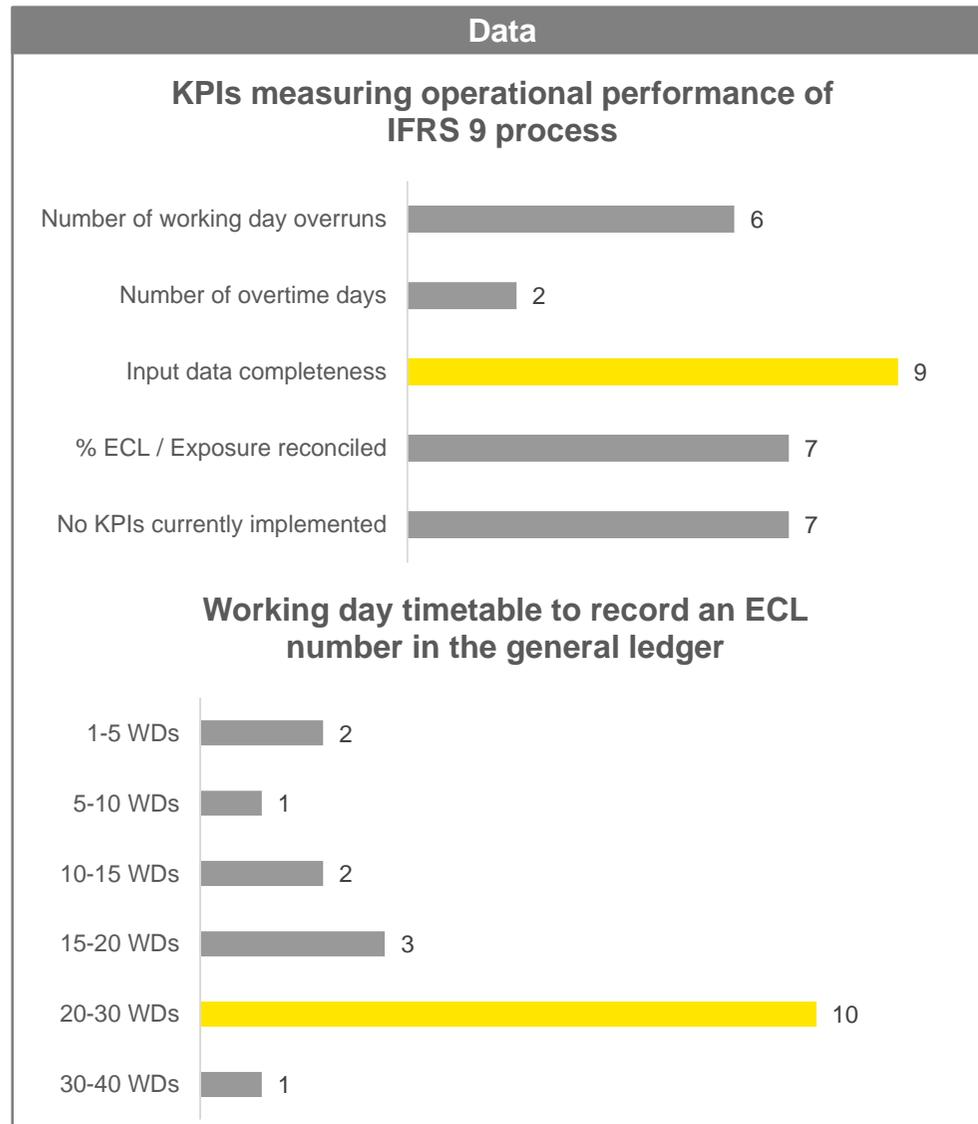
Commentary

Data controls is the most difficult element of controls implementation

- ▶ Almost all banks in the survey reported that the most difficult element in implementing the controls framework for IFRS 9 is the controls in relation to data and data quality. Due to the complexity of the standard, the level of data inputs to the calculation process is significantly higher than under previous processes.
- ▶ Establishing an approval process for the reviews by Risk and Finance is viewed as challenging by almost half the banks in the survey.
- ▶ We would have expected to see senior management review and sign-off reported as a more difficult process to implement than results indicate. Given the low priority for budget spend in the area of MI reporting design and implementation, this could indicate that most banks are yet to fully implement this area of the IFRS 9 controls framework.

2. Operating model

KPIs used to measure operational performance of IFRS 9 processes



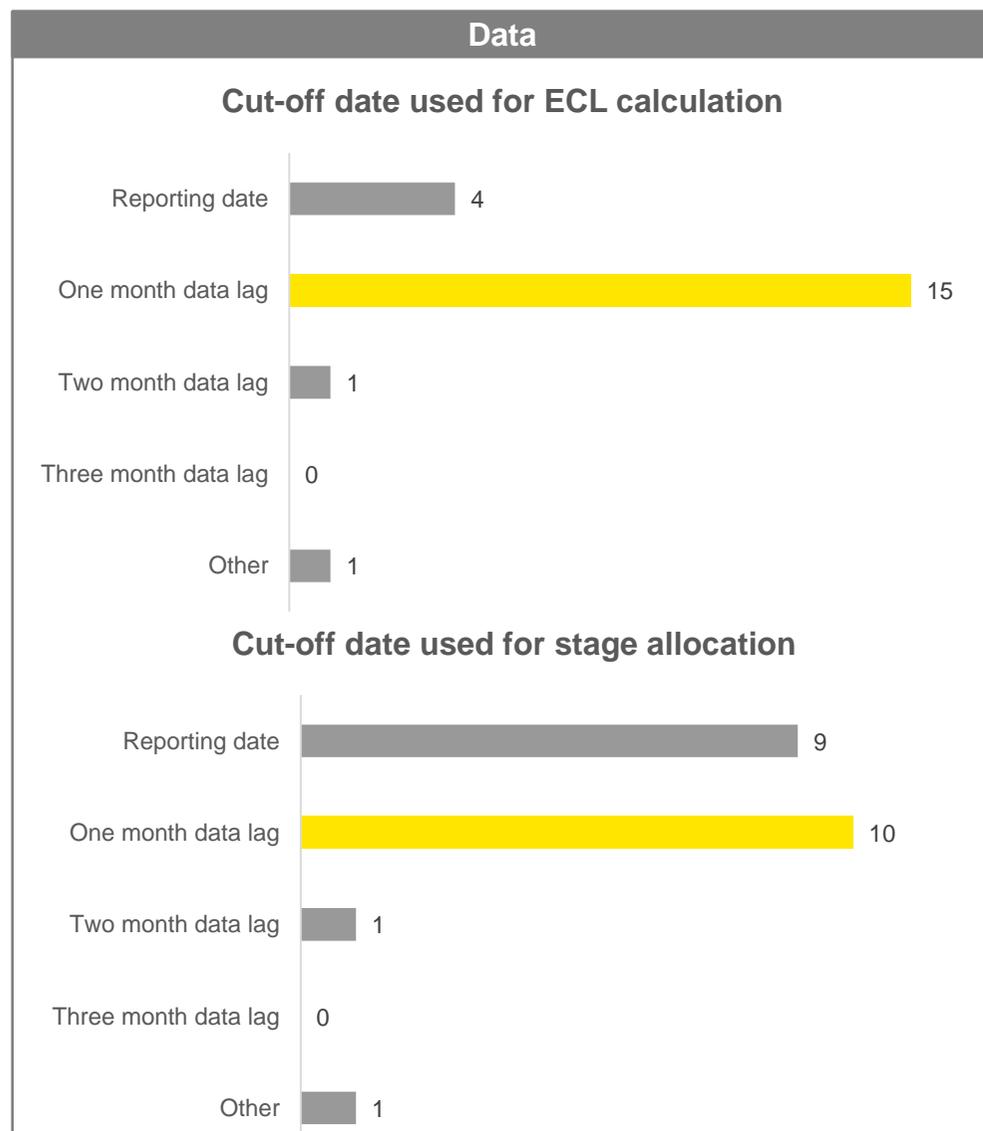
Commentary

Input data completeness is the main KPI used to measure operational performance of the IFRS 9 processes

- ▶ Several banks are using more than one KPI to measure operational performance of the IFRS 9 process.
- ▶ Most banks are using a combination of input data completeness and percentage ECL or exposure reconciled as their main KPIs to measure operational performance of the IFRS 9 processes. Seven banks currently have no KPIs implemented. This view supports the fact that data quality remains a key challenge for governance.
- ▶ Operating timelines is also a focus area as complex and time consuming risk processes are being challenged by strict financial reporting deadline.
- ▶ Half of the Canadian banks are using a combination of input data completeness and percentage ECL or exposure reconciled as the main KPIs.
- ▶ UK banks show more variance, with several using the number of working day overruns as the main KPI.
- ▶ The banks who have other KPIs in place are using the RAG status of IFRS 9 delivery and stabilization and adjustments to model runs and issues resolution.
- ▶ Despite the fact that a number of banks have yet to transition to BAU at the time the data was collected, we did not observe any banks reporting KPIs focused on cost based measures.
- ▶ As banks advance towards stabilising their processes and producing IFRS 9 results efficiently, we expect to see a higher level of KPIs around the processes and control testing results.

2. Operating model

Cut-off dates used for ECL calculation and stage allocation



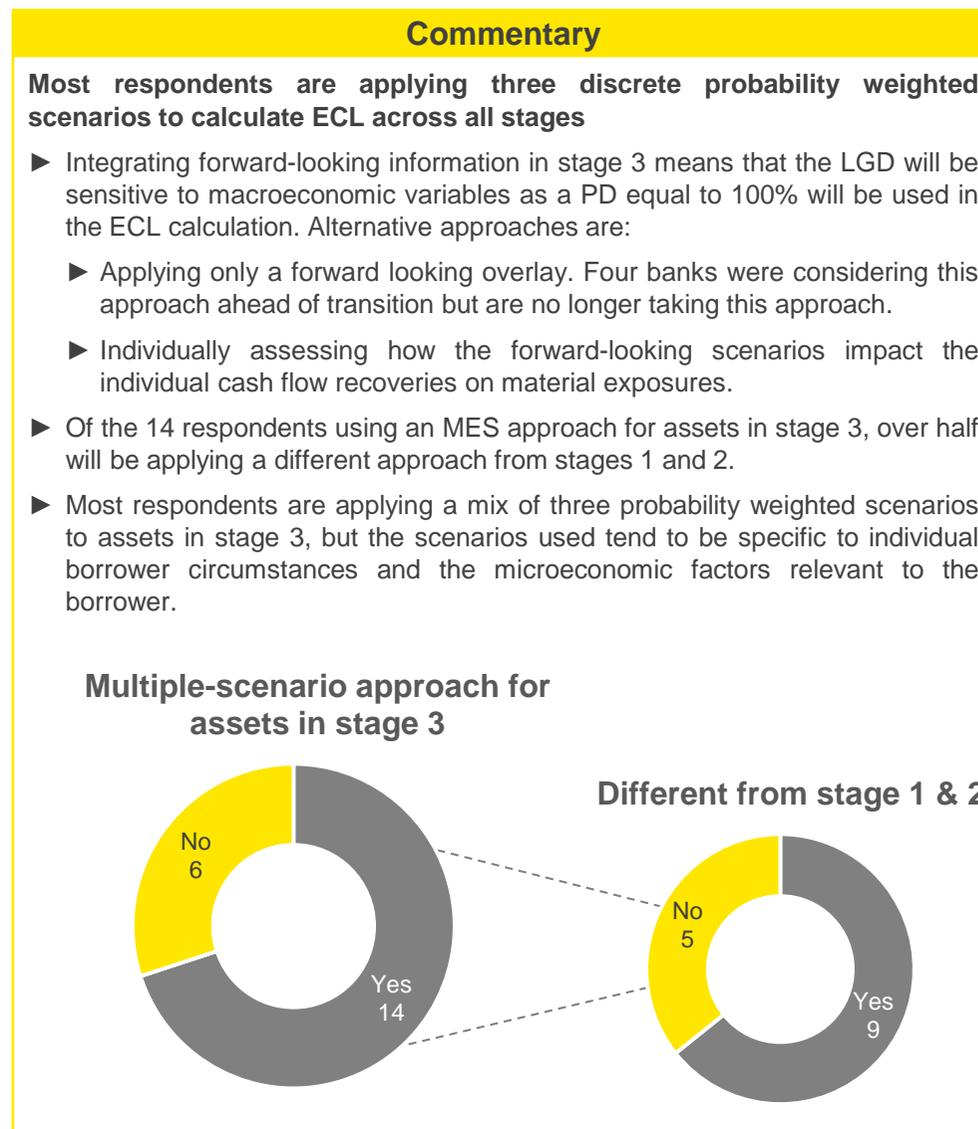
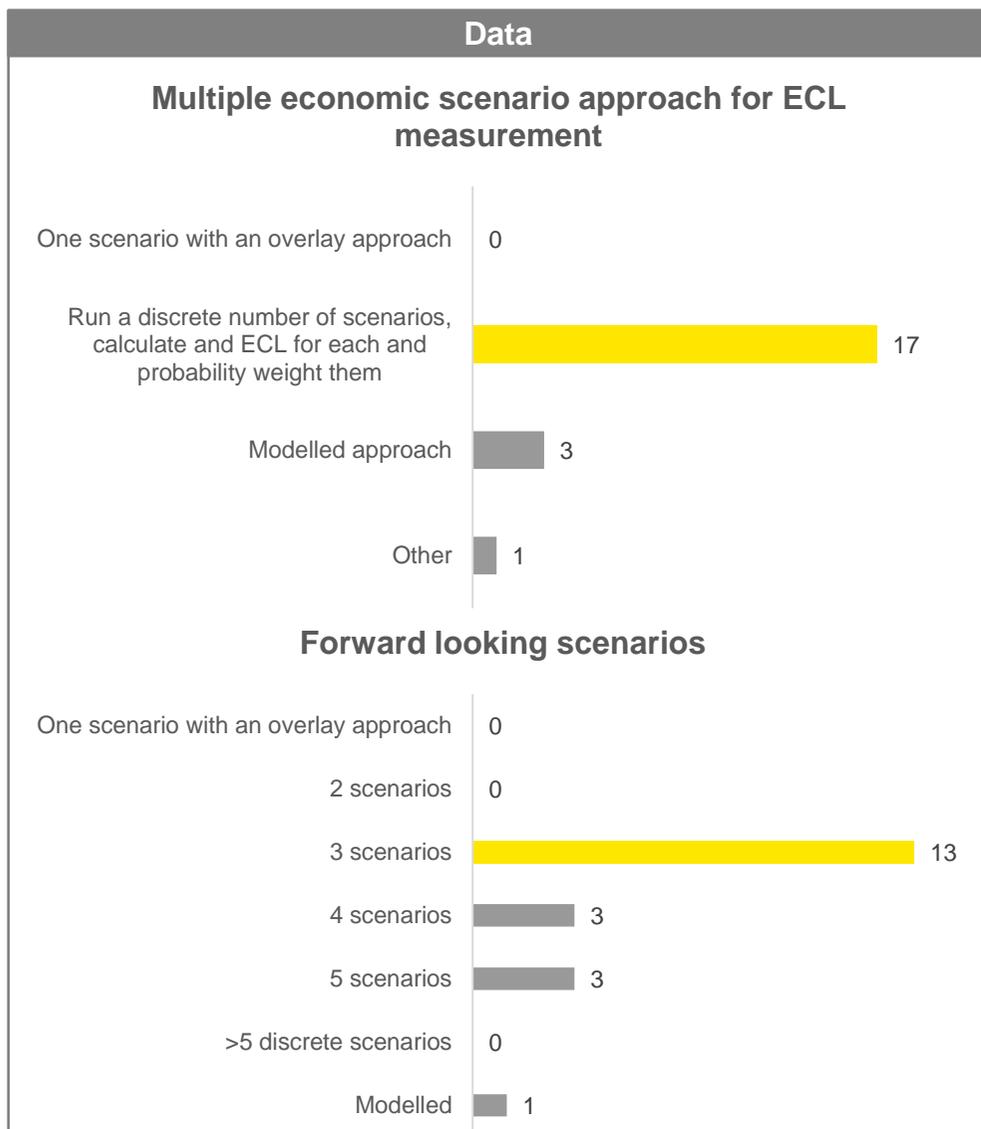
Commentary

A majority of banks continue to report using a one-month lag

- ▶ Almost all will use a one-month data lag for ECL calculation and almost half will use the reporting date for stage allocation.
- ▶ One bank plans to use a two-month data lag for both ECL calculation and for stage allocation while another plans to mix both reporting date and one-month data lag for stage allocation, depending on stage of the assets.
- ▶ At least one-third of banks stated that the reporting date would be used as the cut-off date for both the ECL calculation and stage allocation.
- ▶ **The one-month-or-more data lag approaches may have a significant impact on disclosures and may result in a mismatch between disclosure of exposures versus ECL.**
- ▶ Banks have made significant efforts to build a process to perform a reconciliation of the data used for exposure versus ECL. Banks are using a number of adjustment processes to ensure alignment of disclosures in the movement table.
- ▶ True-up procedures will need to be put in place to assess any material movement that is identified between the one-month lag data and actual period end.
- ▶ The cut-off date used and true-up process would also be subject to controls and external audit scrutiny, resulting in the need for strong governance.

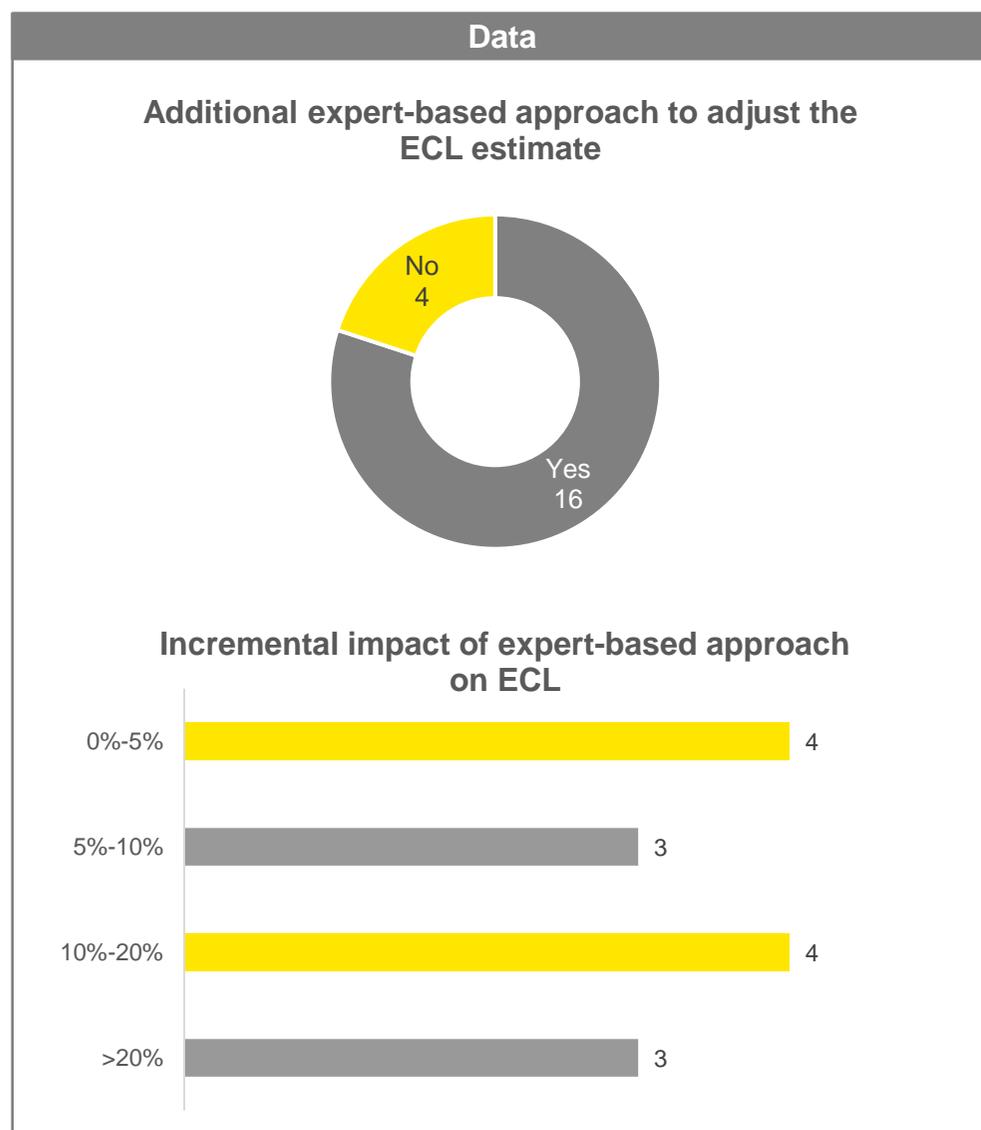
3. Multiple scenario approach

MES on stage allocation and ECL measurement



3. Multiple scenario approach

Expert-based approaches to adjust the ECL estimate



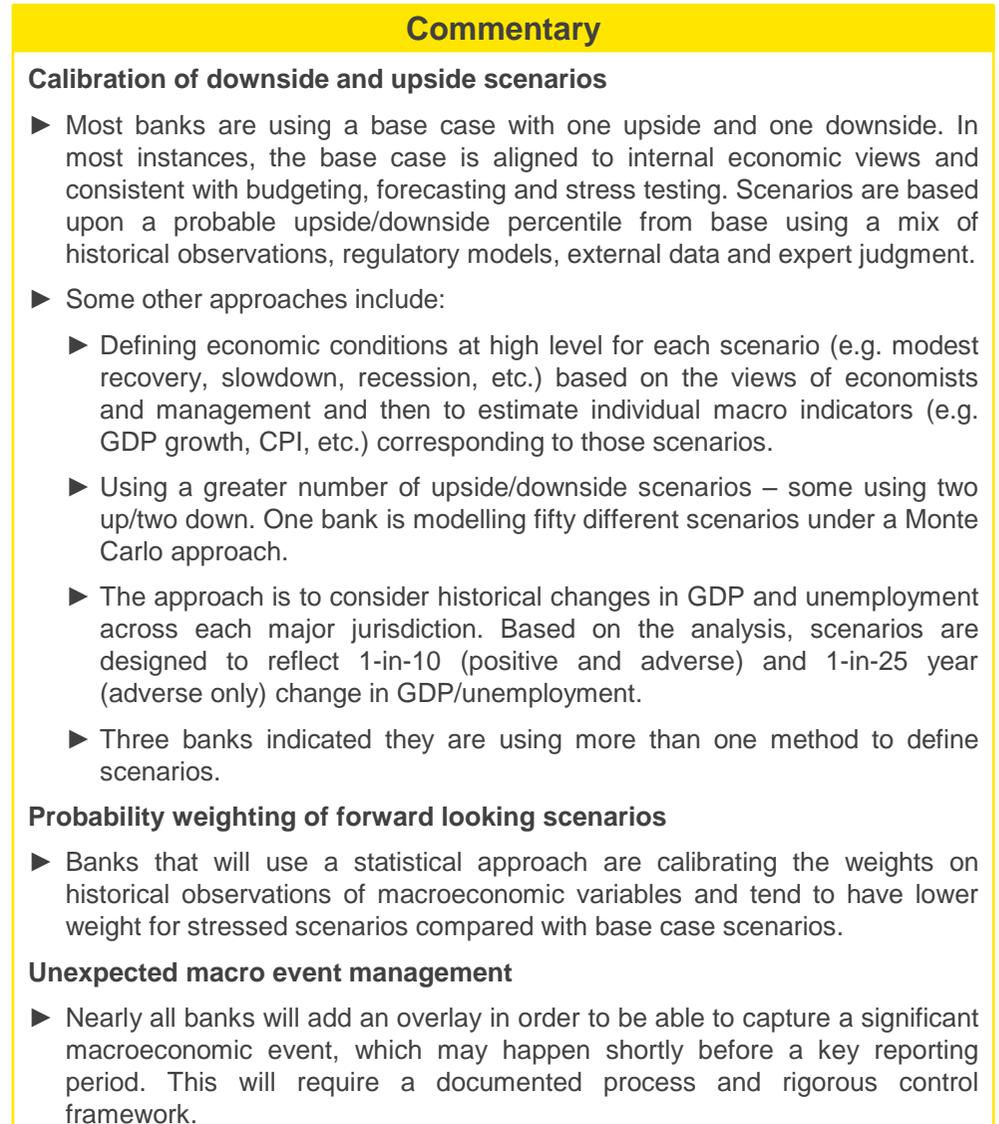
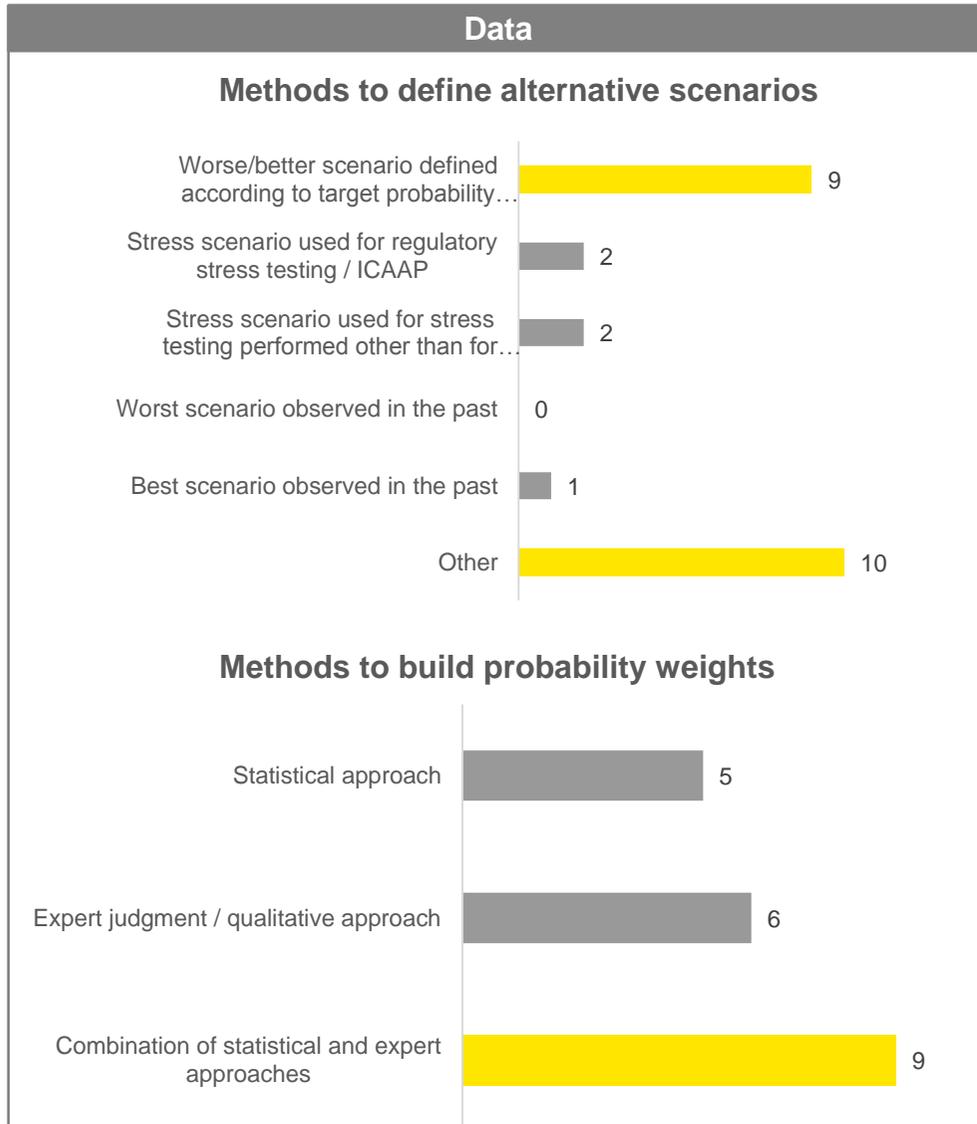
Commentary

Two-thirds of banks will take an additional expert-based approach to adjust the ECL estimate

- ▶ Most banks have designed an additional expert-based approach to adjust the ECL estimate, based on sectors, industries and general economic uncertainty.
- ▶ Almost all UK banks are not taking an expert-based approach, with only one bank opting to do this.
- ▶ Of those who are applying an additional expert-based approach to adjusting the ECL estimate, most are applying sector or country macroeconomic variables on specific local portfolios. This methodology is usually determined on a case-by-case basis.
- ▶ One bank has developed models for each major product grouping which utilise historical credit loss data, to produce PDs for each scenario. An overall weighted average PD is used to assist in determining the staging of financial assets and related ECL.
- ▶ The majority of the banks expect expert judgement adjustment to be less than 20% of the total number. We assume that this number can potentially vary in the future, depending on the severity of the economic scenarios, and when specific geo-political events are expected to take place (e.g. referendums, elections).

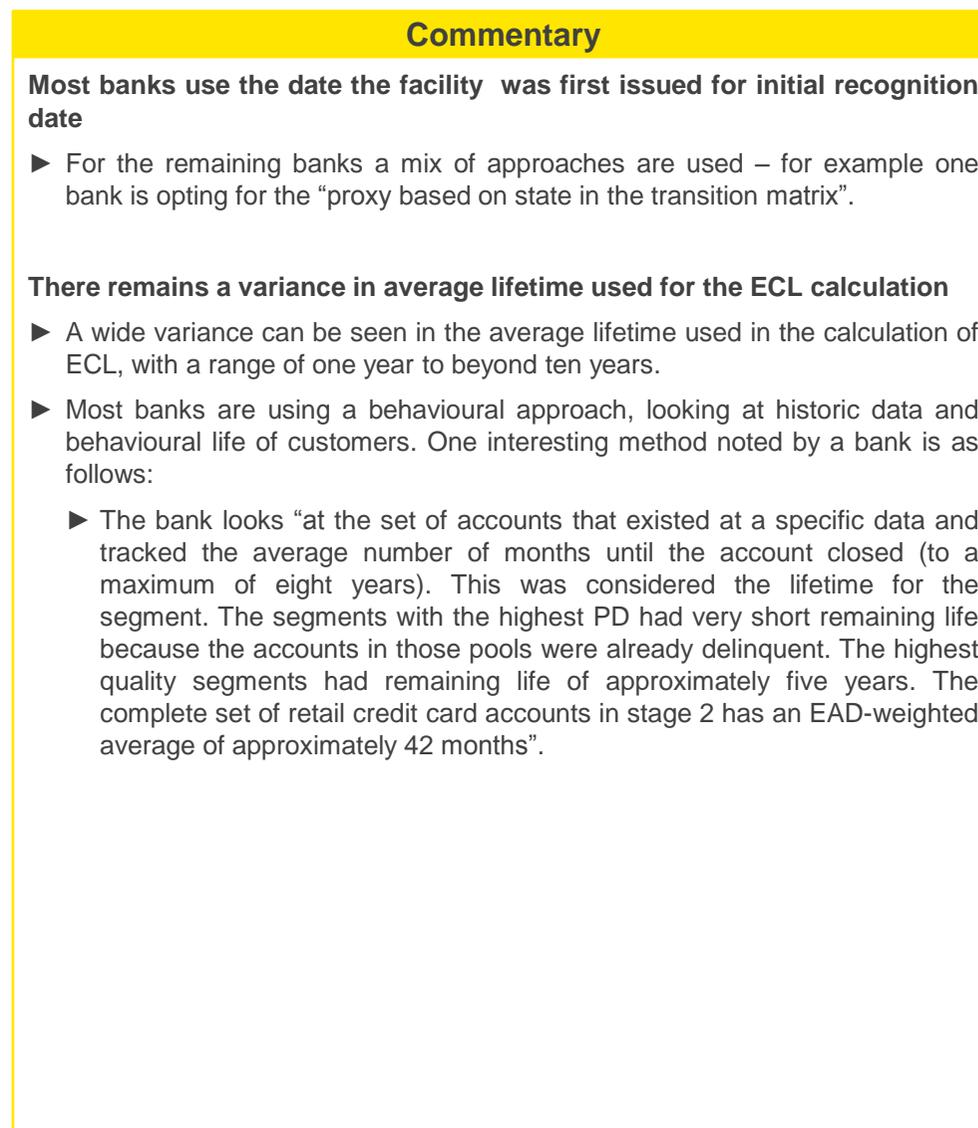
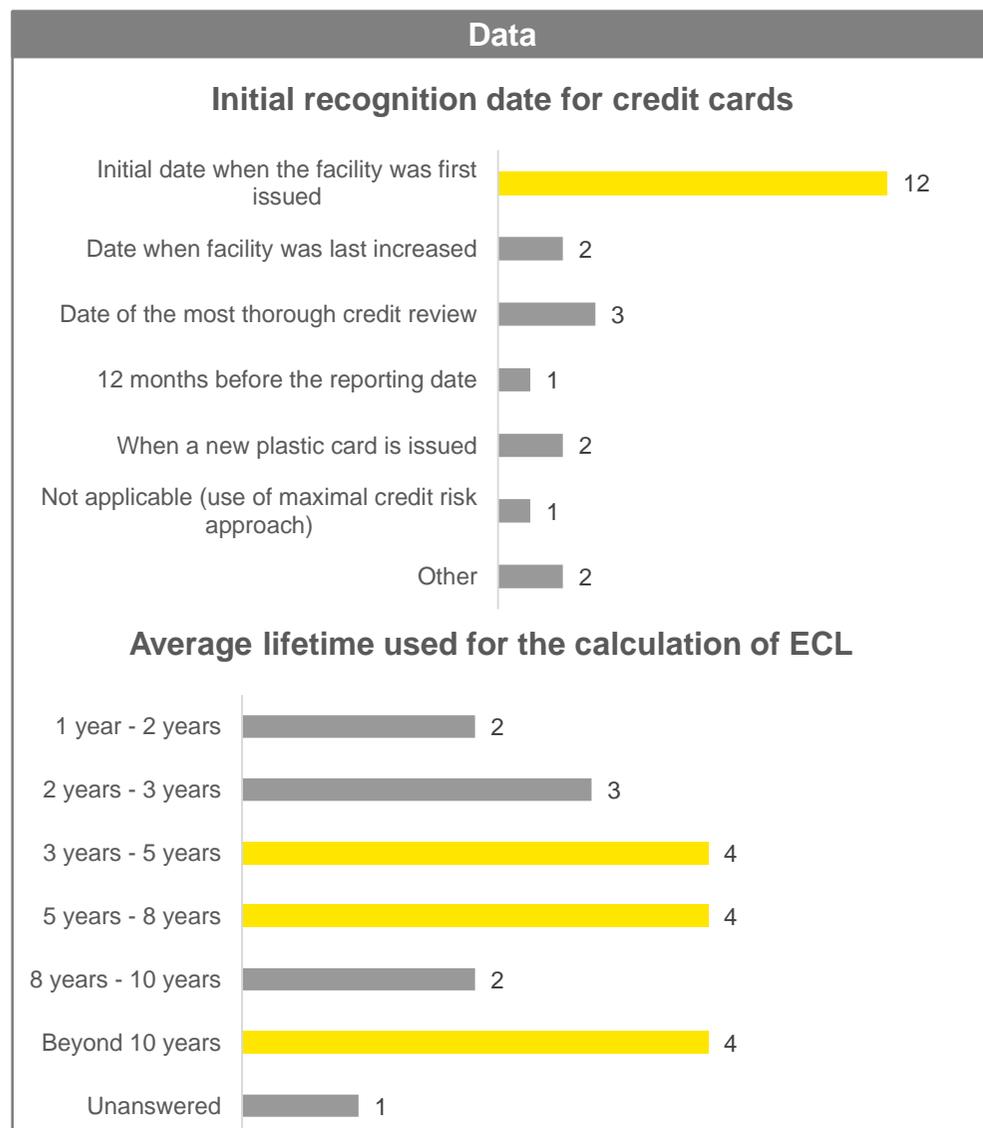
3. Multiple scenario approach

Alternative scenarios



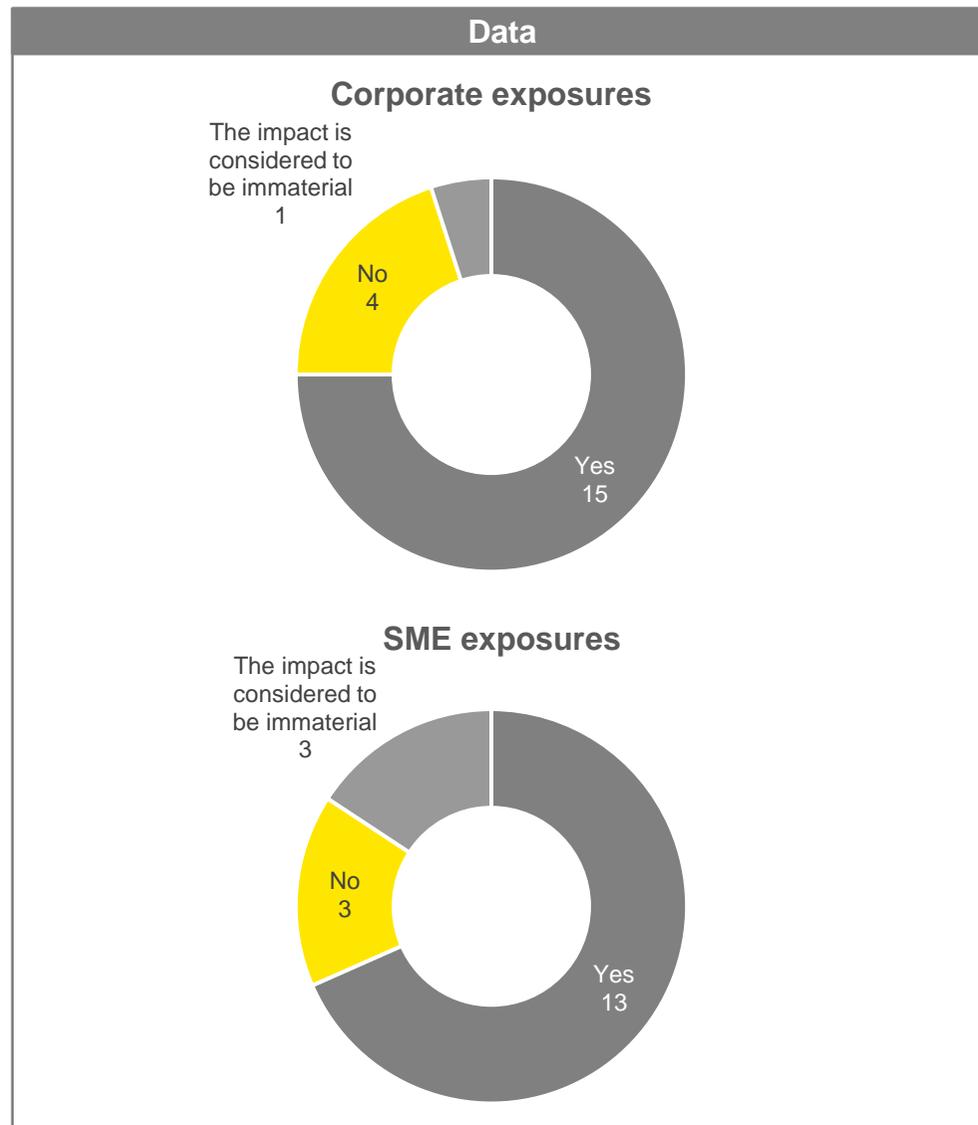
4. Measurement of expected credit loss

Initial recognition date for credit cards and average lifetime used for ECL calculation



4. Measurement of expected credit loss

Have you considered corporate or SME revolving facilities to be in the scope of paragraph 5.5.20?



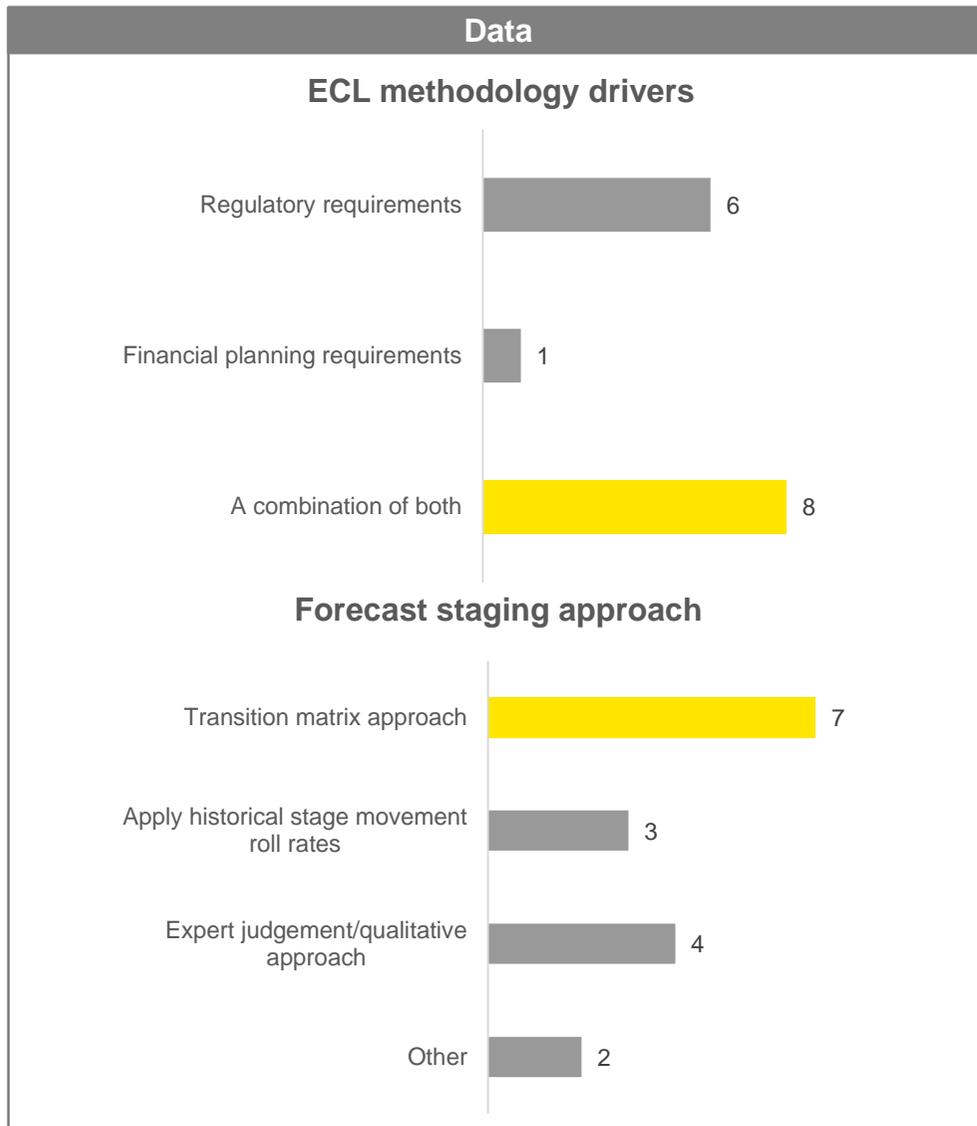
Commentary

Most banks consider corporate or SME revolving facilities to be in scope

- ▶ IFRS 9 Paragraph 5.5.20 of IFRS 9 contains an exception for certain types of financial instruments to measure expected credit losses over the period that the entity is exposed to credit risk, even if that period extends beyond the contractual period. The exception applies to some financial instruments that include both a loan and an undrawn commitment.
- ▶ Most banks are treating corporate and SME exposures as within the scope of the exception. Some examples of the application are:
 - ▶ “For the facilities where bank has the ability to demand repayment and cancel the undrawn commitment, exposure to credit losses is not limited to the contractual notice period. Next credit review date is used instead in most cases”.
 - ▶ “Uncommitted corporate and SME facilities are considered to be in scope of the exemption from the contractual life as they satisfy the core requirements for exception. There are both drawn and undrawn commitment components and our contractual ability to demand repayment and cancel the undrawn commitment does not limit our exposure to the contractual notice period (in this case, one day).”
 - ▶ One of the banks who believe they are not in scope noted that “...the facility cannot be cancelled at short notice, as required by IFRS 9. Also, there is a contractual term over which the bank is committed to provide credit, which objects to the characteristic in IFRS 9 paragraph B5.5.39(a).”

5. Stress testing

ECL projection solution to support financial planning and stress-testing cycles



Commentary

Combination approach to ECL methodology

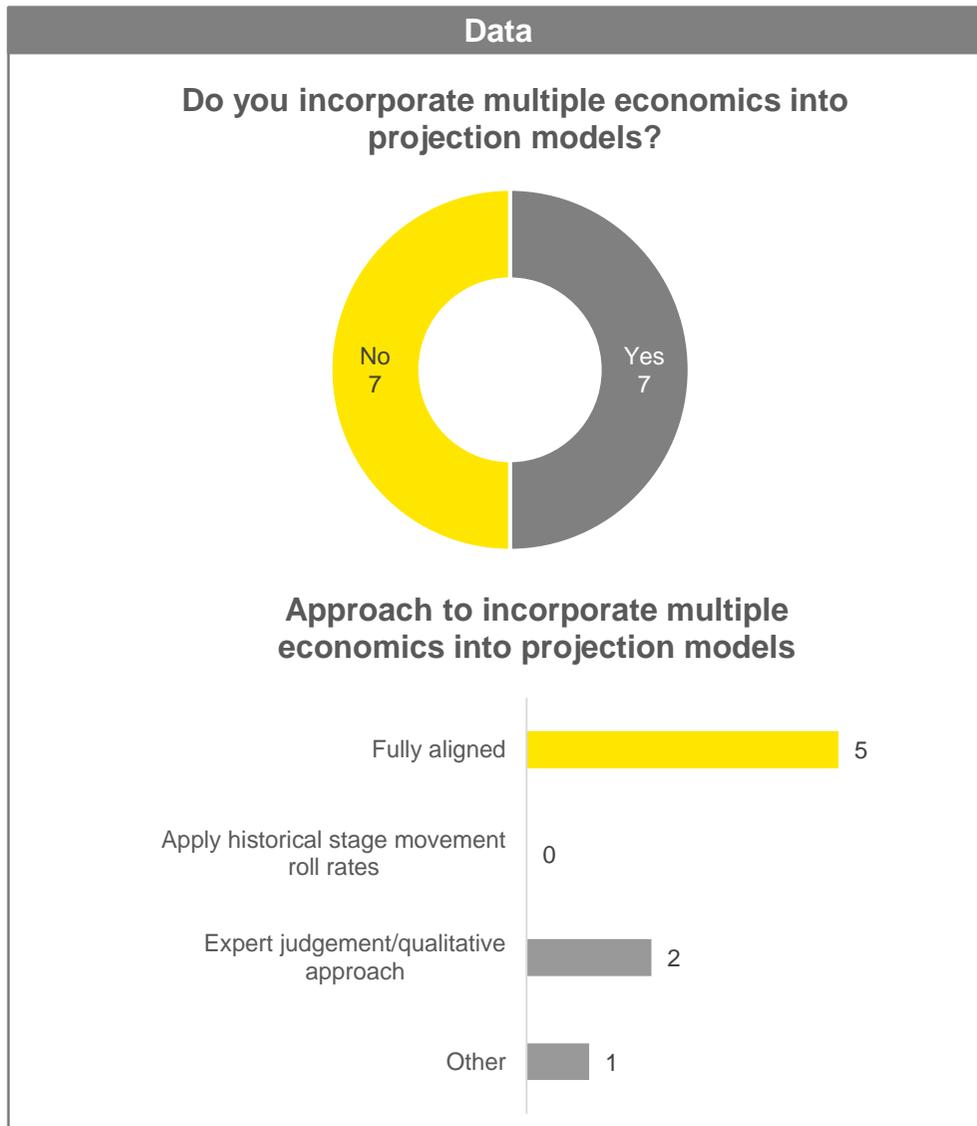
- ▶ Most banks are using a combination of both regulatory and financial planning requirements as the ECL methodology to support financial planning and stress testing cycles.
- ▶ Around a quarter of respondents are only using regulatory requirements, including two UK banks.
- ▶ Almost half of the banks did not respond to the questions in this section as the process is still maturing and approaches are being fully finalised.

Transition matrix the most common approach to forecast staging

- ▶ The most common approach to the forecast staging is to use a transition matrix approach.
- ▶ Several UK banks are applying historical stage movement roll rates.
- ▶ Of the two banks opting for a different approach, one is forecasting stage movements, “to the extent that the scenario updates produce different PIT PD values. Otherwise stage allocation is deemed to be flat for business planning (maturing stage 2 positions will be replaced by other transactions that have observed a SICR event)”.

5. Stress testing

ECL projection solution to support financial planning and stress-testing cycles



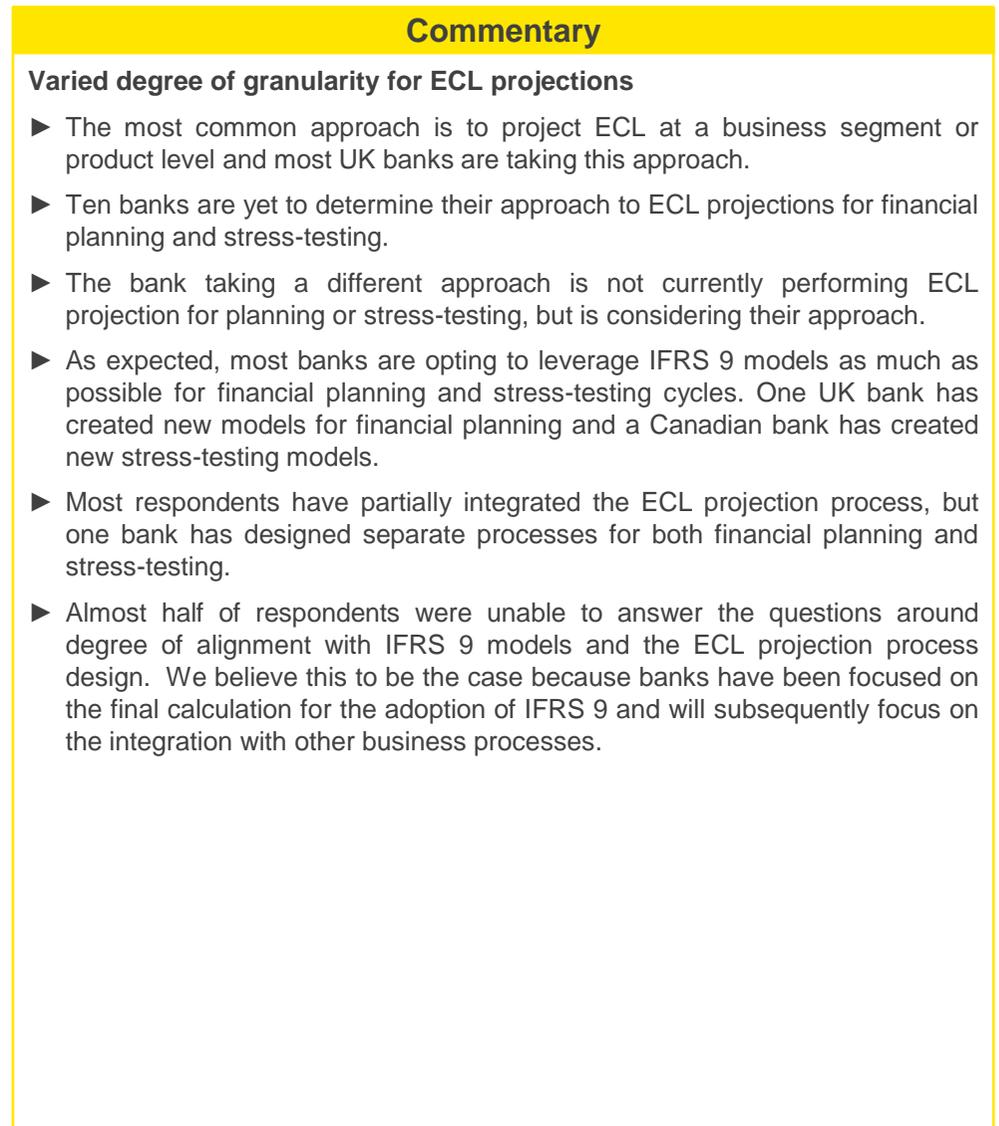
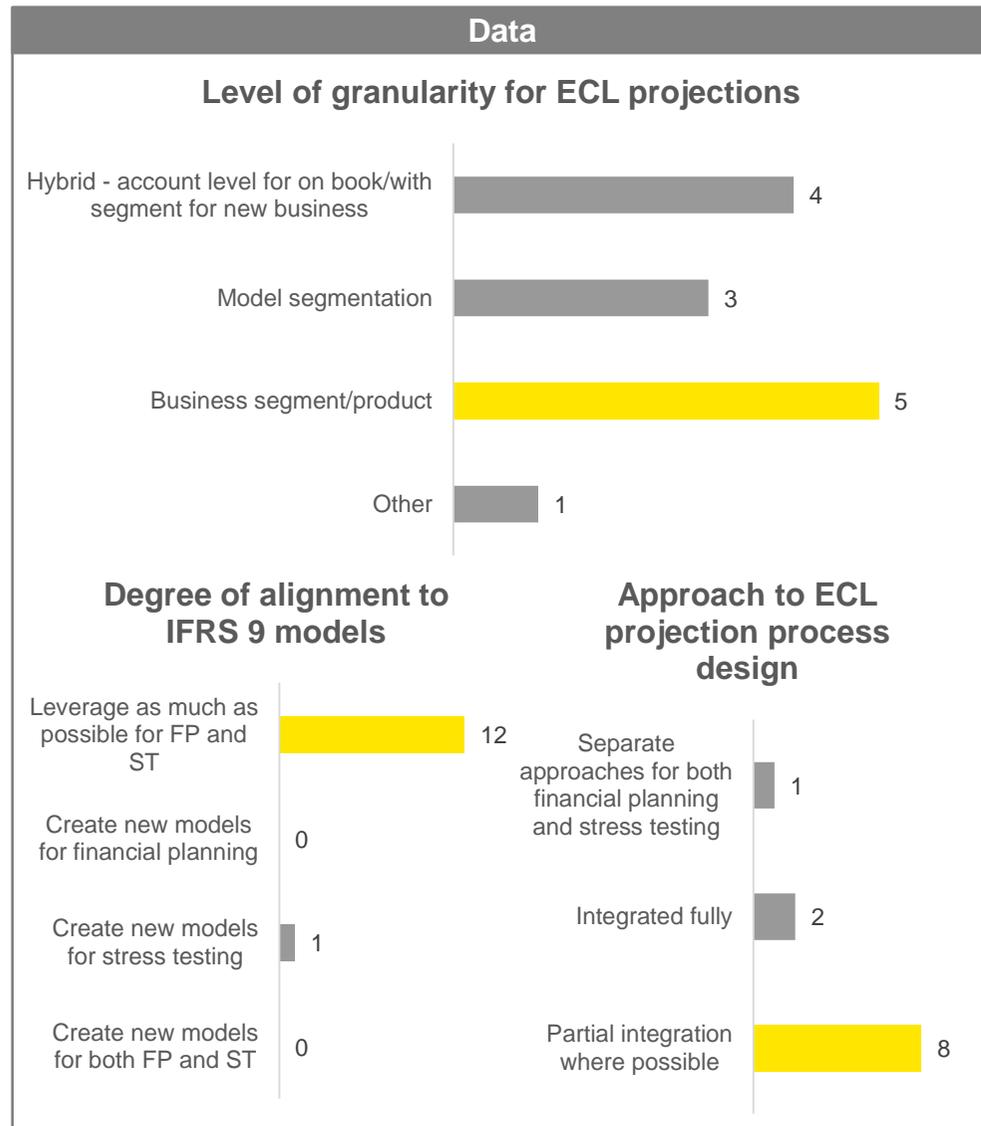
Commentary

Half of respondents are incorporating multiple economics into their projection models

- ▶ Most banks who are incorporating multiple economics are using a fully aligned approach. Banks in the Netherlands tend to opt for the expert judgment/qualitative approach.
- ▶ The approach consisting of not using multiple-economic scenarios may be a reflection of EBA and PRA regulatory requirements for stress testing where a perfect foresight approach was proposed. In essence, only one scenario (downturn) was used.
 - ▶ Of the banks who answered no, at least one is working towards the capacity to incorporate multiple economics into projection models.
- ▶ Given the lower number of responses, this is an area that is likely to be evolving and next years' stress testing round should bring new approaches.

5. Stress testing

ECL projection solution to support financial planning and stress-testing cycles



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