Request for Information: PiR IFRS 9 – Academic input

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IASB Post Implementation Questions



- Q1: Do the impairment requirements in IFRS 9 result in
 - More timely recognition of credit losses compared to IAS 39?
 - An entity providing useful information to users of financial statements about the effect of credit risk on the amount, timing and uncertainty of cash flows?
- Q3: Significant increase in credit risk (SICR)
 - Are there fundamental questions about the assessment of SICR?
 - Can the assessment of SICR be applied consistently?
- Q4: Measuring expected credit losses
 - Are there fundamental questions about the requirements for measuring ECL?
 - Can the measurement requirements be applied consistently?



General Information on IFRS 9



- Replaced the incurred loss model of IAS 39, criticised as 'too little, too late'
 - i.e., impairment was booked only when there was objective evidence that an impairment had occurred
 - Cannot consider future events unless close to certain
- IFRS 9: Issued in July 2014; mandatory application since 1 January 2018
 - Updates in 3 areas:
 - 1. Classification and measurement

Our focus

- 2. Impairment
- 3. Hedge accounting



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IFRS 9: Expected credit loss (ECL) model requires provisions for future expected credit losses on all loans from day 1 of recognition





Two important changes to address the IAS 39 'too little, too late' criticism

- Increase in scope: impairment is now booked for the entire loan portfolio (Stage 1 and Stage 2), not just for impaired loans (Stage 3)
- 2. Change in ECL measurement: incorporation of forward looking information



Ex-Ante Concerns & Expectations of IFRS 9

Concerns

- Day 1 impairment recognition contradicting the IASB Conceptual Framework principles of neutrality and faithful representation (Hashim, Li, O'Hanlon, 2022)
- Increased Discretion:
 - Determination of 'SICR' (cliff effect)
 - Discretion increases as information becomes scarce
 - Increased risk of opportunistic provisioning behavior / earnings management (Cohen & Edwards, 2017)
- Increased procyclicality due to point-intime PDs (Abad & Suarez, 2018)

Expectations

- Timelier loss recognition (Novotny-Farkas, 2016; Gebhardt, 2016)
- Reduced procyclicality of lending
- Reduced build-up of loss overhangs & less overstatement of regulatory capital (Novotny-Farkas, 2016)



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Structure of discussion







- Timeliness: the extent to which current loan loss provisions (LLPs) explicitly anticipate the deterioration in loan portfolios (Balakrishnan & Ertan, 2020)
- Timely recognition of losses have trade-offs for bank stability
 - Timely disclosures could discipline banks and provide incentives for banks to take corrective actions early
 - Disclosures of losses or exposures to troubled assets could also trigger a bank run, as could corrective actions that investors view as signs of weakness (Bischof, Laux, Leuz, 2021)
- Delayed credit loss recognition leads to
 - Reduced transparency hampering market discipline over risk taking (Bushman & Williams, 2012)
 - Greater financing frictions and capital inadequacy concerns during downturns, resulting in higher reductions in lending (e.g., Beatty & Liao, 2011; Bushman & Williams, 2015; Kim, 2022)



Timeliness

allowances

Transition Evidence





Kalista & Novotny-Farkas, 2023

Increases in Stage 1 & 2 expected

- In some countries large increase in Stage 3 – ex ante unexpected!
- Suggests reduced loss overhangs in impaired assets
- But resolving past loss overhang build-up does not necessarily translate into non-accumulation in the future...



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Timeliness Transition Evidence



Increase in impairment on day 1 of IFRS 9 equity effects:



Figure 10: Impairment Effect on Equity per Institution (in %)

Löw, Schmidt, Thiel, 2019





- Experimental study finds that allowing managers to incorporate forwardlooking information results in (Gomaa, Kanagaretnam, Mestelman, Shehata, 2018)
 - 1. An increased amount of reserves carried
 - 2. An increased adequacy of reserves
 - 3. Robust results with respect to a range of different compensation schemes
- Empirical evidence: ECL provisions are more predictive of future bank risk
 - LLPs under IFRS 9 are more risk-relevant than incurred loss model LLPs but this difference appears to matter mainly when credit conditions deteriorate (Lopez-Espinosa, Ormazabal, Sakasai, 2021)
 - Source of increased informativeness: Stage 1 and Stage 2
 - No evidence of opportunistic use of discretion
 - Evidence that riskier banks experience a larger increase in LLP timeliness after IFRS 9 adoption. Additionally, the ECL recognition timeliness is stronger for banks who had less timely LLPs under IAS 39 (Kim, Ng, Wang, Wu, 2021)



Timeliness Accounting Procyclicality During Covid-19







The association between ECL impairments (%Imp) and credit risk-weighted assets (CRWA) %Impt Ы Total effect of CRWArd 2018:Q4 2019:Q2 2019:Q4 2020:Q2 2020:Q4 2021:Q2 2021:Q4 Date

- Sharp impact of credit riskweighted assets on loan loss provisions during Covid-19, possibly attributable to the **point-in-time PD** estimates
- From an accounting standpoint, the start of an economic downturn is expected to trigger larger loan loss provisions under IFRS 9 than under IAS 39, and thus to reveal banks' vulnerabilities sooner
- → This is not an accounting problem (Hoogervorst, 2012)

Novotny-Farkas, Oberson, Renner, 2023

Timeliness Did IFRS 9 really cure the IAS 39 shortcomings?





ECL Measurement



- Consistent measurement application challenges:
 - Forward-looking scenarios
 - Post model adjustments / management overlays
- Forward-looking scenarios: IFRS 9 requires forward-looking information in the form of probability-weighted forward-looking scenarios
 - Inherently discretionary
- Post model adjustments: adjustments to reduce or increase modelled ECL to consider information not (yet) fully reflected in the model
 - Inherently discretionary
 - Appeared as a result of the COVID-19 crisis but don't seem to be going away



ECL Measurement Forward Looking Scenarios



 Management has a large amount of discretion in determining which forward looking scenarios to include in their calculations and how much weight to put on each scenario

If in the following year, i.e., on 31 December 2023, obligor does not pay amount due --> DEFAULT

Scenario	Probability [a]	EAD [b]	DR [c]	Expected net future cash flows [d]	Expected recovery time [e]	ECL [f]=[b]- [d]/(1+[c])^[e]	Probability- weighted ECL [g]=[a] x [f]
Cure	20%	1,030,000	3.00%	900000	0.0	130,000	26,000
Restructure	40%	1,030,000	3.00%	800000	0.5	241,737	96,695
Liquidation	40%	1,030,000	3.00%	700000	1.0	350,388	140,155
						Lifetime ECL	262849.9708

Stage 3 - Recognition of lifetime ECL



ECL Measurement Forward Looking Scenarios



Example: Sale Scenario in Intesa SanPaolo 2018 Annual Report

Impairment

The application of the new impairment rules (expected credit losses) on the financial assets measured at amortised cost (onbalance sheet exposures) resulted in a negative impact of 4,137 million euro, as detailed below:

- additional value adjustments to on-balance sheet performing loans of 1,136 million euro attributable to (i) the allocation of part of the performing portfolio to Stage 2, based on the stage allocation criteria defined, with the consequent need to calculate the lifetime expected credit loss for the financial assets and (ii) the inclusion of forward-looking parameters resulting from future macroeconomic scenarios within the expected credit losses calculation. The first-time adoption impact was almost entirely due to the increase in adjustments to positions classified as stage 2, whose total provisions trebled;
- additional value adjustments to performing securities of 95 million euro, essentially attributable to the allocation of a
 portion of the portfolio to Stage 2, with the consequent need to calculate the lifetime expected credit loss for the financial
 assets;
- additional value adjustments to non-performing loans of 2,906 million euro, mainly due to the inclusion of forward-looking parameters, resulting from the consideration of future macroeconomic scenarios for all the NPL categories, within the expected credit losses calculation, and the inclusion of the sale scenario envisaged by the company targets of reduction of the non-performing assets for a part of the bad loans portfolio that has characteristics of disposability. The impact of the additional adjustments consisted of 2,063 million euro for bad loans and 843 million euro for positions classified as unlikely-to-pay loans and past due loans.

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ECL Measurement Forward Looking Scenarios



Vs. Intesa SanPaolo 2017 – NPL plan emphasized disposals only at a price in line with book value

In accordance with ECB instructions, in 2016 Intesa Sanpaolo initiated measures to keep the stock of NPLs in check. In March 2017, a three-year NPL Plan was approved, aimed at bringing the NPL ratios back down to pre-crisis levels, through a coordinated action plan structured for each of the business units involved. The plan takes a holistic approach by tackling all categories of NPLs and involves all business owners in the Group. The plan activates all the levers that can help achieve its stated objectives, while also providing suitable mechanisms for the coordination of efforts and the monitoring of outcomes delivered.

The 2018-2021 Business Plan's top priority is the effective management of NPLs and will be achieved, without a negative impact on value distribution to Shareholders, through the implementation of several initiatives:

- carve-out of a state-of-the-art loan recovery platform, to improve recovery rates and extend the scope of activities;
- readiness for future NPL disposals at a price in line with book value;
- "Pulse", a new way of managing retail early delinquency, and positioning as one of the leading operators in early delinquency recovery;
- scale-up of proactive credit portfolio management, aimed at significantly reducing the Group's Unlikely to Pay level and
 optimising its risk-return profile.

As a result of these initiatives, the risk profile will further improve in 2021, with best-in-class cost of risk and a very low NPL stock.



ECL Measurement Post-model adjustments



 Banks are increasingly using PMAs to take into account `novel' risks that are not easily captured by models



Source: Novotny-Farkas, Oberson, Renner, 2023 Sample: 122 banks from EBA Transparency Exercise



ECL Measurement Post-model adjustments



- The <u>ECB finds</u> there are bad and good aspects of banks using PMAs
 - Overlays are a useful tool to address emerging risks, but only when they are delivered with strong governance and transparency, are supported by evidence and are build on sound methodologies.



- Banks using PMAs at the aggregate ECL level do not reflect the risks driving ECL overlays in their Stage 2 classifications (i.e., increased credit risk should lead to increased provisions in a stage, but disregard that increased credit risk also requires stage transfers).
- Find that banks using aggregate PMAs record lower provisions and have lower Stage 2 ratios
- Novotny-Farkas/Oberson/Renner (2023) find some evidence that PMA banks have higher ECL shortfalls in the EBA 2021 stress test



Based on ECB survey of 51 SI banks





Worries about the cliff effect of Stage 2



SICR Delaying SICR



In a study of German banks internal rating models under IFRS 9, Bischof et al. (2023) find that IFRS banks assign better internal ratings to the same borrowers compared to banks that don't use IFRS, suggesting that banks are using their discretion to avoid the cliff of Stage 2.



SICR Delaying SICR



 Novotny-Farkas, Oberson & Renner (2023) find some evidence that banks with lower regulatory capital are more reluctant to increase their allowance for Stage 2 (avoiding the cliff)





SICR Climate risk



Rabobank's woes herald a new phase in climate transition risk management

August 25, 2022

Rabobank is the new poster child for climate transition risk in the financial system. In response to the Dutch government's June announcement of a plan to slash nitrogen oxide <u>emissions from the country's livestock</u> sector, the lender downgraded the creditworthiness of its entire €10.3 billion dairy farm loan portfolio.

Why? Because the plan could undermine farming clients' business models and potentially drive many into bankruptcy. The Dutch government itself admitted that <u>"there is not a future for all farmers within [this]</u> approach."

The lender's decision comes with real financial consequences. By downgrading the agri-loans, Rabobank now has to calculate their lifetime expected credit losses. This figure in turn informs the amount of income it has to set aside to cover potential future defaults and missed repayments. On top of this, the firm took a €76 million charge to account for potential losses in the portfolio that its credit models might have missed. These measures all contribute to making agri-loans more onerous for Rabobank to originate and maintain. As a result, it may choose to cut back its exposures or raise costs accordingly.

Real Effects *Reduced lending to risky borrowers*



Reduced lending to borrowers at risk of being transferred to Stage 2



Bischof, Haselmann, Kohl, Schlueter, 2023

The likelihood that a borrower has a credit risk rating on the 'cutoff' decreases after IFRS 9 implementation



Real Effects *Reduced lending to risky borrowers*





Figure 1. Period-by-period analysis of the effect of the ECL transition on SME lending





Real Effects Lending procyclicality during Covid-19

(-4.95)



Dependent Variable: Loan Growth‰				
Shortfall Scaled by:	Total Assets	CET1	Decrease in bank lending when	
	(3)	(4)	shortfall comes from Stage 3	
			shortial comes from Stage 5	
ACLS1adj*Covid ₁	3.45	0.41		
	(0.95)	(1.43)		
$ACLS2adj*Covid_t$	-3.04	-0.11		
	(-1.02)	(-0.57)		
ACLS3adj*Covid _t	-7.15***	-0.36***		
	(-3.88)	(-3.27)		
As expected, decrease in ban lending comes from Stage 1 (origination)	k (loan			
Table X2: Loan growth per stage				
Dependent Variable:	Loan Growth Stage 1 _t	Loan Growth	Stage 2_t Loan Growth Stage 3_t	
	(1)	(2)	(3)	
ACLS3adjTA*Covid _t	-0.10***	0.13	-0.05	

Novotny-Farkas, Oberson, Renner, 2023

(1.22)



Real Effects Increased NPL sales in Europe





• IFRS 9 transition options:

- Day 1 impairment increase booked directly through retained earningsno P/L effect
- Day 1 impairment increase filtered into regulatory capital over 5 years
- Changed (reporting) incentives for entering the NPL market
- Decreased banks' NPL ratios, helping to resolve legacy NPL problem







- Evidence indicates that IFRS 9 ECL impairments are timelier than IAS 39 incurred loss impairments and provide useful information to investors
- "Natural" procyclicality of ECL impairments primarily in Stages 1 and 2
- However, also evidence for strategic use of discretion to avoid Stage 2 transfers, understate stage 3 ECLs to manage income and/or capital
- Increased reliance on PMAs / overlays during Covid-19, but also to cover "novel risks" (e.g., environmental risks, inflation) → good and bad PMAs
 - Greater diversity in ECL impairment recognition in the face of novel risks
 - Risk of delayed loss recognition under "umbrella overlays"
- IFRS 9 ECL application triggers some desired and (potentially) undesired real effects
- Increased focus of supervisors, auditors and banks necessary to ensure appropriate and consistent application of ECL model – Higher costs?

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