

REPORT AUTHORITY



XBRL Past, Present and Future
(Utilising Hyperion EPM for COREP & FINREP reporting)

Presenters
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- What is XBRL
- How has XBRL evolved
- What are the challenges
- Who is using XBRL
- Case Study (European Financial Services)
 - ▣ Incorporating Oracle EPM systems
- Where to next?

What is XBRL?

- eXtensible Business Reporting Language
- Electronic file containing tagged facts
- Facts are tagged to a (public / common) taxonomy
- Taxonomy is a “dictionary” of concepts (e.g. IFRS)
- XBRL (instance) documents can be systematically interpreted and compared

- Legacy – Unsupported
 - XBRL 1.0 – 31 July 2000
 - XBRL 2.0 – 14 December 2001
 - XBRL 2.0(a) – 15 November 2002
- XBRL 2.1 – 31 December 2003
 - Definition linkbase
 - Presentation
 - Calculation linkbase (within context)
 - Label linkbase
 - Reference linkbase

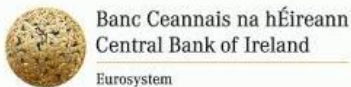
Regulatory Driven



- Dimensions 1.0 – 18 Sep 2006
- Inline XBRL 1.0 – 20 Apr 2010
 - ❑ Transformation Registry Version 2 – 24 Oct 2011
- Formula Specification 1.0 - 2009 – 2011
 - ❑ Functions Registry 1.0 2009 – 2011
 - ❑ 100+ Formula
 - ❑ Calculation and Assertion (cross context)
- Table Linkbase 1.0 - Public Working Draft 21 Dec 2011 (Updated 17 May 2013)

- Coming soon
 - ❑ Inline XBRL 1.1 Proposed Recommendation
18 Sep 2013
 - ❑ Finalisation of Table Linkbase 1.0
 - ❑ Formula Linkbase under scrutiny
 - ❑ Finalisation of the Rendering Linkbase 1.0

Sample of Regulators with XBRL Mandates



- Response to banking crisis
- EU law, created mandate for EBA to develop ITS
- Establishes a single prudential rulebook for:
 - ▣ Common Reporting (COREP)
 - ▣ Financial Reporting (FINREP)
- 7,500+ credit institutions and investments firms
- Effective from 1 January 2014

The rulebook takes the form of a Data Point Model (DPM)

What is a Data Point Model?

- Semantic model that describes data requirements unambiguously with no redundancy



CR EQU IRB		ID	Label	Legal References & Comments		REQUIREMENTS
		010	Original exposure pre conversion factors OF WHICH: ARISING FROM DEFAULT FUND	Article 94 of CRR.		
				COLUMNS		
						MEMORANDUM ITEM:
						EXPECTED LOSS AMOUNT
						090
010	TOTAL IRB					
020	1. PD/LGD					
050	2. SIMPLE					
060	BREAKDO					
070		070-080	Funded credit protection	Article 4 (33) of CRR and Articles 192, 193 and 196 of CRR.		
080		070	Financial collateral: simple method	Article 217 (1) to (2) of CRR.		
090						
100	3. INTERNAL MODELS APP	080	Other funded credit protection	Article 227 of CRR.		

	A	B	C	D	E	
	Table	Table code	ColumnRegion	RowRegion	TableBasedFormula	
1	CR SETT	CR SETT	010-030		{r010}={r020}+{r030}+{r040}+{r050}+{r060}	
2	CR SETT	CR SETT	010-030		{r070}={r080}+{r090}+{r100}+{r110}+{r120}	
3	CR SETT	CR SETT		(020;080)	{c030}={c020}*0%	
4	CR SETT	CR SETT		(030;090)	{c030}={c020}*8%	
5	CR SETT	CR SETT		(040;100)	{c030}={c020}*50%	
6	CR SETT	CR SETT		(050;110)	{c030}={c020}*75%	
7	CR SETT	CR SETT		(060;120)	{c030}={c020}*100%	
8	CR SETT	CR SETT		(010;070)	{c040}={c030}*12,5	
9	CR SETT, CA2	CR SETT, CA2			{r010;c040} = {CA2;r500;c010}	
10	CR SETT, CA2	CR SETT, CA2			{r070;c040} = {CA2;r510;c010}	

How to define a data point for: *Net carrying amount of not yet impaired but already past due (over 180 days) debt securities held, issued in EUR by MFIs located in EMU with original maturity under one year, measured at amortised cost and relating only to business activities conducted in Spain (local business)?*

Measure (metric):
Monetary
Text
Date

Portfolios:
Total (...)
Fair value through profit or loss
Amortised cost

Impairment status:
All / Not-applicable
Impaired
Unimpaired

Time reference:
Current period end
Previous period end
Current period

Base terms:
Assets
Liabilities
Equity
Off-balance sheet
Exposures

Categories:
Total (...)
Cash
Loans
Debt securities
Equity instruments
Tangible and intangible
Other than (...)

Amount types:
Carrying amount
Gross carrying amount (Specific allowances)
(Collective allowances)

Original currencies:
All / Not-applicable
EUR
Other than EUR

Base term:	Assets
Category:	Debt securities
Portfolio:	Amortised cost
Amount type:	Carrying amount
Impairment status:	Unimpaired
Past due period:	≥ 180 days
Original currency:	EUR
Original maturity:	< 1 year
Counterparty sector:	MFIs
Counterparty residence:	EMU
Location of activity:	Spain
Measure (metric):	Monetary
Time reference:	Current period end

Past due periods:
All
0 days
< 180 days
≥ 180 days

Original maturity:
All
< 1 year
≥ 1 year < 2 year
≥ 2 years

Counterparty sectors:
All / Not-applicable
MFIs
MMFs
MFIs other than MMFs
Central Administration
Other general government

Counterparty residences:
All / Not-applicable
EMU
Other than EMU (...)

Locations of activities:
All / Not-applicable
Spain
Other than Spain (...)



Source Data

HFM Accounts and Customs

Essbase / TM1
Dimensions and Members

Chart of Accounts



XBRL Taxonomy

17 Entry Points

>70,000 Data Points

Primary items, Data Types, qNames, Hypercubes, Dimensions and Dimension Members

XBRL 2.1. Dimensions, Formula Linkbase, Table linkbase & registries (DTR, UTR)



CR EQU IRB 2										
	INTERNAL RATING SYSTEM PD ASSIGNED TO THE OBLIGOR	ORIGINAL EXPOSURE PD CONVERSION FACTORS	CREDIT RISK MITIGATION (CRM) SUBSTITUTION EFFECTS ON THE EXPOSURE			EXPOSURE VALUE	EXPOSURE WEIGHTED AVERAGE LGD (%)	RISK WEIGHTED EXPOSURE AMOUNT	MEMORANDUM ITEM:	
			UNFUNDED CREDIT PROTECTION		TECHNIQUES WITH SUBSTITUTION OF THE EXPOSURE DUE TO CRM				EXPECTED LOSS AMOUNT	EXPECTED LOSS AMOUNT
			GUARANTEES	CREDIT DERIVATIVES						
	010	020	030	040	050=030+040	060	070	080	090	
BREAKDOWN OF TOTAL EXPOSURES UNDER THE PD/LGD APPROACH BY OBLIGOR GRADES:										
	OBLIGOR GRADE(s): 001									
	002									
	...									
	NNN									

>70 Templates each for COREP & FINREP

Many are dimensional , e.g. >250 Countries

Templates

Source Data

HFM Accounts and
Customs

Essbase / TM1
Dimensions and
Members

Chart of Accounts



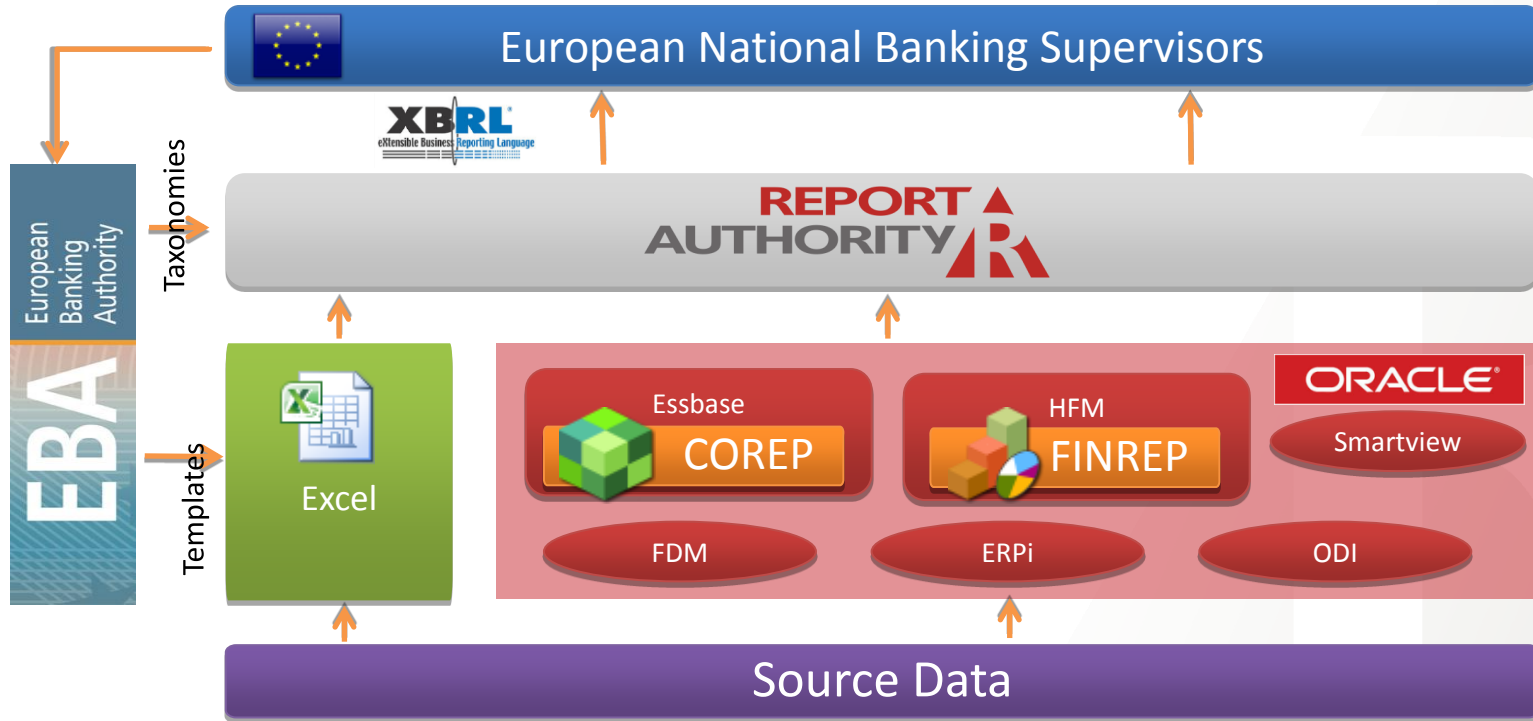
XBRL Taxonomy



			Carrying amount
			010
Cash and cash balances at central banks	IAS 1.54 (i)	010	-
Cash on hand	ITS part 2.1	020	-
Cash balances at central banks	ITS part 2.2	030	-
Other demand deposits	ITS part 2.3	040	-
Financial-assets held for trading	IFRS 7.8 (a)(ii); IAS 39.9, AG 14	050	-
Derivatives	IAS 39.9	060	-
Equity instruments	IAS 32.11	070	-
Debt securities	ITS part 1.14, 15	080	-
Loans and advances	ITS part 1.14, part 3.35	090	-
Financial assets designated at fair value through profit or loss	IFRS 7.8 (a) (i); IAS 39.9	100	-
Equity instruments	IAS 32.11	110	-
Debt securities	ITS part 1.14, 15	120	-
Loans and advances	ITS part 1.14, part 3.35	130	-
Available-for-sale financial assets	IFRS 7.8.(d); IAS 39.9	140	-

Rendered as tables

End-to-end solution for ITS



- Imminent requirement
- Taxonomy and rules are not finalised
- Data sourcing , transformation & automation
- Calculation and validation
- Data quality (audit trail & analytics)
- Maintenance



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More integrated reporting

