ERICA Working Group

eccbso

European Committee of Central Balance Sheet Data Offices

ERICA

ESEF Mapping Challenge

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5th July 2021

ESEF MAPPING CHALLENGE

AGENDA

WHAT IS THE ERICA WG AND DATABASE

- INTRODUCTION TO ECCBSO & ERICA WG
- ERICA DATA
- DATA COLLECTION CHALLENGE

FACING THE CHALLENGE OF ESEF MAPPING

- FROM A SINGLE FORMAT (ESEF) TO A HARMONIZED FORMAT (ERICA)
- METADATA: BEST POSSIBLE ESEF TAXONOMY - ERICA FORMAT PRE MAPPING

CURRENT SITUATION AND FUTURE STEPS

- FINE TUNING: EXAMPLE WHERE CUSTOMIZED MAPPING IS NEEDED
- POWERFUL REPOSITORY FOR ANALYTICAL PURPOSES

ESEF MAPPING CHALLENGE

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ESEF MAPPING CHALLENGE

ECCBSO & ERICA WG

- From 1986: group of CBSOs belonging to NCB and NSI
- Experience using accounting data for several purposes:
  - ✓ Statistics
  - ✓ Economic analysis
  - ✓ Risk assessment
- Common tool: corporations' annual accounts / consolidated
- Different goals, different questionnaires, different relational approach:
  - ✓ Direct contact with companies (surveys)
  - ✓ Data received from banks
  - ✓ Administrative sources (official registers)
- 4 working groups:
  - ✓ BACH
  - ✓ **ERICA**
  - ✓ Financial Statement Analysis
  - ✓ Risk Assessment

ESEF MAPPING CHALLENGE

TARGETS OF ERICA WG

- Monitor new IFRS projects
- Update IFRS standard format
- Maintain ERICA database (**European Records of IFRS Consolidated Accounts**):
  - ✓ To know better the uses and limits of consolidated accounts
  - ✓ To analyze the results of non-financial listed groups
- Monitor XBRL projects, in particular IFRS taxonomy and ESEF project
- Data integration
- Green finance

ESEF MAPPING CHALLENGE

ERICA DATABASE

- 9 countries
- Period covered 2005 – 2019
- Annually more than 1,000 non-financial listed groups
- Based on turnover, coverage reaches more than 95% in most countries
- > 280 elements collected
- > 15,600 completed templates

ESEF MAPPING CHALLENGE

ERICA CONTENT

Annually updated

- General characteristics: name, accounting period, currency, options IFRS, etc.
- Statement of profit or loss by function
- Statement of profit or loss by nature
- Other comprehensive income
- Statement of financial position: assets
- Statement of financial position: equity & liabilities
- Cash-flow statement
- Additional information: parent entity, breakdown of revenue by sector, leases, reasons of variance of revenue, employment, environmental information, etc.

ESEF MAPPING CHALLENGE

ERICA OUTPUT

ERICA Annual Report

https://www.bach.banque-france.fr/?page=documentationErica

Publicly available

ERICA Statistics

varid	Variable	year	ave	agg tot	ncom	min	max	q1	q2	q3
cc_82	NET CASH FLOWS FROM (USED IN)	2018	-417.675	-402.638.297	964	-34.152.000	2.191.000	-151.714	-26.890	-3.258
cc_83	NET CASH FLOWS FROM (USED IN)	2018	-45.355	-43.722.218	964	-12.179.005	24.566.000	-57.686	-2.921	10.031
cc_84	NET INCREASE IN CASH AND CASH	2018	27.228	26.247.620	964	-3.917.000	10.248.000	-11.216	487	21.874
G027	Number of employees' average ov	2018	17.145	12.378.391	722	1	655.722	496	1.902	9.431
G028	Number of employees at end of p	2018	25.910	11.504.081	444	0	664.496	526	2.425	14.247
r01a	EBIT, adjusted	2018	347.919	202.140.808	581	-3.368.000	13.920.000	6.016	36.534	189.461
r01b	Net worth	2018	700.576	675.355.171	964	-92.784.020	77.900.293	2.420	79.392	447.801
r02	Assets, continued operations	2018	8.394.771	6.421.999.563	765	2.517	283.169.000	179.299	803.417	4.007.016
r03	Self financing ability	2018	0,0150		964	-94,2507	0,9332	0,0353	0,1782	0,3275
r04a	Net indebtedness ratio	2018	0,1557		952	-0,8369	3,9917	0,0143	0,1591	0,2940
r04b	Financial leverage	2018	0,2755		952	0,0000	4,3861	0,1397	0,2607	0,3788
r04c	Financial structure ratio	2018	2.405,5489		952	0,0000	88.042,0000	0,2823	0,6509	1,2301
r05	Equity ratio	2018	0,4046		964	-5,6147	0,9778	0,2860	0,4142	0,5309
r06	Debt ratio	2018	0,5954		964	0,0222	6,6147	0,4691	0,5858	0,7140
r07a	Capital interest burden	2018	0,0157		560	0,0000	0,6518	0,0057	0,0114	0,0196
r07b	Capital interest burden II	2018	3,3774		556	0,0000	800,0000	0,0183	0,0296	0,0481
r07c	EBITDA interest coverage	2018	1.482,6638		233	-721,3019	284.454,0000	4,2264	13,7015	37,6691
r08	Return on cash flow	2018	22,3701		354	-21.699,0000	31.849,0000	0,0330	0,0858	0,1644
r09	CFO - financial debt coverage	2018	408,5402		952	-6.216,5714	85.839,0000	0,7475	3,1087	6,1127
r10a	EBITDA - ROI (return on investmer	2018	0,0960		233	-0,3155	0,6818	0,0546	0,0927	0,1353
r10b	EBIT - ROI	2018	0,0448		964	-3,9138	0,6492	0,0270	0,0537	0,0881
r10c	EBITDA margin	2018	-65,1898		233	-14.445,0000	3,3881	0,0690	0,1316	0,2332

ERICA Series

ESEF MAPPING CHALLENGE

ADVANTAGES OF ERICA

- Harmonized, comparable data
- Qualitative data due to common quality controls
- International scope (9 countries participate)
- Individual, detailed figures (for participating NCB internal users only!)
- Good coverage of listed groups' population
- Easy usable (both individual and aggregated data)
- Open for feedback, also from external users of the aggregated data

PURPOSES OF ERICA

- Financial stability
- Research
- Economic and financial analysis
- Statistics
- Risk analysis

ESEF MAPPING CHALLENGE

COLLECTION OF ERICA DATA

Publication of IFRS reports in pdf format

Manual data entry (except for BdE)

☝ Risks ☝
Typing errors
Consistency errors
Misinterpretation of content

System for Integrated Checking (BdE web application)

Mitigation of risks to some extent but consistency errors and misinterpretation of content remain

ERICA Database

ESEF MAPPING CHALLENGE

ESEF MIGHT IMPROVE COLLECTION PROCESS

ESEF in Europe: progressive gain of efficiency in the collection process but

1. ESEF is not an XBRL tag closed list (extensions and anchoring)
2. There are options to choose by reporting companies

Need for mapping flexible elements to a closed format because it is

1. a must for statistical and research purposes
2. convenient for supervisor and risk analyses, even though it is subject to expert judgement

ESEF MAPPING CHALLENGE

AGENDA

FACING THE CHALLENGE OF ESEF MAPPING

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- METADATA: BEST POSSIBLE ESEF TAXONOMY - ERICA FORMAT PRE MAPPING

ESEF MAPPING CHALLENGE

FROM A SINGLE FORMAT (ESEF) TO A HARMONIZED FORMAT (ERICA)

BALANCE SHEET FROM COMPANY ANNUAL REPORT

Consolidated Balance Sheet (million euro)

	Note	31.12.2020	31.12.2019
Assets			
Intangible assets	5	5,575	7,713
Goodwill		2,892	3,202
Other intangible assets		2,683	4,511
Property, plant and equipment	6	16,128	19,647
Right-of-use assets	7	1,388	1,416
Investments recorded using the equity method	8	813	731
Non-current financial assets	9	361	738
Other non-current assets	10	691	581
Deferred tax assets	21	1,635	1,525
Non-current assets		26,591	32,351
Non-current assets held for sale	11	4,835	73
Inventories	12		
Trade and other receivables	10		
Trade receivables for sales and services			
Other receivables			
Current tax assets		37	281
Other current financial assets	9	558	333
Cash and cash equivalents	13	3,927	2,685
Current assets		12,954	8,787
Total assets		39,545	41,138

ERICA FORMAT (BALANCE SHEET ASSETS SIDE)

ASSETS		IFRS Paragraph	XBRL Taxonomy	CBSO cod	EUR Period Current	Previous
I. ASSETS, NON-CURRENT, TOTAL		**1.66, 31.56**	**IFRS**	**3**		
1. Property, plant and equipment		**1.54.a, 16.73.d**	**IFRS**	**30**		
1.1. Land and buildings		16.37.b	IFRS	300		
1.2. Plant and equipment		16.73.e	CBSO-RF	301		
1.3. Remaining property, plant and equipment	Help	16.37	CBSO-RF	309		
1.4. Construction in progress and payments in advance		16.73.e	IFRS	303		
2. Investment property	Help	1.54.b, 40.79.c, 40.76, 40.8.e	**IFRS**	**310**		
3. Intangible assets and goodwill		**1.54.c, 1.55 CP**	**IFRS**	**32**		
3.1. Goodwill		IFRS 3.B67.d	IFRS	320	2.892,00	3.202,00
3.2. Development costs		38.119.g	IFRS	321		
3.3. Computer software, copyrights, patents and other industrial property rights, service and operating rights		38.119.c, 38.119.e	CBSO-RF	322_323		
3.4. Remaining intangible assets	Help	38.119	CBSO-RF	328		
of which, equity accounted investments				340		
7. Deferred tax assets		**1.54.o, 12.81.g.i**	**IFRS**	**35**		
8. Other financial assets, non-current	Help	**1.54.d**	**IFRS**	**36**		
of which, derivatives (including hedging assets), non-current		1.55 CP	IFRS	37		
9. Remaining assets, non-current	Help	**1.78.b, 1.66.d, CP**	**CBSO-RF**	**39**		
of which, non-current trade receivables		1.78.b	IFRS	390		

CBSO code	IFRS - Mappping option 1	IFRS - Mappping option 2
320	ifrs-full:Goodwill	

ERICA WG

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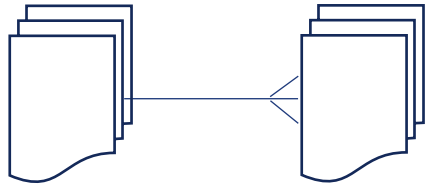
METADATA: BEST POSSIBLE ESEF TAXONOMY - ERICA FORMAT PREMAPPING

V. NET CASH FLOWS FROM (USED IN) FINANCING ACTIVITIES	7.10, 7.50d	IFRS	83

CBSO code	IFRS - Mapping option 1	IFRS - Mapping option 2	IFRS - Mapping option 3	IFRS - Customized mapping option
83	ifrs-full:CashFlowsFromUsedInFinancingActivities	ifrs-full:ProceedsFromChangesInOwnershipInterestsInSubsidiaries (-) ifrs-full:PaymentsFromChangesInOwnershipInterestsInSubsidiaries (+) ifrs-full:ProceedsFromIssuingShares (+) ifrs-full:ProceedsFromIssuingOtherEquityInstruments (-) ifrs-full:PaymentsToAcquireOrRedeemEntitysShares (-) ifrs-full:PaymentsOfOtherEquityInstruments (+) ifrs-full:ProceedsFromBorrowingsClassifiedAsFinancingActivities (-) ifrs-full:RepaymentsOfBorrowingsClassifiedAsFinancingActivities (-) ifrs-full:PaymentsOfLeaseLiabilitiesClassifiedAsFinancingActivities (+) ifrs-full:ProceedsFromGovernmentGrantsClassifiedAsFinancingActivities (-) ifrs-full:DividendsPaidClassifiedAsFinancingActivities (-) ifrs-full:InterestPaidClassifiedAsFinancingActivities (-/+) ifrs-full:IncomeTaxesPaidRefundClassifiedAsFinancingActivities (+/-) ifrs-full:OtherInflowsOutflowsOfCashClassifiedAsFinancingActivities		

Core ESEF Taxonomy

ERICA Elements



- There are more than 3.000 thousand ESEF Elements.
- Each Core ESEF Element can be linked to various ERICA PFS Elements.
- In a ERICA Element, mapping options are mutually exclusive (up to 3 Options).
- Even unexpected Elements could be part of the final mapping (elements from the Notes, extensions, omissions/errors…) → Customized Mapping Options → Fine Tuning.

ESEF MAPPING CHALLENGE

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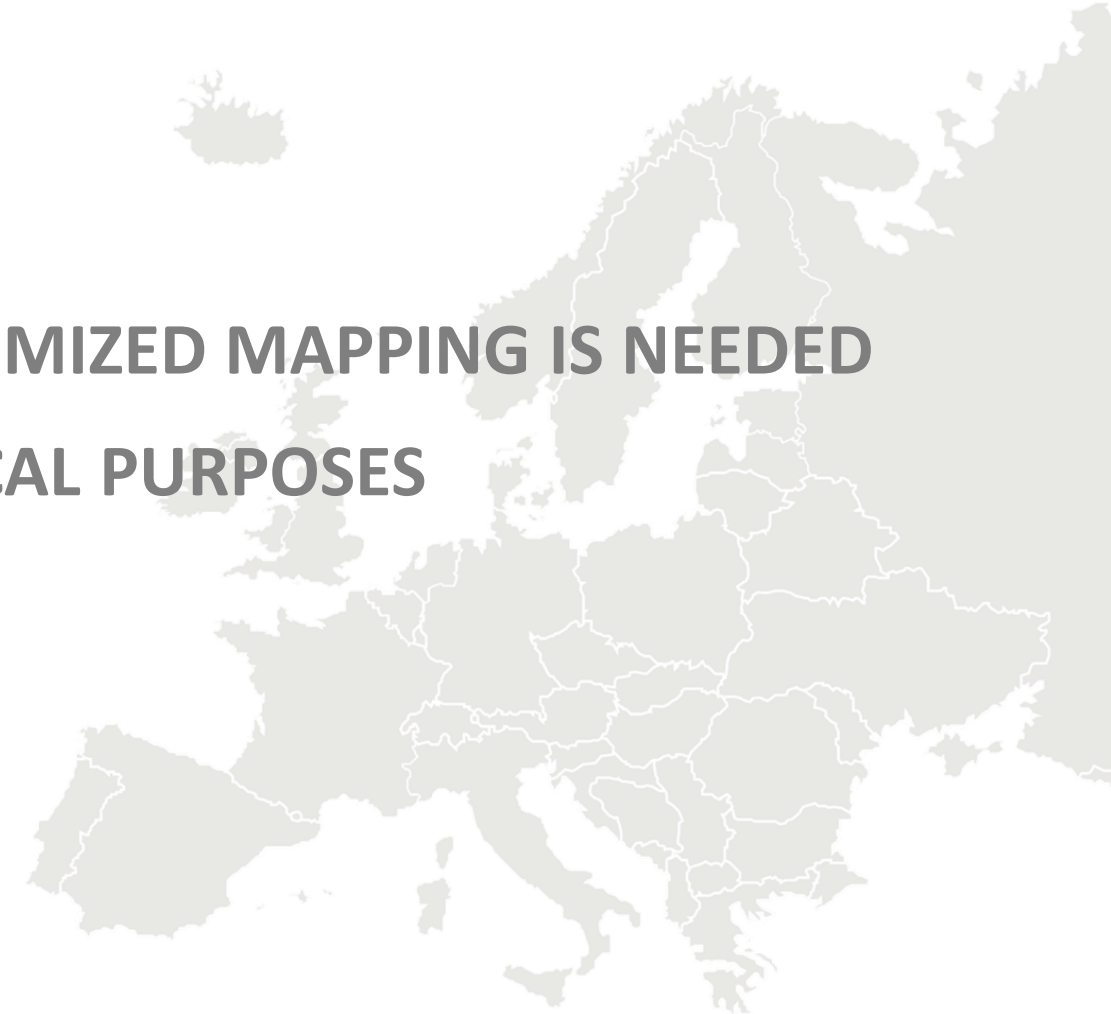
CURRENT SITUATION AND FUTURE STEPS

- FINE TUNING: EXAMPLE WHERE CUSTOMIZED MAPPING IS NEEDED
- POWERFUL REPOSITORY FOR ANALYTICAL PURPOSES



ERICA WG

ESEF MAPPING CHALLENGE
FINE TUNING: EXAMPLE WHERE CUSTOMIZED MAPPING IS NEEDED

COMPREHENSIVE INCOME STATEMENT ANNUAL REPORT

Consolidated profit/(loss) for the year			
Other comprehensive income recognised directly in equity			
Items that will not be transferred to profit/(loss):		2	(313)
Financial assets at fair value through other comprehensive income	9	(3)	(225)
Actuarial gains and losses and other adjustments	16	6	(112)
Tax effect of actuarial gains and losses and other adjustments	21	(1)	24
Items that will subsequently be transferred to profit/(loss):		(756)	178
Cash-flow hedges	21	(168)	321
Gains / (Losses) per valuation		271	348
Releases to income statement		(439)	(27)
Currency translation differences		(540)	(123)
Gains / (Losses) per valuation		(540)	(158)
Releases to income statement		0	35
Equity-consolidated companies		(46)	15
Currency translation differences	8	(46)	15
Tax effect cash-flow hedges		(2)	(35)
Other comprehensive income for the year		(754)	(135)
Total comprehensive income for the year		(785)	1,661
Attributable to:			
The parent company		(987)	1,309

COMPREHENSIVE INCOME STATEMENT (ERICA FORMAT)

		IFRS	10_28	-31,00	1.796,00
II. OTHER COMPREHENSIVE INCOME FOR THE PERIOD	1.31.a	IFRS	592	-754,00	-135,00
II.I. Other comprehensive income that will not be reclassified to profit or loss	1.IG6	IFRS	536	2,00	-313,00
1. Gains (losses) on revaluation	1.7, 1.31.a	IFRS	59204		
2. Remeasurements of defined benefit plans	1.7, 1.31.a, 19.120A.b	IFRS	59205	6,00	-112,00
3. Share of other comprehensive income of associates and joint ventures accounted for using equity method that will not be reclassified to profit or loss	1.82A.a	IFRS	592061		
4. Equity Instruments at Fair Value Through Other Comprehensive Income (FVTOCI)	IFRS 9.5	IFRS	592023	-3,00	-225,00
5. Remaining other comprehensive income that will not be reclassified		CBSO-	59602		
6. Income tax relating to other comprehensive income that will not be reclassified	1.31	IFRS	59221	-1,00	24,00
II.II. Other comprehe			597	-756,00	178,00
1. Exchange differenc			59201	-540,00	-123,00
2. Debt Instruments			59202		
of which, unrealized gains/(losses) on Debt Instruments at FVOCI	IFRS 7.20.a.ii, 1.31 / IFRS 9.5	IFRS	592021		
of which, (gains)/losses reclassified to profit or losses on Debt Instruments at FVOCI	IFRS 7.20.a.ii, 1.92 // IFRS 9.5	IFRS	592022		
3. Cash flow hedges	IFRS 7.23	IFRS	59203	-168,00	321,00
of which, unrealized gains/(losses) on cash flow hedges	IFRS 7.23.c	IFRS	592031	271,00	348,00
of which, (gains)/losses reclassified to profit or losses on cash flow hedges	IFRS 7.23.d	IFRS	592032	-439,00	-27,00
4. Gains (losses) from hedges of net investments in foreign operations	39.102	IFRS	59209		
5. Share of other comprehensive income of associates and joint ventures accounted for using equity method that will be reclassified to profit or loss	1.82.A.b	IFRS	592062	-46,00	15,00
6. Remaining other comprehensive income that will be reclassified	1.31.a, 1.83.b, IFRS	CBSO	59603		
7. Income tax relating to other comprehensive income that will be reclassified	1.31	IFRS	59222	-2,00	-35,00
III. TOTAL COMPREHENSIVE INCOME FOR THE PERIOD (I + II)	1.82.i, 1.83.b	IFRS	590	-785,00	1.661,00
1. Attributable to owners of the parent	1.83.b.ii	IFRS	5901	-987,00	1.309,00

CRUCIAL ROLE OF THE ANALYST IN THE PROCESS

FINAL CHECK VALIDATION

Label	Qname (Non Pre-mapped El		2020
Otro resultado global, antes de impuestos, coberturas de flujos de efectivo, reconocido direct	Customized-Qname:OtroResultad		
Otro resultado global, antes de impuestos, coberturas de flujos de efectivo, reconocido			
Otro resultado global, antes de impuestos, por coberturas de flujos de efectivo reconoc			
Otro resultado global, antes de impuestos, por coberturas de flujos de efectivo reconoc			
Otro resultado global, antes de impuestos, por coberturas de flujos de efectivo transferi			
Otro resultado global, antes de impuestos, por coberturas de flujos de efectivo transferido a la	Customized-Qname:OtroResultadoGlobalAntesDeImpuestosPorCoberturasDeFlujosDeEfectivoTransferidoALaCuentaDePerdidasYGan	-27	2019

NON PREN

ERICA WG

ESEF MAPPING CHALLENGE

FUTURE STEPS: POWERFUL REPOSITORY FOR ANALYTICAL PURPOSES

Apart from the internal learning process, the storage in a repository of the Master and key specific ESEF-ERICA fined tuned mapping elements for each specific group, including the customized amendments, would lead to:

Stability in time of taxonomy elements for annual reports	Previous Internal Mapping + minor adjust.	Increase in Efficiency Less time consumption to collect data in ERICA Format
		Increased Usefulness for final Statistical Products
Identification of most Frequently Used ESEF Elements	Common Practices (sector/auditor)	Potential areas of “enhancement” / “improvement” in Official Taxonomy Update/Development or in the internal ESEF-ERICA mapping
Other Potential Users	Academic, Professional Institutions	Enhancement of Financial Statement Analysis through Digital Reporting

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THANK YOU FOR YOUR ATTENTION

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