

# Financial Data Standardisation RegTech Project

25<sup>th</sup> Eurofiling Workshop in Warsaw 29 May 2018

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# **Background**

- REFIT Programme
- DG FISMA Call For Evidence 2016
- VP Dombrovskis Report: Call for Evidence in the area of supervisory reporting (COM(2017)736)
- Public Consultation on Supervisory Reporting 2018

3rd FDS project presentation for Eurofiling Let's see how we progressed ... 2016 – 2017 – 2018

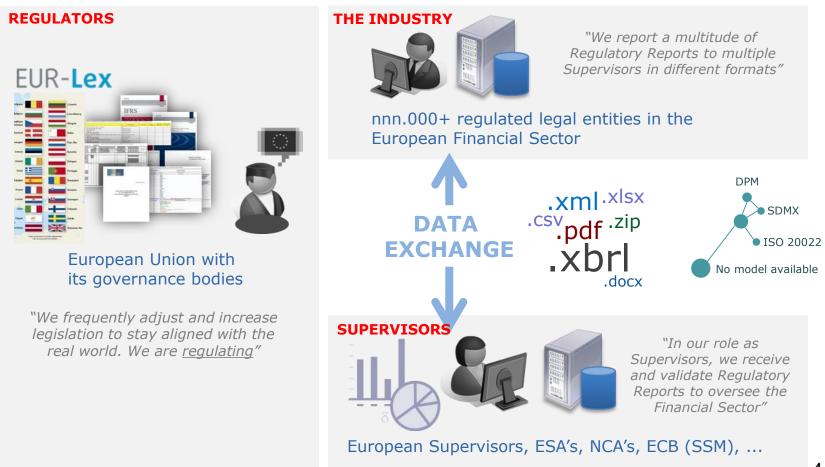


## Recap: objectives of the FDS project

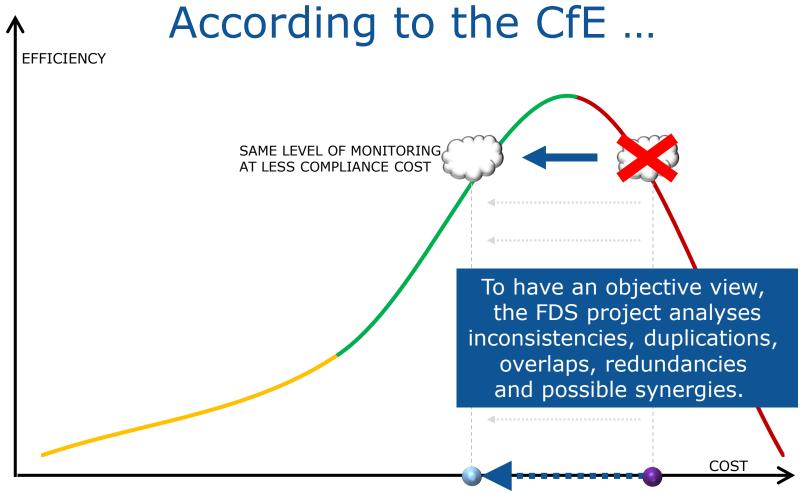
- Share more efficiently financial data by enhancing interoperability of data standards
- Reduce compliance costs that arise in the context of legal reporting requirements by applying the "once for all" principle in data reporting
- Explore solutions improving the way data can be used by (or shared between) authorities
- Improve monitoring of the allocation and evolution of risk in the EU/global financial system



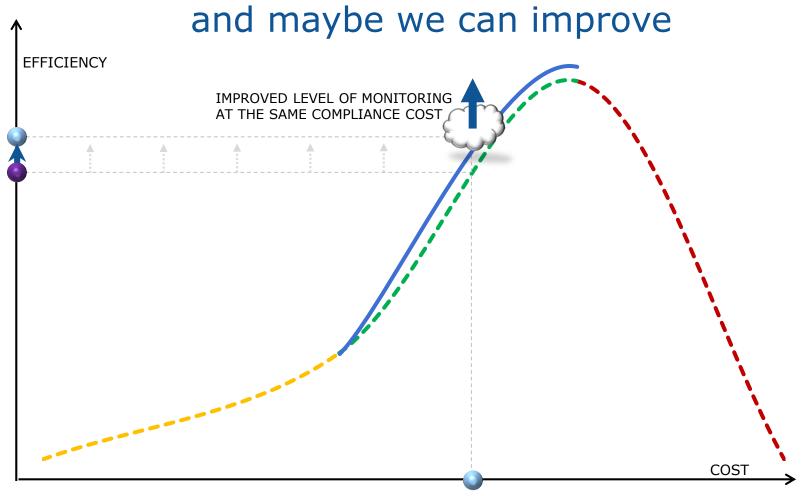
### The Regulatory Scene. The three parties.

















### Relationships between these 300+ legal acts

- □ Acts which complement one another, i.e. are to be read together (e.g. CRR/CRD IV, MiFID II/MiFIR)
- □ Acts which either repeal or recast an earlier act (e.g. IMD/IDD, PSD/PSD 2, MiFID/MiFID II)
- □ Acts which amend an earlier act (e.g. DGS, UCITS, FICOD)
- □ Acts which implement certain elements of a broader framework set by another act (e.g. Accounting Directive/IFRS)

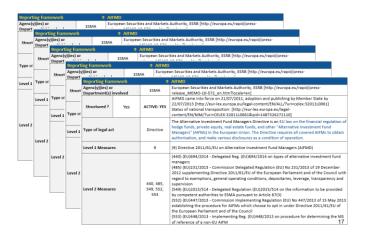




# "Reporting Frameworks"

These 300+ legal acts are the legal basis for 40+ "Reporting Framework Families"

FDS has categorized and repertorised into fiches.







# Fiche example: AIFM (1/2)

<b>Reporting fram</b>	nework	9	AIFMD			
Agenc(y)(ies) or Department(s) involved		ESMA	European Securities and Markets Authority, ESRB [http://europa.eu/rapid/press-release_MEMO-10-572_en.htm?locale=en]			
Structured ? Yes		ACTIVE: YES	AIFMD came into force on 21/07/2011, adoption and publishing by Member State by 22/07/2013 [http://eur-lex.europa.eu/legal-content/EN/ALL/?uri=celex:32011L0061] Status of national transposition: [http://eur-lex.europa.eu/legal-content/EN/NIM/?uri=CELEX:32011L0061&qid=1487326272110]			
Type of legal act		Directive	The Alternative Investment Fund Managers Directive is an EU law on the financial regulation of hedge funds, private equity, real estate funds, and other "Alternative Investment Fund Managers" (AIFMs) in the European Union. The Directive requires all covered AIFMs to obtain authorisation, and make various disclosures as a condition of operation.			
Level 1 Measures		9	(9) Directive 2011/61/EU on Alternative Investment Fund Managers (AIFMD)			
Level 2 Measures		440, 485, 549, 552, 553	(440) (EU)694/2014 - Delegated Reg. (EU)694/2014 on types of alternative investment fund managers (485) (EU)231/2013 - Commission Delegated Regulation (EU) No 231/2013 of 19 December 2012 supplementing Directive 2011/61/EU of the European Parliament and of the Council with regard to exemptions, general operating conditions, depositaries, leverage, transparency and supervision (549) (EU)2015/514 - Delegated Regulation (EU)2015/514 on the information to be provided by competent authorities to ESMA pursuant to Article 67(3) (552) (EU)447/2013 - Commission Implementing Regulation (EU) No 447/2013 of 15 May 2013 establishing the procedure for AIFMs which choose to opt in under Directive 2011/61/EU of the European Parliament and of the Council (553) (EU)448/2013 - Implementing Reg. (EU)448/2013 on procedure for determining the MS of reference of a non-EU AIFM			



# top down analysis 50+ REPORTING FRAMEWORKS REPORTING GRAMEWORKS REPORTING OBLIGATIONS

### Ex. AIFM Framework fiche (2/2)

Reporting g	ranularity	Aggregated	Article 7., 8., 22. and 24	• • •						
Reporting so	cope	Sector	lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:174:0001:0073:EN:PDF Investment Funds, Alternative investment funds [Article 2., 3. http://eur-							
		specific	lex.europa.eu/LexUriSe	ex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:174:0001:0073:EN:PDF]						
Market size		449	Hedge funds in Europe in billions USD (2013)	http://download.pwc.com/ie/pubs/2014-pwc-ireland-distribution-knowledge-12-05-2014-1.pdf p.2						
Reporting p	opulation size	2.200	Number of active AIFMs (2016)	https://registers.esma.europa.eu/publication/searchAifm dResults?fullNameCriterion=&homeMemberStateId=- 1&hostMemberSateId=- 1&status=A&officeType=&fromAeModificationDate=&to AeModificationDate=						
Maximum	Number of reportable columns in open tables	46	Some fields that may be actually text blocks; http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32013R0231&from=EN							
report size	Number of reportable cells in closed tables	525								
Maximum r	eporting frequency	Quarterly	Quarterly, Semi-annually or Annually basis [https://www.esma.europa.eu/sites/default/files/library/2015/11/2013- 1339_final_report_on_esma_guidelines_on_aifmd_reporting_for_publication_rev ised.pdf p.19] and Ad Hoc if necessary [http://eur- lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:174:0001:0073:EN:PDF Article 35.]							
	isiness discrepancies tional implementations	No	competent authorities	formation under Articles 3 and 24 to their national only once per reporting period covering all the reporting sma.europa.eu/sites/default/files/library/2015/11/2014-11						





### Who is involved in these Reporting Frameworks?

A number of EU bodies is involved in the Reporting Frameworks or practically implementing them.

EU Bodies and roles in Reporting Frameworks	Implements	Involved	
European Commission	1	26	WHO IMPLEN
Member States	15	10	central Resolution
European Securities and Markets Authority	18	4	European Rank Board
European Banking Authority	7	12	Insurance and
European Insurance and Occupational Pensions Authority	5	4	Occupational Pensions
European Central Bank	1	5	Member
Single Resolution Board	2		European States Banking
European Supervisory Authorities	2		Authority
European Systemic Risk Board		1	
European Payments Council		1	European Securities
Committee of European Banking Supervisors		1	and Markets
European System of Central Banks		1	Authority
International Accounting Standards Board		1	
Committee of European Auditing Oversight Bodies		1	
Council of Bureaux		1	

<u>Note</u>: other reporting frameworks (eg. statistical) are under the control of ECB. For a full picture, the scope needs to be extended.





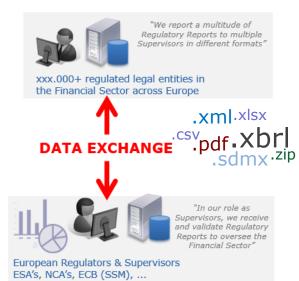
### **Further refining: Structured Data Reporting**

Many Reporting Frameworks result in periodical data exchange between Regulated Entities and Supervisors.

In many cases, the Regulator has imposed a data exchange format, or has explicitly described metadata.

Hence, we speak about "structured data".









### **Shortlist of 20+ "Structured Data" Reporting Frameworks**

'Structured Data' Reporting Frameworks impose Regulatory Reporting in structured templates or predetermined formats. Some RFs belong to the same family.

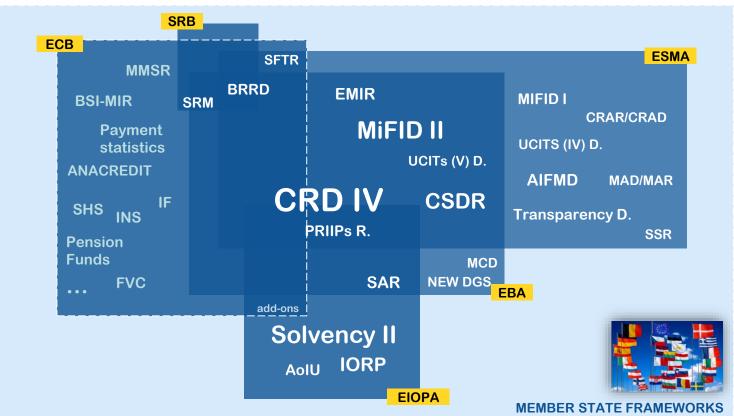
Family	Reporting Framework	Structured data?	Active?	EC	EBA	Member States	EIOPA	ECB	ESMA	ESCB	CEAOB	SRB
1	CRR/CRD IV	Yes	Yes	X	Р		X	X	X			
2	Solvency II	Yes	Yes	X			P					
3	MIFID II/MIFIR	Yes	No	X	X				P			
	MIFID I	Yes	Yes						P			
4	IORP	Yes	Yes				P					
5	EMIR	Yes	Yes		X				P			
6	AIFMD	Yes	Yes						P			
7	CSDR	Yes	Yes	X	X	X			P			
8	Transparency Directive	Yes	Partially						P			
9	Statutory Audit Regulation/Directive (SAR/SAD)	Yes	Yes	X	X	P	X				X	
10	SFTR	Yes	Partially						P	Х		
11	AoIU	Yes	Yes				P					
12	EuVeCaR	Yes	Yes	X					P			
13	European Social Entrepreneurship Funds Regulation (EuSEFR)	Yes	Yes						P			
14	Packaged retail and insurance-based inv.products (PRIIPs) Reg.	Yes	Partially		X		P		X			
15	Short Selling Regulation (SSR)	Yes	Yes	X					P			
16	BRRD	Yes	Yes	X	P	X			X			P
17	UCITS (IV) Directive	Yes	Partially	X					P			
	UCITs (V) Directive	Yes	Partially	X	X				P			
18	Motor Insurance Directive	Yes	Yes			Р						
19	MCD	Yes	Partially	X	P	X						
20	Credit Rating Agencies Regulation/Directive (CRAR/CRAD)	Yes	Yes	X					Р			
21	DGS Directive, NEW	Yes	Yes	X	X	P						
22	Market Abuse Regulation/Directive (MAR/MAD)	Yes	Partially			X			Р			
23	ELTIF	Yes	Yes	X					Р			





### Sectorial view, involved authorities

20+ 'Structured Data' Reporting Frameworks are being implemented by European authorities EBA, EIOPA, ESMA, SRB. During the FDS analysis, it becomes clear that ECB regulations and (Statistical) Reporting Frameworks need to be part of the picture.

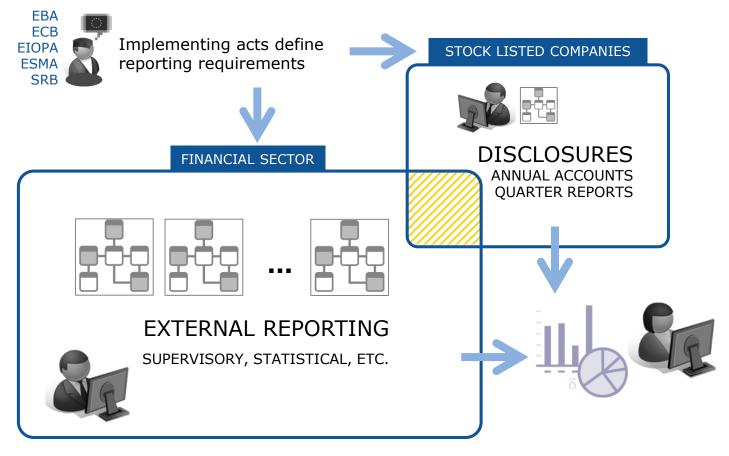






### Sectorial view, types of reporting

On a more higher level, the 20+ Reporting Frameworks are one of two types.





MODELLING

REPORTING

standard mentioned in an other EU resource

no standard mentioned or used standard legally imposed

# top down analysis 50+ REPORTING FRAMEWORKS REPORTING OBLIGATIONS

# Standards used within these Reporting Frameworks

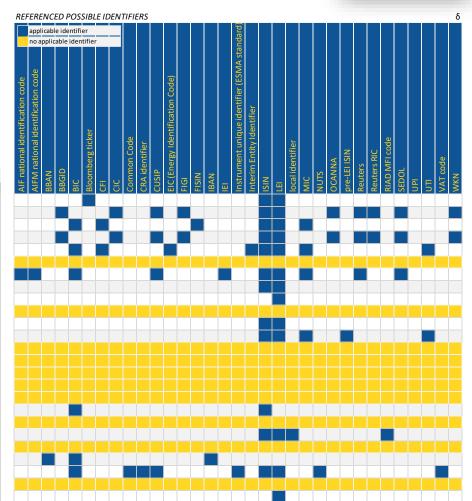
				0	i	l a					ž		
ld	Reporting Framework	structured?	DPM	2007 051	SDMIX	Interope	XBRI	xcel	PDF	XML	Electronic	E-mail	eGate
1	CRR/CRD IV	Yes		Г	. 0,								
2	Solvency II	Yes					- 8	8					
3	MiFID II/MIFIR	Yes											
4	MIFID I	Yes		Г									
5	IORP	Yes						80	į.				
6	EMIR	Yes			8								
7	AIFMD	Yes						Т					
8	CSDR	Yes											
11	Transparency Directive	Yes											
12	Statutory Audit Regulation/Directive (SAR/SAD)	Yes							80				
15	SFTR	Yes								88			
16	AoIU	Yes							(8)				
18	EuVeCaR	Yes											
19	European Social Entrepreneurship Funds Regulation (EuSEFR)	Yes											
22	Packaged retail and insurance-based investment products (PRIIPs) Regulation	Yes											
28	Short Selling Regulation (SSR)	Yes											
30	BRRD	Yes					8	8					
31	UCITS (IV) Directive	Yes											
32	UCITs (V) Directive	Yes											
33	Motor Insurance Directive	Yes											
35	MCD	Yes							888	8			
36	Credit Rating Agencies Regulation/Directive (CRAR/CRAD)	Yes											
38	DGS Directive, NEW	Yes										3	
40	Market Abuse Regulation/Directive (MAR/MAD)	Yes											
48	ELTIF	Yes											





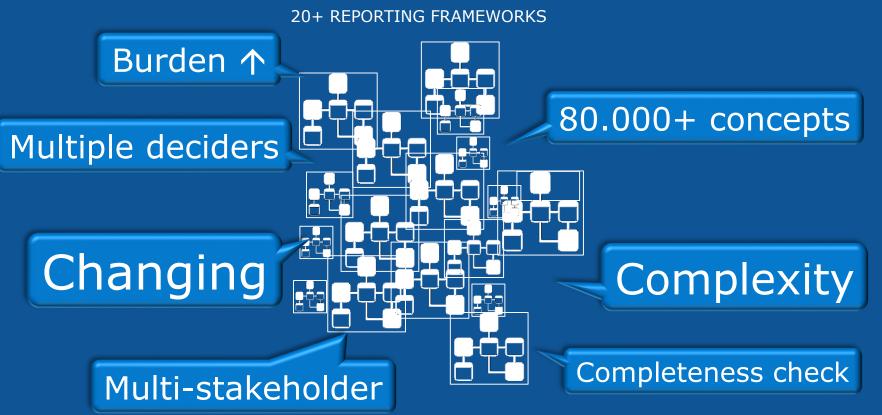
# ... applicable identifiers

ld	Reporting Framework	structured?
1	CRR/CRD IV	Yes
2	Solvency II	Yes
3	MiFID II/MIFIR	Yes
4	MIFID I	Yes
5	IORP	Yes
6	EMIR	Yes
7	AIFMD	Yes
8	CSDR	Yes
11	Transparency Directive	Yes
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38	DGS Directive, NEW	Yes
40	Market Abuse Regulation/Directive (MAR/MAD)	Yes
48	ELTIF	Yes



## The Challenge

Can one team überhaupt solve this puzzle?



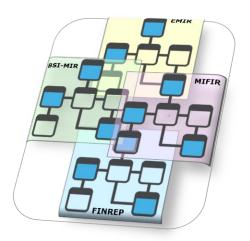




# **Cross-Framework Analysis**

FDS is studying overlaps and inconsistencies in structured Reporting Frameworks

Interestingly: limited number of 'strict' overlaps.







## Why then 'burden'?

Often, definitions are slightly different between legal measures Eg. "Non-financial counterparty" = "Non-financial entity"

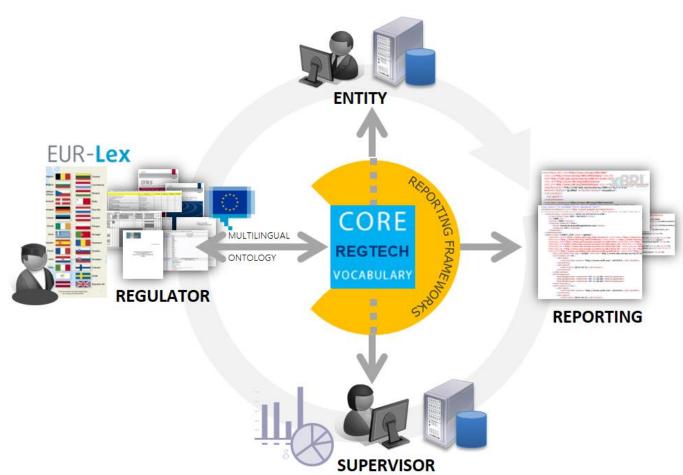
Naming in the legal act	Document name	Article	Paragraph
Non-financial counterparty	REGULATION (EU) No 648/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on OTC derivatives, central counterparties and trade repositories (consolidated version 03/01/2017)	2	9
Non-financial entity	DELEGATED REGULATION (EU)/ on the application of position limits to commodity derivatives	8	1

"If something is the same, how to know it is the same?"

# Define once?



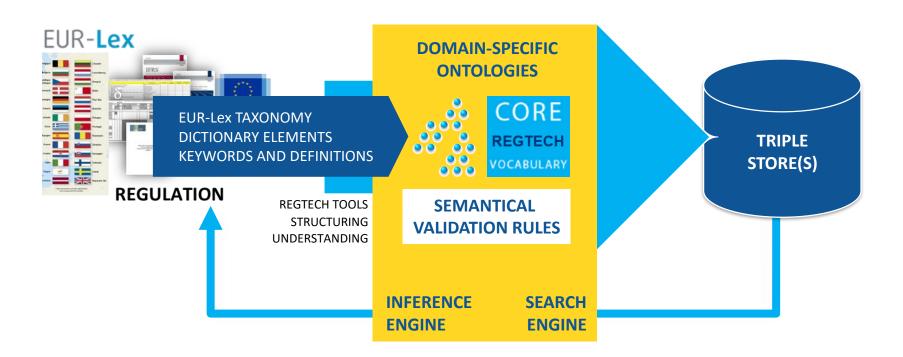
### Is there a need for a "RegTech Data Dictionary"?







### **Towards a RDD (Regtech Data Dictionary): Semantical level**

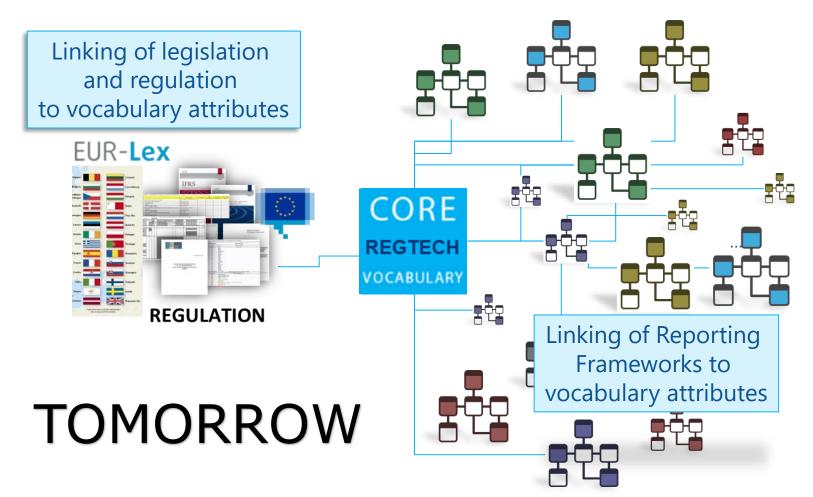


A triple store contains subject-predicate-object "triple". eg. Entity A reports to Supervisor B





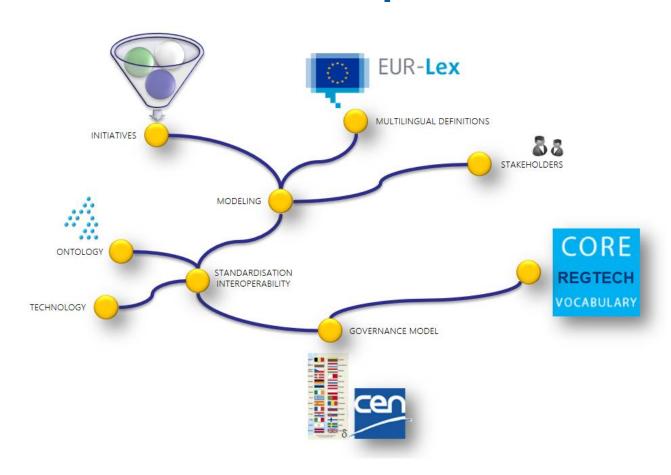
### **Open Linked Data**







### Vision for a Roadmap towards a RDD





#### PHASE 1. STUDY (ongoing)

The focus is first on "define once".

Analyse existing situation

How does legislation result in reporting frameworks?

Causes for overlaps, gaps, inconsistencies?

#### **PHASE 2. ENABLE (started)**

Create foundations for "define once"

Core Regtech Vocabularies

Strategy for Reference Data (eg. Identifiers)

Stakeholder Roundtable and Governance Model

Permanent Operational Structure

Technology for future lawmaking

#### PHASE 3. IMPROVE (2020 - ...)

Gradual reengineering of regulation
Optimizing Reporting Frameworks
Self-Improving Mechanism





### **Preparing Supervisory Reporting for the Digital Age**

Conference organised by DG FISMA in Brussels on 4 June 2018

- Conference will bring together the best in institutional knowledge, industry expertise, and academic research to look at the present challenges and future opportunities related to supervisory reporting
- Keynote speakers and panel discussions include Valdis Dombrovskis, European Commission Vice-President for the Euro and Social Dialogue, and Steven Maijoor, ESMA Chairman, while the morning panel includes Luc Dufresne, President of the Eurofiling Foundation, and other experts from industry and public authorities
- European Commission will present an update on ongoing Fitness Check on Supervisory Reporting, including results of Public Consultation