SEMIC 20 conference 23

Madrid Oct Pre-conference workshops





SORTIS - Study On Regulatory reporTing Standards

- Create a metadata vocabulary for regulatory reporting, reusing metadata elements from the European semantic domain ELI, AKN4EU (first iteration)
- An algorithm to semantically annotate the legal information contained in regulatory text according to such vocabulary (in development together with prof. Ashwin Ittoo University of Liege)
- Build reusable template regulatory reporting clauses (in development)



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Main approach

- To use an ontology for modelling the legal knowledge
- To use AI for extracting the legal knowledge
- To use AKN for identifying the correct part of the original text
- To use AKN-ELI metadata for detecting the modifications





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An example regulatory reporting obligation

2033

Regulation (EU) 2016/1011 on indices used as benchmarks in financial instruments and financial contracts

Art. 54

2. Review the evolution of international principles applicable to benchmarks and of legal frameworks and supervisory practices in third countries concerning the provision of benchmarks and report to the European
Parliament and to the Council every five years after 1 January 2018. That report shall assess in particular whether there is a need to amend this
Regulation and shall be accompanied by a legislative proposal, if appropriate.

etc.



2023

Reports

2028

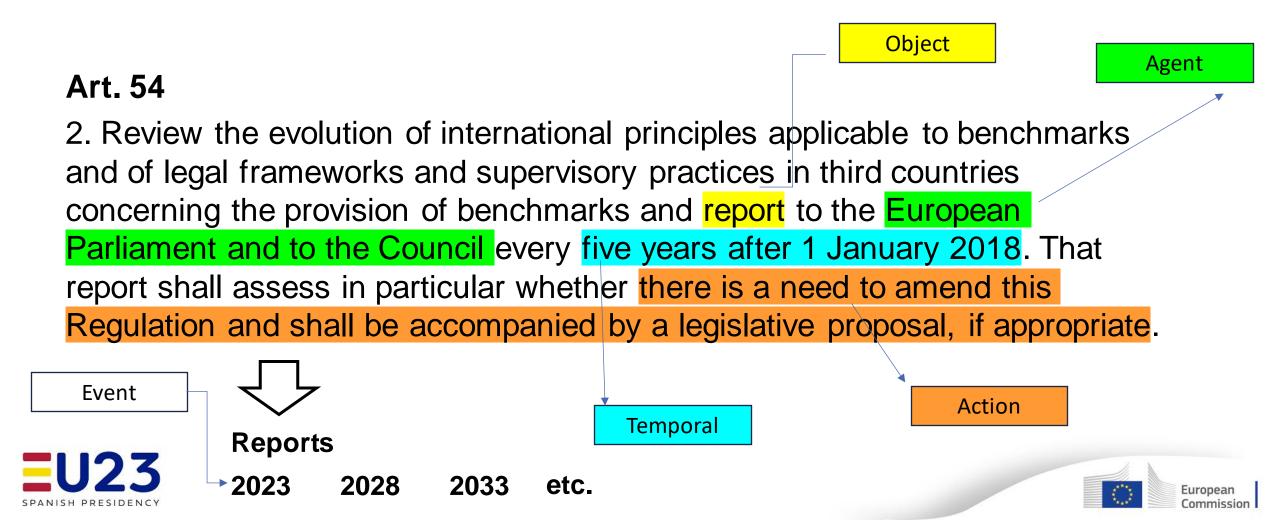




The ontology is used for annotating reporting obligations

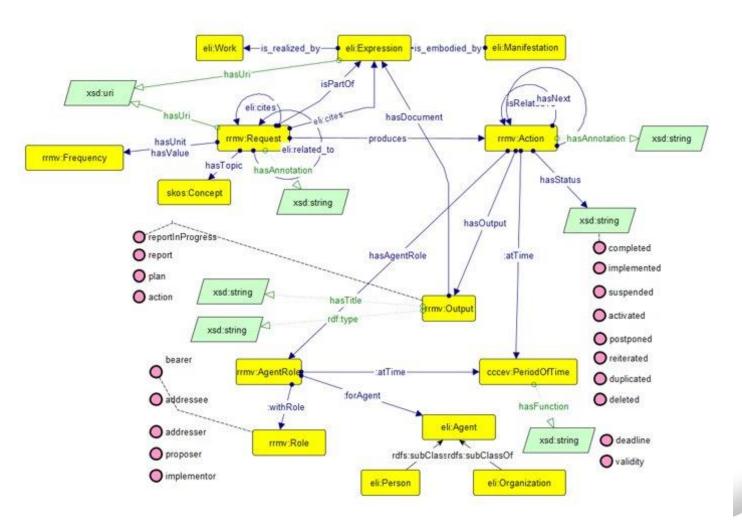
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A part of the ontology RRM









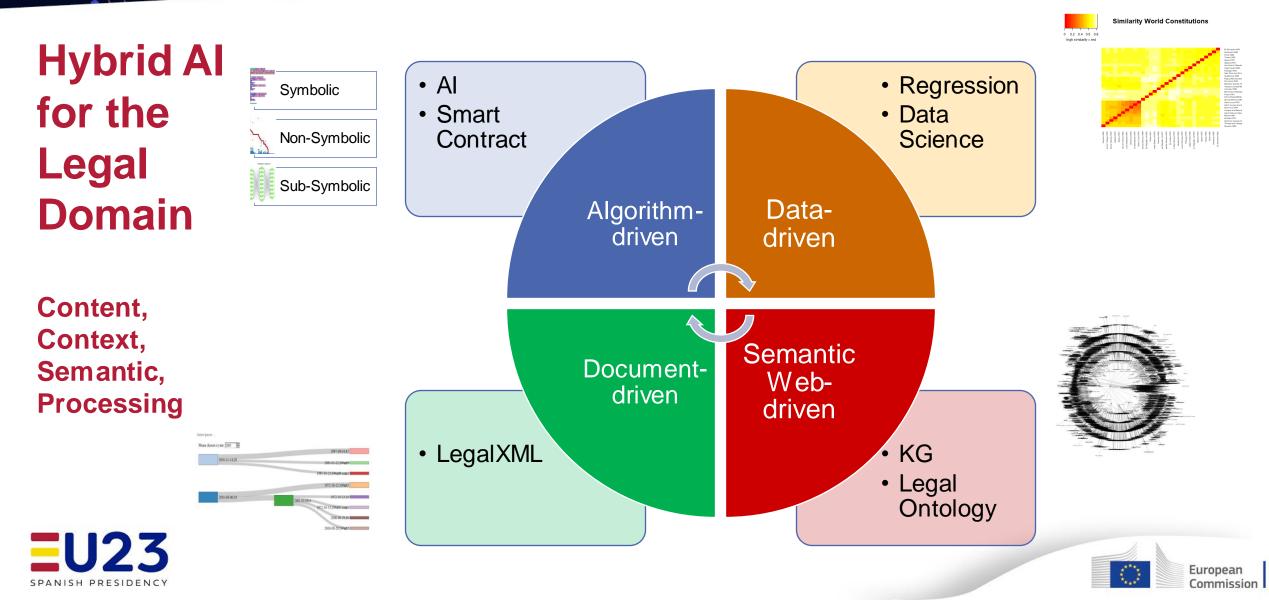
The ontology is interoperable with key semantic assets

- Unique URI based on FRBR AKN/ELI
- ELI ontology metadata reused
 - eli:Person, eli:Organization, eli:Agen, eli:cites, eli:related_to
- CCCEV cccev:PeriodOfTime



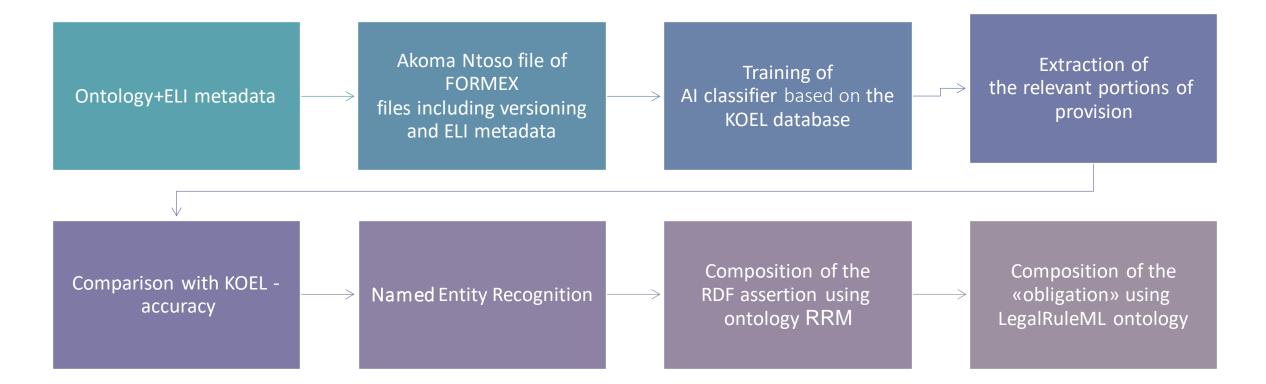








D









The vocabulary takes into account temporal elements key for legal analysis

Ex: Reliable identification of the legal provision valid at a certain point in time



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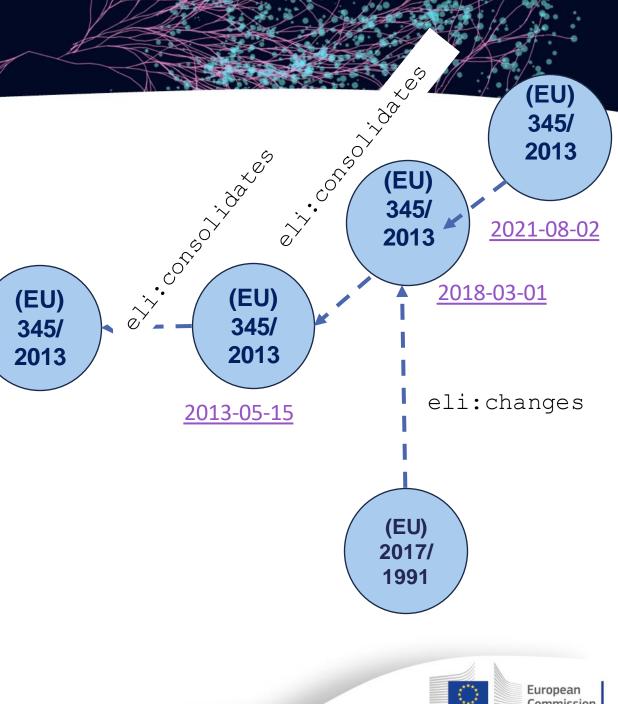


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- Agent: FISMA
- Source: Regulation (EU) No 345/2013 of the **European Parliament and of the Council of 17 April** 2013 on European venture capital funds Text with EEA relevance – celex:32013R0345
- **Type of Action**: Report
- Frequency: One
- Provison involved: Art. 26, paragraph 1, points (a) to (g), (i) and (j)
- Old text: 22/7/2017
- (a) by 22 July 2017 as regards points (a) to (g), (i) and (i); and
- New text: 01/03/2018

SPANISH PRESIDENCY

(a) by \blacktriangleright M1 2 March 2022 \triangleleft as regards points (a) to (g), (i) and (j); and



Commission



Business use case: regulatory reporting obligation management

A legal knowledge graph based on the ontology would enhance reporting obligation data management, empowering further use cases:

- Enhanced search
- Data analytics
- Innovative applications





Thank you!



