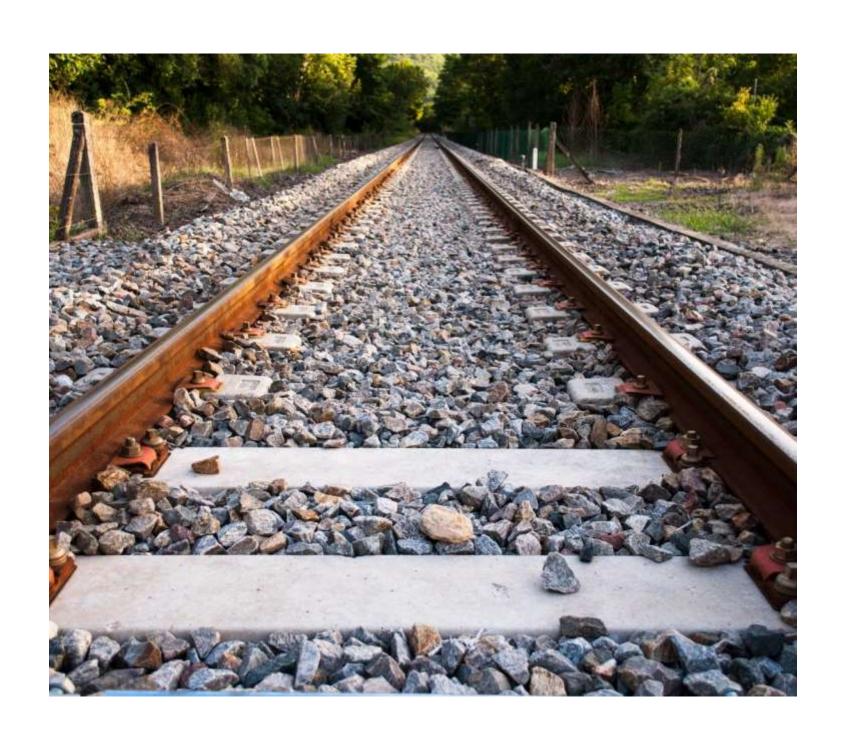


# Multilingual Knowledge Systems as Linguistic Linked Open Data for European Language Grid

SALLD-1 (Workshop on Sentiment Analysis & Linguistic Linked Data) – 01 September 2021

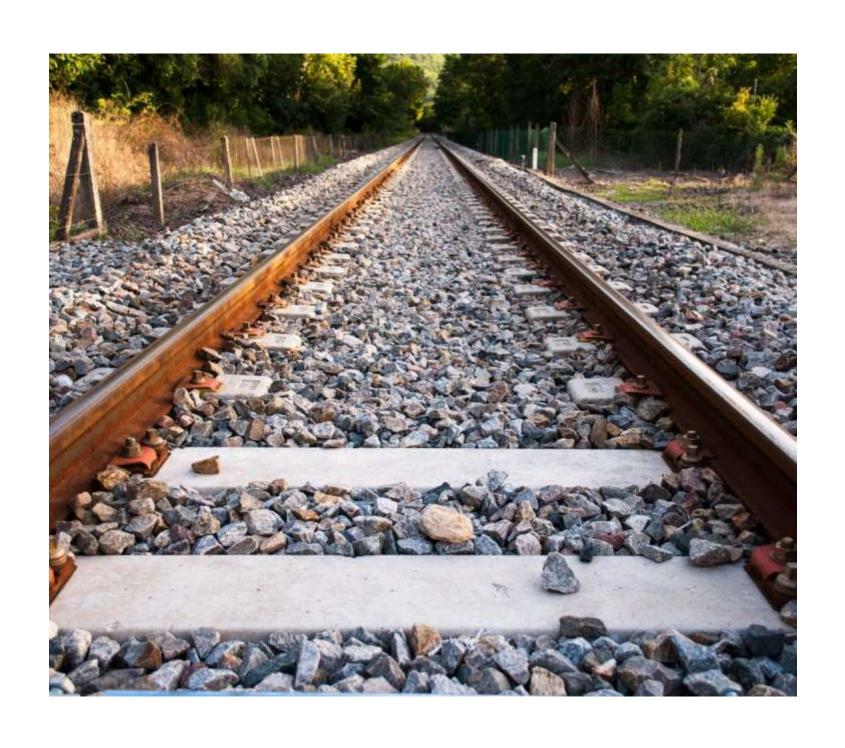




Coreon MKS

MKS2LLOD



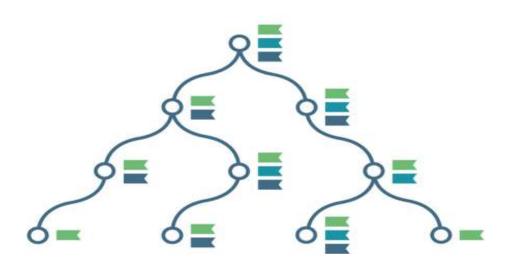


Coreon MKS

MKS2LLOD

#### **Coreon: Multilingual Knowledge System**



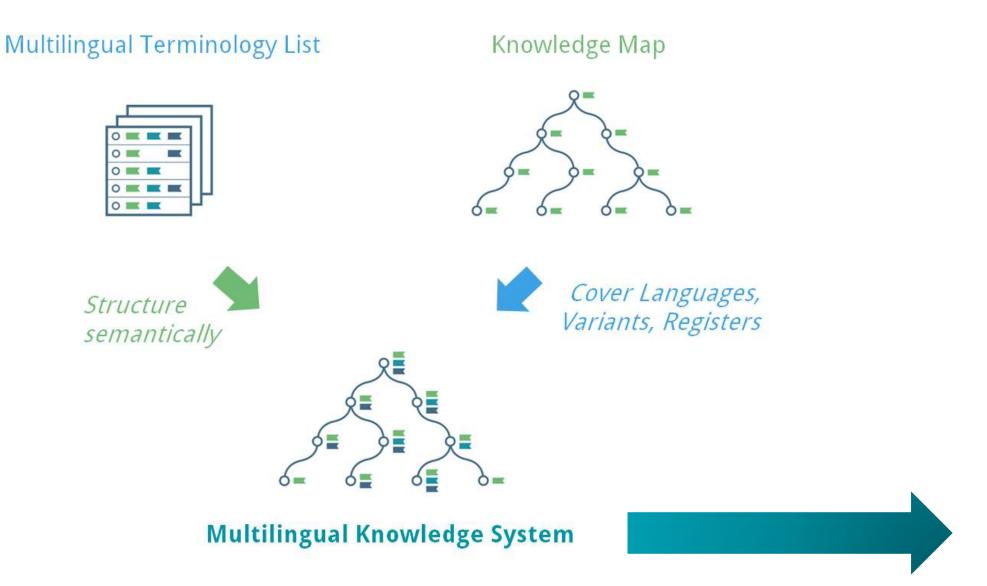


- Combines knowledge graphs (aka concept systems)
   with multilingual terminology
- MKS = semantic bridge between different systems, organizations, cultures
- MKS = systematic terminology management = multilingual knowledge graph
- Software-as-a-service solution, deployed for large scale corporates and institutions

#### Multilingual Knowledge System (MKS): Terminology and Knowledge Graph in One

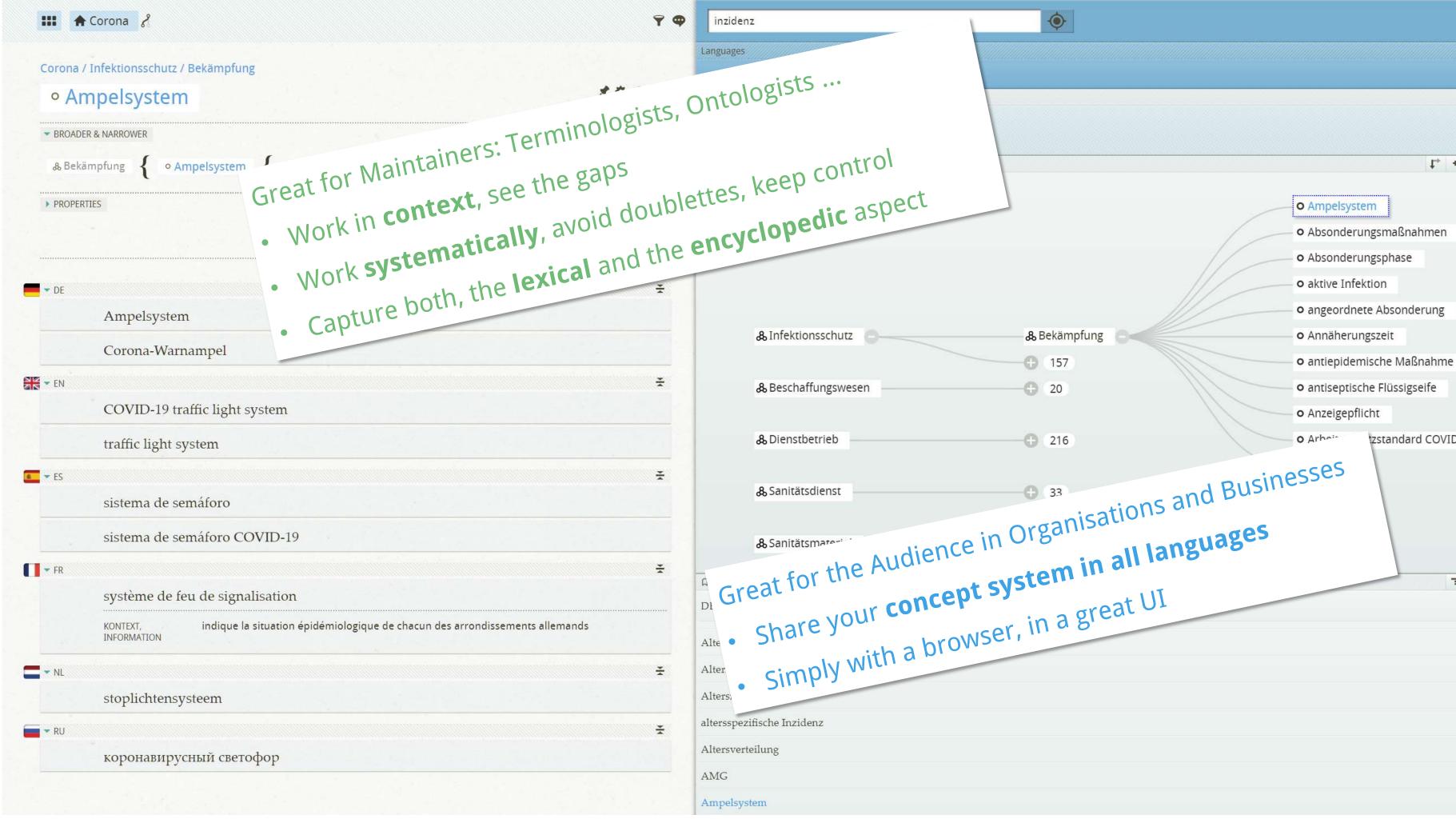


... thus Coreon combines
terminology with the advantages of
a knowledge structure ...
Florian Deubzer, SDI Munich

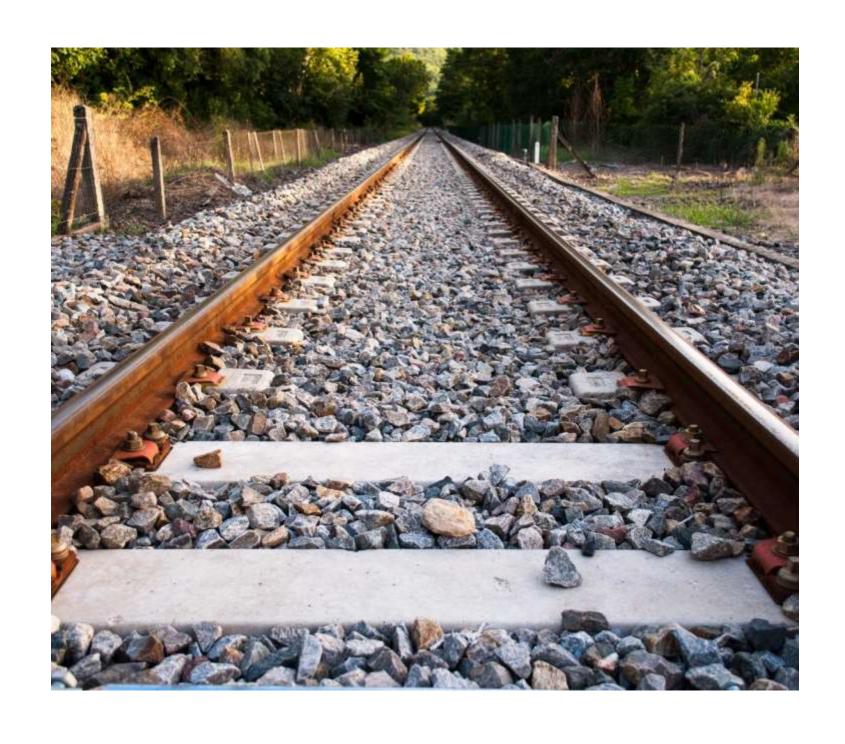


MKS: Delivers what a feature-rich stand-alone terminology management tool delivers

MKS: Models what taxonomy / thesaurus / ontology editors model





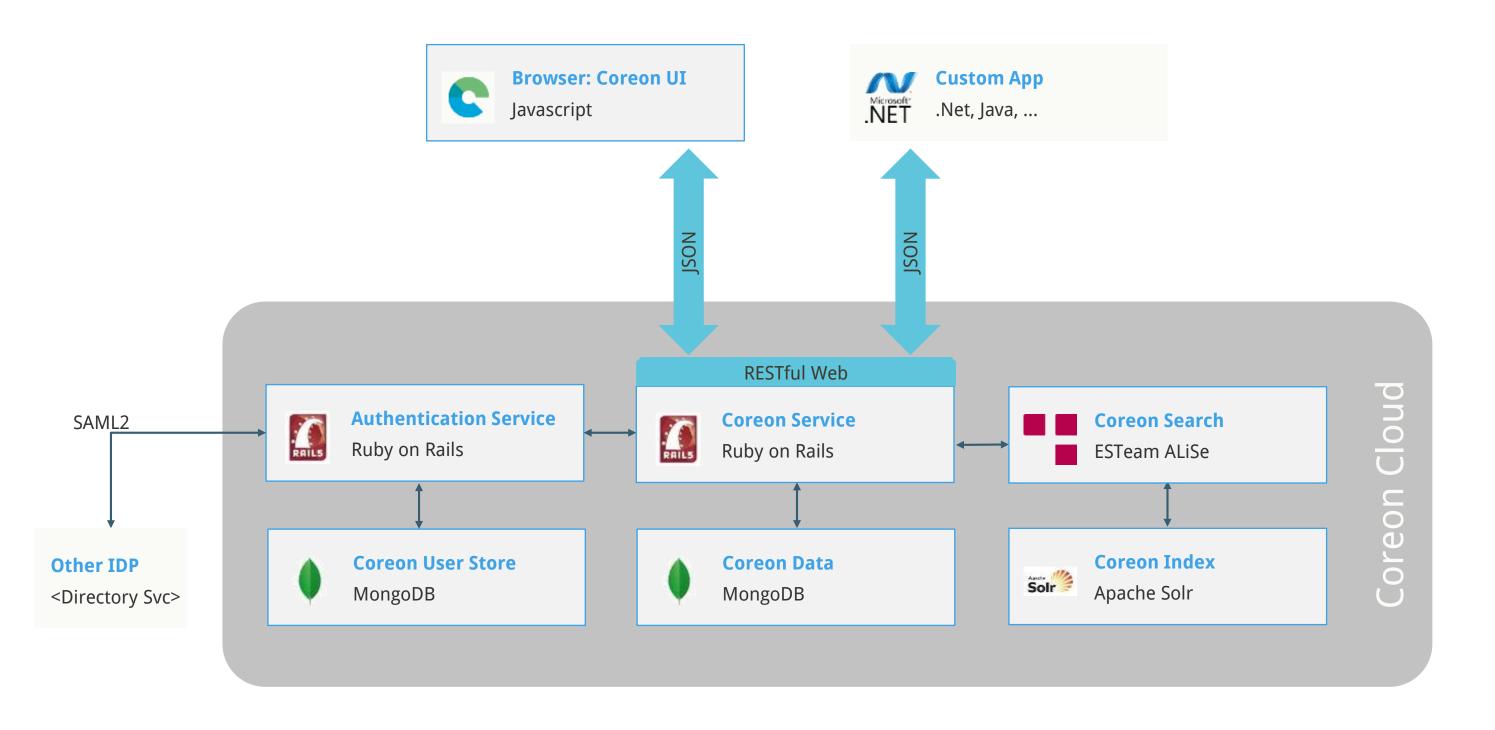


Coreon MKS

MKS2LLOD

## **Building Blocks (before MKS2LLOD)**

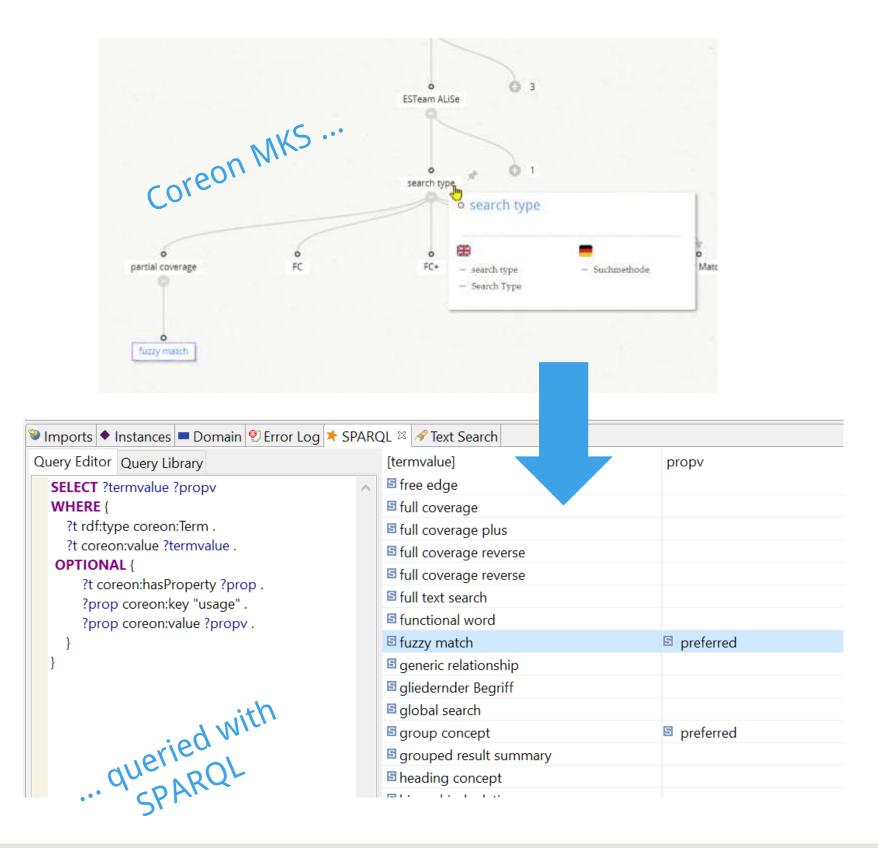




#### **MKS2LLOD Project**



- Instead of using proprietary APIs, achieve **high efficiency** by complementing MKS with standards known from LLOD (Linguistic Linked Open Data)
- Enable companies and institutions make their MKS (= semantic interoperability assets) discoverable and available through ELG
- Develop and complement Coreon with a SPARQL interface, API key based authentication and granular access rights management
- ELG to be a gateway to the SPARQL endpoint = become a platform for the multilingual semantic web



## The Dilemma Up to Today



Knowledge Graphs: SPARQL & RDF  Not appropriate neither designed for terminology

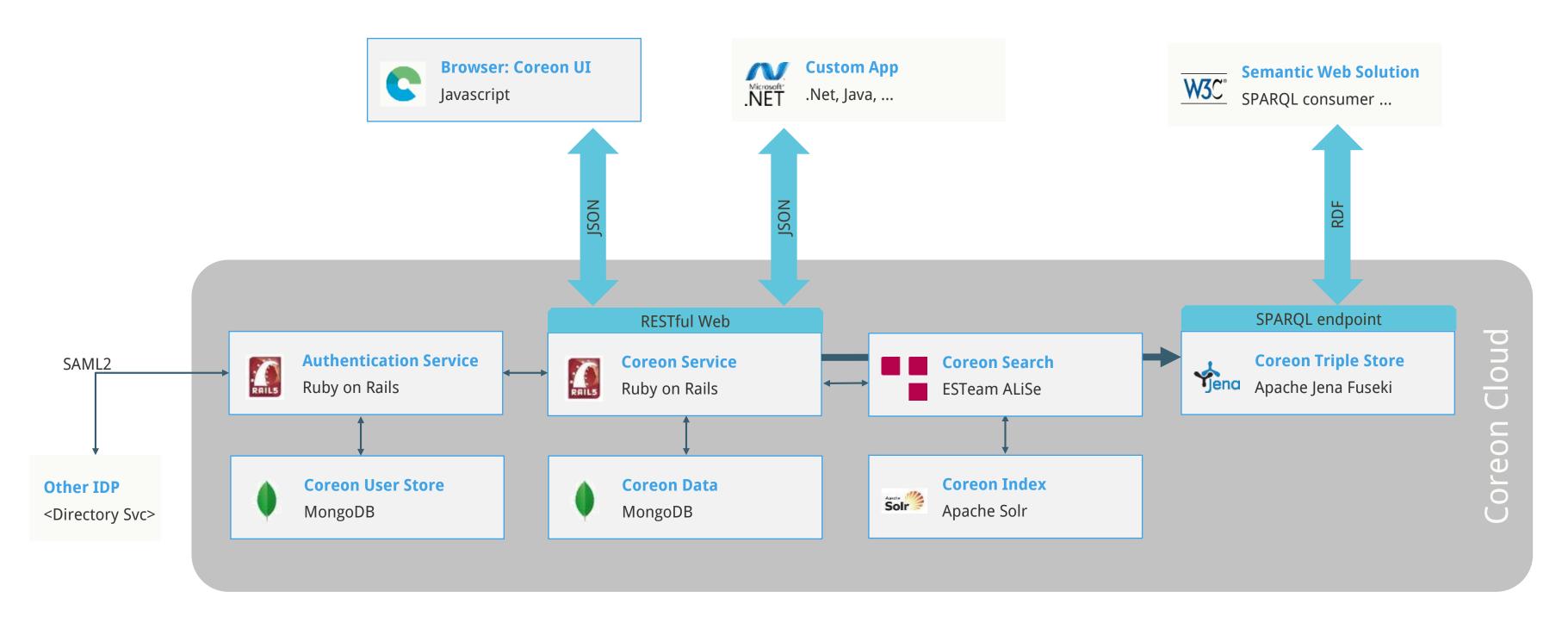
Termbases: Proprietary APIs or TBX

- Not for the Semantic Web
- Tedious exporting / re-

import RDF triple store Lost opportunity to leverage Web Lost oppo

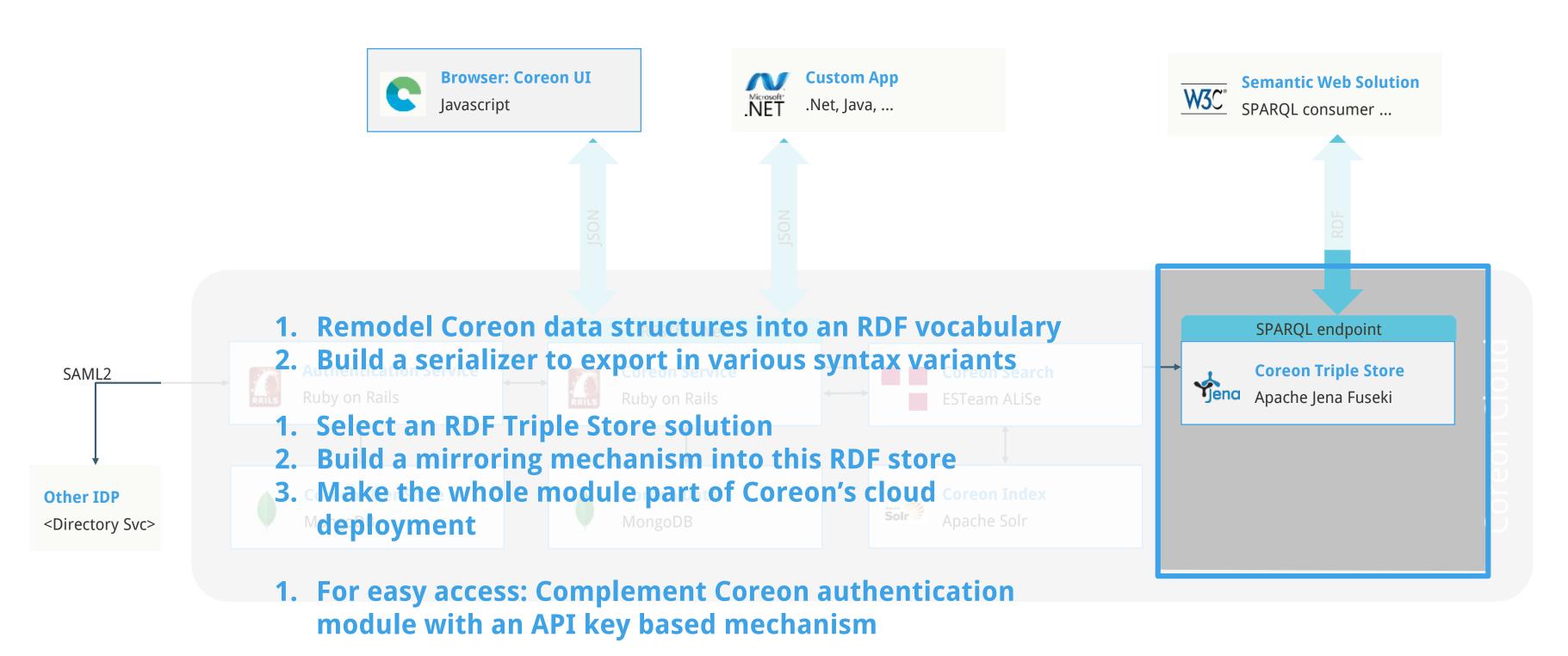
#### **Building Blocks (enriched with MKS2LLOD)**





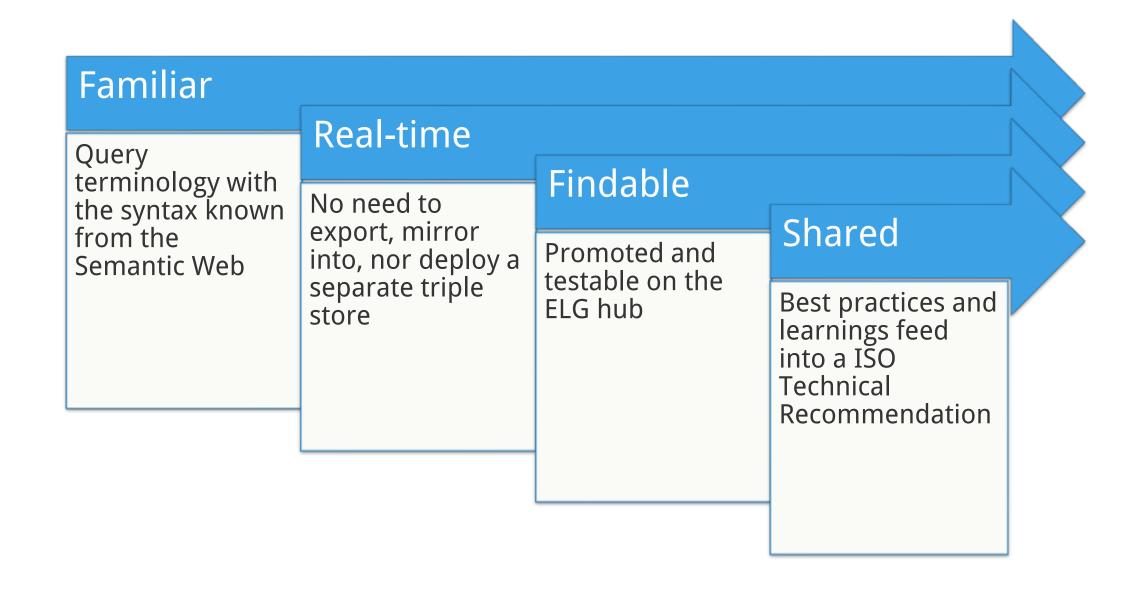
#### Required Activities to Get there





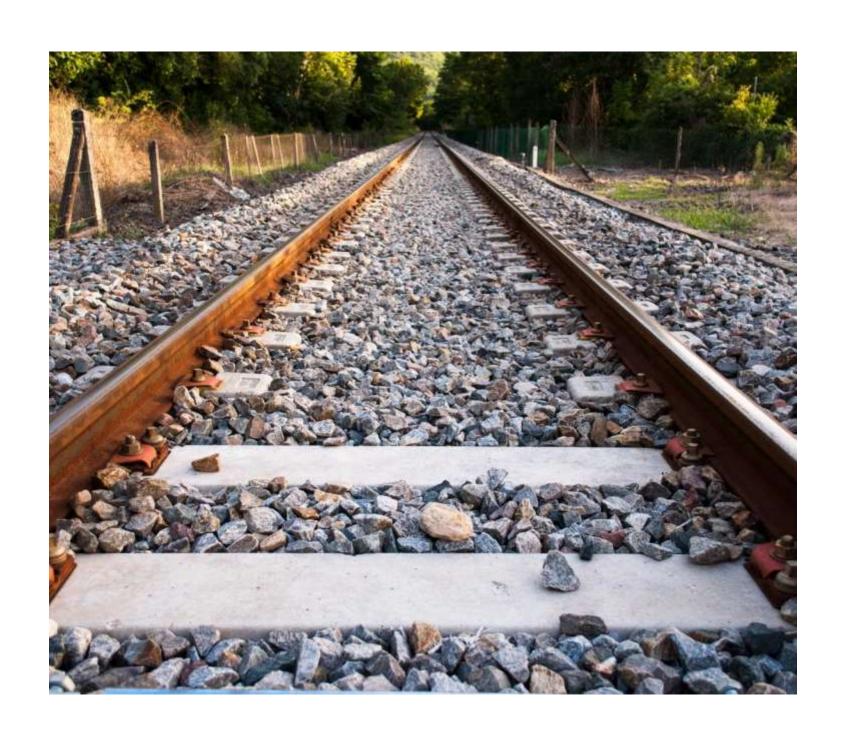
#### **Dilemma Resolved**





Make Terminology
Resources a
Component of the
Semantic Web





Coreon MKS

MKS2LLOD

#### **Impact 1 / 2: Technology Showcase and Best Practices**



SPARQL endpoint to real time Coreon MKS

Integrated in ELG

Standards best practice: modelling terminology in RDF



## Impact 2 / 2: Building Bridges in Businesses and Organisations Coreon



#### **Public Institutions**

 enable cross-border semantic interoperability

#### Corporates

 push concepts and terms into business ecosystems

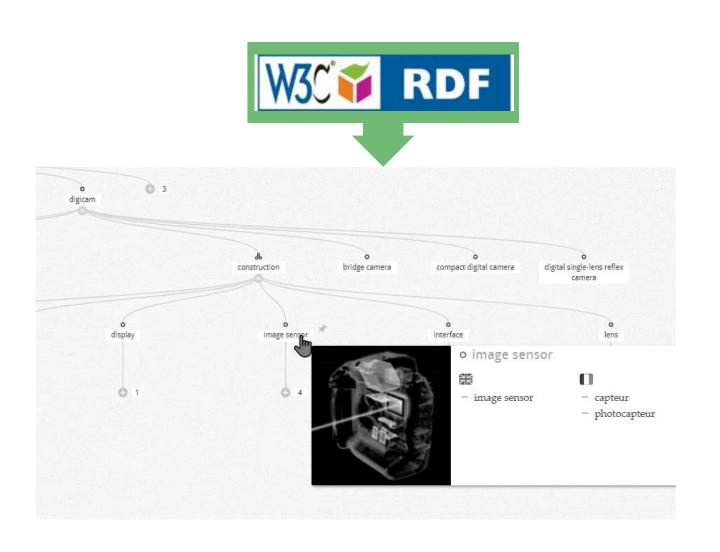
#### Achieve "FAIR"ness

• Findable, Accessible, Interoperable, Reusable



#### **Contact Us**





- www.coreon.com
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- twitter.com/coreonapp
- <u>www.european-language-grid.eu</u>



**EUROPEAN**LANGUAGE
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