Compliance with metadata

IRIS 2017 Salzburg by Rigo Wenning ERCIM/W3C Legal counsel







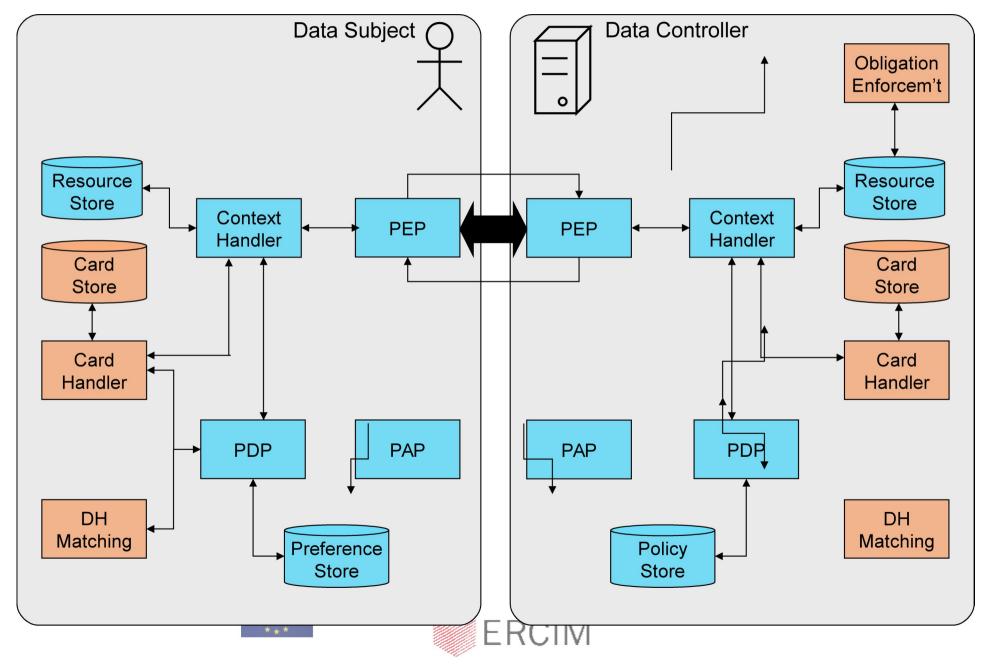


Corporate compliance

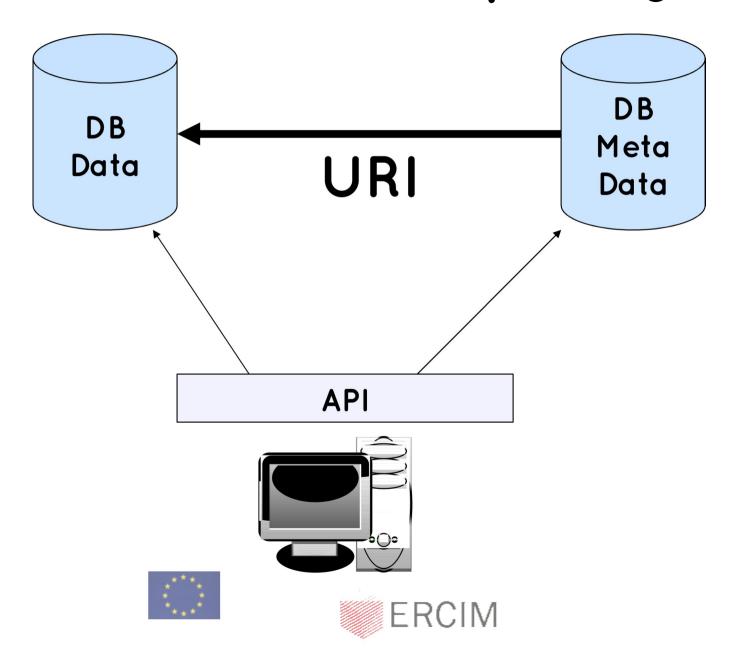
- Policy on reporting & Notification
- Data access policies & global data handling
- Rights management
- Client relation management
- Global skills management
- Provenance
- Data quality



Expected complexity



Actual complexity

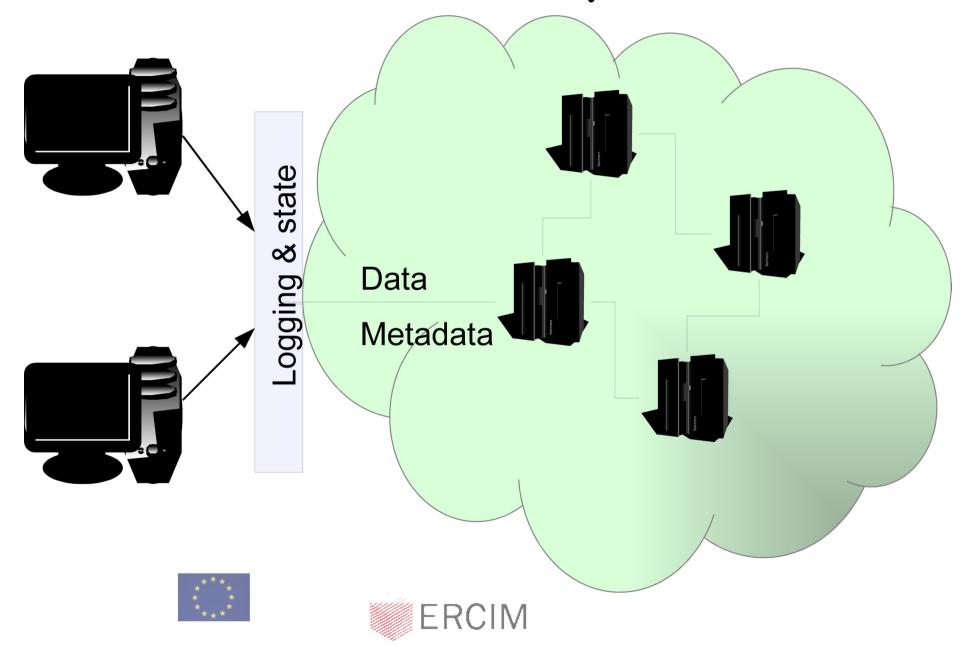


How?

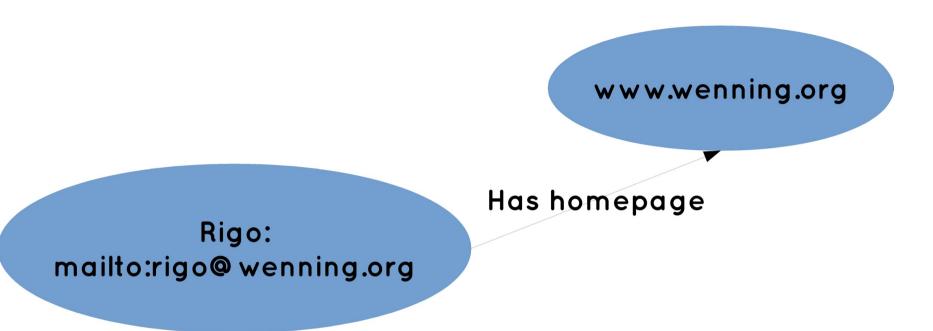




Data collection points



Linked data

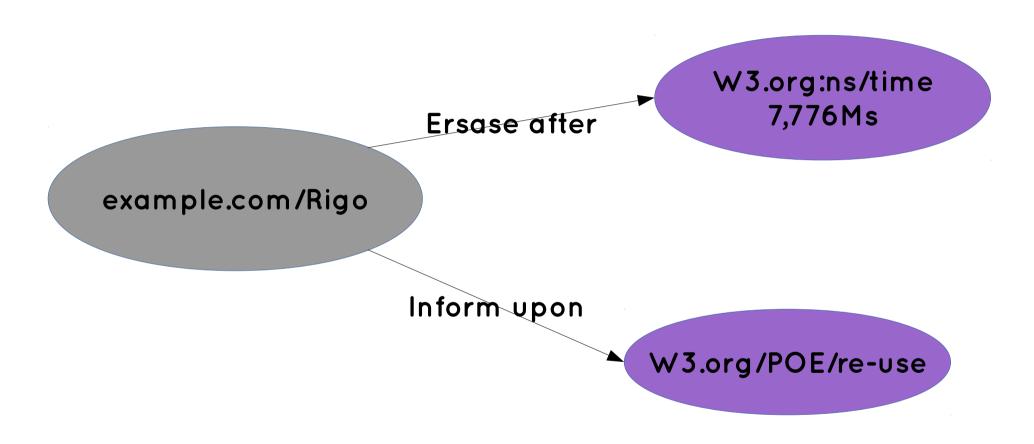


Has set

Do not Track: w3.org/DNT



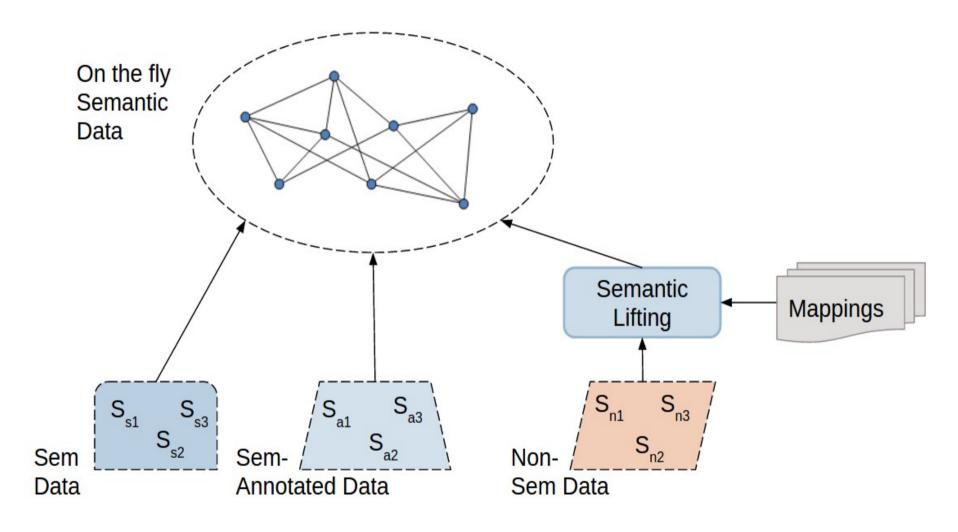








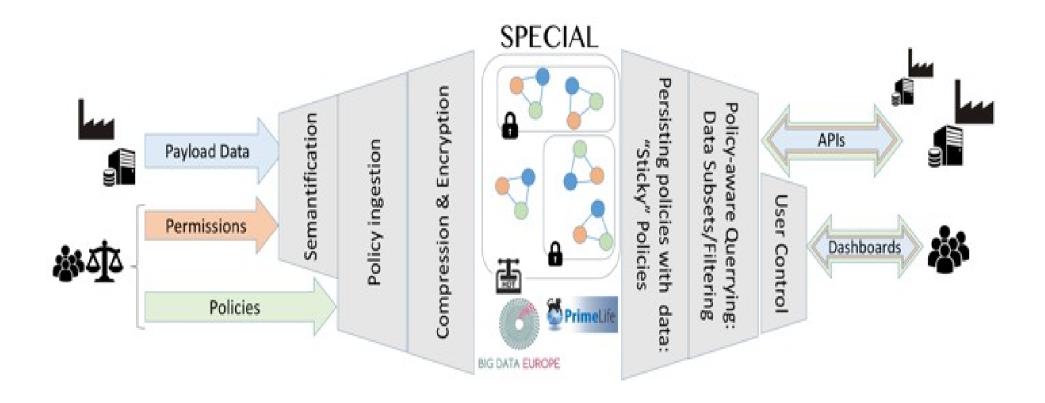
Semantic Lifting







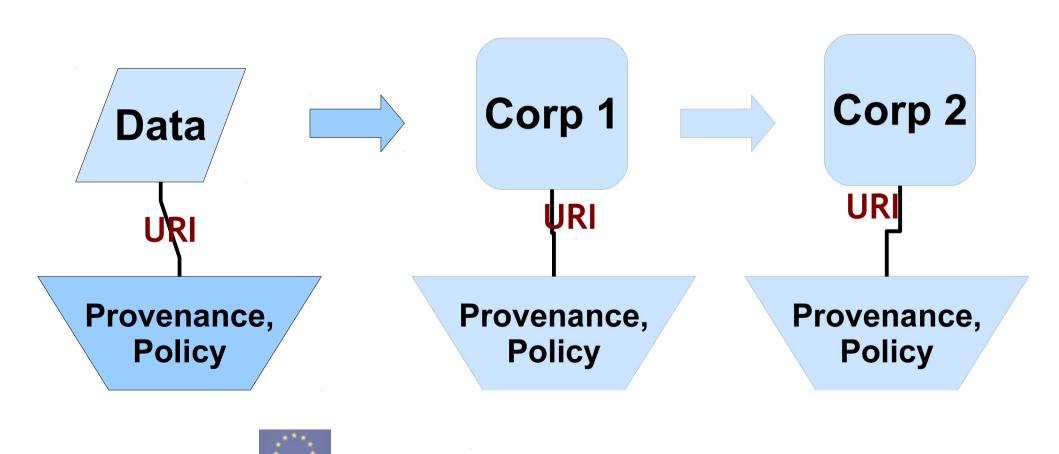
The SPECIAL model







Corporation Transborder Flow



Legal blessing Art.21 (5) GDPR

 In the context of the use of information society services, and notwithstanding Directive 2002/58/EC, the data subject may exercise his or her right to object by automated means using technical specifications.

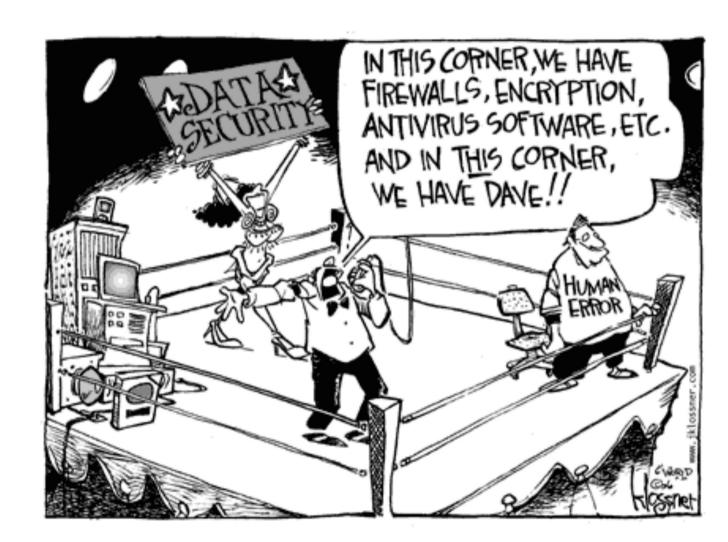




Questions

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Keywords to continue:
Prime-project.org primelife.eu
Permissions & Obligations
Do-Not-Track
DCAT



Reserve





How? Governance with Metadata

- Semantify legacy data
- Acquire data with their context
- Data handling for Privacy and Access control
- Context dependent data handling
- Rights management
- Obligation management
- Provenance

Semantify data at collection time

- At collection time, the collection policy is known.
- At collection time, necessary permissions are given
- Compliance policy under which data is acquired
- Retention times etc

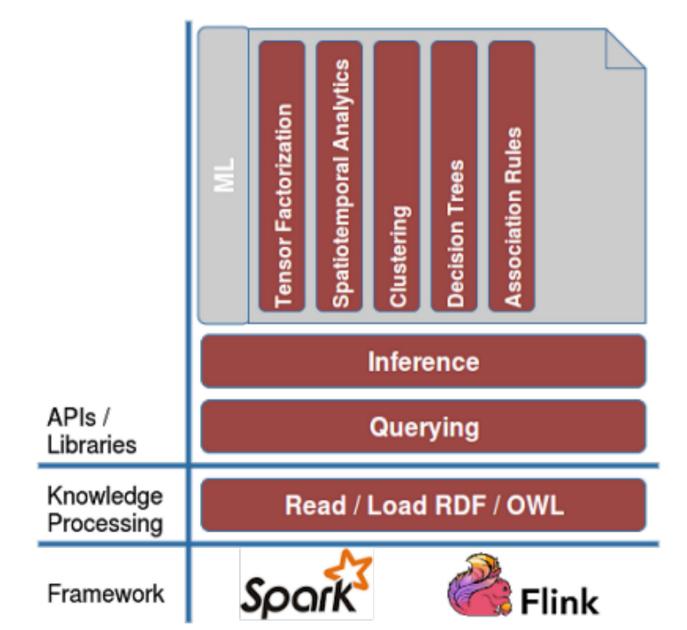
Big data integration

- https://www.big-data-europe.eu/
- Lambda Architecture
- Docker swarm
- SANSA semantification
- Runs out of the box

Semantic Analytics Stack (SANSA)

- Abundant machine readable structured information is available (e.g. in RDF)
 - Across SCs, e.g. Life Science Data
 (OpenPhacts)
 - General: DBpedia, Google knowledge graph
 - Social graphs: Facebook, Twitter
- Need for Scalable structured analysis
 - Link prediction
 - Knowledge base completion
 - Predictive analytics

SANSA Stack



Semantify Legacy data

- Adding a scheme to identify each record with a URI
- Register pointer with Metadata DB
- Assess compliance against Metadata DB
- Execute into legacy DB

Concept can be extended

- Payment conditions in elnvoicing (e.g. ZUGFeRD) and object association
- Legal obligations (e.g. Notifications)
- Guarantee
- Environmental restrictions
- Data pooling and Cooperation
- Virtual cooperation environments