



Platform Linked  
Data Nederland

# Linked Data Reactor (LD-R)

## Building Flexible and Reusable Semantic Web Interfaces

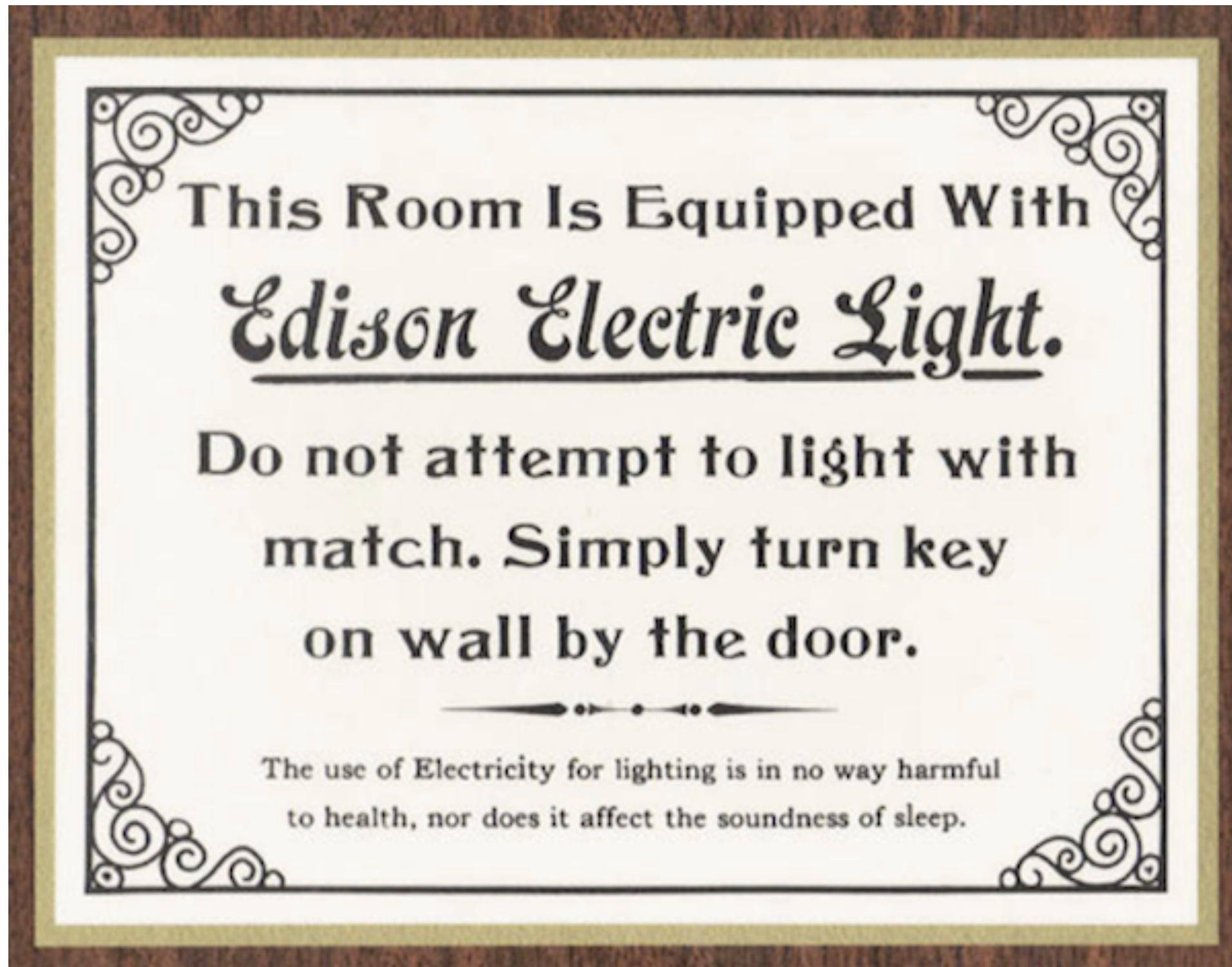
10.05.2016

**Ali Khalili, PhD**

**Knowledge Representation & Reasoning Group  
Vrije Universiteit Amsterdam**





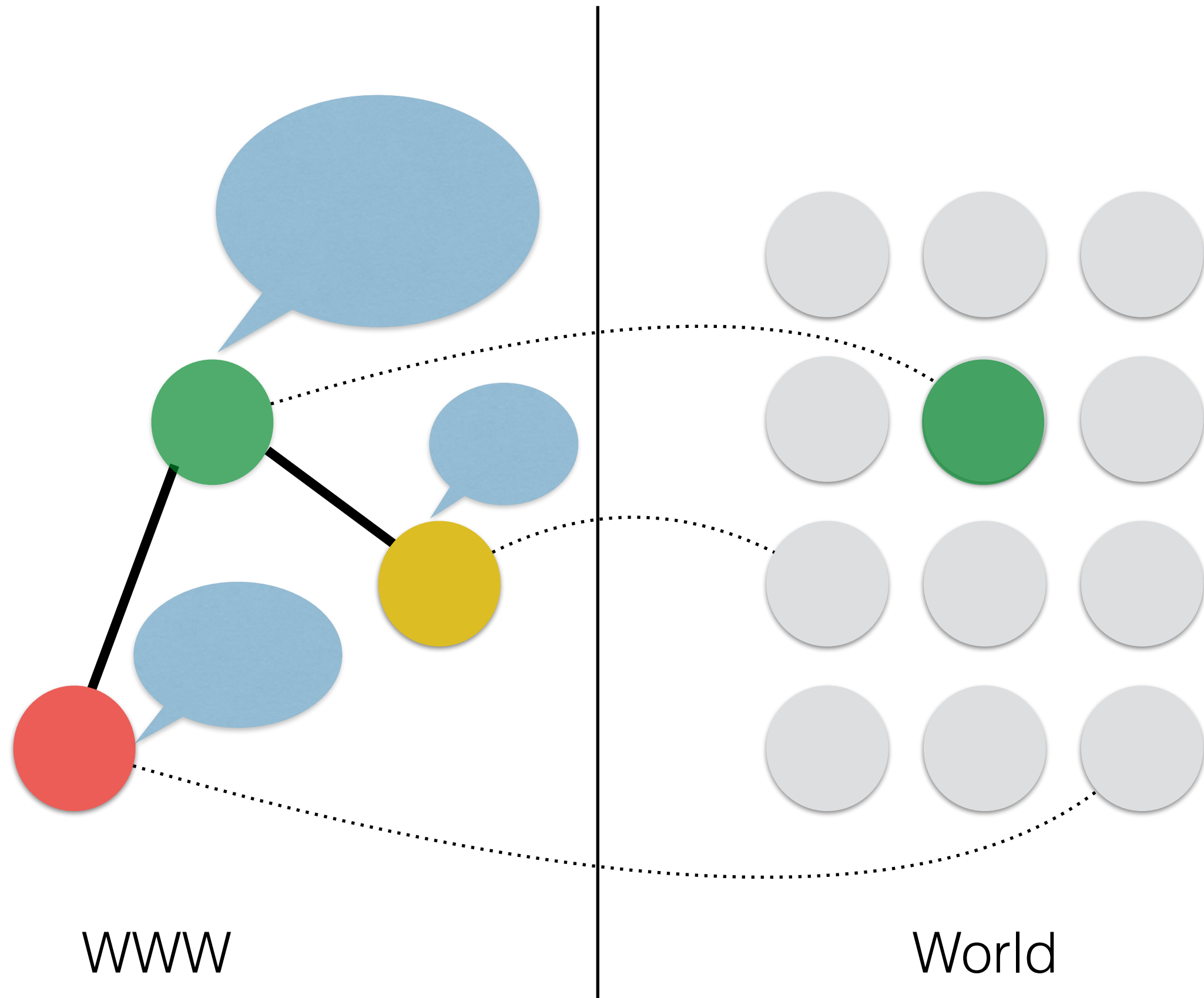


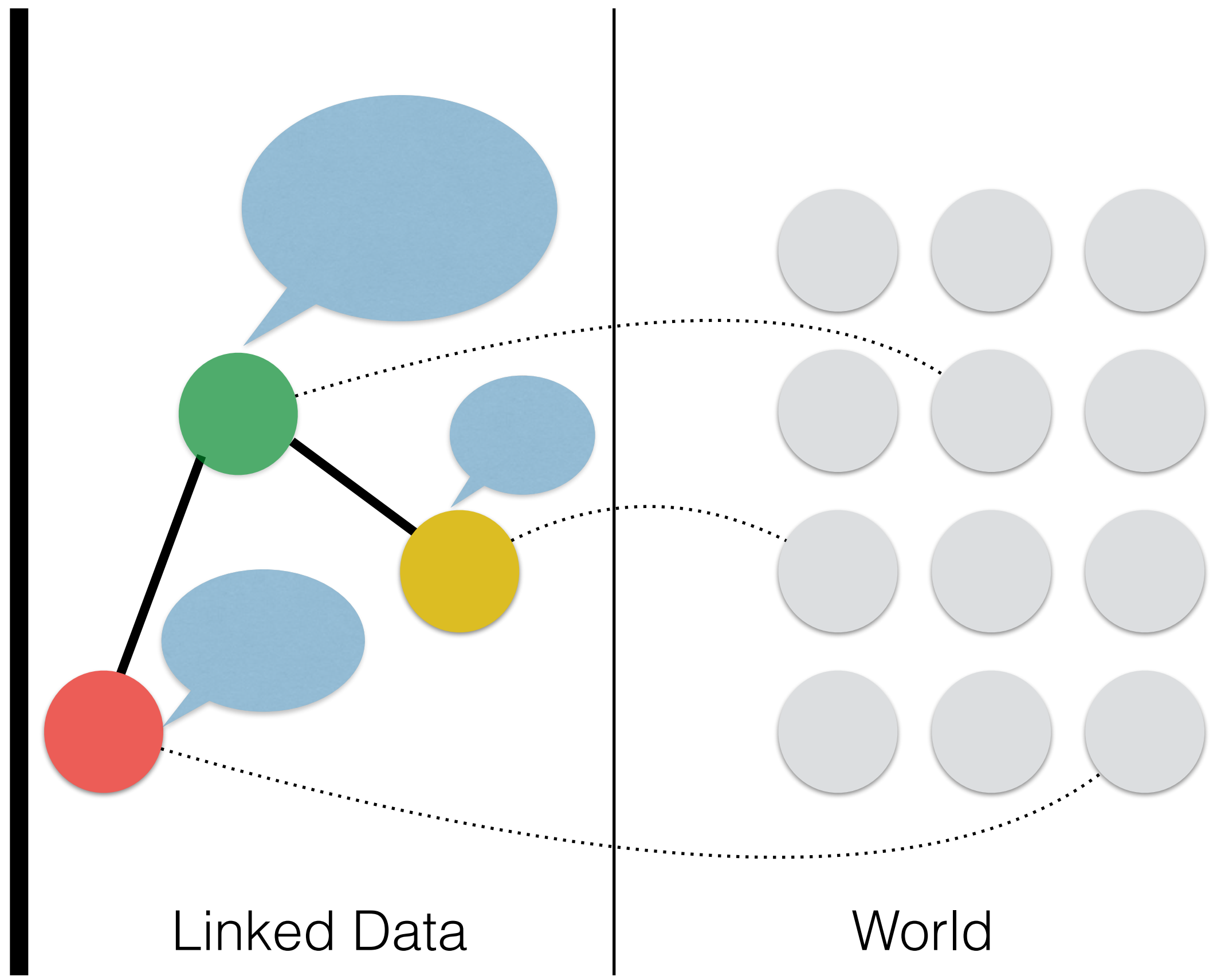
<https://uxmag.com/articles/does-skeuomorphic-design-matter>

**“One way of overcoming the fear of new is to make it look like the old.”**

*Donald A. Norman*







Humans

Linked Data

World



Display RDF data to the users as a graph  
because the underlying data model is a graph...

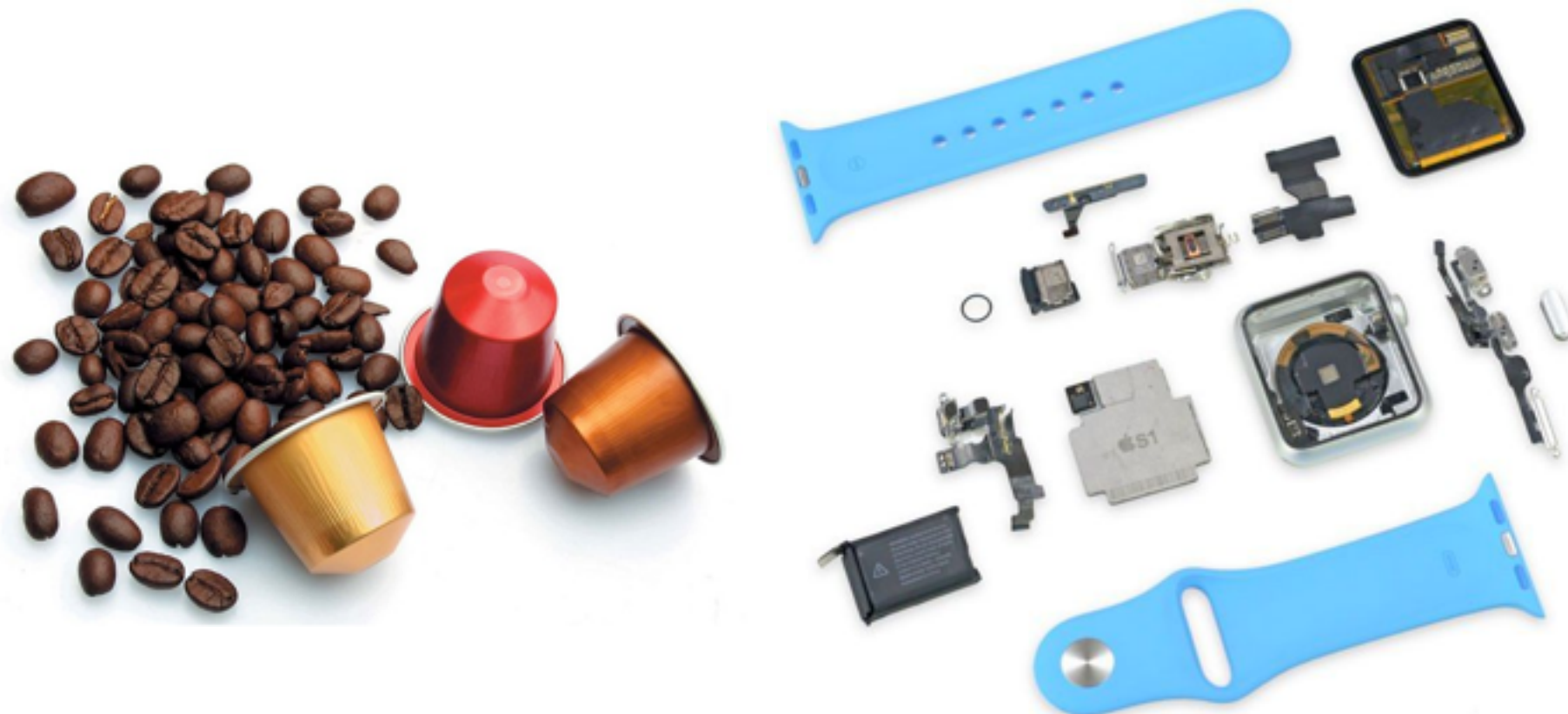
David Karger and MC Schraefel. The pathetic fallacy of rdf. Position Paper for SWUI06, 2006

# Law of conservation of complexity

“Every application has an inherent amount of complexity that cannot be removed or hidden. Instead, it must be dealt with, either in **product development** or in **user interaction.**”

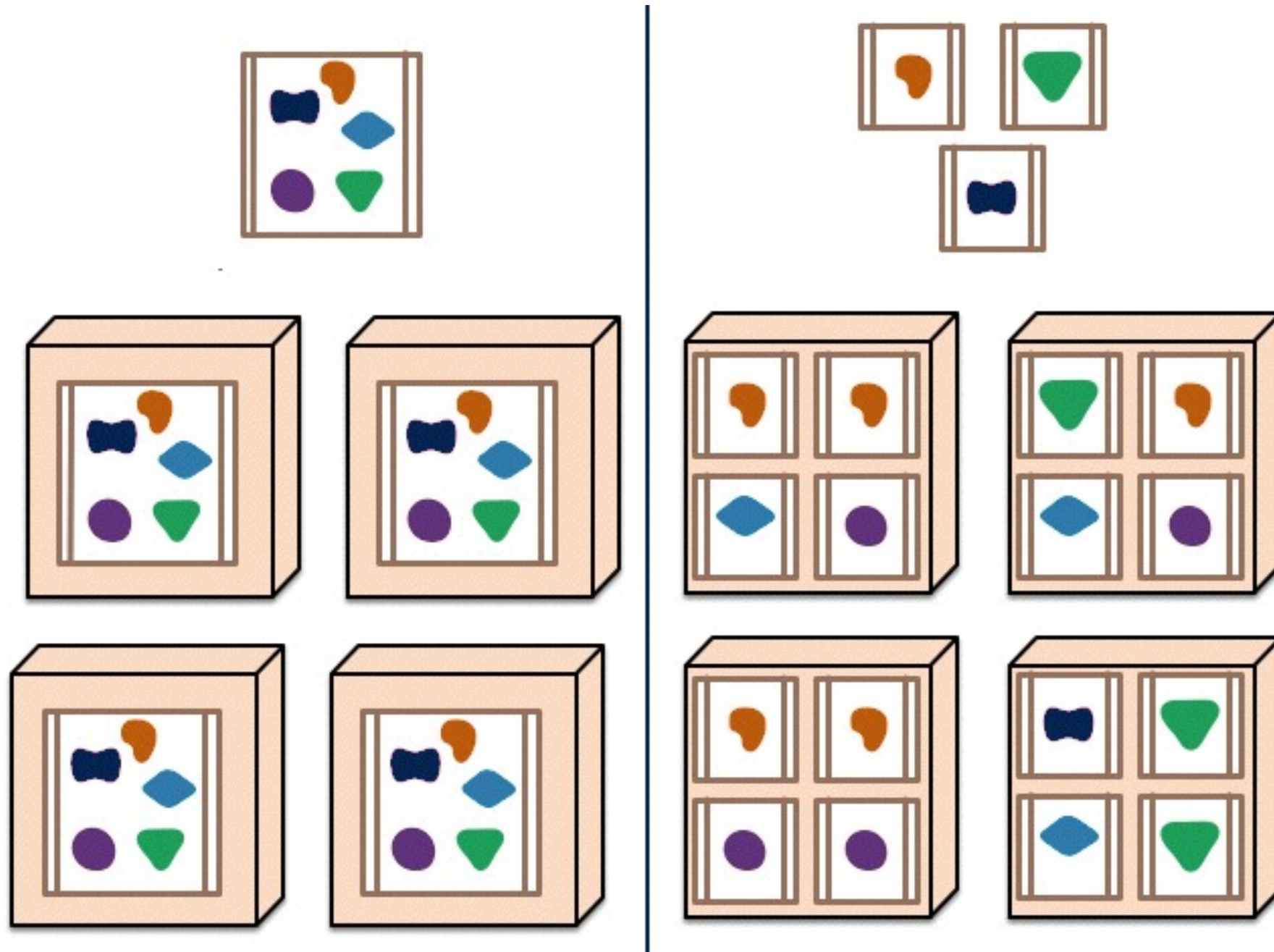
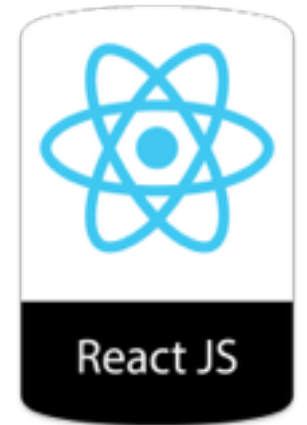




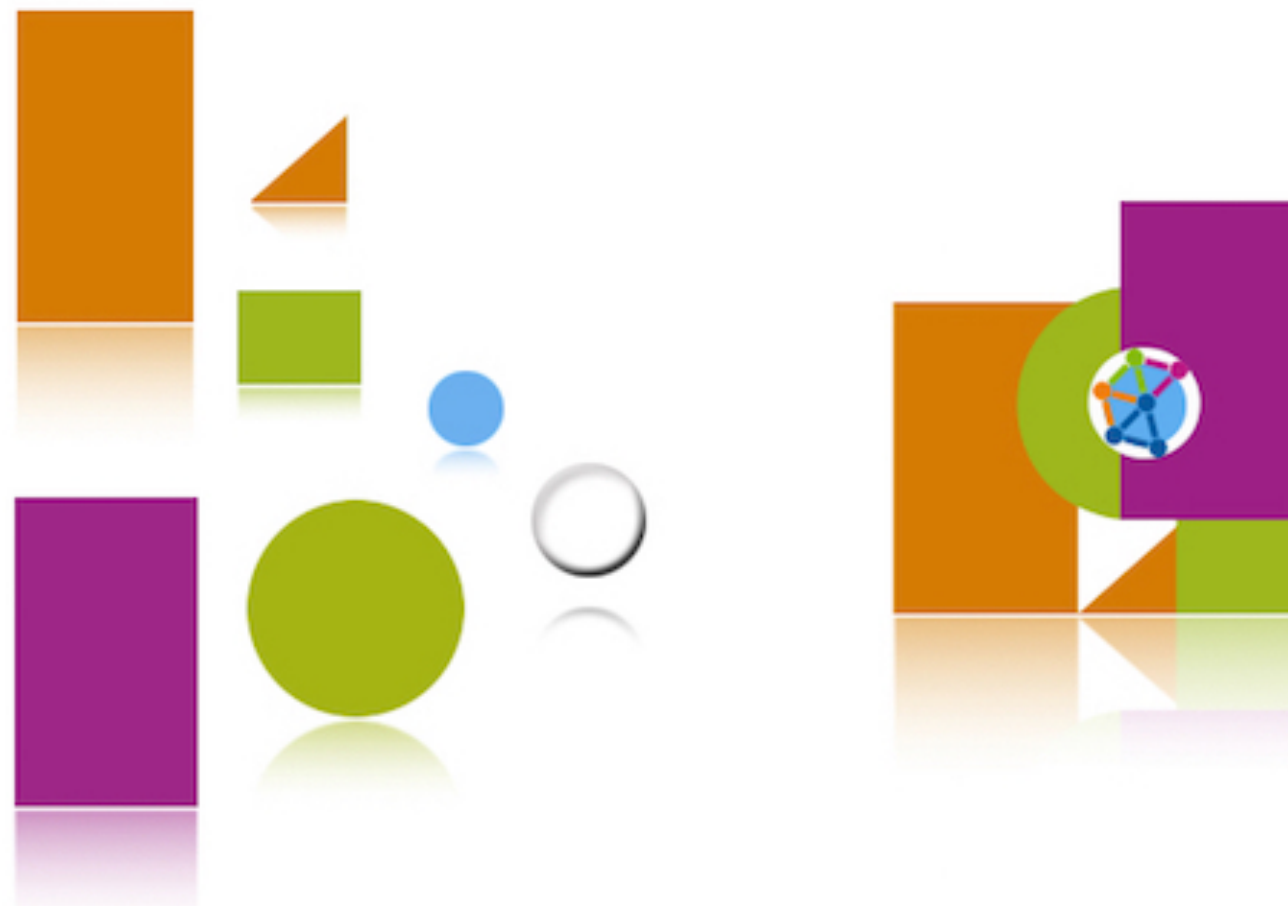




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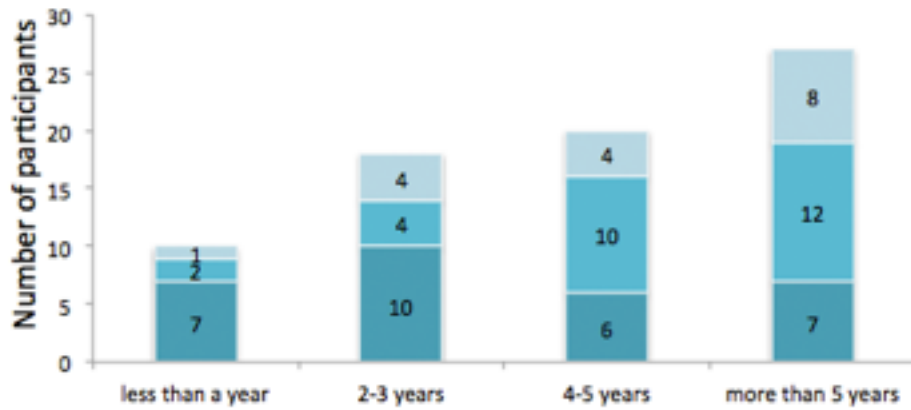
# RDF + Web Components



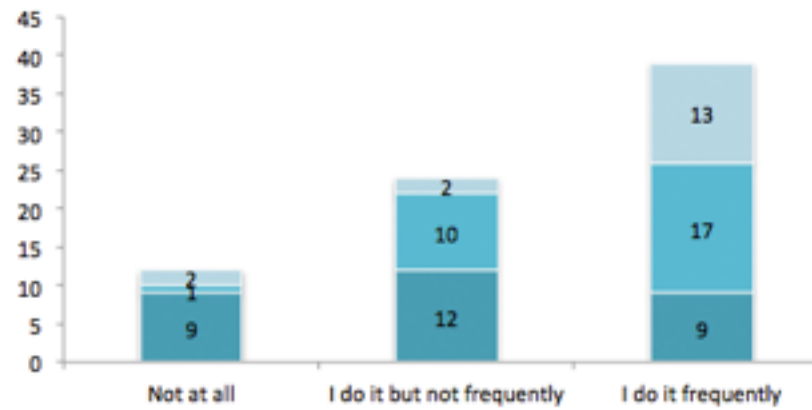
<http://ld-r.org>



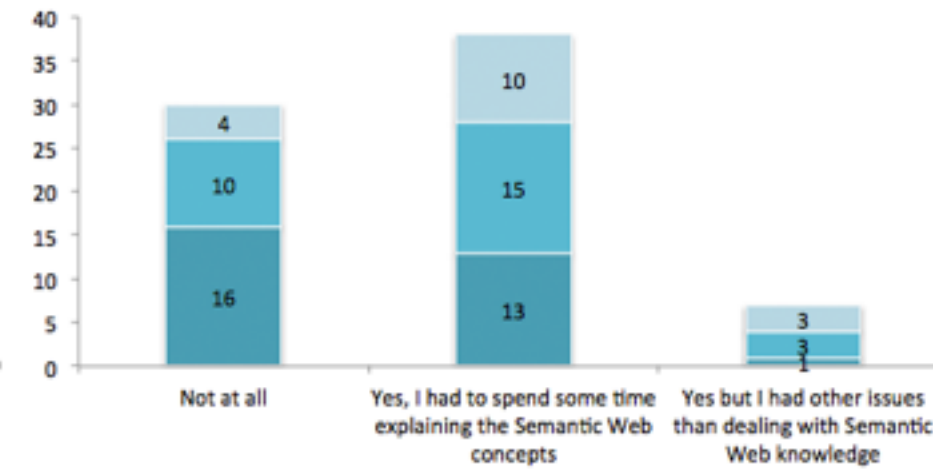
### Knowledge of Semantic Web



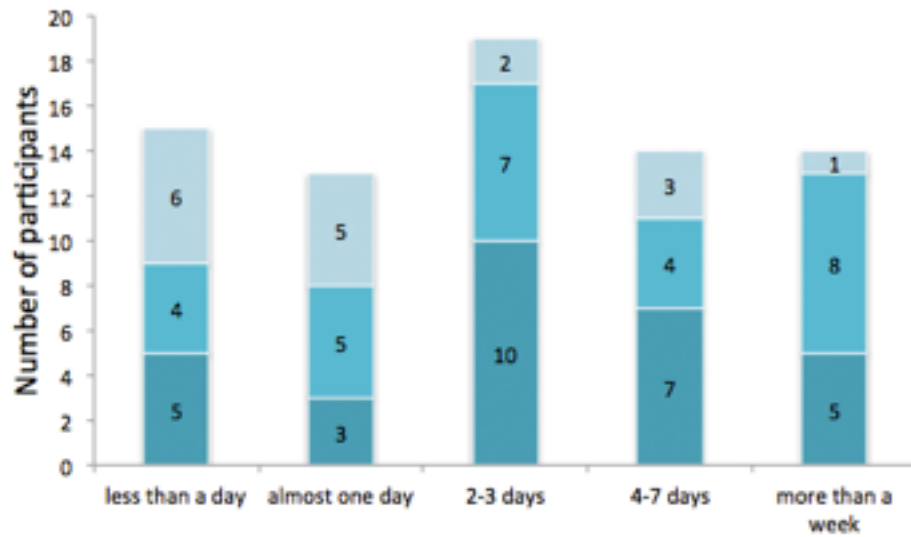
### UI Adaptation



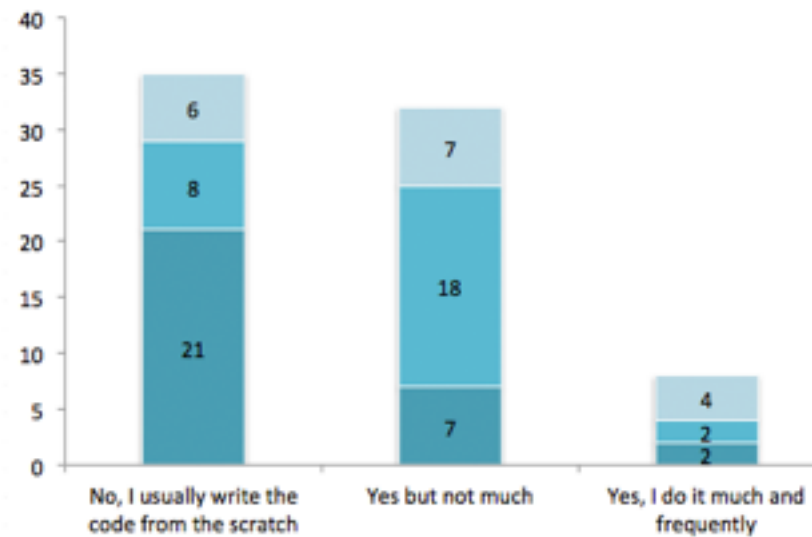
### Adoption issues with non-SW users



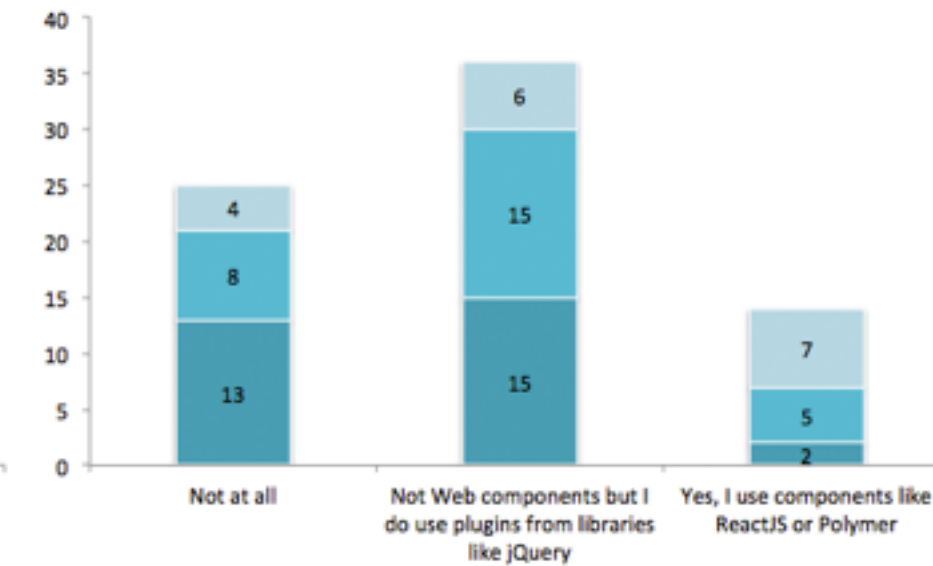
### Time spent on bootstrapping the UI



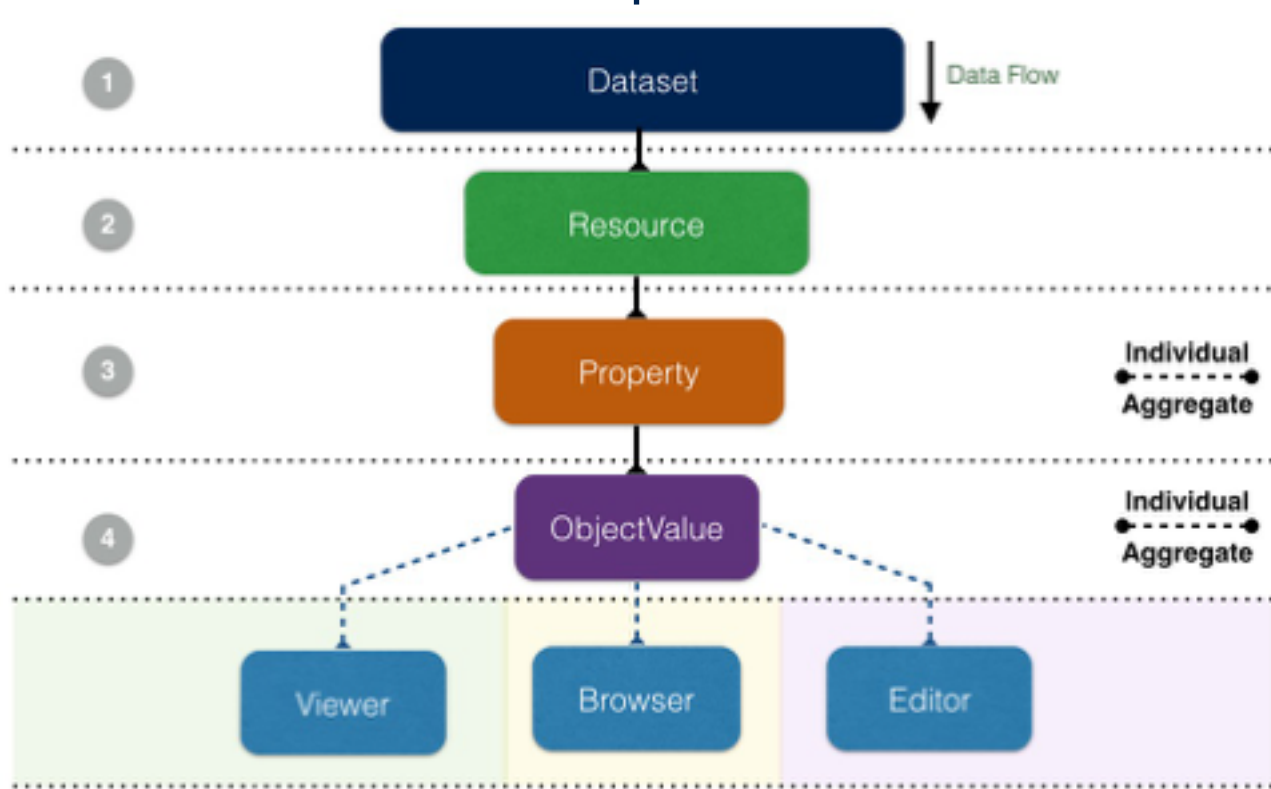
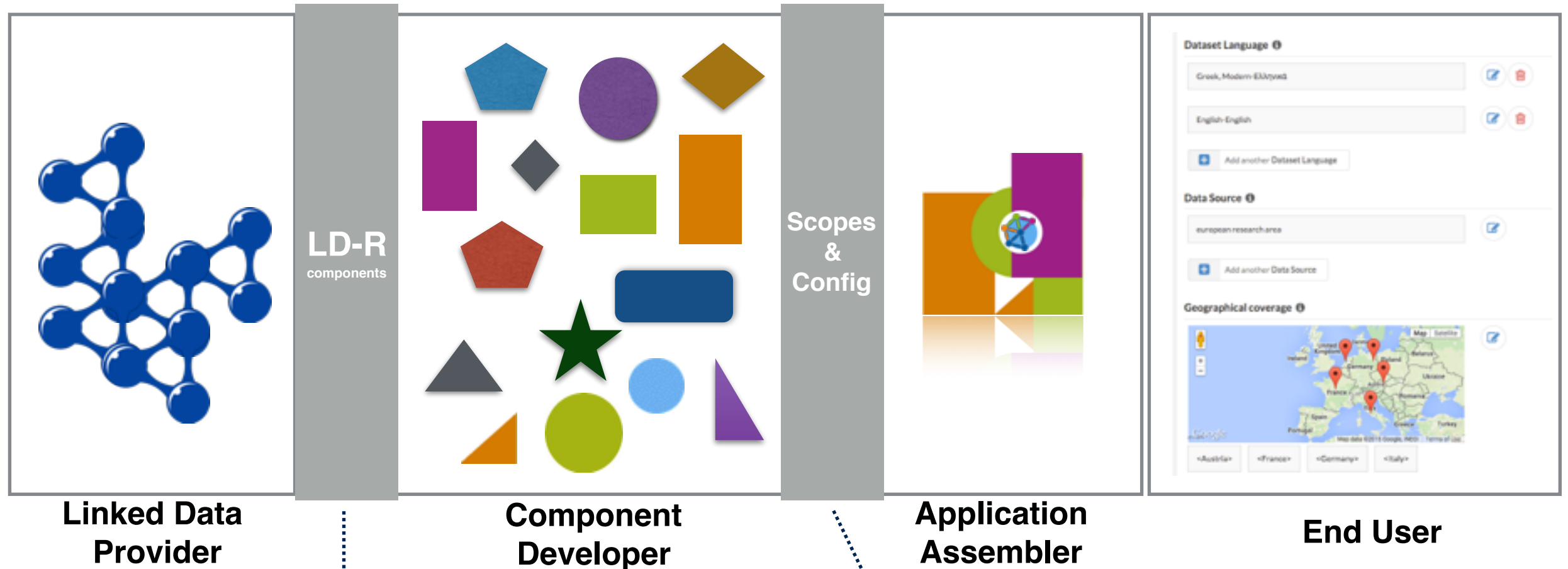
### Code Reuse (Copy/Paste)

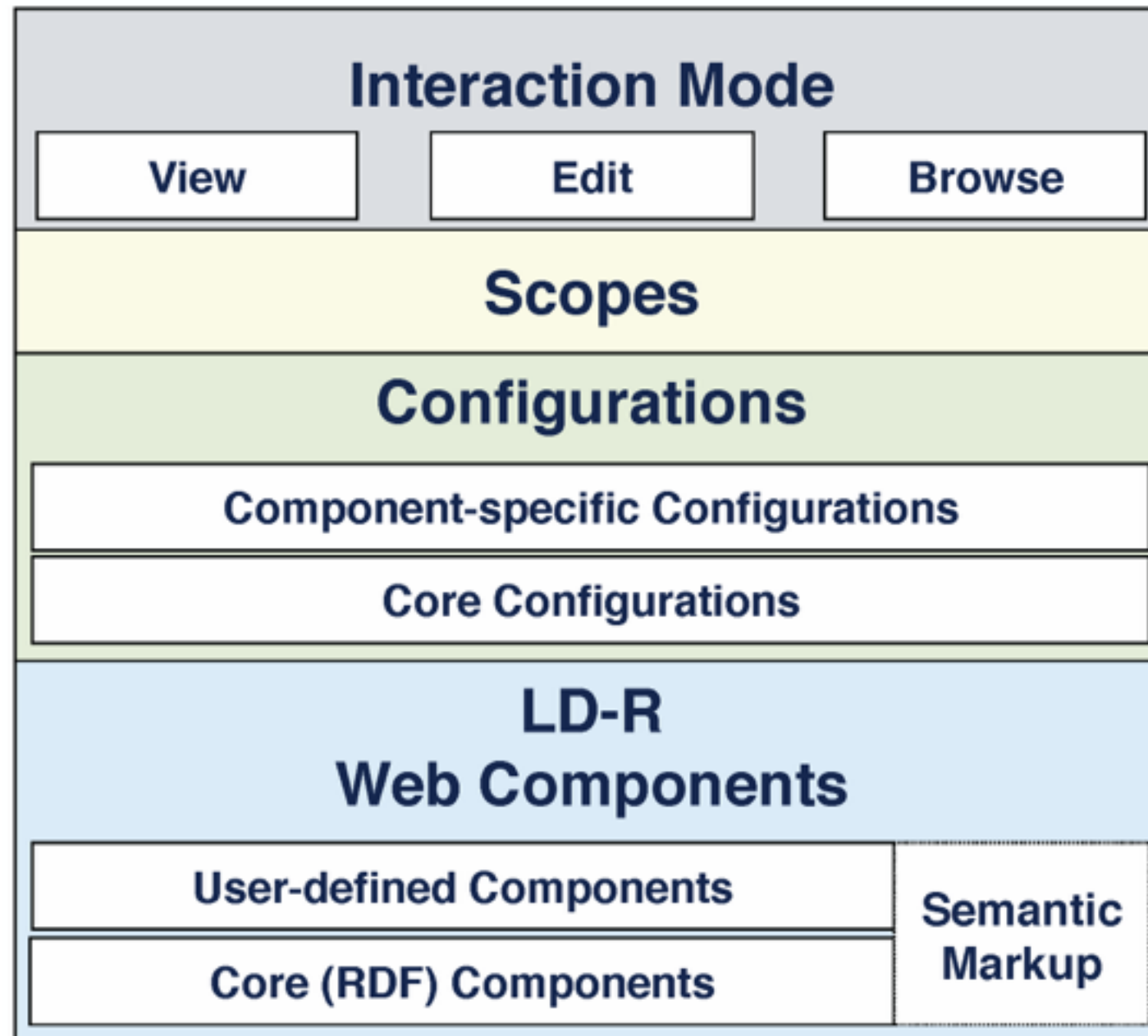


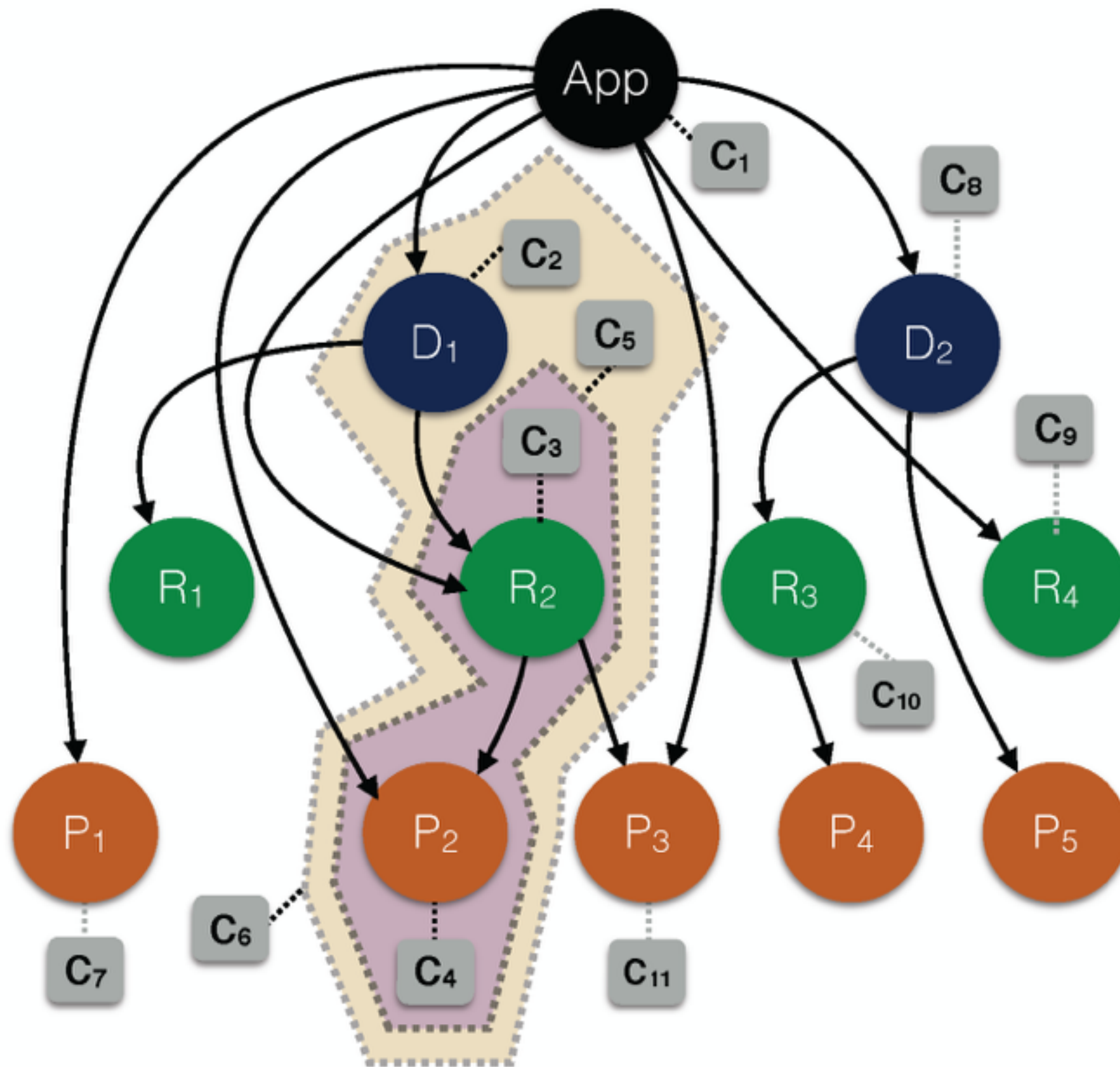
### Code Reuse (Web Components)













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    shortenURI: 1
  }
},
property: {
  `generic': {
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    objectReactor: ['IndividualObject'],
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    objectEditor: ['BasicIndividualInput']
  },
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```

[ISOMORPHIC] REACTIVE UI COMPONENTS

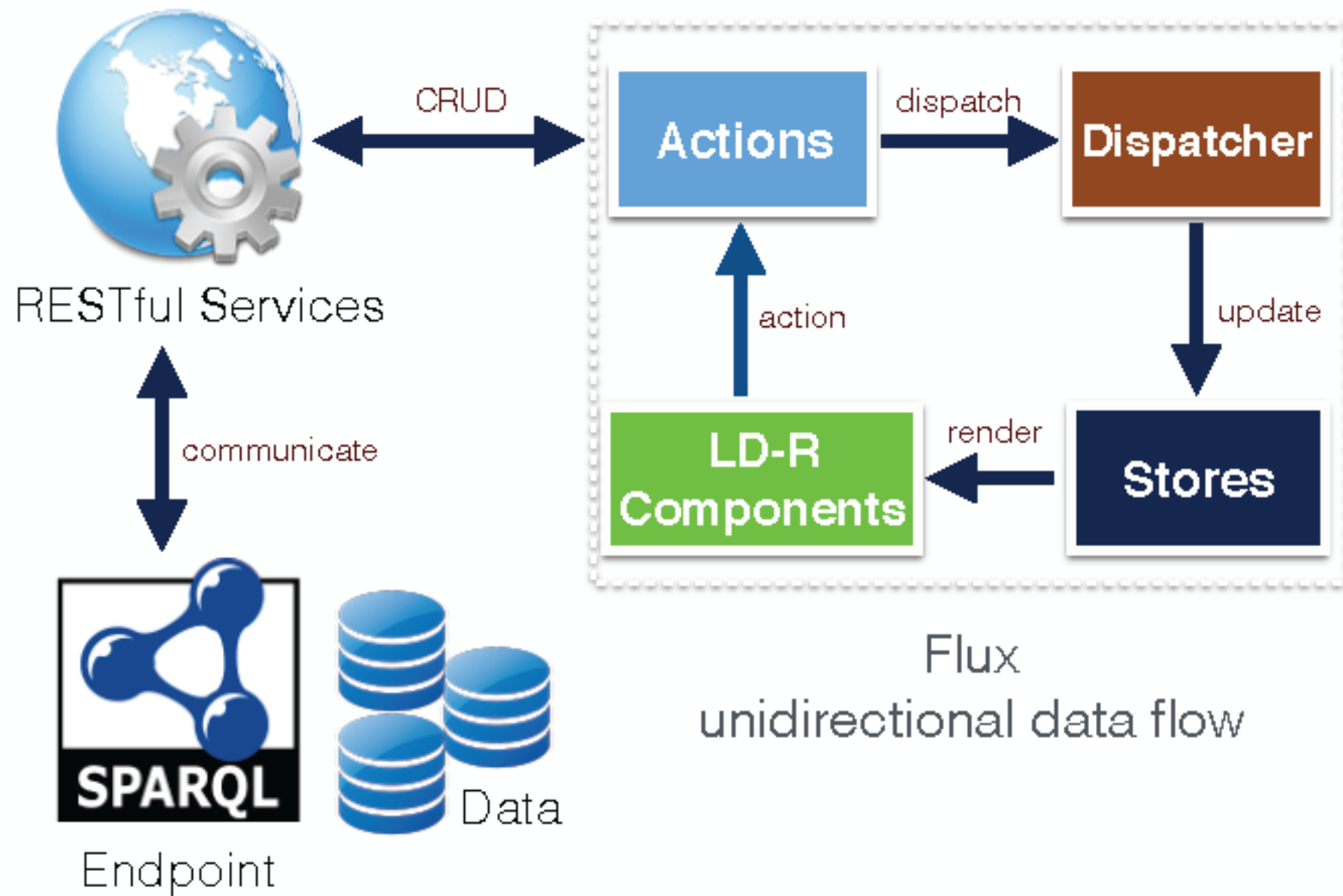


MICROSERVICES / WEB APIS



LINKED DATA








Bootstrapping LDA UIs

Standardization and Reusability of LDA UIs

Customization and Personalization of LDA UIs

Adoption of LDA UIs by non-Semantic Web developers and end-users



**RISIS**  
Research infrastructure for research and innovation policy studies

Datasets Portal   SMS Platform   Cortext Platform   demo ▾

Search within RISIS datasets...

- EUPRO – Database on European Framework Programmes**

The EUPRO dataset comprises information on R&D projects and all participating organizations funded by the European Framework Programmes (FP).

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- The Example Dataset**

A description of the dataset

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- The CIB Dataset**

The CIB (Corporate Invention Board) dataset is an original patent database, which combines financial information extracted from the ORBIS financial database and patent data extracted from the PATSTAT-IFRIS patent database.

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- The ETER Dataset**

The ETER-EUMIDA dataset is a set of databases providing a register of European Higher education Institutions and containing basic statistical information on them, including descriptors, geographical information, students and graduates, personnel, finances, and research activities.

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- The JOREP Dataset**

JOREP is a database on the transnational research programmes funded by the EU and by member states in eleven European countries. JOREP allows analyses of the modes of the ERA dynamics, figuring out the national and European strategies of participation and resource mobilization (funding).

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- The Leiden Ranking Dataset**

The CWTS Leiden Ranking is a database of a university ranking focusing on output and impact of research. The underlying data are collected and processed from the CWTS version of Web of Science (WOS).

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- The MORE1 Dataset**

The Mobility Survey of the Higher Education Sector (MORE I) dataset targets researchers working in different fields at higher education institutes in all EU27 countries. The study provides measures of flows of international (and sector) mobility, of factors that influence mobility, and of effects that can be linked to researcher mobility.

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- The NANO Dataset**

The Nano S&T dynamics database (Nano) developed by IFRIS collects publications and patents between 1991 and 2010 about nano S&T. One central characteristics of emerging S&T is that they do not correspond to pre-existing categorisations and

# EUPRO - Database on European Framework Programmes

- Overview
- People
- Date
- Legal Aspects
- Access/Visit
- Technical Aspects
- Content/Structural Aspects

## Title

EUPRO - Database on European Framework Programmes



## Textual description

The EUPRO dataset comprises information on R&D projects and all participating organizations funded by the European Framework Programmes (FP).

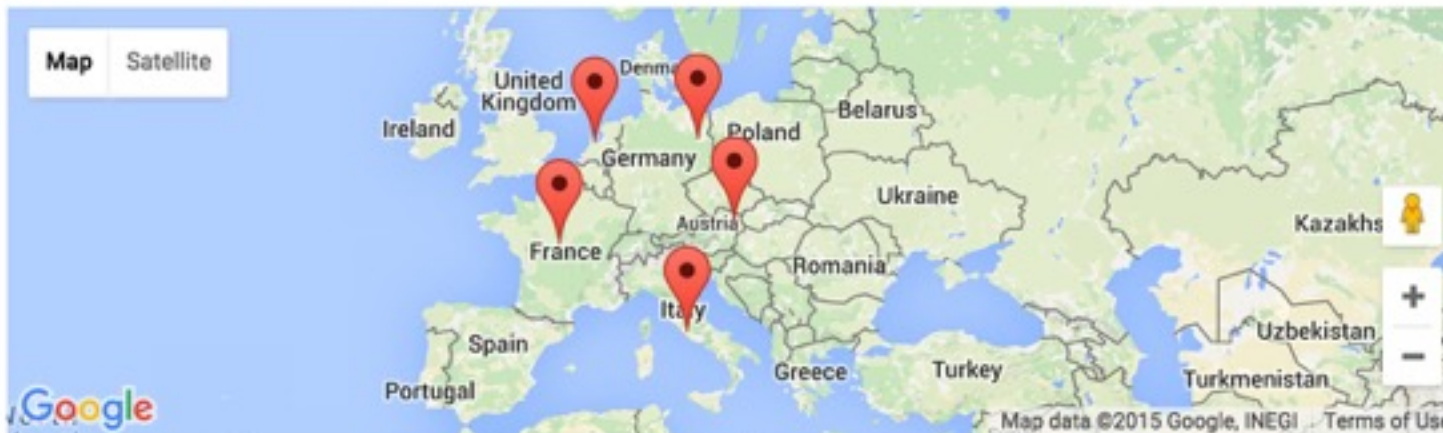


## Keywords

European Framework Programmes



## Geographical coverage



- <Austria>
- <France>
- <Germany>
- <Italy>
- <Netherlands>



RISIS Datasets Portal



The ETER Dataset



Request to Access

Before applying for data access, please read the conditions and details of access to "The ETER Dataset".

### Data requested and purpose

Data requested from "The ETER Dataset" (type of data, year, etc.) \*

Data requested

Short specification of purpose of use \*

Purpose of use

Technical specifications (format, etc.) \*

Technical specifications

### Non-disclosure Agreement

Signed copy of non-disclosure agreement (in PDF format, Max. 500KB) \*

Choose File No file chosen

Submit Request

## Application 1440694782

Applicant

<http://risis.eu/user/1432553781>

### Data requested and purpose

Data requested (type of data, year, etc.)

I need to access data about Organization between 2012-2015.

Specification of purpose of use

I am using the data to do some research on urban areas and people living there...

Technical specifications (format, etc.)

I need data in XML format.

### Non-disclosure Agreement

Signed Non-disclosure Agreement

<example\_ndaForm\_1440694782246.pdf>



# Open PHACTS

Open Pharmacological Space



## ChEMBL-RDF VoID Description

general

provenance

issued

2015-02-12T16:48:00Z



createdBy

<0000-0002-8011-0300>



createdOn

2009-10-28T00:00:00.000Z



lastUpdateOn

February 2015						
Su	Mo	Tu	We	Th	Fr	Sa
25	26	27	28	29	30	31
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
1	2	3	4	5	6	7



### Properties

- Type
- Participant
- Funding Scheme
- Topic
- totalCost
- callID
- startDate
- durationMonths

### Type i

- ProjectParticipation 10,288
- Organization 5,134
- SignedGrantAgreement 2,399
- GrantTopic 923
- GrantLegalBasis 271

### Resources 154

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- grant\_633509
- grant\_633818
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- grant\_636903
- grant\_636983
- grant\_637014
- grant\_637019
- grant\_637024
- grant\_637277
- grant\_637308
- grant\_637313

8 Page(s): K 1 2 3 4 5 6 N

### Topic

- topic\_MSCA-IF-2014-EF 768
- topic\_ERC-StG-2014 154
- topic\_MSCA-ITN-2014-ETN 94
- topic\_ERC-PoC-2014 82
- topic\_MSCA-RISE-2014 82





[ld-r.org](http://ld-r.org)