R-Link: Research Content Linked Data Cloud

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CINECA
R-Link starts from...
idea: what can be the result if we linke research content data present in each CRIS with the other CRIS and with other external (Wikipedia, in general open data) or internal data (internal to the universities world, like libraries, elearning systems....)

Gabriella Scipione, 5/9/2014
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Gabiella Scipione, 5/9/2014
Needs

- Create services on the aggregate data
- Link authors and research publications

Aggregate CRIS data

Create links among CRIS data
The project

Research Content Cloud

IRIS
Services

Rights Check
- Massive Rights Validation
- Publishers Policy Repository (*next steps)

Data Quality
- Automatic Semantic Annotation
- Manual Topic validation

Data publishing
- Linked Open Data Publication
- LODLIVE Data Navigation
Technologies

INTEGRATION
- LINKED OPEN DATA
  - W3C
  - SPARQL
  - RESTful API
  - Apache CXF
  - OAI-PMH

BUSINESS LOGIC
- spring
- Java
- Apache JENA

PRESENTATION
- Drupal

PERSISTENCE
- Fedora Commons
- Virtuoso
- RDF
R-Link Web of Data
LD REST API
Every Resource Identifier will be an open API!
http://rlink.cineca.it/id/ResearchContent/{rlinkid}

OPEN DATASET DOWNLOAD
Everyone can download the whole Dataset and reuse locally

GRAPH ENDPOINT
Everyone can use the SPARQL endpoint to run queries. For free!

Get it.. but what to do with it?
### Exploit

<table>
<thead>
<tr>
<th>WHO</th>
<th>WHAT</th>
<th>HOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Everyone</td>
<td>Data analytics</td>
<td>Build semantic API</td>
</tr>
<tr>
<td>Students</td>
<td>Apps</td>
<td>Community engagement</td>
</tr>
<tr>
<td>Open Data communities</td>
<td>Data journalism</td>
<td>Examples and tutorial</td>
</tr>
<tr>
<td>Private companies</td>
<td>Data education</td>
<td></td>
</tr>
</tbody>
</table>
Exploit in practice

A demo report about wine at University of Verona:

- **Wine is a trending topic?**
Exploit in practice

A demo report about wine at University of Verona:

- Wine and..
Exploit in practice

A demo report about wine at University of Verona:

- Wine help people working together? ☺
Lesson learned.. and next steps

Open Data exploitation is not very clear
- Lots of the effort will be in Linked Data Reuse
- Publish data in other useful ways

Synchronization issues with the data source
- More tightly coupled with the data source (i.e. the new CINECA CRIS called IRIS)

We need more data and better links!
- More persistent identifiers!
- Tagging per domain
- Not only bibliographic data
Thank you!

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