EuRoRis·Net+

European Network of RI National Contact Points

European Network of National Contact Points for Research Infrastructures moving forward

The CERIF-based

EuroRIs-Net+ Observatory

euroCRIS membership meeting

Porto, 14-15 November 2013

Dr. Nikos Houssos| National Documentation Centre / NHRF

Dr. Dimitris Karaiskos| National Documentation Centre / NHRF

www.euroris-net.eu

Research Infrastructures Observatory:
<u>Single Access Point</u> for Information on RIs &
Communication with RIs Stakeholders

Why?

- RIs information dispersed at national/regional/European level

- Complicated issue, Diversified policies, Different Stakeholders

- RIs landscape is changing, intense ongoing discussion, new material constantly produced

- One-stop-shop info/services needed to maximize dissemination of information and involvement & benefits for stakeholders & end users

How?
High interactive information infrastructure

- Observatory for gathering & organizing RIs knowledge: consolidated & update information (national, regional, European level)

http://observatory.euroris-net.eu

Target Groups

Who?

RIs NCPs, PC members, EC officers, RIs policy bodies, (e.g. ESFRI, e-IRG), RI project coordinators and operators, RI-centric ERA-NET partners, International RI organizations, national/regional authorities, industry representatives, researchers, etc.

- **Different levels of participation** depending on the assigned roles
- **RIs National Contact Points**: key players for content gathering
- Open consultation with **stakeholders** for improvements
- Focus on **interoperability**, recognized **standards** (CERIF/CRIS), **open software, comprehensive** info, **visualization** of data.

http://observatory.euroris-net.eu

Content

What information is available? (as of 15 Nov)

- **Research Infrastructures** (349 entries, retrieved from MERIL)
- **RIs projects** (330 entries)
- **Organizations** (1.894 entries): policy bodies, funding institutions, participants in EC projects, etc.
- **Persons** (580 entries): contacts for stakeholders, policy makers, etc.
- **Documents / Publications** (205 entries): National roadmaps, reports, studies, surveys, indicators, presentations, workshop proceedings, etc.

http://observatory.euroris-net.eu

Content

Sources of information:

- Entries by **all EuroRis-Net+** members
- Retrieval from **external online sources** (CORDIS, MERIL, etc.)
- Entry option for **registered users** (moderated option)
- **Quality check** by nominated NCPs
- Content submission, automatic updates, reviewing, merging **supported by the system** > **long-term sustainability**

http://observatory.euroris-net.eu

Two levels of service

- For anonymous users / visitors
- For registered users (free registration – moderated)

Services for anonymous users

- **Search** and **browse** Observatory content
- Semantic links/**relationships between entries**
- Provide **feedback** on the Observatory (online form)

Visualisations of information

- Based on CERIF XML data automatically exported by the platform
- Open technologies used (Javascript/HTML5), reading directly CERIF XML data

Services

Registered users

- Online registration open to observatory visitors
- All registrations moderated
- One time registration for Observatory and Forum

Services for registered users

- **Personal page: own public profile**
- "**MyObservatory**" personal private space with documents, contacts, projects – saved from Observatory
- Ability to **edit own profile**
- Ability to **upload documents** to the Observatory (option)

- Provides a single point of reference for RI stakeholders in Europe
- Useful for:
  - **Policy makers** to monitor the current status of the RI ecosystem in Europe
  - **Researchers** to identify RIs and services of interest (including TA Opportunities)
  - **RI stakeholders** (existing and potential) to identify key RIs, projects, persons, organisations and cooperate closer with the community
  - **NCPs** to have a current holistic view of the RI ecosystem in Europe
- Sustainability
  - Favoured by use of standard data model (CERIF), widely adopted in Europe and beyond
  - Automatic import of information from other systems significantly lowers update costs
  - Part of the enterprise-grade EKT infrastructure providing national scope services in Greece

http://www.euroris-net.eu/stakeholders-forum

Standardised data model - CERIF

Standardised data model

- Native CERIF 1.5 database
- **Enforces integrity** and **semantic clarity** of data – prerequisite for **high quality** information
- Enables flexible representation of different vocabularies for classifications and linked entities (e.g. co-existence of MERIL, ESFRI, vocabularies)
- Enables representation of complex funding structures
- CERIF is also used by **MERIL**, **OpenAIREplus**
- Alignment / synergy with other projects allows long-term interoperability

Contribution to standardisation

- A proposal for CERIF extension concerning the representation of RIs and RI stakeholders was compiled in cooperation with MERIL (**EuroCRIS** contribution to the project)
- Submitted to the CERIF Task Group of EuroCRIS –**approved and already incorporated into the standard (Release 1.3)**
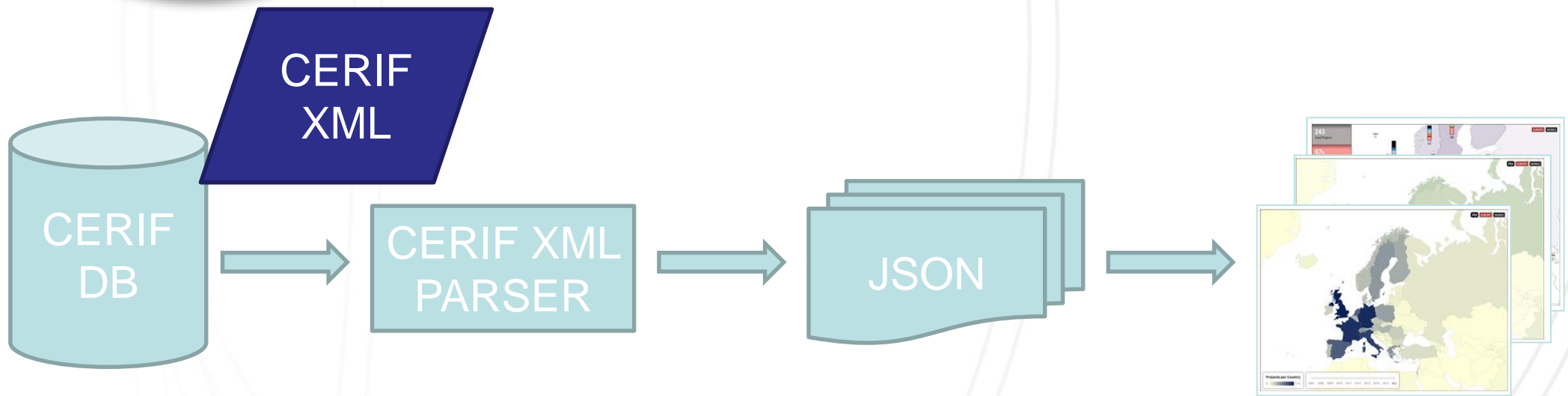
CERIF native implementation

Implementation technologies

- Java, Spring, Java Persistence Architecture
- PostgreSQL
- Lucene indexing engine

Open source JPA library for access to CERIF databases

- cerif-jpa-persistence
- Available at **http://code.google.com/p/cerif-jpa-persistence/**
- Tested over MySQL and PostgreSQL
- Supports CERIF 1.5

CERIF
XML

CERIF
DB

CERIF XML
PARSER

JSON

Scheduler checks updates in CERIF DB daily and produces CERIF XML

Demo

Short live demo

http://www.euroris-net.eu/stakeholders-forum

Thank you!

{nhoussos;karaiskos}@ekt.gr

http://www.euroris-net.eu/stakeholders-forum