euroCRIS – Research Information Exchange and Aggregation Across Institutions, Regions, Countries

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What is a CRIS?

Current research information system

A current research information system (CRIS) is a database or other information system to store, manage and exchange contextual metadata for the research activity funded by a research funder or conducted at a research-performing organisation (or aggregation thereof).[1]

CRIS systems are also known as Research Information Management or RIM Systems (RIMS).[2][3]

Features

The data model underpinning a CRIS relies on a set of basic entities as defined by the Common European Research Information Format (CERIF) maintained by the non-profit organisation euroCRIS.

The links connecting these entities provide a standardised semantic layer that provides consistency to the data model. The basic CERIF entities are people, organisations, projects and outputs (publications, research data, patents). Further second-level entities in the comprehensive snapshot of research provided by CERIF are for instance funding, research facilities and equipment or skills.
CERIF: Common European Research Information Format

Main features of CERIF

CERIF (the Common European Research Information Format) is:

- A concept about research entities and their relationships – Specification (Conceptual Level)
- A description of research entities and their relationships – Model (Logical Level)
- A formalization of research entities and their relationships – Database Scripts (Physical Level)

https://www.eurocris.org/cerif/main-features-cerif
Search the Directory of Research Information System (DRIS)

Discover

Country
- India
- Norway
- Italy
- United Kingdom
- United States

Software
- IRINS
- Pure
- CRISTin
- In-house-built
- IRIS

Status
- Operational
- Under Construction...
- Closed...
- In Preparation...

https://dspacecris.eurocris.org/cris/explore/dris
Advantages of interlinked CERIF entities

https://pureportal.strath.ac.uk/en/equipments/kelvin-hydrodynamics-laboratory
Advantages of interlinked CERIF entities

COSTA MODEL: Hierarchical carbonate reservoir benchmarking case study

Geiger, S. (Creator), TU Delft - 4TU.ResearchData, 2022
DOI: https://doi.org/10.17861/6e36e28d-50d9-4e31-9790-18db4bce6e5d
Dataset/Software: Dataset

Code accompanying the paper "Validating human driver models for interaction-aware automated vehicle controllers: A human approach"

DOI: 10.4121/16847203, https://github.com/tud-hri/irlmodelvalidation and one more link
Dataset/Software: Software

https://research.tudelft.nl/en/datasets/
euroCRIS: promoting collaboration

Linking Research Information Across Data Spaces

15th International Conference on Current Research Information Systems (CRIS2022)
Dubrovnik, Croatia
May 12-14, 2022

https://cris2022.srce.hr/
Guiding principles for EOSC

The overarching principle for developing EOSC is that it must be central to the EOSC Initiative.

- Multi-stakeholderism: EOSC will succeed if and only if it follows a multi-stakeholder approach.
- Openness: EOSC will ensure that research artefacts are as open as possible.
- FAIR principles: EOSC research artefacts need to be findable, accessible, interoperable, and re-usable.
- Federation of infrastructures: EOSC will federate existing and upcoming data- and e-infrastructure services.
- Machine-actionable: EOSC will strike the right balance between machines and services that will serve the needs of European scientists.

top-qualify panel at the #RISSynergy WS at #CRIS2022. Good representation for the wide 'family' of European national/regional #CRIS

#PRC @rdelavega, #FRIS IIs de Bal #ResearchFI @HPuuska among others
D4RI: Where do we stand?

Key metrics

- **31 sources**
  - from 21 countries

- **5.3 million**
  - projects
  - of 200+ funders

- **400,000**
  - organisations

- **750,000**
  - researchers

- **11 million**
  - outputs

Overview of sources

<table>
<thead>
<tr>
<th>Country</th>
<th>Source(s)</th>
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<tbody>
<tr>
<td>Albania</td>
<td>E-CRIS</td>
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<tr>
<td>Austria</td>
<td>FFG, FWF</td>
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<td>Bulgaria</td>
<td>BulCRIS</td>
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<td>Bosnia-Herzegovina</td>
<td>E-CRIS.BH, E-CRIS.RS</td>
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<td>Czech Republic</td>
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<tr>
<td>United Kingdom</td>
<td>E-CRIS, OpenAIRE</td>
</tr>
</tbody>
</table>

Sources: D4RI Policy
1) Raw, non-unique data

CroRIS – as a Service Catalogue of HR-OOZ

Ivan Marić (2022) "National research e-infrastructure landscape and trends", CRIS2022, http://hdl.handle.net/11366/2025
Workshop 30-31 May 2022
Session III: Cross-e-Infrastructure collaboration and coordination (network, computing, data)

Thanks!
Any questions?

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