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Milano, 21/11/2014

Persistent Identifiers as E-Infrastructures for Research Information Management

Susanna Mornati

IDF Outreach Meeting

Overview

- Cineca
- RIM ecosystem
- RIM data: problems and solutions
- Ontologies, protocols, formats, identifiers
- IRIS: Cineca RIMS
- Use cases for identifiers in RIMS
- Conclusions

Cineca: the Consortium

Non-Profit

Founded in 1969

HPC
FERMI: 15° in TOP500
EURORA: 1° in
GREEN500 (June 2014)

IS
500 applications
All Italian Universities
Ministry of Higher Ed

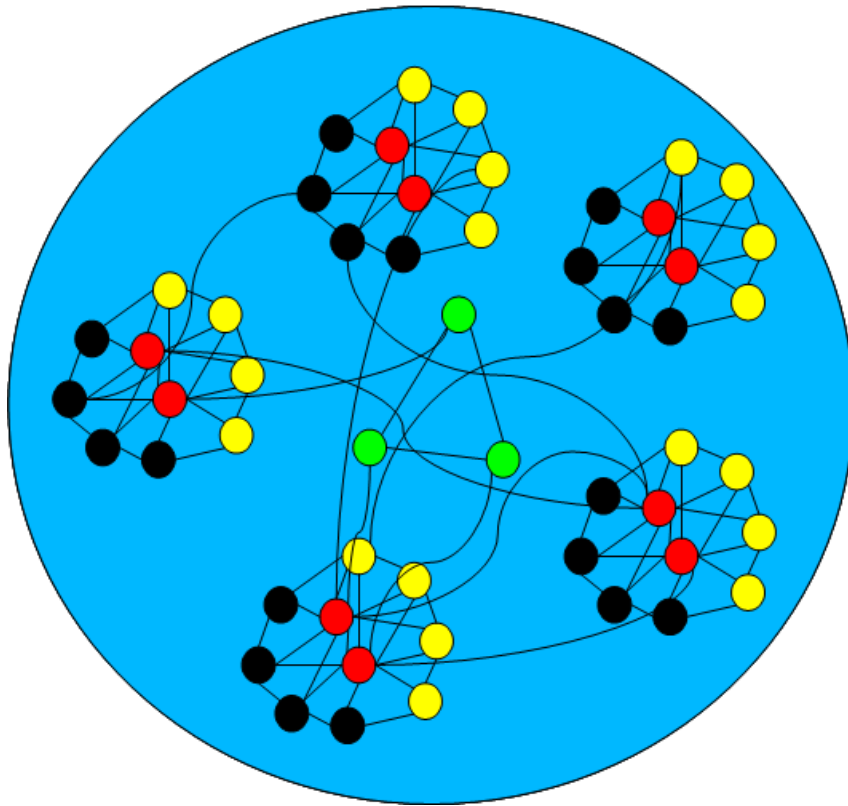


72 Members

1000 employees



The ecosystem of Research Information Management



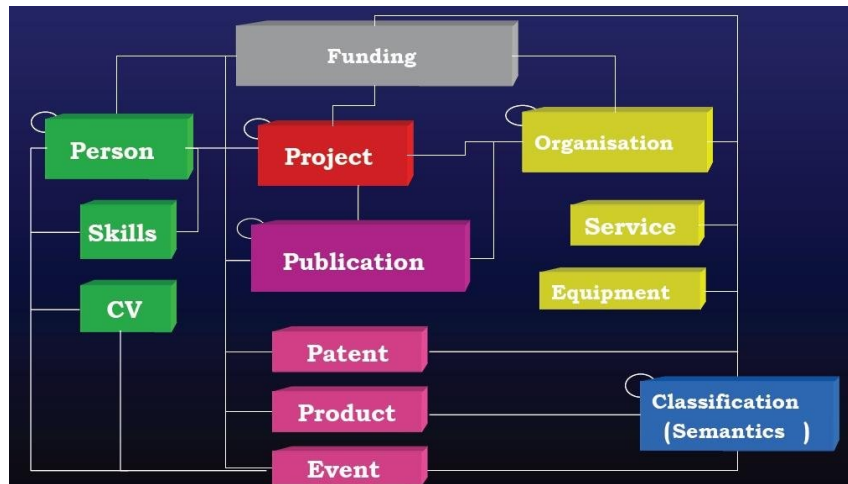
- RIMS (Research Information Management Systems) deal with metadata about research entities (resources, activities, output, outcomes)
- RIMS allow collection, management, preservation discovery, awareness, visibility, reuse, measurement, citation, dissemination, impact ...
- RIMS are **linked** ecosystems: they implement interoperability through open standards, open technologies, persistent IDs

RIM data: problems & solutions

- Problems:
 - Dispersion
 - Heterogeneous resources
- Solutions:
 - Integration of systems (webservices)
 - interoperability standards (shared ontologies, agreed protocols and formats, unique and persistent identifiers for entities)



CERIF data model - ontology



- Ontology that models the research domain

- Entities and attributes
- Relations, semantics, time validity
- Resources, activities, output
- Outcomes, impact
- Metrics

Protocols and metadata formats



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- OAI-PMH
- JSON
- Linked Open Data
- ...

- Dublin Core
- MARC
- MODS
- METS
- ...



Unique and persistent identifiers



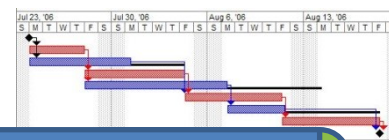
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- Data sets: DOIs, handles (Datacite)
- Projects: FundRef
- Researchers: ORCID
- ...





RM



ORCID

doi

Handle System

istbm



ES



OAuth PUT GET POST XML REST



IRIS INSTITUTIONAL RESEARCH INFORMATION SYSTEM BY CINECA

Cineca IRIS use cases: ORCID



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Current Research Information Systems

The European Organisation for International Research Information

CERIF

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chitect & Systems Integrator at CINECA

Number of Start date

CINECA 01-07-2013

RIF TG 01-01-2013

Misc

Keywords: JAVA
Open Source
Software

ORCID: 0000-0002-9029-1854

Websites: LinkedIn

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Current Research Information Systems

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PubMed

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Autori interni: AMBROSINI, MAURIZIO (Primo)

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Maurizio Ambrosini

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Ricerca per autore

doi [10.1708/1407.15622](https://doi.org/10.1708/1407.15622) Riv Psichia

Efficacia della psicoterapia psicodinamica breve vs trattamento psicodinamico di routine in un campione di pazienti con disturbi d'ansia e dell'umore

Efficacy of short-term psychodynamic psychotherapy vs treatment as usual in patients with anxiety and depressive disorders

CINZIA BRESSI, EMANUELA PAOLA NOCITO, ERIKA ALESSANDRA MILANESE, SILVIA FRONZA, PAOLO DELLA VALENTINA, LAURA CASTAGNA, MATTEO PORCELLA, MAURA BRUZZESE, LUCIA ROBERTA BARATTA, ELEONORA MINACAPPELLI, ELISABETTA DIPASQUALE, GIULIA ALESSANDRA CAPRA
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Dipartimento di Fisiopatologia Medico-Chirurgica e dei Trapianti, Università di Milano
UO di Psichiatria, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Università di Milano

RIASSUNTO. **Scopo.** Il nostro studio si propone di valutare l'efficacia clinica della psicoterapia psicodinamica breve (STPP) rispetto al trattamento di routine (TAU) per i disturbi d'ansia e dell'umore. **Metodi.** Sono stati consecutivamente reclutati, presso il S...

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Scheda breve

Scheda completa

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Andrea Gamberini

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Conclusions

- A robust, persistent, discoverable, reusable record in a Research Information Management Systems requires an e-infrastructure made by interoperability standards:
 - Shared ontologies
 - Agreed protocols and formats
 - Unique and persistent identifiers for entities

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**Thank you
for attention**



IRIS

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