

How to make research information FAIR: DSpace-CRIS and best practices in open research information

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www.4science.it



At 4Science, in DSpace and OJS since 2003, in euroCRIS since 2010, we contribute to open source projects and participate in international communities, developing and promoting open standards that enable interoperability to make Open Science possible.



Open
Access





Open Archives Initiative

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Open Archives Initiative -> Home

Standards for Web Content Interoperability

The Open Archives Initiative develops and promotes interoperability standards that aim to facilitate the efficient dissemination of content. OAI has its roots in the open access and institutional repository movements. Continued support of this work remains a cornerstone of the Open Archives program. Over time, however, the work of OAI has expanded to promote broad access to digital resources for eScholarship, eLearning, and eScience.

News from the OAI Community

- [ResourceSync update is ANSI/NISO Z39.99-2017](#)
The ResourceSync Framework Specification v1.1 was approved as ANSI/NISO Z39.99-2017 on February 2, 2017. Approved by the American National Standards Institute (ANSI), this 1.1 revision improves a web standard that details various capabilities that a server can implement to allow third-party systems to remain synchronized with

open

The Open Ecosystem



Open
Access



Open
Data



Open
Education



Open
Government



Open
Licenses



Open
Scholarship



Open
Science



Open Source
Software




Beyond the OAI-PMH and metadata:
ResourceSync enables interoperability
at resource level



“There is a need to share research information across countries[...] The information is used by researchers (to find partners, to track competitors, to form collaborations); research managers (to assess performance and research outputs and to find reviewers for research proposals); research strategists (to decide on priorities and resourcing compared with other countries); publication editors (to find reviewers and potential authors); intermediaries/brokers (to find research products and ideas that can - with knowledge transfer - be transformed to wealth-creation); the media (to communicate the results of R&D in a socio-economic context) and the general public (for interest)” ()*

Keith Jeffery, 2007, ERCIM News, <https://bit.ly/2leKvp8>



So far, research information is still mainly stored in systems that tend to be stand-alone, heterogeneous, incompatible with each other and of varying stages of maturity.



It is time to ask ourselves

WHY

RESEARCH INFORMATION

is hidden behind the barriers of proprietary CRIS/RIMS
and restrictive policies at (public) institutions

The answer is: for purely commercial reasons!

The research and academic institutions are progressively giving away the precious treasure of research outputs, results, data, information, knowledge, evaluation, strategy.

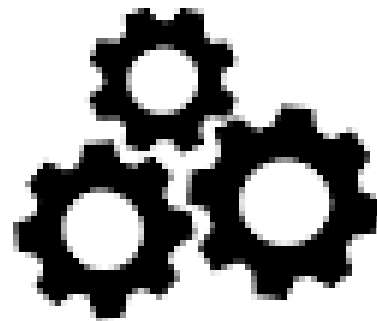
This is a message to public research
and higher education institutions:

F
indable

A
ccessible

I
nteroperable

R
eusable



Why DSpace-CRIS?

DSpace-CRIS (the free open-source CRIS solution) provides a persistent identifier of the digital objects (handle/DOI) (F) and supports other PIDs, such as ORCID (I). A machine-readable (Signposting) landing page provides access to indexed and searchable (Solr, SEO, Microformat, Google Scholar metatags) metadata, data files, licenses, and version information (F, A, R).

DSpace-CRIS is integrated with CKAN: deposits can include metadata, data files, and any complementary files (such as documentation or code) needed to understand the data. Tabular data are exposed as open data for M2M interaction (R). Metadata can be public, even if the data are restricted (F, A).

Metadata are available at the resource and file levels, and domain-specific schemas and vocabularies can be adopted.

Metadata can be exposed through a variety of methods (OAI-PMH, ResourceSync) and formats (including CERIF).

(I, R)

DSpace-CRIS is integrated with CKAN for research data management, visualization and exploration

DSpace-CRIS implements the guidelines of OpenAIRE and the recommendations of the Next Generation Repositories WG of COAR

<http://ricerca.unityfvg.it/> (CERIF XML 1.6 over OAI-PMH)



UNITYFVG
United Universities of FVG

RICERCA FRIULI VENEZIA GIULIA



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Enter your keywords...



United Universities of Friuli Venezia Giulia

Il portale della ricerca della [regione Friuli-Venezia Giulia](#) è lo strumento per la conoscenza e la diffusione della ricerca fatta dalla [SISSA](#), dall' [Università di Trieste](#) e dall'[Università di Udine](#). Il portale include la produzione scientifica ad accesso aperto che consente accesso libero e senza restrizioni agli esiti delle attività finanziate con fondi pubblici.

The web portal of the research of the [Friuli-Venezia Giulia region](#) is a web gateway for searching and spreading the research data created by the [SISSA](#), [University of Trieste](#) and [University of Udine](#). The portal is also an open access repository that allows access without restrictions to the results of the activities financed by public funds.

<http://hub.hku.hk/> (datasets)



The University of Hong Kong

The HKU Scholars Hub 香港大學學術庫

HELP

HKU Login
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Keyword

55 mirna types	(1)
abrupt climate change	(1)
acbp 3	(1)
acid methyl ester	(1)
activation	(1)
acyltransferase	(1)
address paleontology	(1)
agent	(1)
allosteric binding	(1)
animal cry	(1)
animal crvs	(1)

Subject

030499	(5)
040308 - palaeontology (incl)	(1)
pal...	
060101 - analytical	(2)
biochemistry ...	
060104	(50)
060109	(1)
060199	(2)
060204 - freshwater ecology	(1)
淡水生態	

Data from: Comparative Genomic Analysis Shows That Avian Pathogenic Escherichia coli Isolate IMT5155 (O2:K1:H5; ST Complex 95, ST140) Shares Close Relationship with ST95 APEC O1:K1 and Human ExPEC O18:K1 Strains

Ge, Xiangkai Zhu
Jiang, Jingwei
Pan, Zihao
Hu, Lin
Wang, Shaohui
Wang, Haojin
Leung, Frederick C.
Dai, Jianjun
Fan, Hongjie

Data from: Differential Expression Profile of Chicken Embryo Fibroblast DF-1 Cells Infected with Cell-Adapted Infectious Bursal Disease Virus

Hui, Raymond K.
Leung, Frederick C.

Data from: Developing a Molecular Roadmap of Drug-Food Interactions

Jensen, Kasper
Ni, Yueqiong
Panagiotou, Gianni
Kouskoumvekaki, Irene

Data from: Laser-Stimulated Fluorescence in Paleontology

Kaye, Thomas G.
Falk, Amanda R.
Pittman, Michael
Sereno, Paul C.
Martin, Larry D.
Burnham, David A.
Gong, Enpu
Xu, Xing
Wang, Yinan

<http://ktisis.cut.ac.cy/> (researcher profile)

Ktisis at Cyprus University of Technology

Kalogirou, Soteris A. (rp00110)

[Network Lab](#)

[View Statistics](#)

[Email Alert](#)

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[Contact information](#)

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Bibliometrics

Publications

University responsibilities

[Teaching list](#)

[Supervision of Phd/Msc projects](#)

Research activities

[Research projects](#)

Service to the community/university

[Committee memberships - external organizations](#)

Service to the professional/self-development

[Participation in editorial boards](#)

Contact Information



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Status	Current Staff

<https://www.openstarts.units.it/> (event)

Trieste Next 2012 - Save the food

[View Statistics](#)

[Email Alert](#)

[RSS Feed](#)

[Details](#) [Documents](#)

Piazza Unità

Description

Evento Trieste N

Place details

Events

Dettagli

Luogo Piazza Unità



Piazza Unità

Place details **Events**

Events (All)

Name

[Trieste Next 2014 - EnergETHIC](#)

[Trieste Next 2012 - Save the food](#)

[Trieste Next 2013 - WaterWise](#)

[Trieste Next 2015 - BIOlogos](#)

[Trieste Next 2016 - Umano post-Umano](#)

[Trieste Next 2017 - Science and the Sea](#)

Il primo Salone Europeo dell'Innovazione e della Ricerca Scientifica a Trieste, città che vuole guardare alle sue realtà scientifiche per diventare un polo attrattivo di eccellenza globale per il mondo della ricerca e dell'impresa. Una vetrina nazionale ed europea per far conoscere il "sistema Trieste": un luogo dove sono nati e lavorano una ventina tra enti di ricerca, università e centri di alta formazione che vogliamo diventare elemento fondamentale di crescita per la città, il Nordest, tutto il nostro Paese.

<http://qldresearch.intersearch.com.au/> (project)

Projects/Clinical Trials


for ("public health and health services")

Go

Start a new search

> Add Filters

Evaluation of the HP3 to HP4 Rural Development Pathway

 View Statistics

 Email Alert

 RSS Feed

Information

Grants

Primary Data

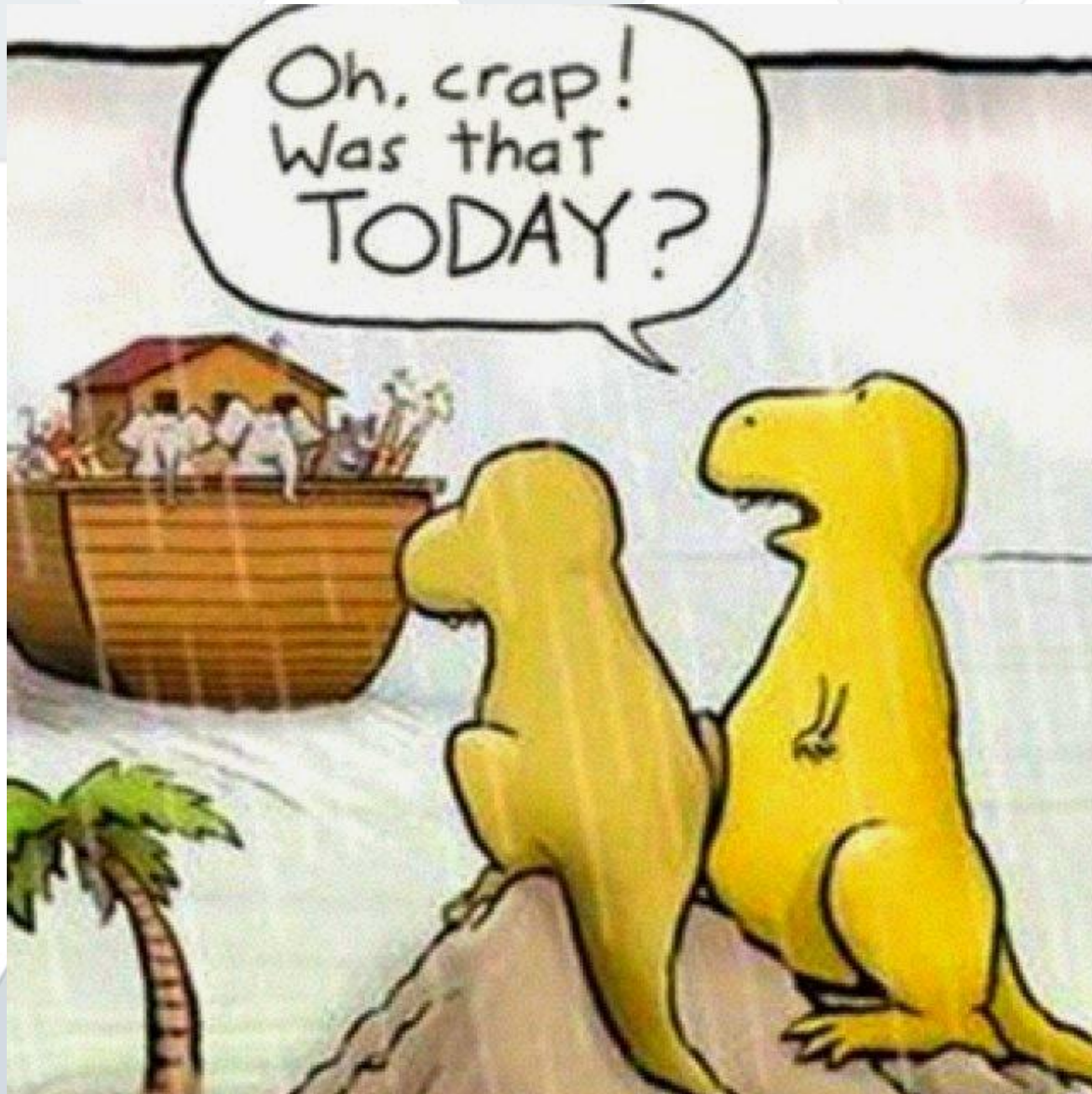
Project title	Evaluation of the HP3 to HP4 Rural Development Pathway		
Code	Evaluation of the HP3-4 RDP		
Status	Yes	Anticipated Finish Date	31/12/2015
		Anticipated Start Date	01/10/2012
		Disease Category	PUBLIC HEALTH AND HEALTH SERVICES
HREC Reference	HREC/12/QTDD/31		
Investigator Email	ilsa_nielsen@health.qld.gov.au	Investigator Name	Ms Ilsa Nielsen
			Multi Site
SSA Reference	SSA/13/QCQ/3		

Description

Keyword(s) Health Research/Social Science

Evaluation of the HP3 to HP4 Rural Development Pathway

HREC/12/QTDD/31



**Don't
wait!**

Thanks for your attention!

Where to find us next?
2018

Concytec
Congreso Nacional
Perù
18-20 July

German DSpace
User Group
Meeting
Berlin
13 Sept

BE-OPEN
Event
Belgrade
18-19 October

And more
to come!

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