

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

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At 4Science, in OAI 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.

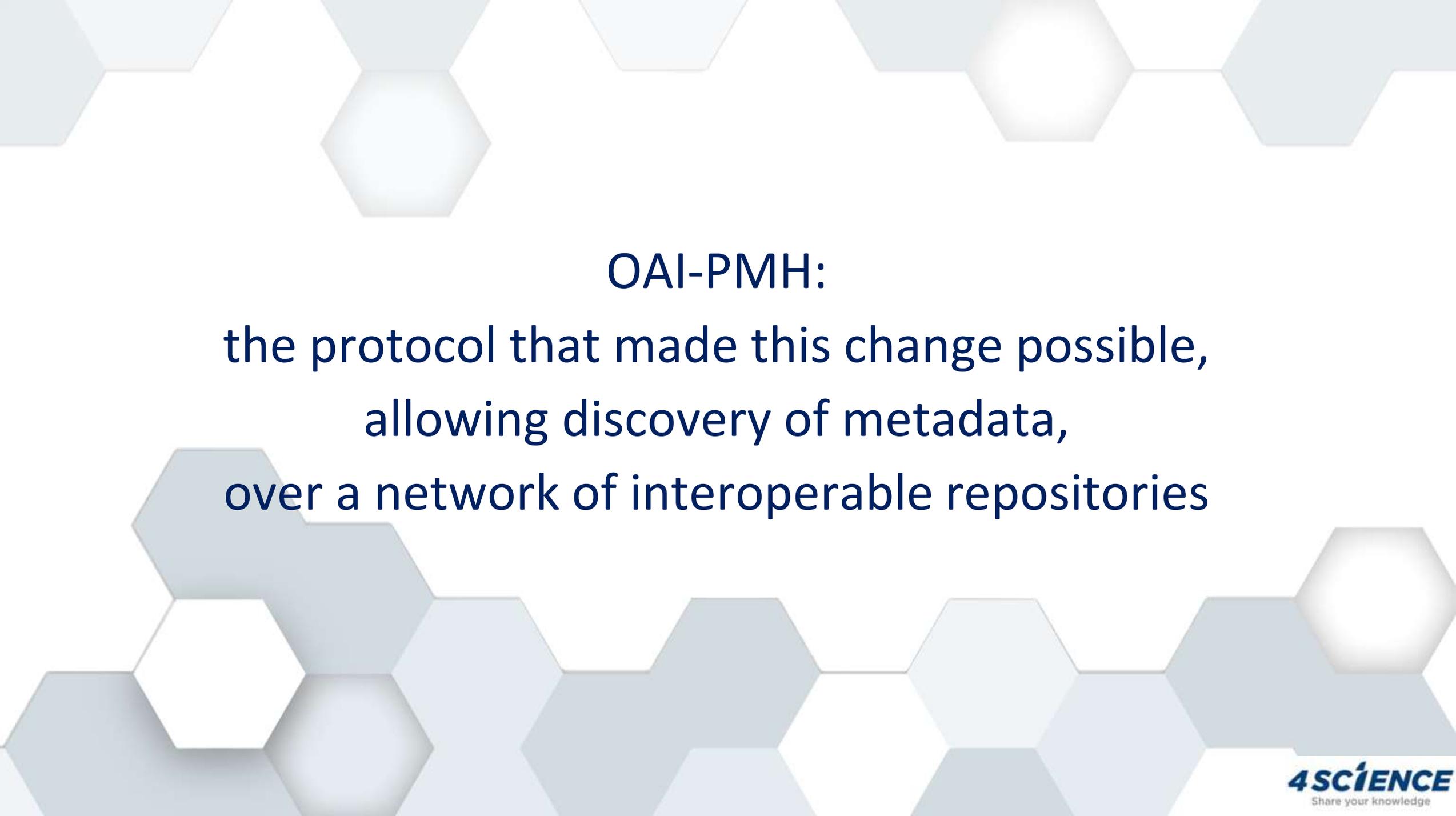


Signposting



Open Access to scholarly literature
is a concept that changed the paradigm
of scholarly communication

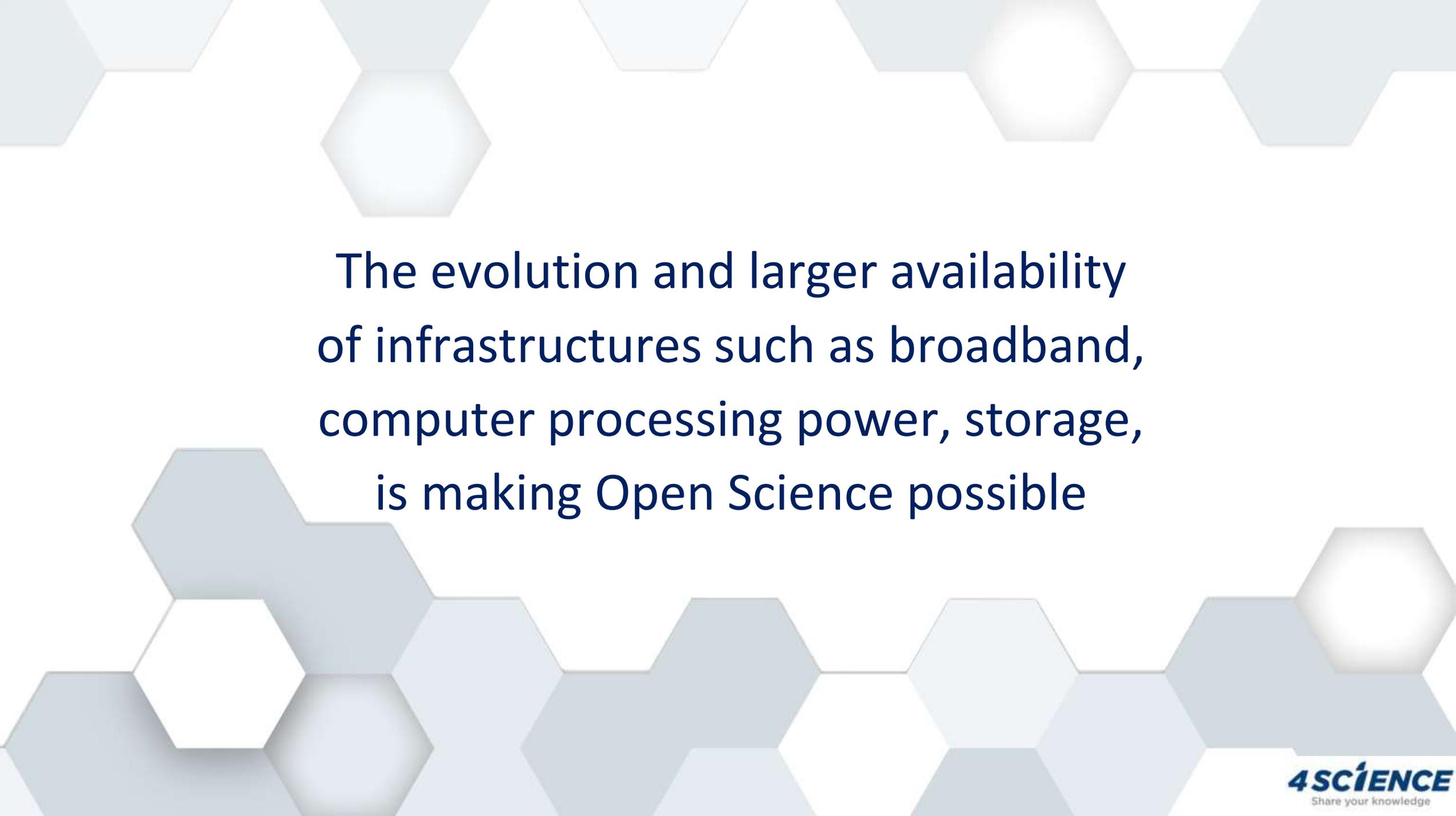




OAI-PMH:
the protocol that made this change possible,
allowing discovery of metadata,
over a network of interoperable repositories



More recently,
a broader ideal of Open Science
is being affirmed,
applied to datasets and other resources
besides publications



The evolution and larger availability of infrastructures such as broadband, computer processing power, storage, is making Open Science possible

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





It is time to ask ourselves

WHY

RESEARCH INFORMATION

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



Let's not forget the words,
back to 2007,
of the visionary man
that contributed to create CERIF

“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>

The Common European Research Information Format (CERIF) was developed with the support of the European Commission from 1987. Since 2002, care has been handed euroCRIS. It is a standard; technically a recommendation by the European Union to its member states.



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.

CERIF is still underexploited: it has the potential to be a powerful enabler for Research Information interoperability, but we still see many systems that organize research information in their own way, so that it is not easily sharable outside the institutional boundaries.

11 years after Keith's words quoted before, I'm still hearing, at this very conference, words like "our proprietary XML format"

WHY?

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:

Take your power back!

Adopt open standards and open technologies
to make your research

Findable **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)

<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
Guest 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

RSS Feed

Profile

Contact information

Biography

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



Kalogirou, Soteris A.

Καλογήρου, Σωτήρης

| | |
|------------------|---|
| Department | Department of Mechanical Engineering and Materials Science and Engineering |
| Faculty | Faculty of Engineering and Technology |
| Email | soteris.kalogirou@cut.ac.cy |
| ORCID | 0000-0002-3854-1437 |
| Scopus Author ID | 7005998383 |
| Researcher ID | D-3883-2015  |
| 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

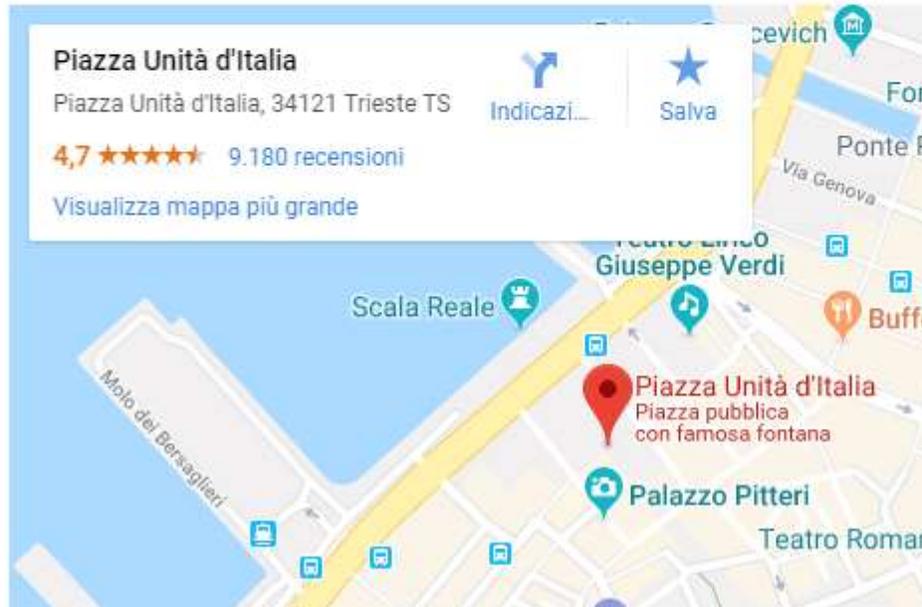
Piazza Unità

Piazza Unità d'Italia

Piazza Unità d'Italia, 34121 Trieste TS

4,7 ★★★★★ 9.180 recensioni

Visualizza mappa più grande



www.trie

Piazza Unità

Place details

Events

Events (All)

Name

Trieste Next 2014 - EnergETHIC

Trieste Next 2012 - Save the food

Trieste Next 2013 - WaterWise

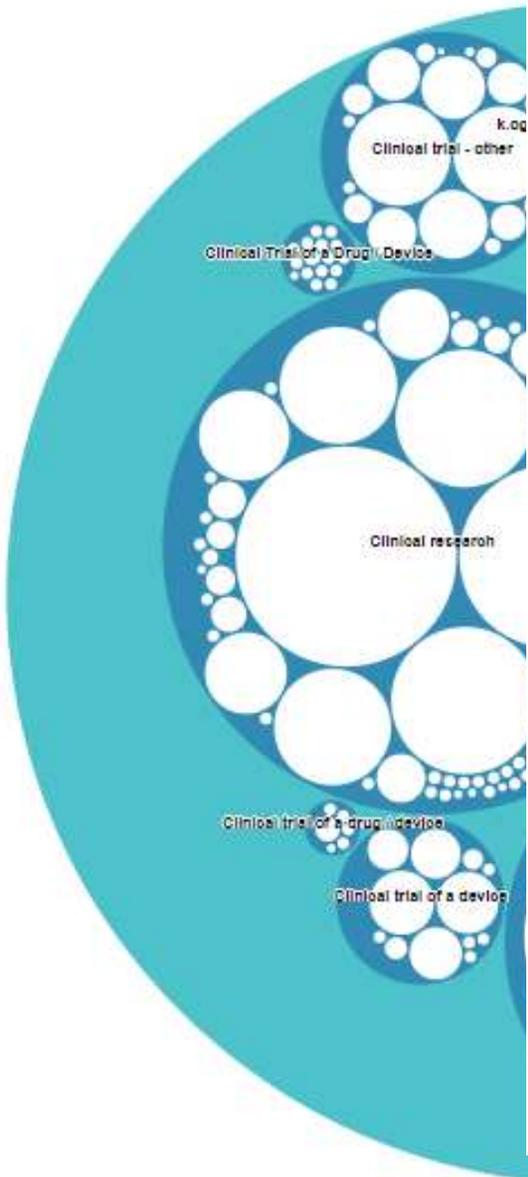
Trieste Next 2015 - BIOlogos

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

[Add Filters](#)

Evaluation of the HP3 to HP4 Rural Development Pathway

[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 <input type="button" value="Multi Site"/> |
| SSA Reference | SSA/13/QCQ/3 | | |

Description

Keyword(s) Health Research/Social Science



**Don't
wait!**

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!

Thanks for your attention!

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