4SCIENCE
Share your knowledge

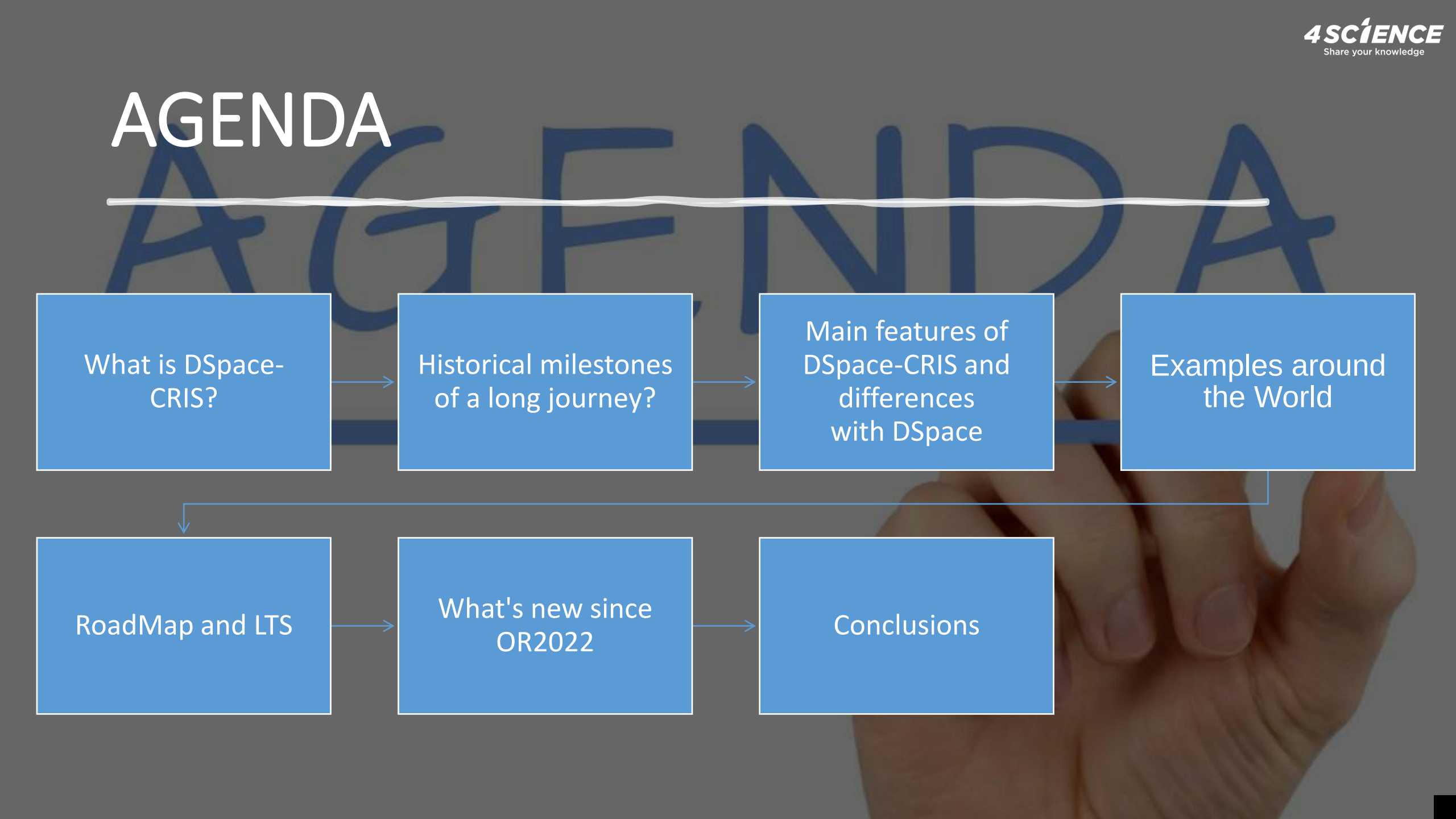
An update on DSpace-CRIS, the state-of-the-art tool for Research&Information management

18th International Open Repositories Conference (OR2023)

Stellenbosch University

We are here with
many presentations!
Implementing the COAR Notify Protocol in DSpace 7
11.00-12.30 AM (1st), 06.14.23 Somerset 2
Modeling Digital Cultural Landscapes with DSpace
3.30-5.00 PM (3rd), 06.14.23 Somerset 2
Adopting the DSpace 7 platform: challenges, gaps, problematics, and solution formulas from real migration experiences
9.00-10.30AM (3rd), 06.15.23 Somerset 2

AGENDA


What is DSpace-CRIS?
Historical milestones of a long journey?
Main features of DSpace-CRIS and differences with DSpace
Examples around the World
RoadMap and LTS
What's new since OR2022
Conclusions

What is DSpace-CRIS?

DSpace-CRIS is the first **free open-source solution** for the Research Data&Information Management ever developed. Differently from other (commercial) CRIS/RIMS , DSpace-CRIS has the institutional repository as its core component, providing high visibility on the web to all the collected information and objects.

What is its specialty?

- DSpace-CRIS broadens DSpace functionality and expands its data model while remaining aligned with its code base
- Fully embraces Configurable Entities enabled out-of-the-box with a richer data model based on the OpenAIRE information space and CERIF
- Enables real CRIS / RIMS processes and use cases, beyond simple data storage
- It is optimized for usage of entities and production ready

2009

After 74 years of production, Kodak stopped selling 35mm color film in 2009.

IN RESPONSE OF THAT, PIONEERS IN THE DSPACE COMMUNITY

STARTED TO THINK

HOW TO MOVE DSPACE TO THE NEXT LEVEL

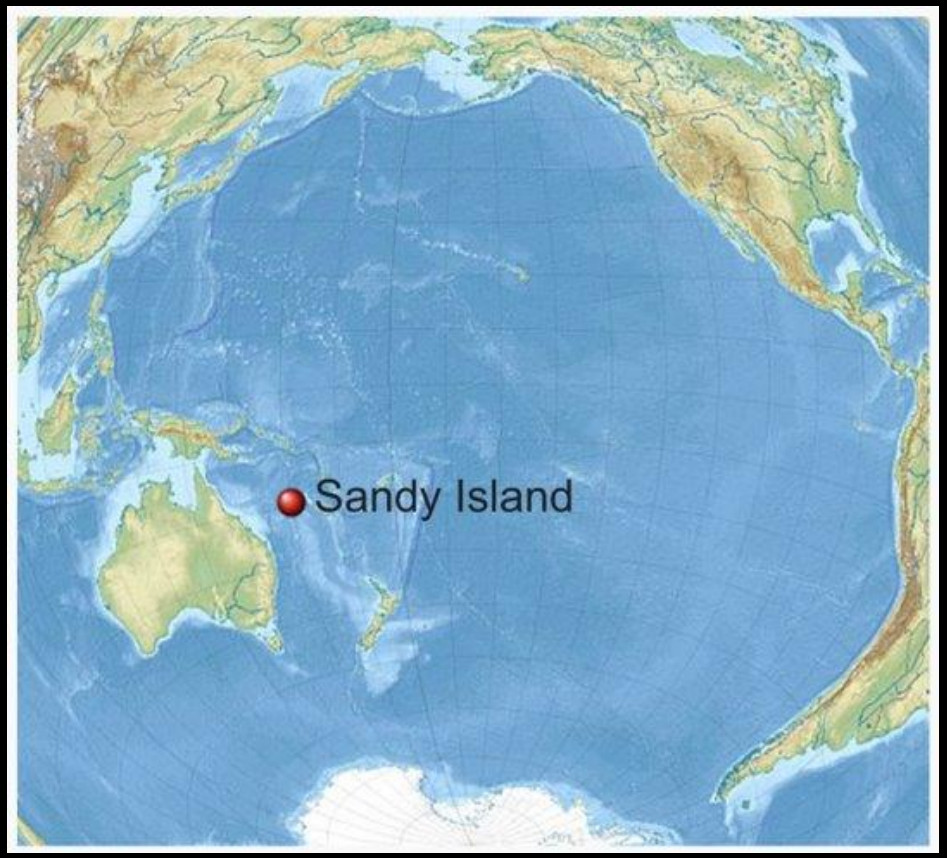
Photo by Neal Wellons https://www.flickr.com/photos/97423979@N00/ License: CC-BY-NC

2012

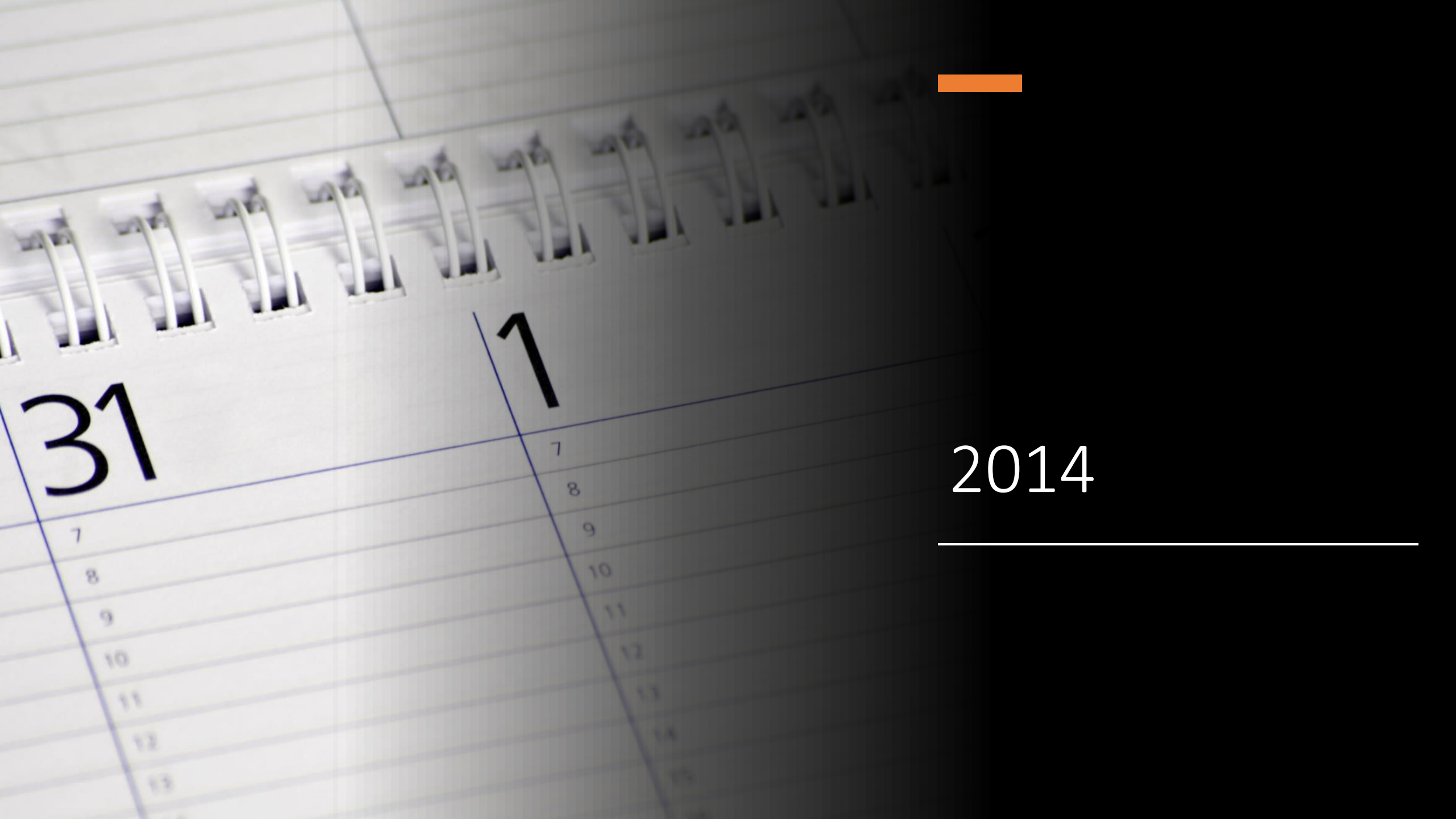
Sandy Island, New Caledonia was a non-existent island that was mapped from 1774
…until it's 'un'discovered in 2012.

The World struggled for this loss… how could we ever fill the gap?

…DSPACE-CRIS WAS RELEASED AS AN OPENSOURCE PROJECT



https://it.wikipedia.org/wiki/Sandy_Island_(Nuova_Caledonia)



2014

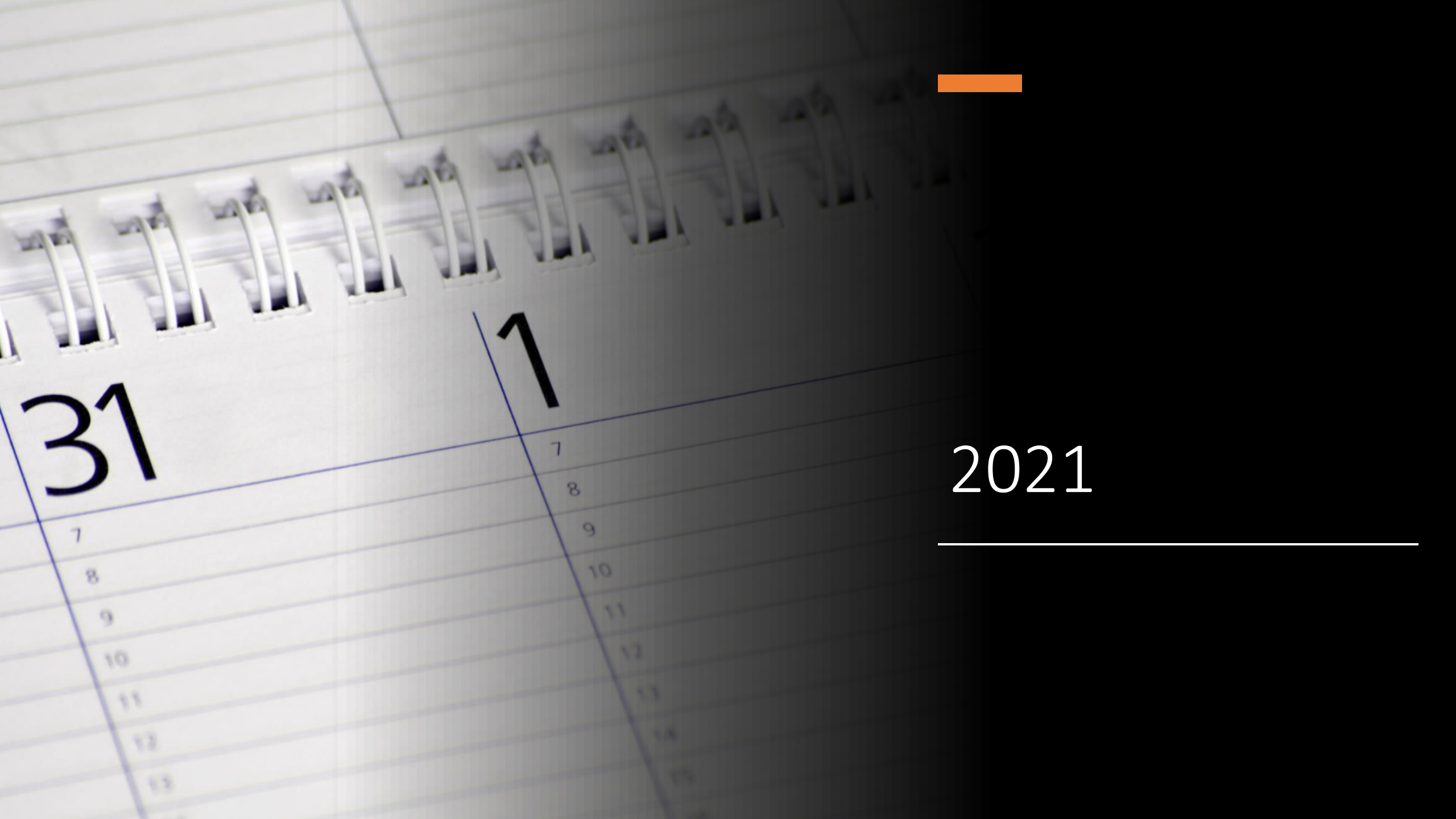
The number 2147483647 is the biggest possible number in 32-bit computing.
In December 2014, “Gangnam Style” exceeded the 32-bit integer limit for view count, necessitating YouTube to upgrade the variable to a 64-bit integer.

WE WERE SAFE...

THE DSPACE-CRIS USER BASE WAS GROWN AND SPREAD THE WORLD,

BUT QUITE FAR FROM THIS LIMIT

This Photo by Unknown Author is licensed under CC BY-SA



2021

A big step for humankind: on February 18, 2021, NASA’s Perseverance rover successfully landed on Mars to scout for signs of ancient life. Among other things, the rover confirmed the existence of ancient Mars lake and river delta.

DSPACE-CRIS 7 IS RELEASED

4 reasons to adopt DSpace-CRIS

1

The first and only open source Research Information System with a large users base, derived from the most adopted Repository platform in the World

2

The repository is at the core of the platform, not just a side website or portal

3

Cheaper to implement, configure and maintain.

A single system that can satisfy the needs of different officers

4

As simple as possible, as complete as needed

Which are the main differences compared to DSpace Repository?

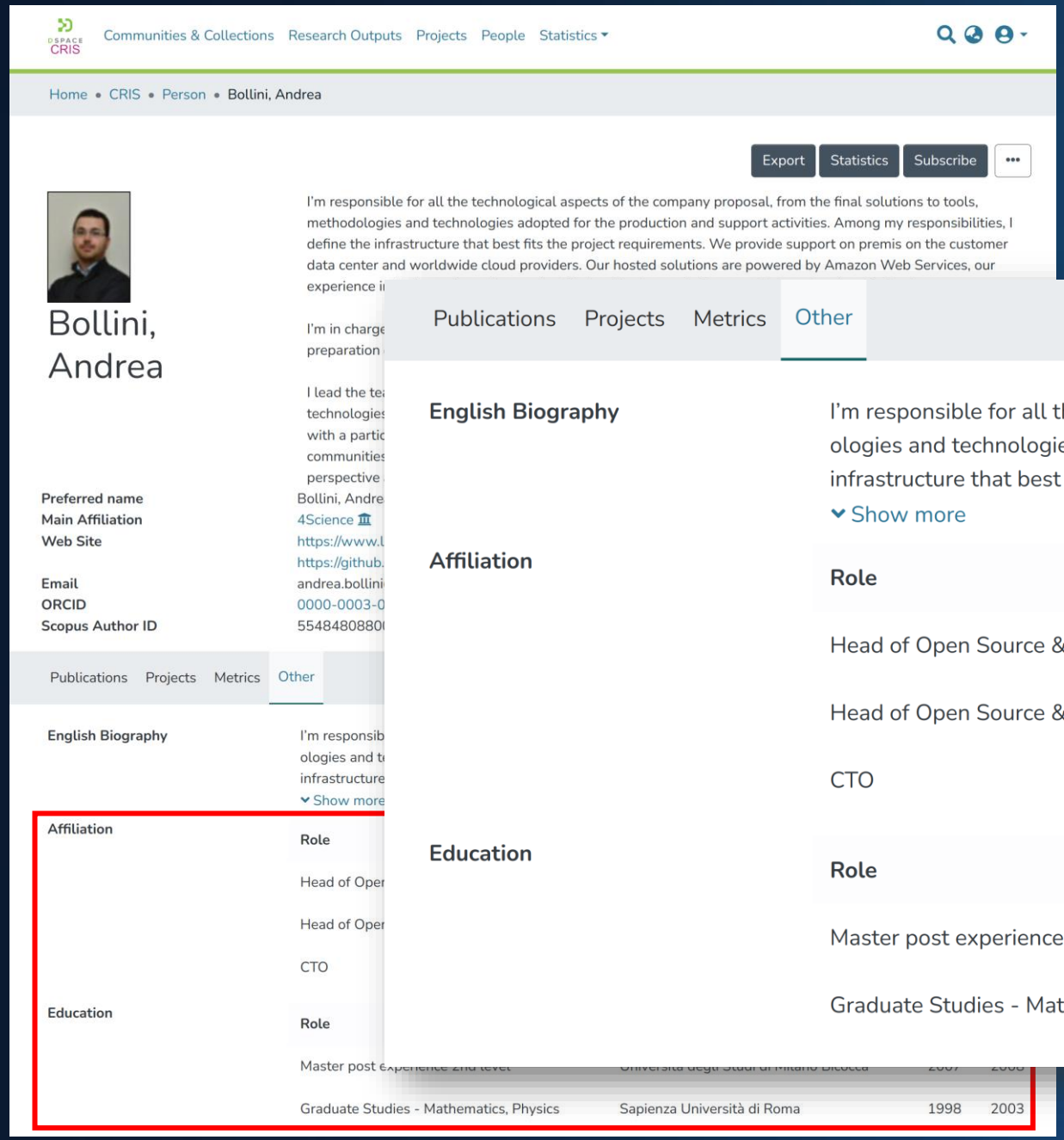
Readiness	Management
It provides out-of-box a functional Research Information System.	

Organization: System Name	Category	Certified Service Provider	Can Use with Public API	Collect Authenticated IDs	Read from Records	Add Affiliations	Add works	Add Funding	Add Peer Review	Add Biographical Data
4Science: DSpace-CRIS	CRIS/RIM	CERTIFIED Service Provider	✓	✓	✓	✓	✓	✓	✗	✓
4Science:DSpace	CRIS/RIM	CERTIFIED Service Provider	✓	✓	✓	✗	✓	✓	✗	✓

Superior ORCID integration

The ORCID integration originally developed in DSpace-CRIS has been contributed to DSpace 7.3 but DSpace-CRIS still offers additional features that were not possible to support in a plain DSpace

Employments, educations and qualifications are only managed by DSpace-CRIS (hierarchical metadata)



Publications | Projects | Metrics | Other

English Biography

I'm responsible for all the technological aspects of the company proposal, from the final solutions to tools, methodologies and technologies adopted for the production and support activities. Among my responsibilities, I define the infrastructure that best fits the project requirements. We provide support on premis on the customer data cer

Show more

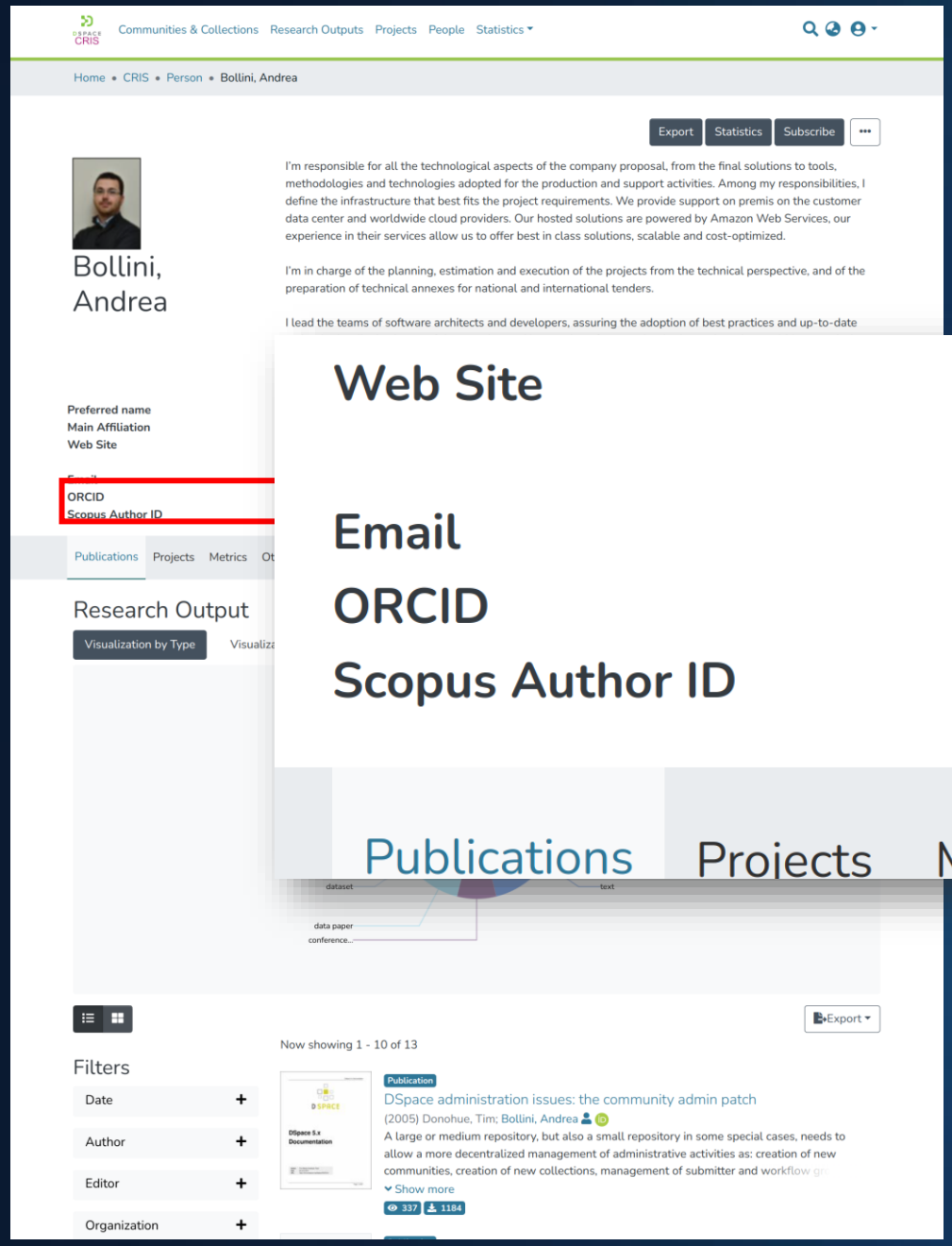
Affiliation

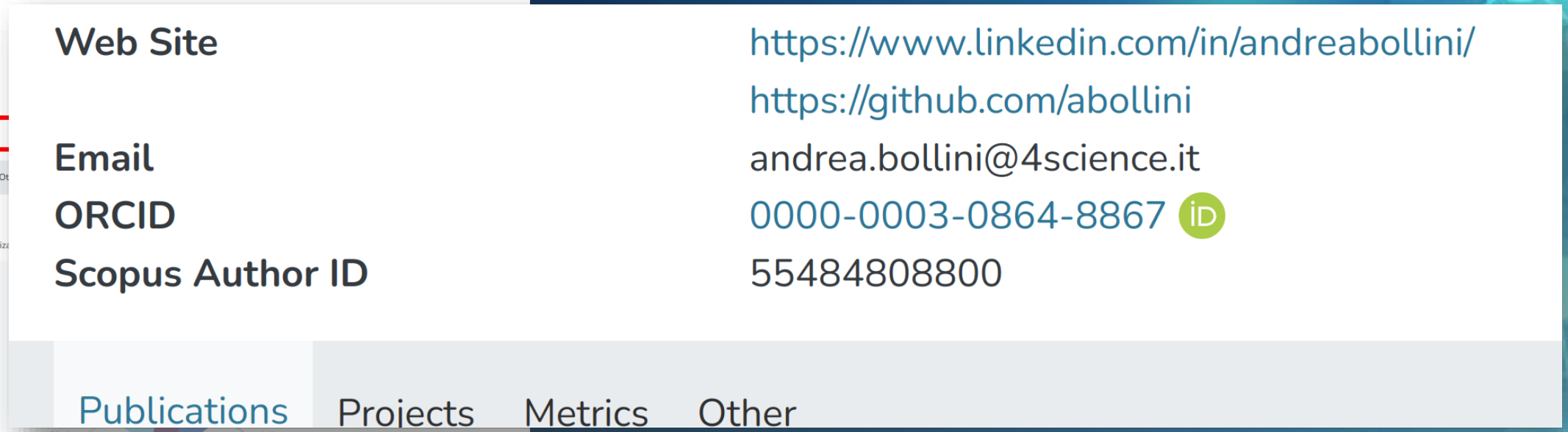
Role	Organisation	Start	End
Head of Open Source & Open Standards Strategy	CINECA	2012	2016
Head of Open Source & Open Standards Strategy	CINECA	2012	2016
CTO	4Science	2016	

Education

Role	Organisation	Start	End
Master post experience 2nd level	Università degli Studi di Milano Bicocca	2007	2008
Graduate Studies - Mathematics, Physics	Sapienza Università di Roma	1998	2003

Proper display of the ORCID logo in the researcher profiles and authored publications for ORCID Authenticated profiles





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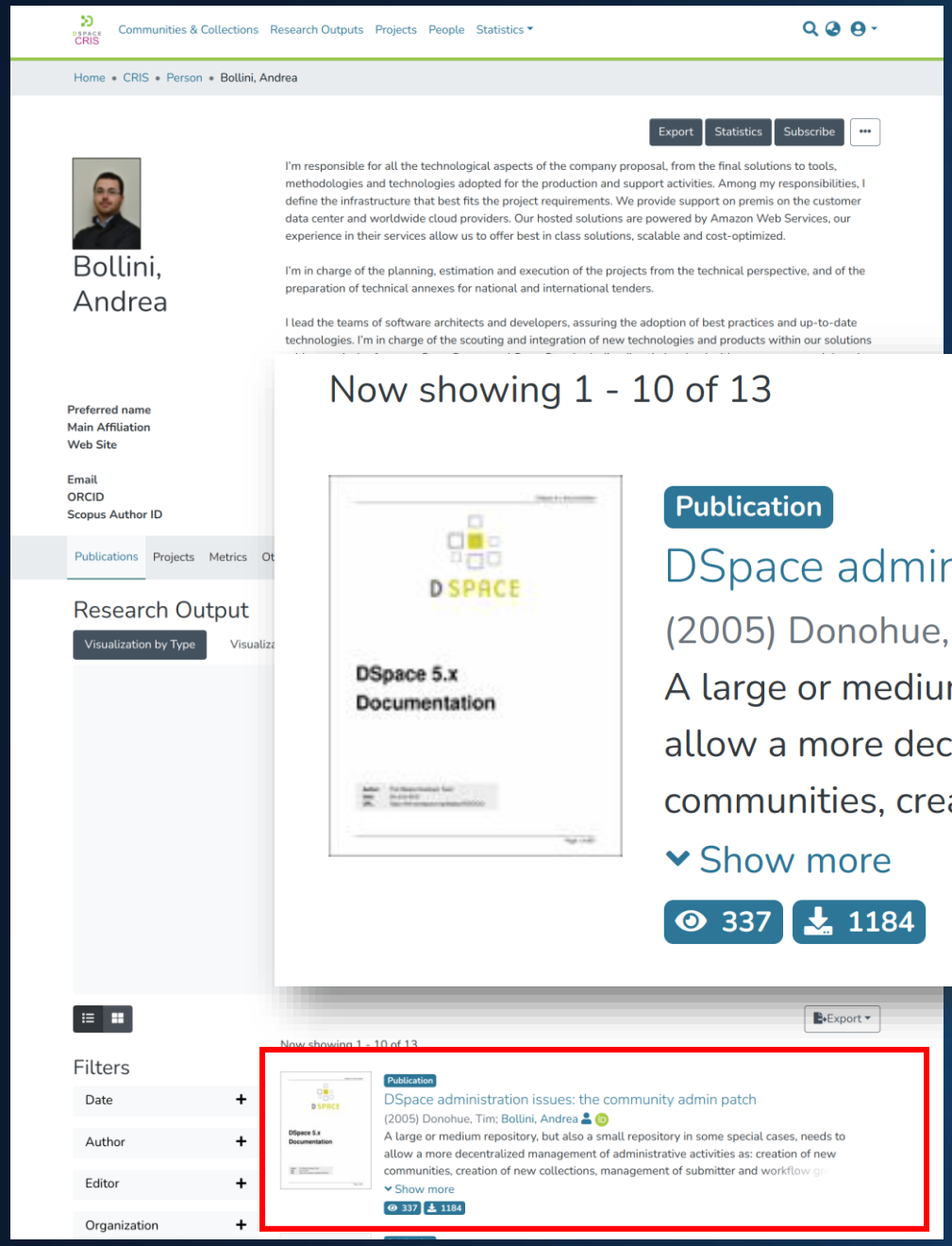

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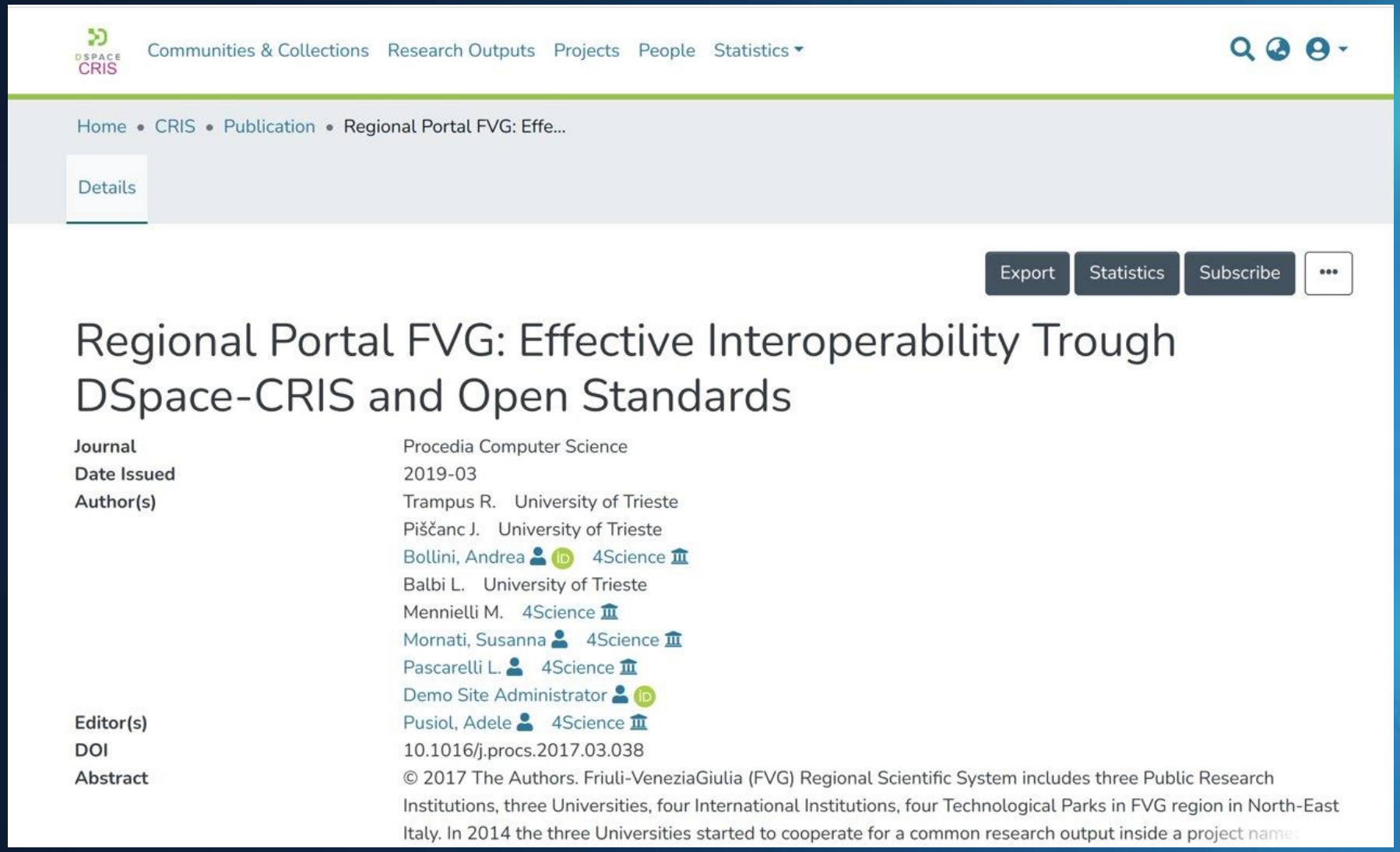

Automatic suggestion of publications from the ORCID profile missing in the repository (planned to be contributed in DSpace 8)

Home • MyDSpace

We found **1 Publications** in the ORCID registry that seems to be related to your profile. Please review the suggestions.

Drag & Drop your files here, or browse

All of DSpace | Search the repository ... | Search | Import | Export

Show

Your Submissions

Your submissions

Now showing 1 - 10 of 696

Filters

Status

- Workspace 602
- Archived 91
- Workflow 3

Search status

Status

Type

Archived

Publication

'They have whole worlds inside of them': a brief journey into the practice of book gift giving through history

(2018) Pusiol, Adele

No Abstract

View

Workspace

Item

Services for researchers

Curriculum Vitae export according a configurable PDF / RTF template (powered by Apache XLS:FO)

Citation Syle Language (CSL) Support for bibliographic data so to include the publications list in the CV or export them according to research community practice (Chicago, MLA, Tubirian, etc.)

DSPACE CRIS

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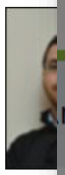

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Export item **Bollini, Andrea**

Format

Editable Curriculum Vitae (RTF)

- Choose the export format
- Editable Curriculum Vitae (RTF)
- Curriculum Vitae (PDF - MLA format)
- Curriculum Vitae (PDF - Chicago format)
- CERIF XML
- JSON

preparation of technical annexes for national and international tenders

Visualization by Type | Visualization by Date | Visualization Demo LTR | Visualization Demo RTL

person (24).pdf

1 of 2

36,2%

Bollini, Andrea
CTO at 4Science

Gender: m
Country: IT
Email: andrea.bollini@4science.it
ORCID: 0000-0003-0864-8867
Scopus Author IDs: 55484808800

I'm responsible for all the technological aspects of the company proposal, from the final solutions to tools, methodologies and technologies adopted for the production and support activities. Among my responsibilities, I define the infrastructure that best fits the project requirements. We provide support on premis on the customer data center and worldwide cloud providers. Our hosted solutions are powered by Amazon Web Services, our experience in their services allow us to offer best in class solutions, scalable and cost-optimized. I'm in charge of the planning, estimation and execution of the projects from the technical perspective, and of the preparation of technical annexes for national and international tenders. I lead the teams of software architects and developers, assuring the adoption of best practices and up-to-date technologies. I'm in charge of the scouting and integration of new technologies and products within our solutions with a particular focus on Open Source and Open Standards. I'm directly involved with open-source and domain communities to assure that our solutions remain aligned with the international trends both from the technical perspective and for the functional requirements.

Affiliations

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Publications

Smith, Jane and Bollini, Andrea (2021). *Factories, Movies, and Sport Science*
Bollini, Andrea and Ninfo, Daniele (2008-04-01). *DSpace Hibernate-Prototype*
Bollini, Andrea (2011). *Test US Army 2023*
Bollini, Andrea (2021-06-02). *DSpace-CRIS 7.0*
Bollini, Andrea (2022-08-18). *SynsiCRIS technical presentation*
Lombardi, Corrado and John Doe and Bollini, Andrea and Cortese, Claudio (2022). *Lorem ipsum dolor*
Bollini, Andrea (2016). *New functionalities of the euroCRIS' DSpace-CRIS Repository*
Cortese, Claudio and Bollini, Andrea (2023-03-16). *Test demo one*
Cortese, Claudio and Bollini, Andrea (2018). *Extending DSpace to fulfil the requirements of Digital Libraries for Cultural Heritage Management*
Cortese, Claudio and Bollini, Andrea (2023-03-07). *Test demo san raffaele uno*
Donohue, Tim and Bollini, Andrea (2005). *DSpace administration issues: the community admin patch*
Mornati, Susanna and Mennielli, Michele and Bollini, Andrea (2014-07-02). *DSpace-CRIS@HKU: Achieving Visibility with a CERIF Compliant Open Source System*

Trampus R. and Piščanc J. and Bollini, Andrea and Balbi L. and Mennielli M. and Mornati, Susanna and Pascarelli L. and Demo Site Administrator (2019-03). *Regional Portal FVG: Effective Interoperability Trough DSpace-CRIS and Open Standards*

Services for researchers

Management of highlights: presents the most important publications, projects, awards, community services, etc. according to the ranking decided by the researcher themselves

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Bollini, Andrea

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Publications | Projects | Metrics | Other

Research Output

Visualization by Type | Visualization by Date | Visualization Demo LTR | Visualization Demo RTL

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Options

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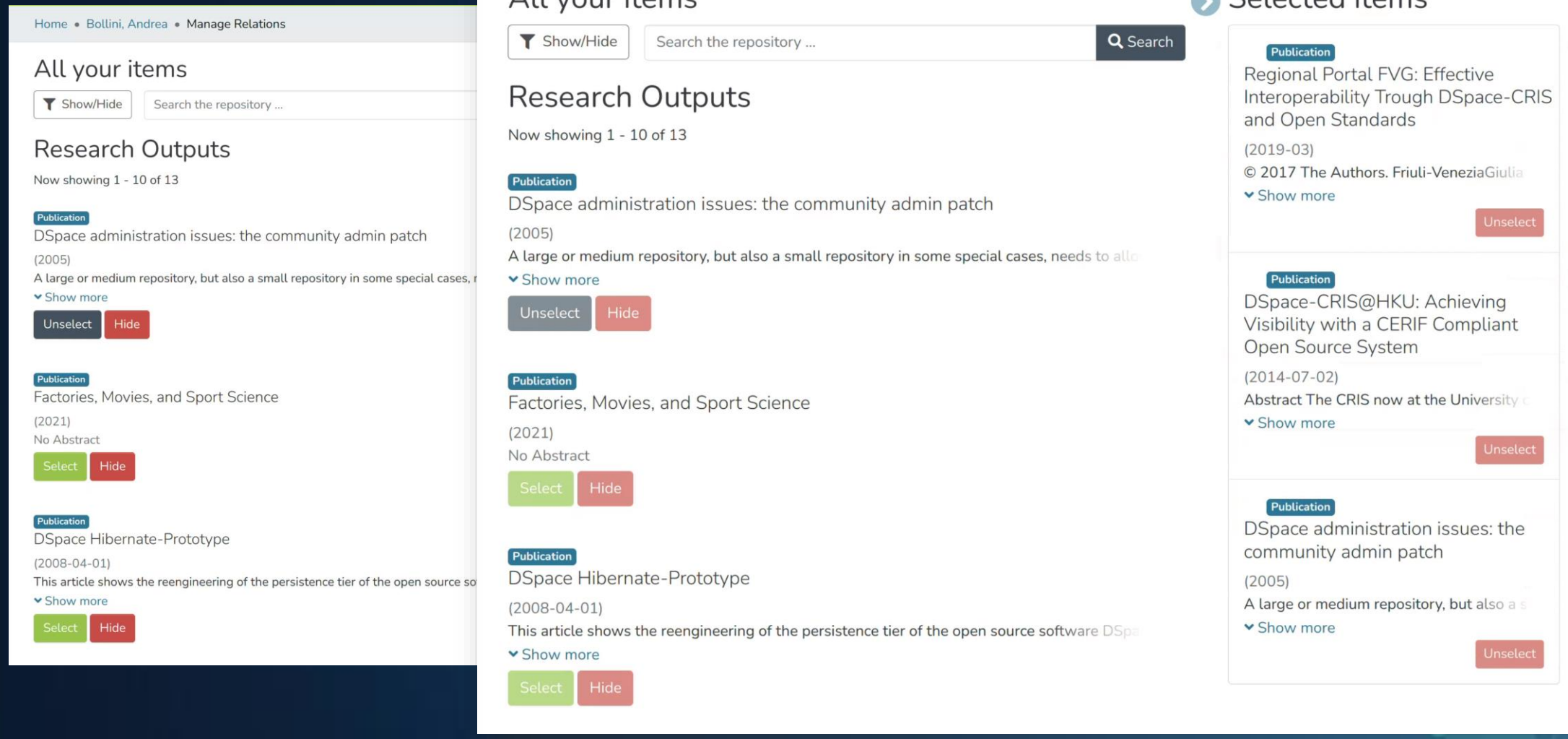
Administer

Manage Research Outputs

Manage Projects

Create new version

Show all metadata (technical view)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Publication
DSpace administration issues: the community admin patch
(2005)
A large or medium repository, but also a small repository in some special cases, needs to allo
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Factories, Movies, and Sport Science
(2021)
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Publication
DSpace Hibernate-Prototype
(2008-04-01)
This article shows the reengineering of the persistence tier of the open source software DSpa
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Regional Portal FVG: Effective Interoperability Trough DSpace-CRIS and Open Standards
(2019-03)
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Publication
DSpace-CRIS@HKU: Achieving Visibility with a CERIF Compliant Open Source System
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Abstract The CRIS now at the University
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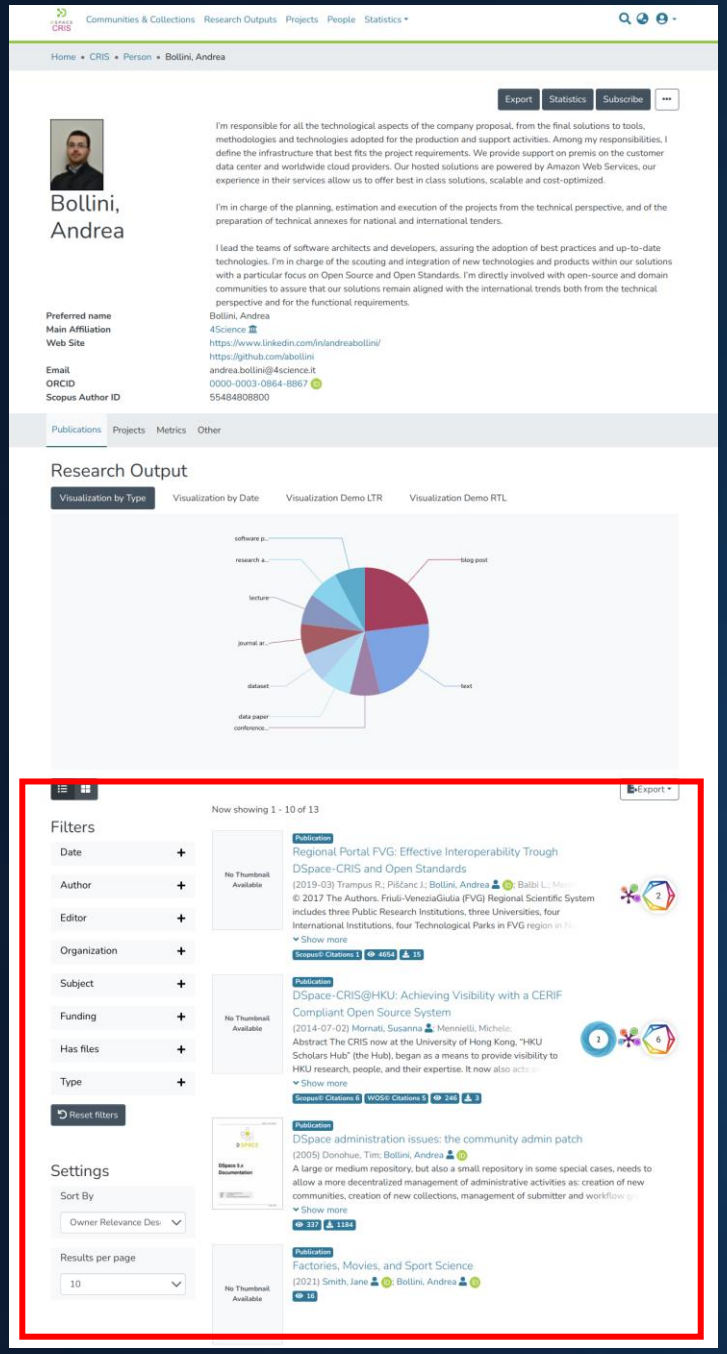
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Publications
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Visualization by Type
Visualization by Date
Visualization Demo LTR
Visualization Demo RTL
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Regional Portal FVG: Effective Interoperability Trough DSpace-CRIS and Open Standards
(2019-03) Trampus R.; Piščanc J.; Bollini, Andrea; Balbi L.;
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(2014-07-02) Mornati, Susanna; Mennielli, Michele;
Abstract The CRIS now at the University of Hong Kong, "HKU Scholars Hub" (the Hub), began as a means to provide visibility to HKU research, people, and their expertise. It now also acts as
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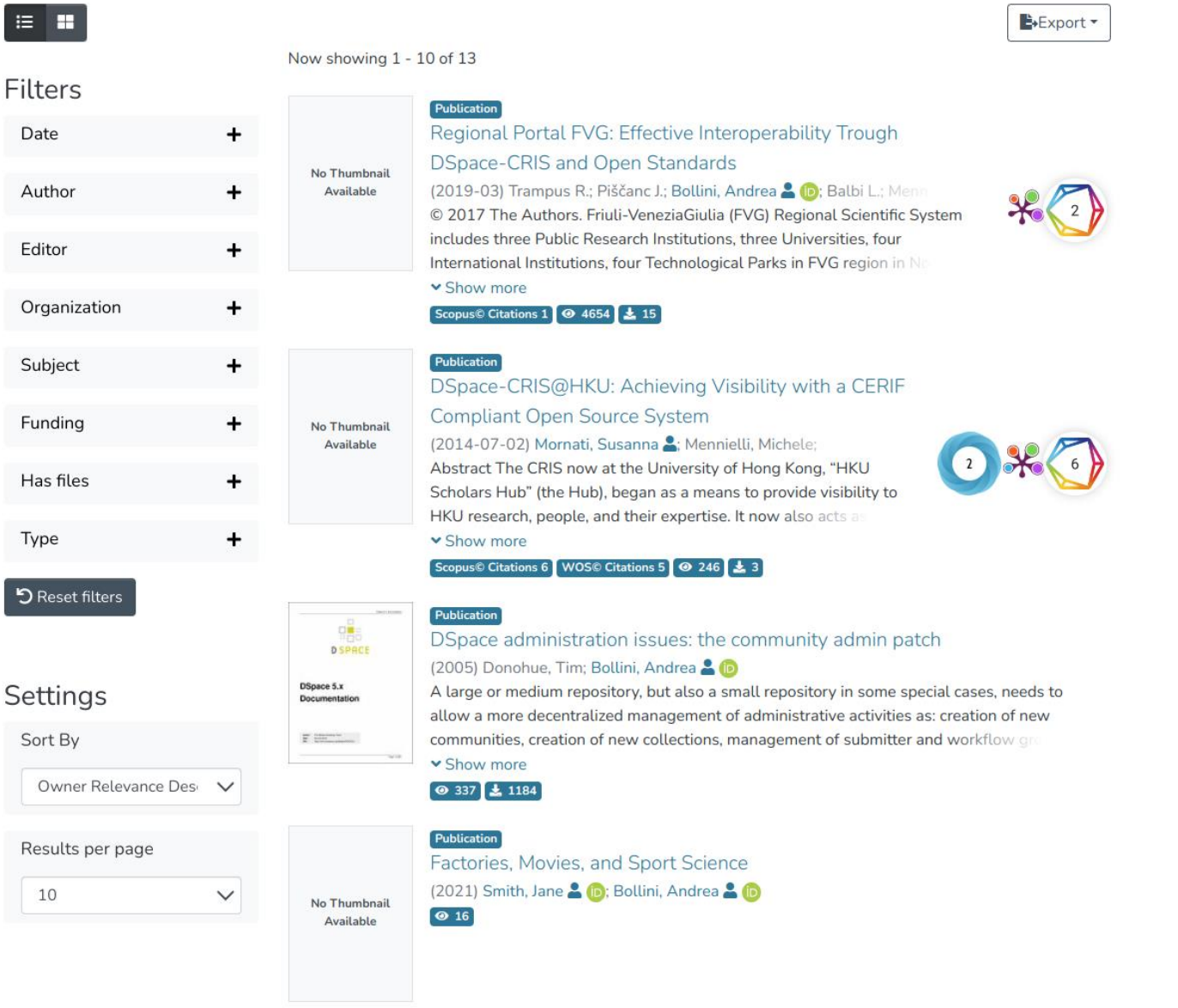
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1184
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(2021) Smith, Jane; Bollini, Andrea
16

Services for researchers

Friendly and secure self-management of the profile data

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Scopus Author ID	55484808800

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Research Output

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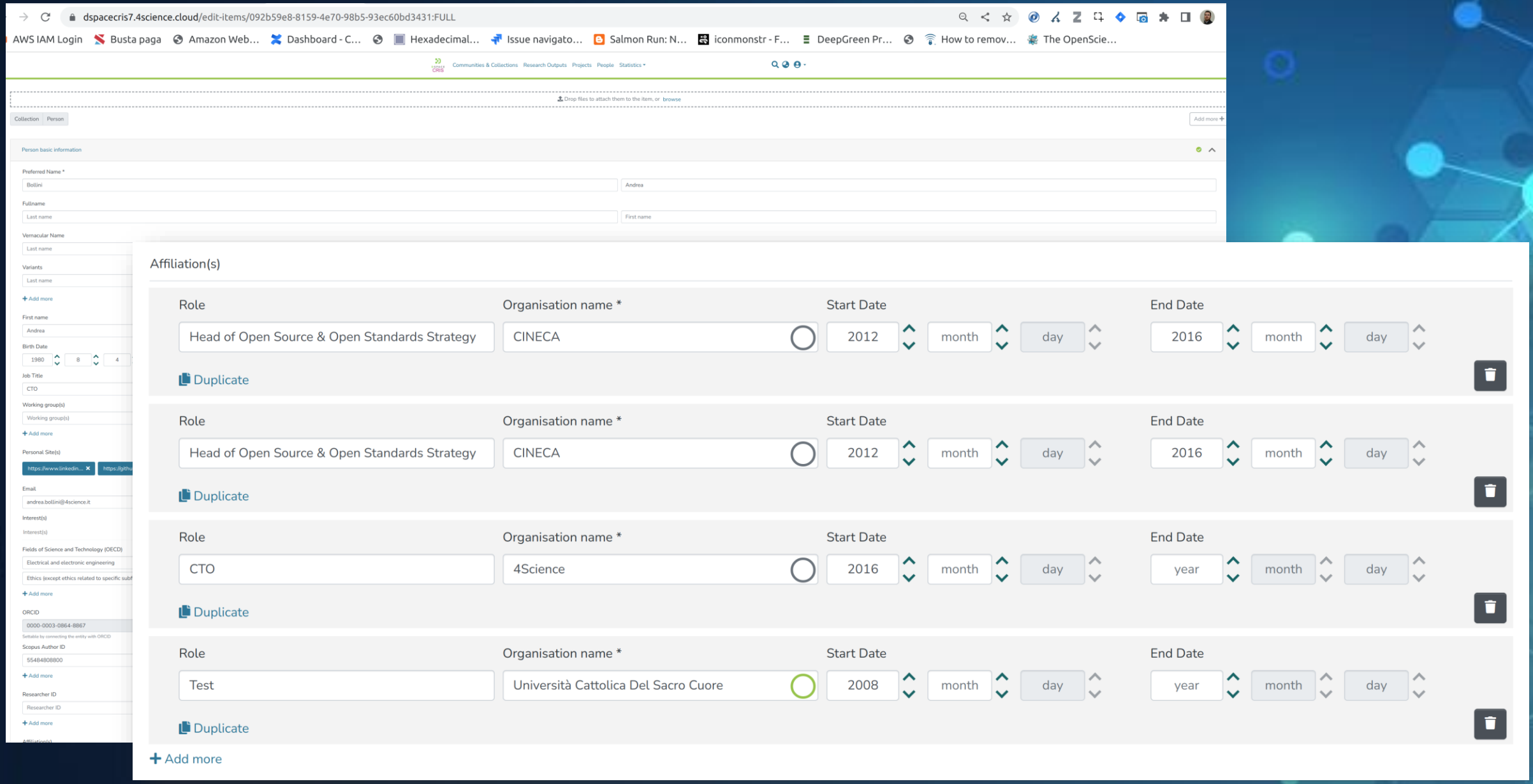
- Audit
- Administer
- Manage Research Outputs
- Manage Projects
- Create new version
- Show all metadata (technical view)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Features for administrators

Provides a configurable UI that will follow the customization of the data model without forcing change to Angular code for any small change (additional metadata, new relations, different order o placing of the information, etc.)

Each item will use a configuration based on a grid system identified according to the entity type and a metadata that would further classify the item, such as the dc.type, to provide a different layout for a Journal Article over a Thesis, a Book, etc.

Allows easy configuration of the Home page via reusable and extensible components (sorted list "top viewed", "top cited", etc., infographic, html fragments, facets) to be placed within a grid system

Allows to define secondary section home page to provide tailored repository entry point and foster specific repository contents such as research materials, educational materials, heritage contents, etc.

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Bollini, Andrea

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Main Affiliation
Web Site

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English Biography

I'm responsible for all
methodologies and te
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Affiliation

Role
Head of Open Source
Head of Open Source
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Education

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Country IT

Knows Language en

Communities & Collections Research Outputs Projects People

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LEADING TAB

4SCIENCE

Organisation Name 4Science
Director Valenti, Cesare
Parent Organisation ITWay
Founding Date 2015

Details
Publications
Researchers publications
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Researchers projects
People

Description

Country IT
City Milan
Description 4Science was established in 2015 to support universities, research and cultural institutes all around the world in managing and realizing digital projects. We guarantee full compliance with methodological and scie

VERTICAL LAYOUT

Communities & Collections Research Outputs Projects People

box row 1

cell 1

cell 2

Preferred name	Bollini, Andrea
Main Affiliation	4Science
Web Site	https://www.linkedin.com/in/andreabollini/ https://github.com/abollini
Email	andrea.bollini@4science.it
ORCID	0000-0003-0864-8867

box row 2

cell 1

English Biography

I'm responsible for all the technological aspects of the company proposal, from the final solutions to tools, methodologies and technologies adopted for the production and support activities. Among my responsibilities, I define the infrastructure that best fits the project requirements. We provide support on premis on the custom

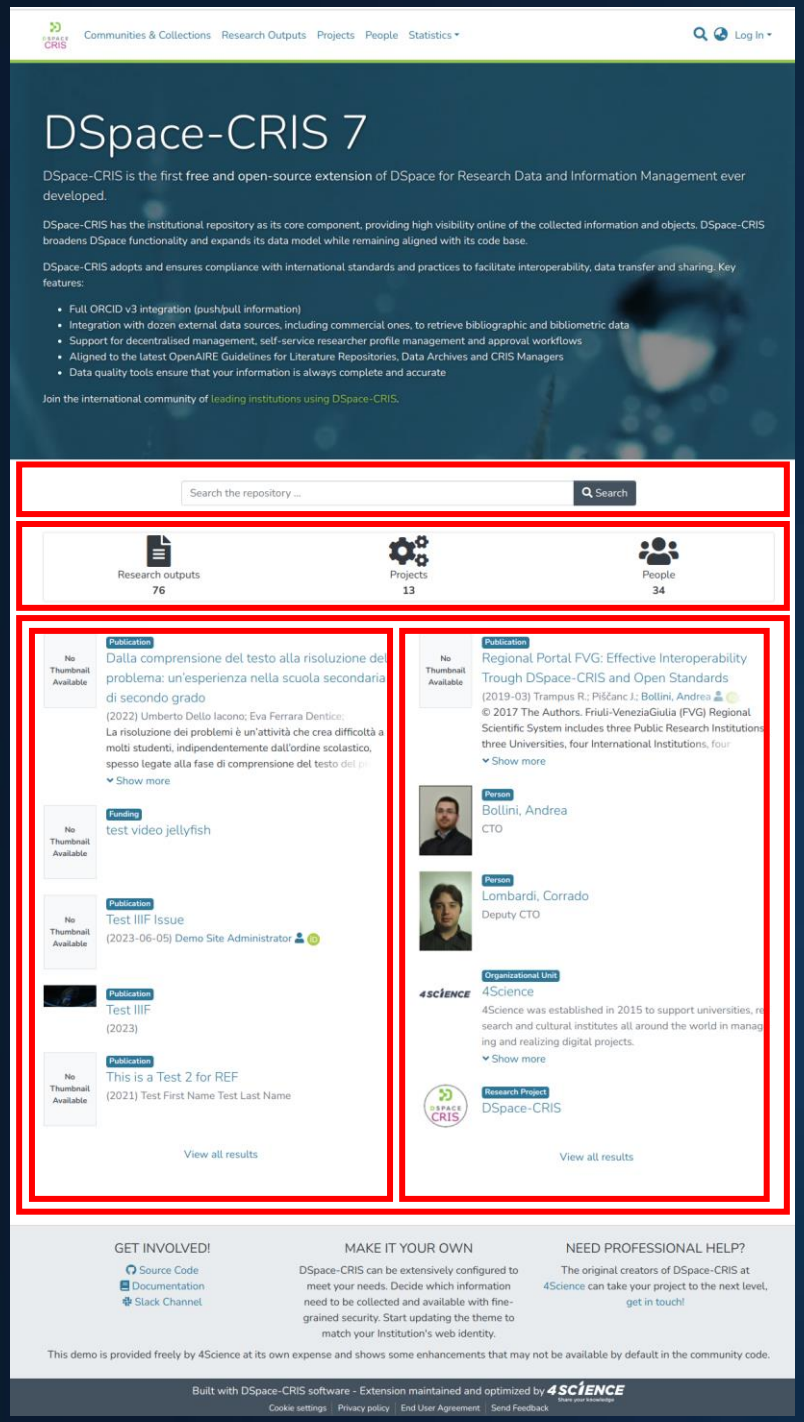
Affiliation

Role	Organisation	Start	End
Head of Open Source & Open Standards Strategy	CINECA	2012	2016
Head of Open Source & Open Standards Strategy	CINECA	2012	2016
CTO	4Science	2016	
Test	Università Cattolica Del Sacro Cuore	2008	

Education

Role	Organisation	Start	End
Master post experience 2nd level	Università degli Studi di Milano Bicocca	2007	2008
Graduate Studies - Mathematics, Physics	Sapienza Università di Roma	1998	2003

Country	IT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DSpace-CRIS 7
DSpace-CRIS is the first free and open-source extension of DSpace for Research Data and Information Management ever developed.
DSpace-CRIS has the institutional repository as its core component, providing high visibility online of the collected information and objects. DSpace-CRIS broadens DSpace functionality and expands its data model while remaining aligned with its code base.
DSpace-CRIS adopts and ensures compliance with international standards and practices to facilitate interoperability, data transfer and sharing. Key features:
Full ORCID v3 integration (push/pull information)
Integration with dozen external data sources, including commercial ones, to retrieve bibliographic and bibliometric data
Support for decentralised management, self-service researcher profile management and approval workflows
Aligned to the latest OpenAIRE Guidelines for Literature Repositories, Data Archives and CRIS Managers
Data quality tools ensure that your information is always complete and accurate
Join the international community of leading institutions using DSpace-CRIS.
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Research outputs
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Publication
Dalla comprensione del testo alla risoluzione del problema: un'esperienza nella scuola secondaria di secondo grado
(2022) Umberto Dello Iacono; Eva Ferrara Dentice;
La risoluzione dei problemi è un'attività che crea difficoltà a molti studenti, indipendentemente dall'ordine scolastico, spesso legate alla fase di comprensione del testo del p
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Funding
test video jellyfish
Publication
Test IIIF Issue
(2023-06-05) Demo Site Administrator
Publication
Test IIIF
(2023)
Publication
This is a Test 2 for REF
(2021) Test First Name Test Last Name
View all results
Publication
Regional Portal FVG: Effective Interoperability Trough DSpace-CRIS and Open Standards
(2019-03) Trampus R.; Piščanc J.; Bollini, Andrea
© 2017 The Authors. Friuli-VeneziaGiulia (FVG) Regional Scientific System includes three Public Research Institutions, three Universities, four International Institutions, four
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Person
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CTO
Person
Lombardi, Corrado
Deputy CTO
Organizational Unit
4Science
4Science was established in 2015 to support universities, re search and cultural institutes all around the world in manag ing and realizing digital projects.
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DSpace-CRIS can be extensively configured to meet your needs. Decide which information need to be collected and available with fine-grained security. Start updating the theme to match your Institution's web identity.
NEED PROFESSIONAL HELP?
The original creators of DSpace-CRIS at 4Science can take your project to the next level, get in touch!
This demo is provided freely by 4Science at its own expense and shows some enhancements that may not be available by default in the community code.
Built with DSpace-CRIS software - Extension maintained and optimized by 4SCIENCE
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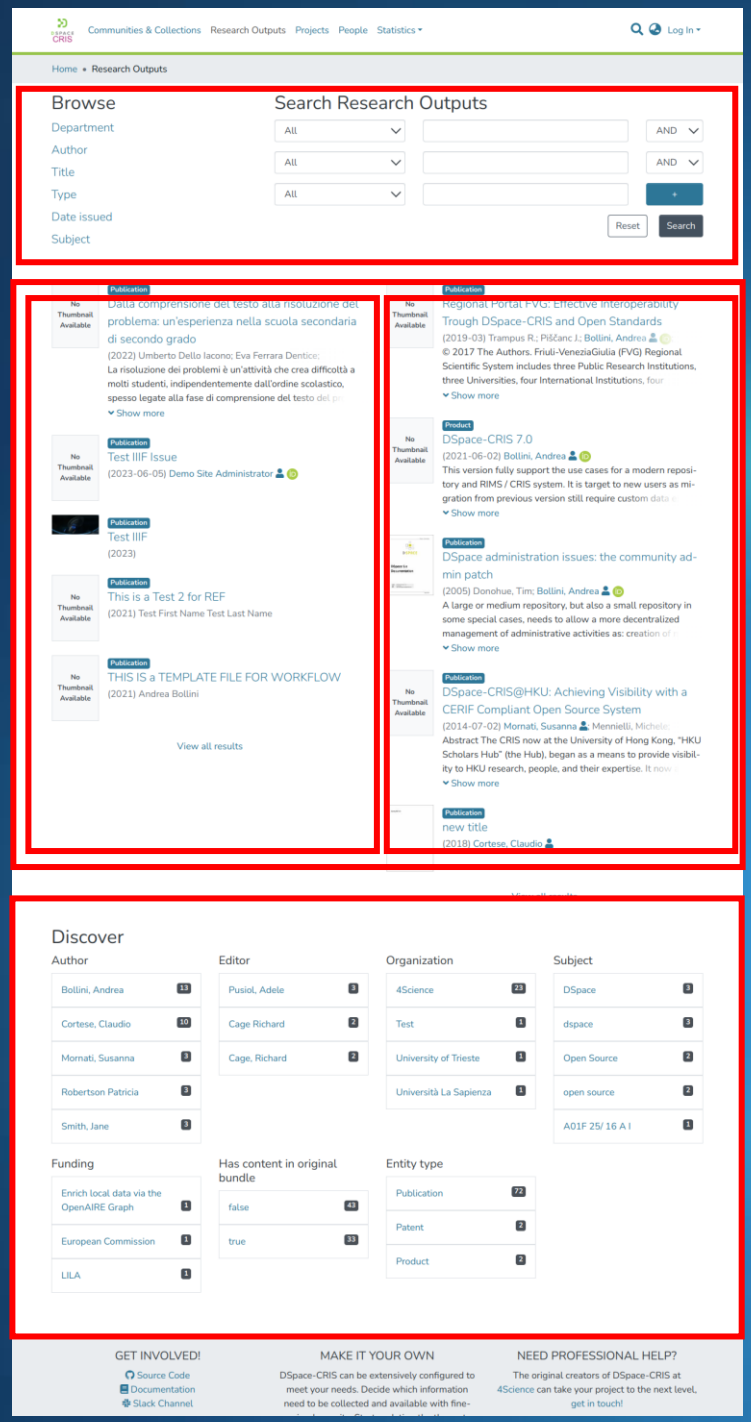
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Search Research Outputs
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AND
Reset
Search
Publication
Dalla comprensione del testo alla risoluzione del problema: un'esperienza nella scuola secondaria di secondo grado
(2022) Umberto Dello Iacono; Eva Ferrara Dentice;
La risoluzione dei problemi è un'attività che crea difficoltà a molti studenti, indipendentemente dall'ordine scolastico, spesso legate alla fase di comprensione del testo del p
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Publication
Test IIIF Issue
(2023-06-05) Demo Site Administrator
Publication
Test IIIF
(2023)
Publication
This is a Test 2 for REF
(2021) Test First Name Test Last Name
Publication
THIS IS a TEMPLATE FILE FOR WORKFLOW
(2021) Andrea Bollini
View all results
Publication
Regional Portal FVG: Effective Interoperability Trough DSpace-CRIS and Open Standards
(2019-03) Trampus R.; Piščanc J.; Bollini, Andrea
© 2017 The Authors. Friuli-VeneziaGiulia (FVG) Regional Scientific System includes three Public Research Institutions, three Universities, four International Institutions, four
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Product
DSpace-CRIS 7.0
(2021-06-02) Bollini, Andrea
This version fully support the use cases for a modern reposi- tory and RIMS / CRIS system. It is target to new users as mi- gration from previous version still require custom data
Show more
Publication
DSpace administration issues: the community ad- min patch
(2005) Donohue, Tim; Bollini, Andrea
A large or medium repository, but also a small repository in some special cases, needs to allow a more decentralized management of administrative activities as: creation of
Show more
Publication
DSpace-CRIS@HKU: Achieving Visibility with a CERIF Compliant Open Source System
(2014-07-02) Mornati, Susanna; Mennielli, Michele;
Abstract The CRIS now at the University of Hong Kong, "HKU Scholars Hub" (the Hub), began as a means to provide visibil- ity to HKU research, people, and their expertise. It now
Show more
Publication
new title
(2018) Cortese, Claudio
Discover
Author
Bollini, Andrea 13
Cortese, Claudio 10
Mornati, Susanna 3
Robertson Patricia 3
Smith, Jane 3
Editor
Pusiol, Adele 3
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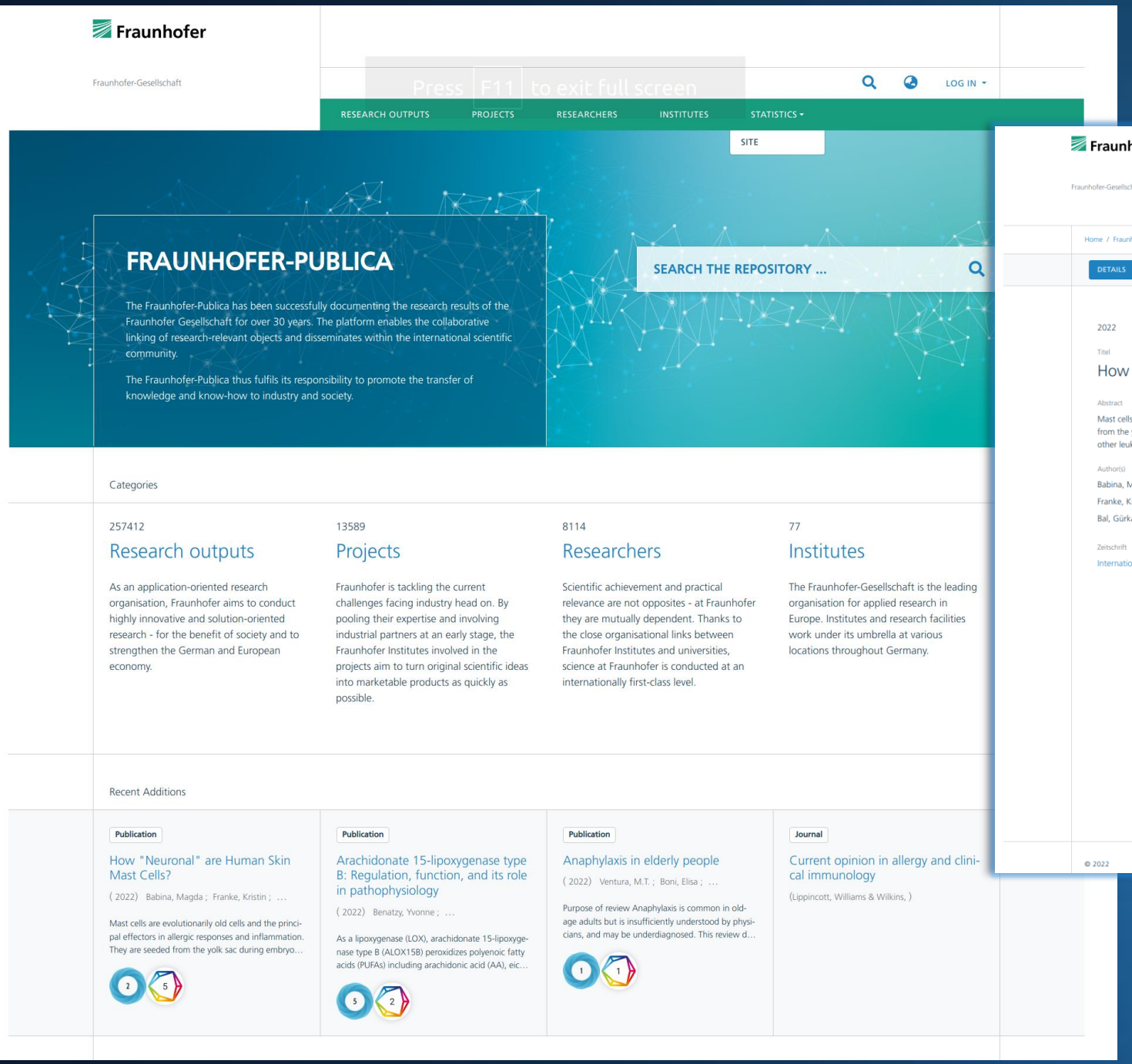
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The Fraunhofer-Publica thus fulfils its responsibility to promote the transfer of knowledge and know-how to industry and society.
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As an application-oriented research organisation, Fraunhofer aims to conduct highly innovative and solution-oriented research - for the benefit of society and to strengthen the German and European economy.
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Fraunhofer is tackling the current challenges facing industry head on. By pooling their expertise and involving industrial partners at an early stage, the Fraunhofer Institutes involved in the projects aim to turn original scientific ideas into marketable products as quickly as possible.
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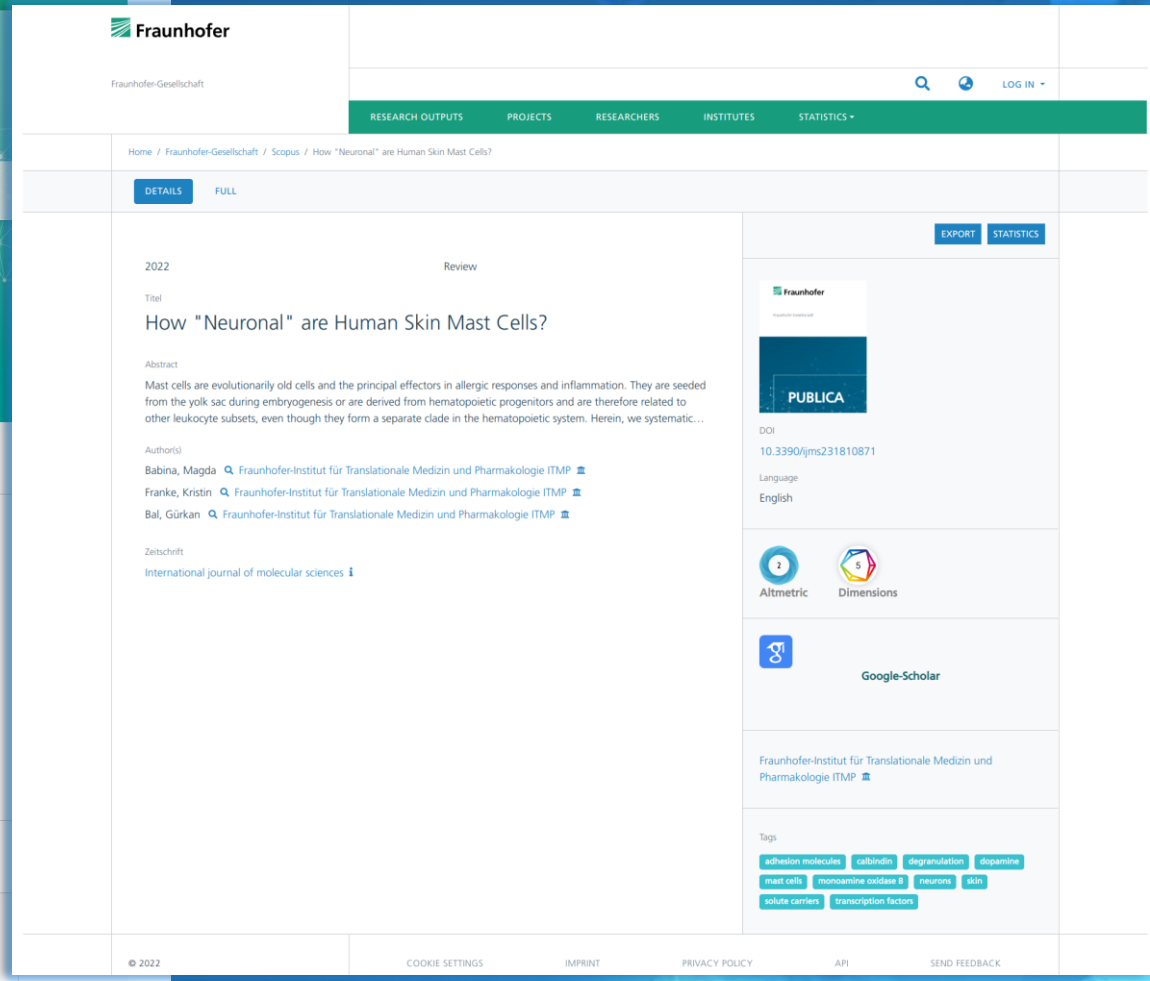
Institutes
The Fraunhofer-Gesellschaft is the leading organisation for applied research in Europe. Institutes and research facilities work under its umbrella at various locations throughout Germany.
Recent Additions
Publication
How "Neuronal" are Human Skin Mast Cells?
(2022) Babina, Magda ; Franke, Kristin ; ...
Mast cells are evolutionarily old cells and the principal effectors in allergic responses and inflammation. They are seeded from the yolk sac during embryo...
Publication
Arachidonate 15-lipoxygenase type B: Regulation, function, and its role in pathophysiology
(2022) Benatzy, Yvonne ; ...
As a lipoxygenase (LOX), arachidonate 15-lipoxygenase type B (ALOX15B) peroxidizes polyenoic fatty acids (PUFAs) including arachidonic acid (AA), eic...
Publication
Anaphylaxis in elderly people
(2022) Ventura, M.T. ; Boni, Elisa ; ...
Purpose of review Anaphylaxis is common in old-age adults but is insufficiently understood by physicians, and may be underdiagnosed. This review d...
Journal
Current opinion in allergy and clinical immunology
(Lippincott, Williams & Wilkins,)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2022
Review
Titel
How "Neuronal" are Human Skin Mast Cells?
Abstract
Mast cells are evolutionarily old cells and the principal effectors in allergic responses and inflammation. They are seeded from the yolk sac during embryogenesis or are derived from hematopoietic progenitors and are therefore related to other leukocyte subsets, even though they form a separate clade in the hematopoietic system. Herein, we systematic...
Author(s)
Babina, Magda Fraunhofer-Institut für Translationale Medizin und Pharmakologie ITMP
Franke, Kristin Fraunhofer-Institut für Translationale Medizin und Pharmakologie ITMP
Bal, Gürkan Fraunhofer-Institut für Translationale Medizin und Pharmakologie ITMP
Zeitschrift
International journal of molecular sciences
PUBLICA
DOI
10.3390/ijms231810871
Language
English
Altmetric
Dimensions
Google-Scholar
Fraunhofer-Institut für Translationale Medizin und Pharmakologie ITMP
Tags
adhesion molecules
calbindin
degranulation
dopamine
mast cells
monoamine oxidase B
neurons
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Welcome to #PeruCRIS

Concytec has been carrying out the #PerúCRIS Project, which seeks the articulation and cooperation between SINACYT institutions to operate the National Information Network on Science, Technology and Technological Innovation (CTI)..

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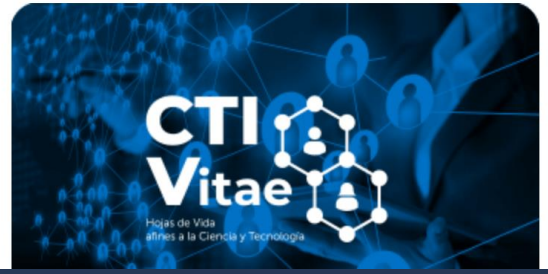
People	Institutions	Scientific Production	Projects	Infrastructure
11506	3271	5896	4338	97

What type of user are you?



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Export Statistics

The price of policy risk - Empirical insights from choice experiments with European photovoltaic project developers

Journal	Energy Economics
ISSN	0140-9883
ISSN-Digital	1873-6181
Type	journal article
Date Issued	2012-07-04
Author(s)	Wüstenhagen, Rolf Luethi, Sonja
DOI	10.1016/j.eneco.2011.08.007
Abstract	Managing the transition to a renewable energy future is an important policy priority in many countries. Solar photovoltaic (PV) technology is expected to make an essential contribution, but due to relatively high cost, its growth to date has been largely driven by public policy, notably feed-in tariffs. Feed-in tariffs have been implemented
Project(s)	DISTRES - Promotion and consolidation of all Research and Technology Development activities for Renewable Energy Distributed Generation Technologies in the Mediterranean region
Language	English
Keywords	Adaptive conjoint analysis Choice experiment Feed-in tariff Photovoltaic Policy design
HSG Classification	contribution to scientific community
Refereed	Yes
Publisher	Elsevier B.V.
Publisher place	Amsterdam
Volume	34
Number	4
Start page	1001
End page	1011
Pages	11
URL	https://www.alexandria.unisg.ch/handle/20.500.14171/91340
Subject(s)	business studies
Division(s)	IWOE - Institute for ... University of St.Gall...
Eprints ID	209337
File(s)	A28_Luethi_Wuestenhagen_EneEcon_2012.pdf (553.32 KB)

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105
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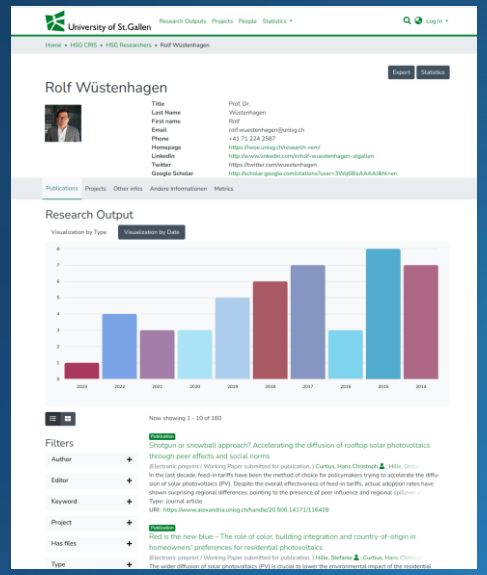
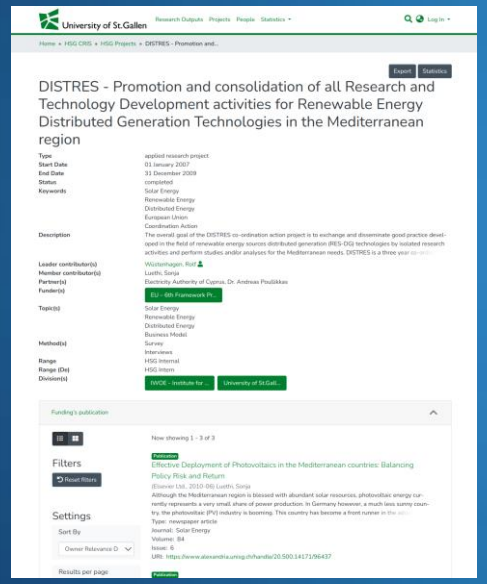




Roadmap

The new LTS model that will be active in September

4SCIENCE
Share your knowledge

"The latest version is actively maintained by 4Science and community members as volunteer work. Support for past versions will be based on availability of resources and funding from the community. Security fixes will be brought to the current version and to the Latest LTS version. If the current version is a LTS the security fix will be done also on the previous LTS version"

Mutuated from **the versioning model of successful open source projects such as Ubuntu.**

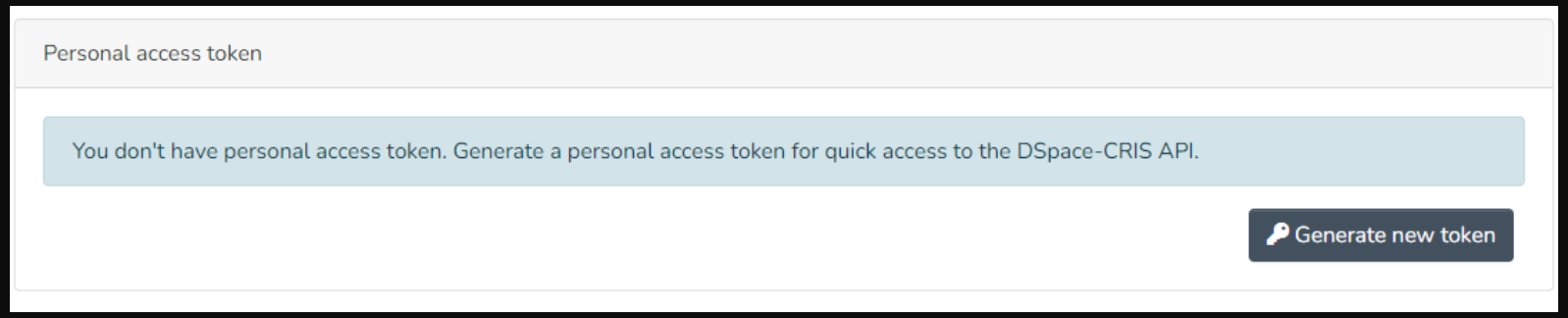
This allows stability (Ubuntu 22.04 LTS) and innovation via non-LTS versions (Ubuntu 22.10 - 23.04 …)

What's new since OR2022?

- Multi-language support: visualization of metadata values according to the UI language with fallback to the default language and available values in other languages. Multi-language support is also available in the search and browse for metadata coming from vocabularies and value pairs (dropdown)
- Manage bitstreams via the XLS BulkImport: support to edit bitstream metadata, attach, delete new files pointing to local folder configured in the server or remote location (via public ftp, sftp, http, https)
- Configurable CRIS Icons. Icons of entities are displayed in different styles according to configuration
- Scopus and Wos import scripts can be limited to a configurable amount of items
-

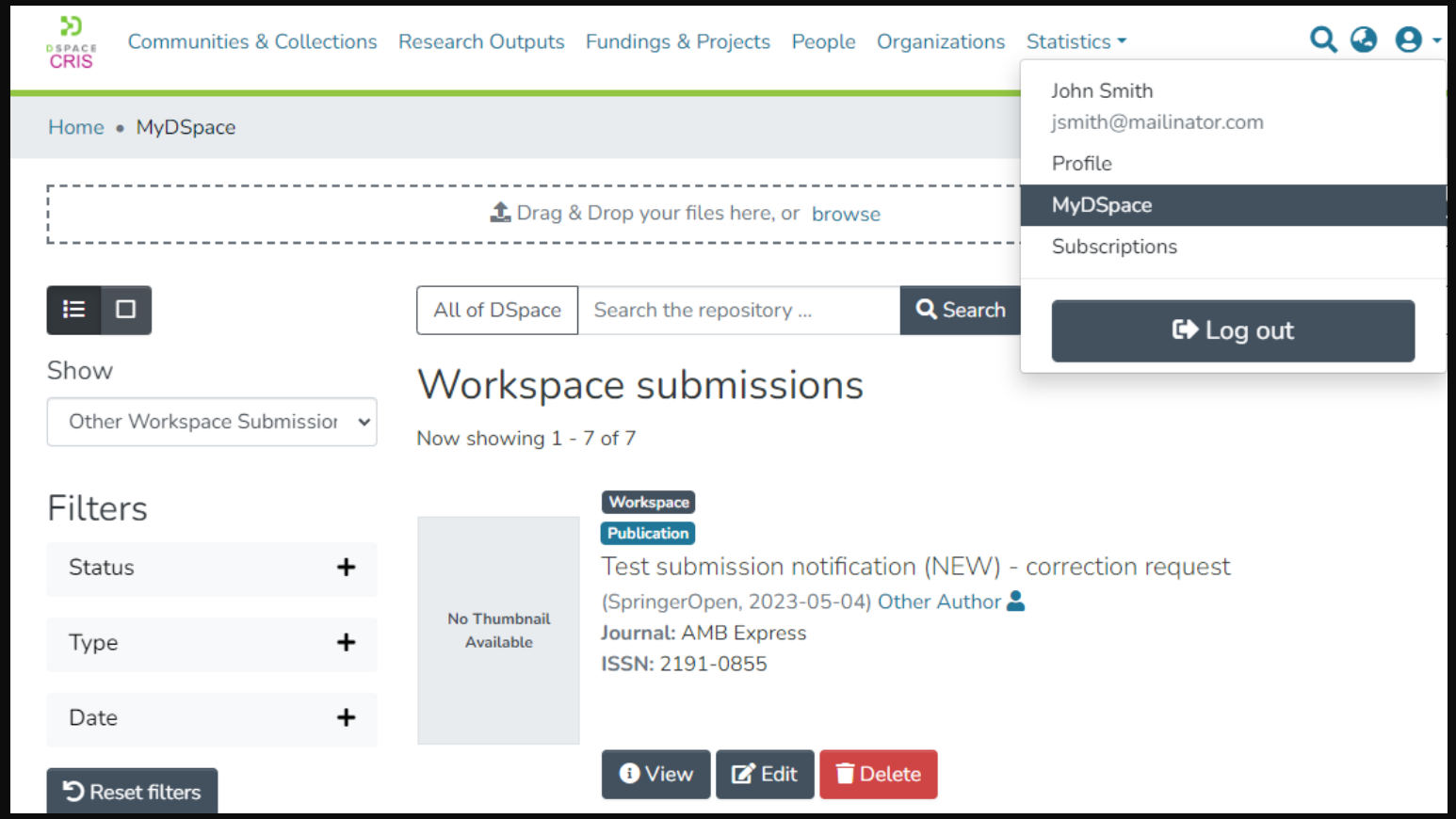
What's new since OR2022?

Machine Token: it is now possible to generate a long lived JWT token that is independent from the session login, so that it can be used in external system to query the DSpace API without giving away your credentials. The new feature is accessible from the profile (user account) page. The machine token can be revoked by the user.



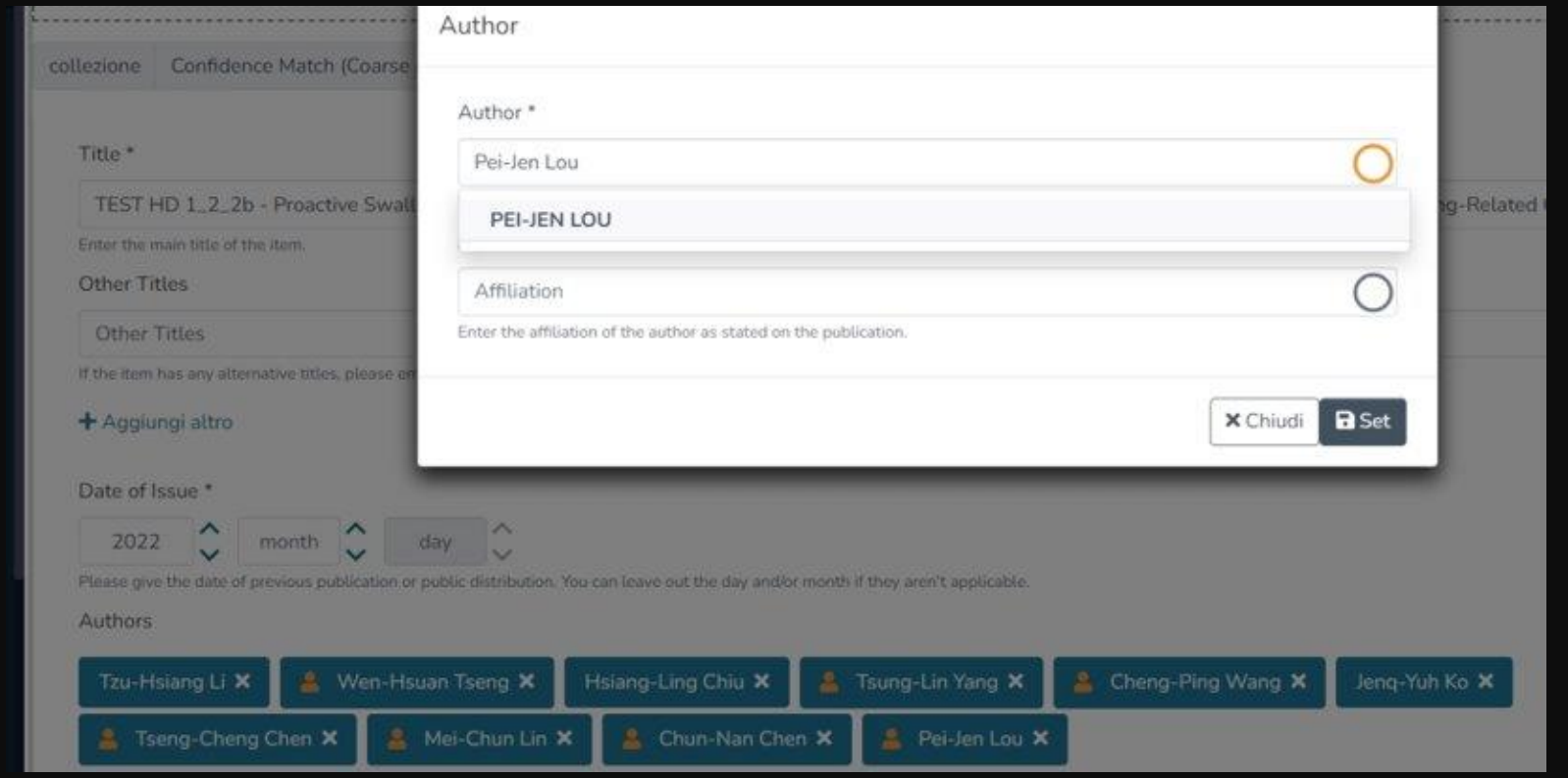
What's new since OR2022?

Shared workspace feature: all coauthors can work on the same workspace item



What's new since OR2022?

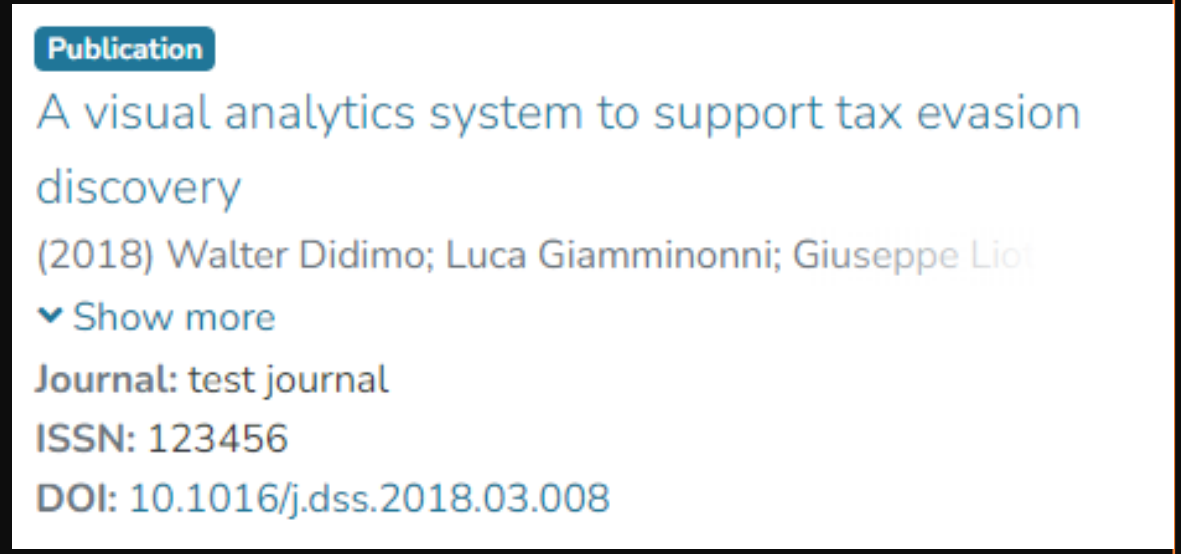
Automatic guessing of linked entities during import



What's new since OR2022?

Configurable item brief view

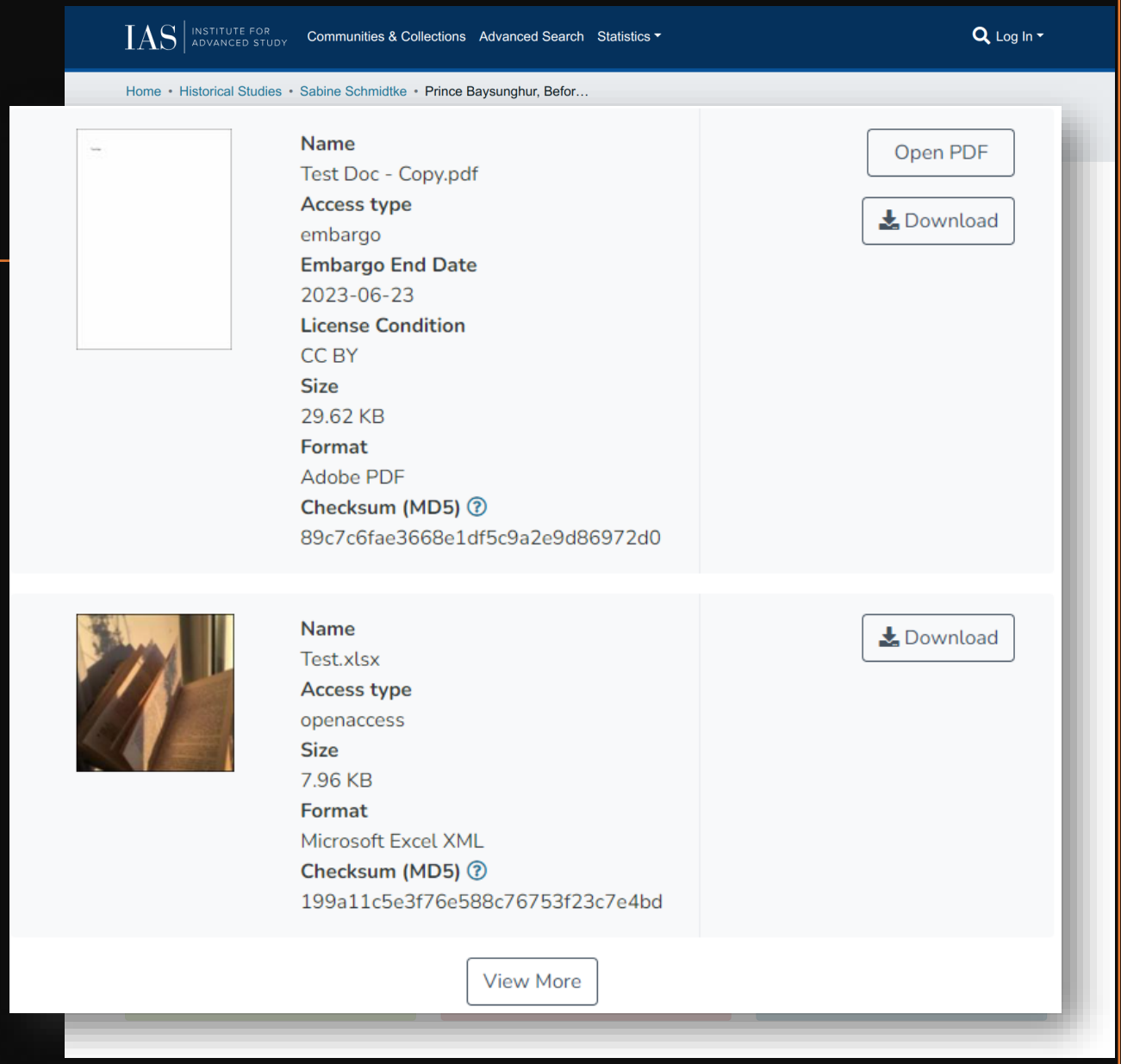
```yaml
searchResult:
  additionalMetadataFields:
    - entityType: person
      metadataConfiguration:
        - name: person.email
          rendering: link.email
          label: search.results-metadata.label.person.email  # As i18n label
        - name: oairecerif.identifier.url
          rendering: link
          label: Web Site                                    # As text
    - entityType: fallback  # used for other entity types
      metadataConfiguration:
        - name: dc.title
          rendering: text
          # label can be omitted
```



What's new since OR2022?

New fresh rendering for attachments that allow a more clean visualization of the bitstream metadata and attributes.

It is possible to hide a bitstream from item details page



Take-aways and Q&A

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DSpace-CRIS provides out-of-box the features that your are looking for a more modern, distributed & secure management of your research information

We, at 4Science, would love to put out expertise at your service on behalf of the entire community.