

DSpace-CRIS: a CRIS enhanced repository platform

Inconecss, Berlin 19th April 2016



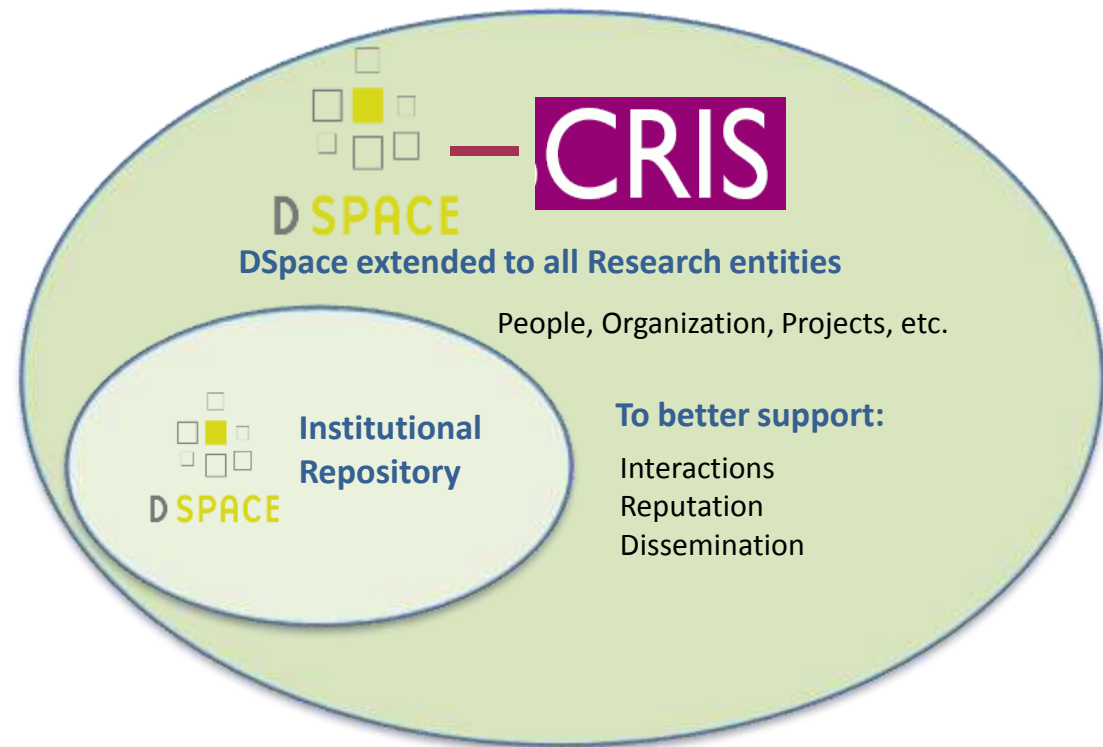
Andrea Bollini ([orcid:0000-0002-9029-1854](https://orcid.org/0000-0002-9029-1854))
Head of Open Source and Open Standards Strategy

Agenda

- The DSpace-CRIS project history
- A rich & customisable data model
- Main features
- ORCID integration
- Next steps

Open source

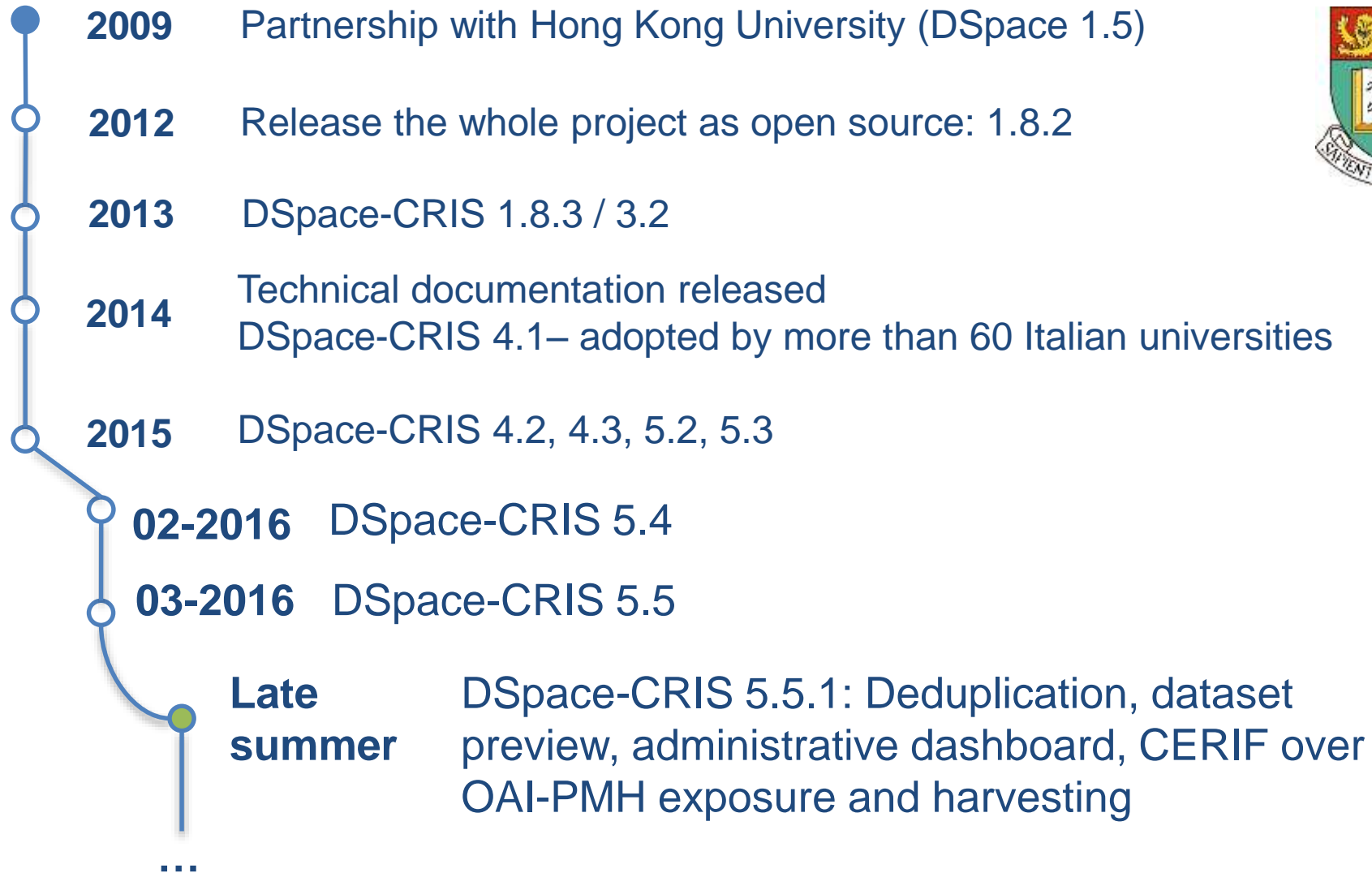
- BSD license (same as DSpace)
- Improved Iteratively (3+ release for year)
- Fall-back at any time to a standard DSpace



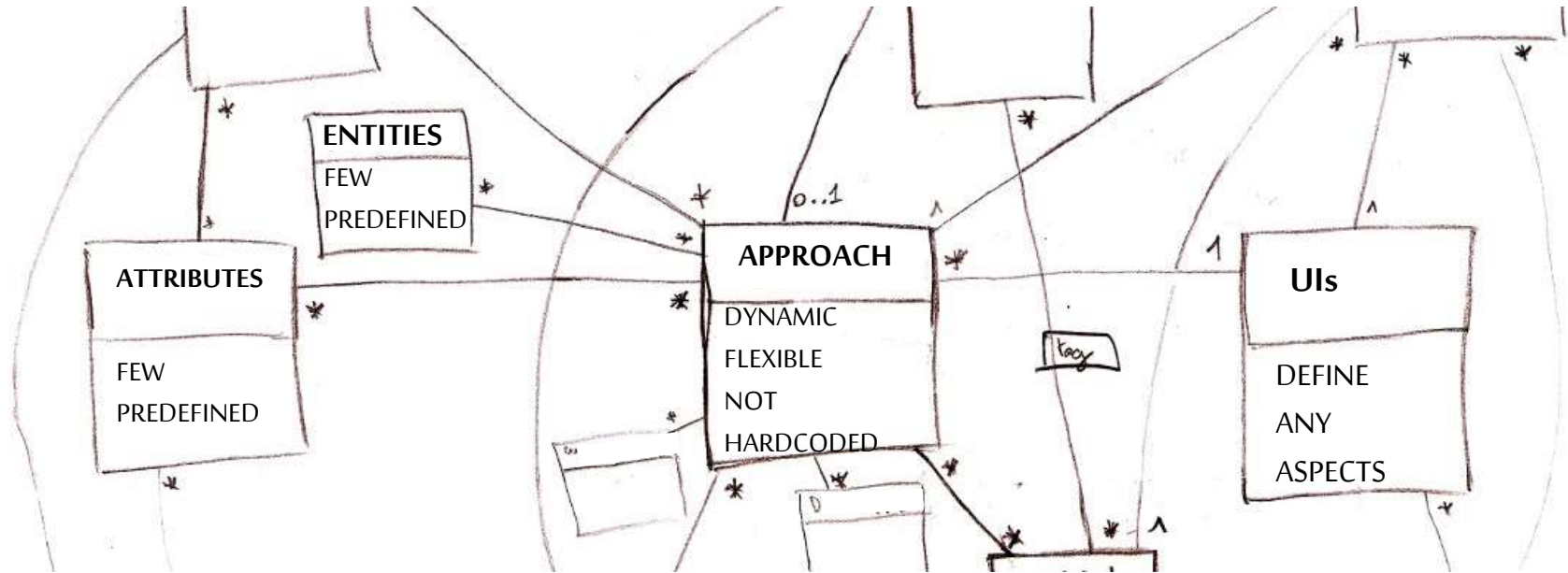
Don't call it a fork!

- Functionalities contributed back to the main code
- Documentation hosted on the Duraspace wiki
- Volunteer support provided through the dspace mailing list

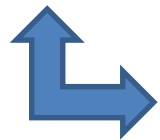
The DSpace-CRIS project history



Data model



Standard DSpace → publications and dataset



DSpace-CRIS → other CERIF entities:

/ Researcher Pages

/ Projects

/ OrgUnits

/ 2nd Level Dynamic Objects

+ Relations

Main DSpace-CRIS Entities

Researcher Pages

- managing people;
- Track author identifiers, name variants, career;
- Synchronized with ORCID;
- Manageable out-of-box by end users

Projects and OrgUnits

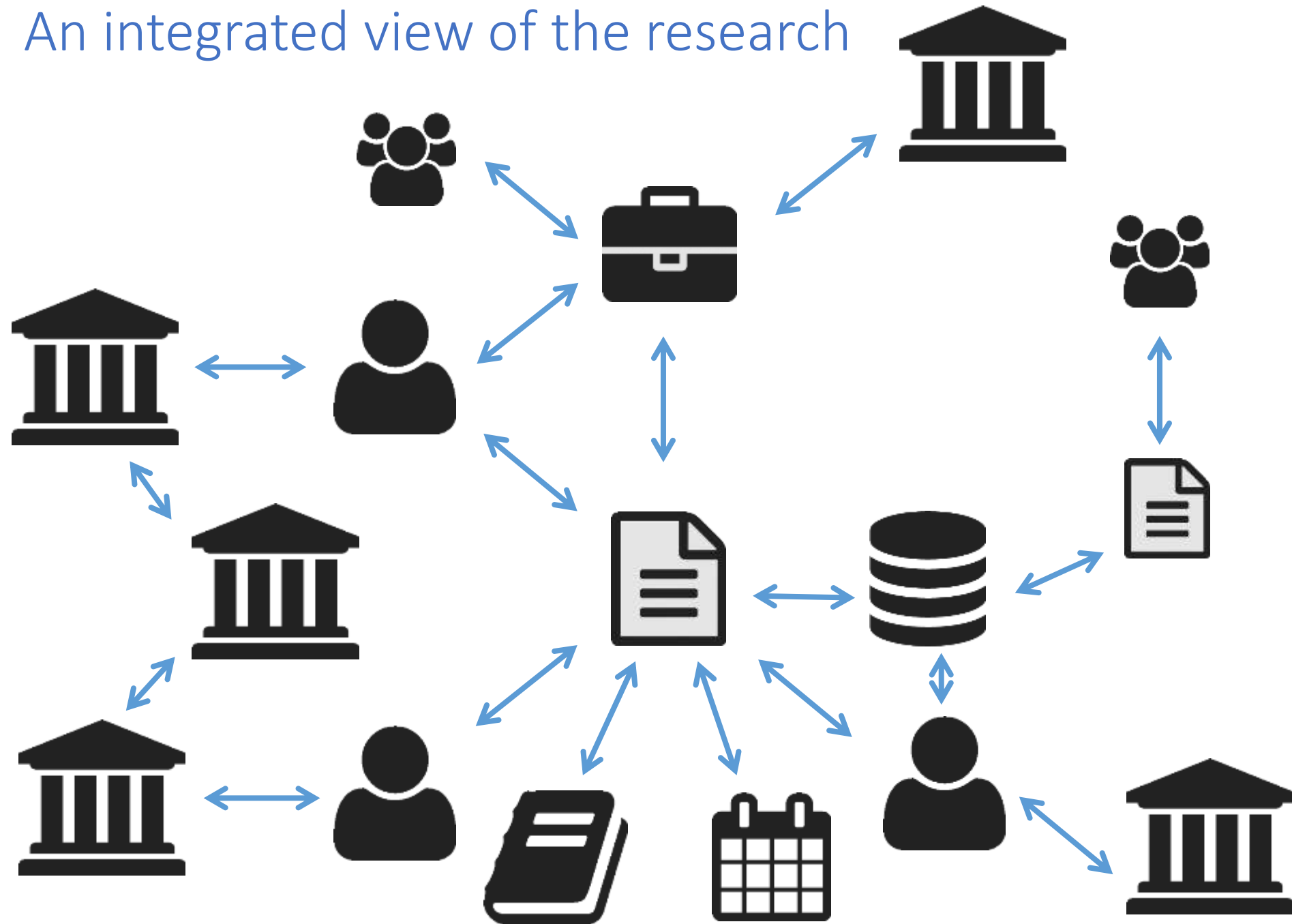
- defined as separated entities;
- Allow future extensions, specializations and build of specific workflows and editing rules

Second level Dynamic Objects

- a single entity specialized by a profile (type) ie Journal, Prize, Event, etc.;
- Every profile has it own set of properties independently defined

Which is the value
proposition?

An integrated view of the research



DSpace CRIS

DSpace-CRIS consists of a data model describing objects of interest to Research and Development and a set of tools to manage the data. Standard DSpace used to deal with publications and data sets, DSpace-CRIS involves other CRIS entities: Researcher Pages, Projects, Organization Units, etcetera; because any profile can define its own set of properties and nested objects.



[Learn More](#)

[DSpace-CRIS 5.5.0 Demo Site](#)

DSpace-CRIS is Live

Welcome to our CRIS research portal!

This is a demo installation of DSpace-CRIS 5.5.0. Many aspects and features can be configured in very different ways.

For more information, please visit the [DSpace-CRIS website](#).

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Torsional behavior of short-staple Torque-Balanced Singles ring spun yarns and spirality of resultant knitted fabrics Yang, Kun

9,344

Type Thesis

Analyses of three-dimensional eddy current field

6,942

The ferric reducing ability of plasma (FRAP) as a measure of 'antioxidant power': the FRAP assay Benzie, IFF; Strain, JJ

5,753

Source Analytical biochemistry, 1996, v. 239, no. 1, p. 70-76

Type Journal/Magazine Article

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An empirical evaluation of several test-a-few strategies for testing particular conditions Chan, EYK; Chan, WK; Poon,

PL  Yu, YT

Source Software - practice and experience, 2012, v. 42, no. 8, p. 967-994

Type Journal/Magazine Article

Keywords test case selection

Abstract pragmatic strategy often adopted in practice, called test-once strategy, is to identify certain particular conditions from the specification and to test each such condition once only. This strategy is implicitly based on the uniformity assumption

Experience with teaching black-box testing in a computer science/software engineering curriculum Chen, TY; Poon,

PL 

Source IEEE transactions on education, 2004, v. 47, no. 1, p. 42-50

Type Journal/Magazine Article

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Item hits:

	Date	Title	Author(s)
1	2012	An empirical evaluation of several test-a-few strategies for testing particular conditions	Chan, EYK; Chan, WK; Poon, PL Yu, YT
2	2004	Experience with teaching black-box testing in a computer science/software engineering curriculum	Chen, TY; Poon, PL
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

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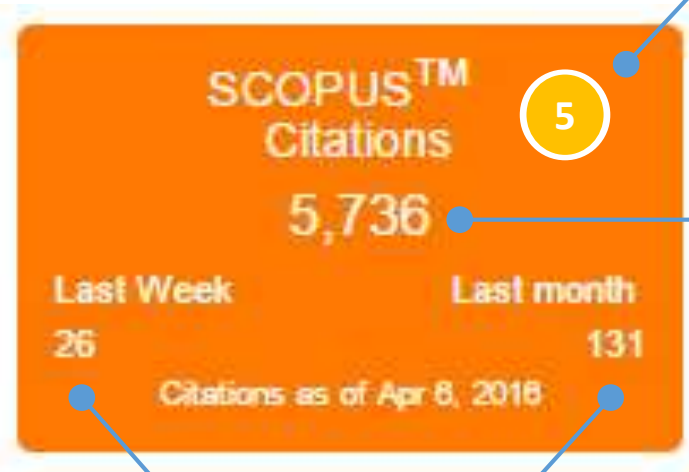
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BENZIE Iris FF

Chair Professor of Biomedical Science

Department of Health Technology and Informatics

Faculty of Health and Social Sciences

Social Contacts

Personal Page

3400 8572

htbenzie@polyu.edu.hk

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Social Contacts

Personal Page

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2	1997	Acute post-ingestion changes in plasma ascorbic acid concentration : relationship to dose and to existing body stores	Benzie, IFF; Strain, JJ
3	2005	Affective images : relieving chronic pain and enhancing quality of life for older persons	Tse, MMY; Pun, SPY; Benzie, IFF
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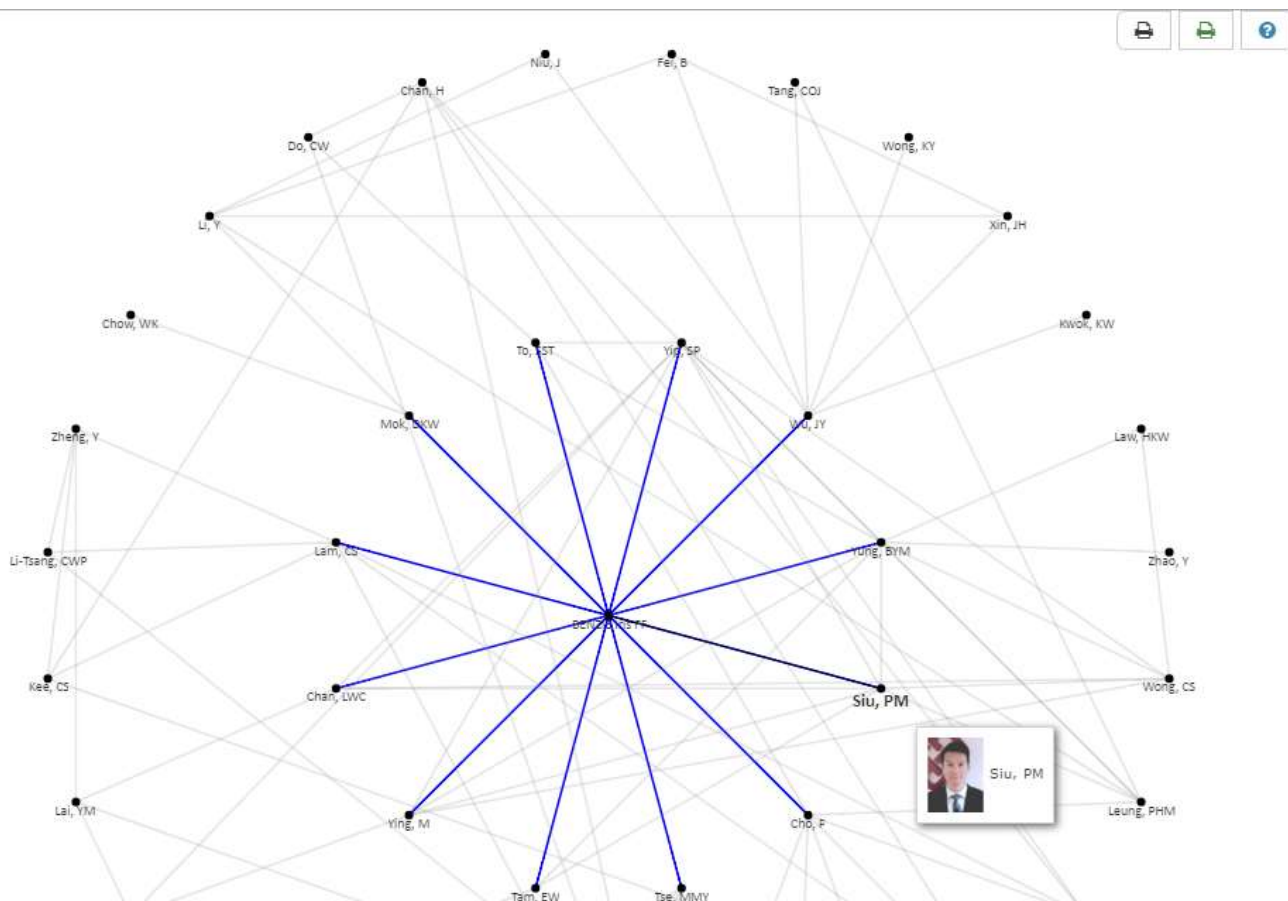
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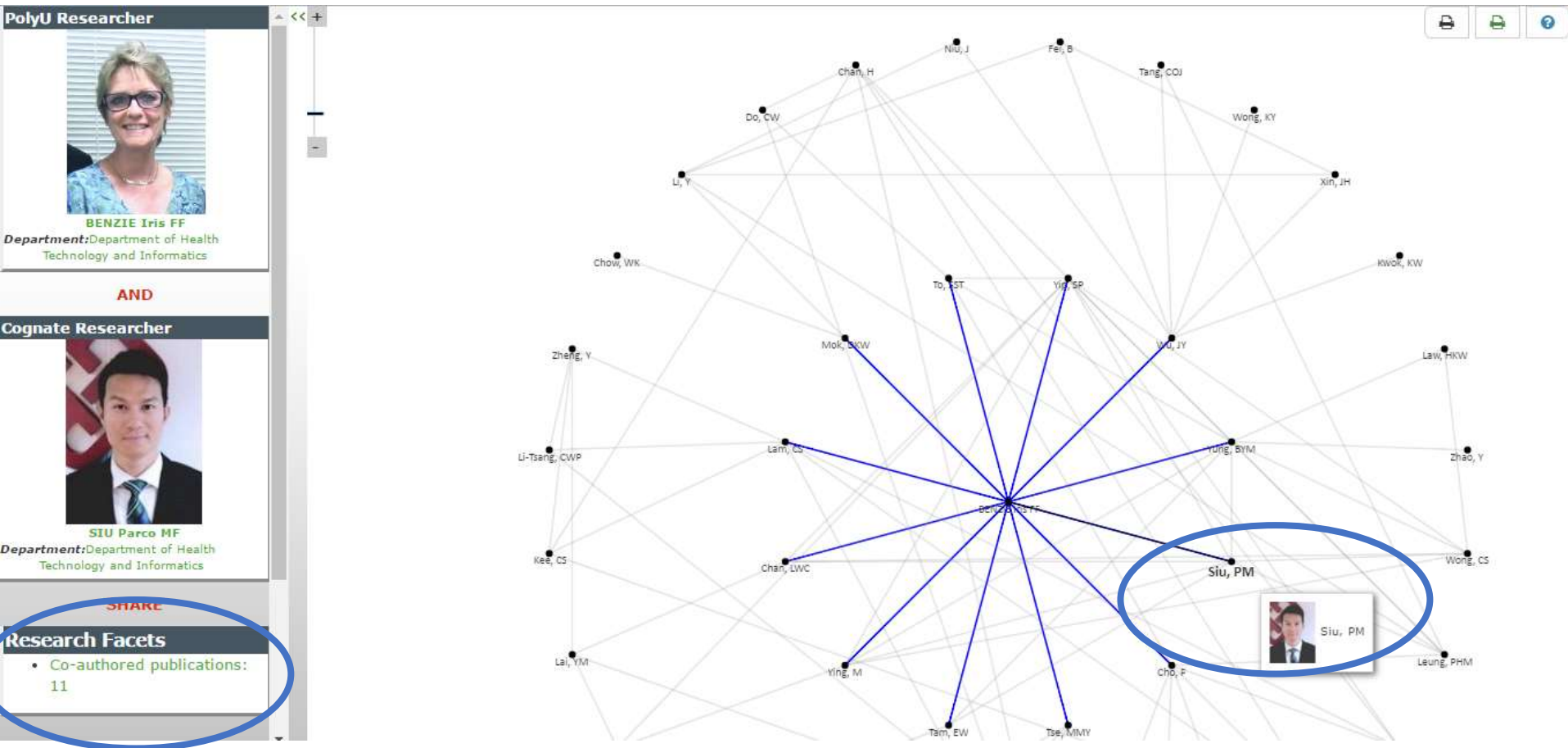
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Social Contacts

[Personal Page](#)

3400 8572

htbenzie@polyu.edu.hk

Research Interests

Antioxidant micronutrients, oxidative stress and chronic disease

Biomarker development and evaluation

DNA damage and repair and influence of lifestyle, dietary antioxidants and herbs

Diet, exercise and promotion of healthy aging

Home

Research Outputs

Researchers

Departments and Schools


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Theses

Help

Department of Health Technology and Informatics

Overview

 Researchers

 Research Outputs

 Bibliometrics: Publications

Overview

Name	Department of Health Technology and Informatics
A department of the	Faculty of Health and Social Sciences
Tel	2400 8578
Fax	2362 4365
Email	hti.dept@polyu.edu.hk
Address	Room Y934, Lee Shau Kee Building
URL	http://www.polyu.edu.hk/hti/index.php/en/





Recent Submissions

Redox-linked effects of green tea on DNA damage and repair, and influence of microsatellite polymorphism in HMOX-1 : results of a human intervention trial *Choi, SW; Yeung, VTF; Collins, AR; Benzie, IFF* 

Source Mutagenesis, 2015, v. 30, no. 1, p. 129-137

Type Journal/Magazine Article

Chitosan/Clotrimazole microcapsules for Tinea Pedis Treatment : in-vitro antifungal and cytotoxicity study

Yip, J  *Yuen, CWM; Kan, CW*  *Cheung, HC; Leung, HMP*  *Cheuk, K*  *Cheng, SY; Liu, LW*

Source Journal of the textile institute, 2015, v. 106, no. 6, p. 641-647

Type Journal/Magazine Article

It is also possible to navigate through hierarchy organizations

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Department of Health Technology and Informatics

 Overview

 **Researchers**

 Research Outputs

 Bibliometrics: Publications

 RSS Feed

Researcher profiles

Results 1-15 of 15 (Search time: 0.0 seconds).


English Name	Chinese Name
BENZIE Iris FF 	
CHAN Lawrence WC 	陳顯志
LAI Christopher WK 	賴偉強
LAI Patrick YM 	黎佑明
LAW Helen KW 	
LEE Shara WY 	
LEUNG Polly HM 	梁杏嫻
SIU Parco MF 	蕭明輝
TO Tony SS 	屠承信
WHITE Peter 	白彼得
WONG Cesar SC 	黃思銓

All the objects (publications, projects, etc.) that are linked to the organization can be automatically included


Department of Health Technology and Informatics

 Overview

 Researchers

 Research Outputs

 **Bibliometrics: Publications**

 RSS Feed

Bibliometrics: Publications (Citations)

Results 1-50 of 447 (Search time: 0.055 seconds).

1 2 3 4 5 6 7 8 9 →

	Title	Scopus	WoS	Pubmed	Views	Downloads
1	The ferric reducing ability of plasma (FRAP) as a measure of 'antioxidant power' : the FRAP assay	5,753	4,977	604	556	0
2	Ferric reducing/antioxidant power assay : direct measure of total antioxidant activity of biological fluids and modified version for simultaneous measurement of total antioxidant power and ascorbic acid concentration	981	967	98	387	0
3	Total antioxidant capacity of teas by the ferric reducing/antioxidant power assay	311	272	19	5	0
4	Antimicrobial effect of surgical masks coated with nanoparticles	215	168		1	0
5	Total antioxidant and ascorbic acid content of fresh fruits and vegetables : implications for dietary planning and food preservation	175	153	14	356	7,639

...including indirect reference (via researchers) and their metrics

Internal usage statistics are available to all levels of hierarchy, including the whole repository

DSpace CRIS

DSpace-CRIS consists of a data model describing objects of interest to Research and Development and a set of tools to manage the data. Standard DSpace used to deal with publications and data sets, whereas DSpace-CRIS involves other CRIS entities: Researcher Pages, Projects, Organization Units and Second Level Dynamic Objects (single entities specialized by a profile, such as Journal, Prize, Event, etcetera; because any profile can define its own set of properties and nested objects)



[Learn More](#)

[DSpace-CRIS 5.5.0 Demo Site](#)

General Statistics

Item View Count

Item Download Count

Deposited Item Count

From:

ever

To:

now

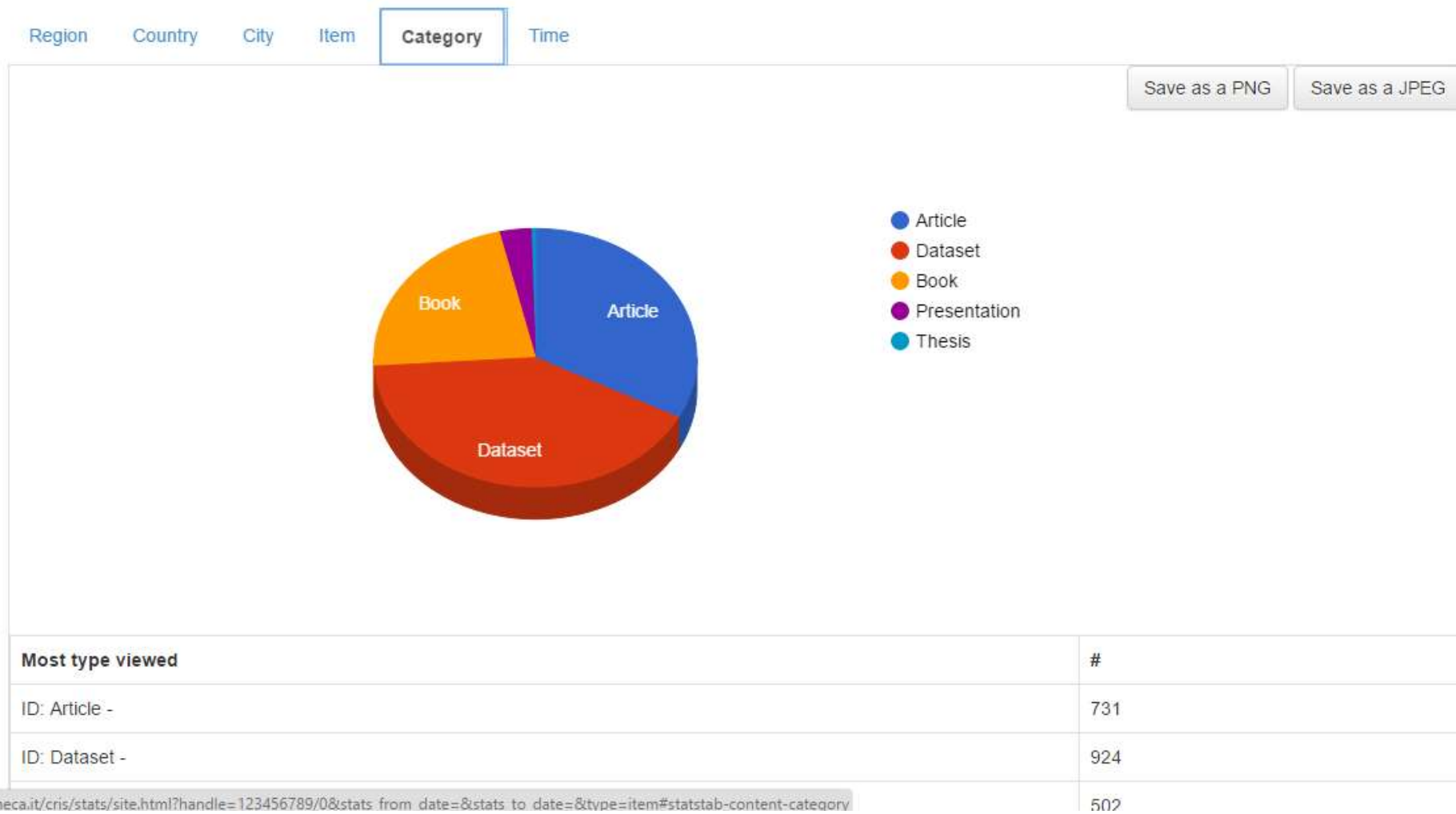
[Change date range](#)

Geo Map

Mappa Satellite



Internal usage statistics are available to all levels of hierarchy, including the whole repository



Internal usage statistics are available to all levels of hierarchy, including the whole repository



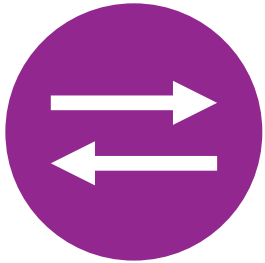
How to collect the data

- Publications & dataset can be self-archived by the researchers or mediated by librarians
 - A quality check can be performed with customizable workflow
- CRIS entities can be:
 - automatically synchronized with external sources using spreadsheet
 - manually created during publication / dataset submission (new record must be confirmed / integrated by the administrator)
 - Rich researcher profiles can be automatically imported from the ORCID registry
 - Managed via UI by administrators

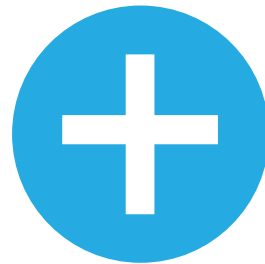
ORCID Integration



Connect local profile with the ORCID registry



Transfer information from the repository to the ORCID Registry and viceversa



Create new record - facilitate the creation of new ORCID records for researchers



Login via ORCID iD

ORCID Integration

- Login and claim your profile using ORCID
- Use the ORCID registry as authority for people extending the local directory
- Initialize profiles with data from the ORCID registry
- Create ORCID profiles for researcher with opt-in (require member api)
- Push local information about biography, publications, projects to ORCID (require member api)

New user? [Click here to register.](#)

Please enter your e-mail address and password into the form below.

E-mail Address:

Password:

[Have you forgotten your password?](#)

[Log In](#)

Use your ORCID or create a new one

ORCID provides a persistent digital identifier that distinguishes you from every other researcher and, through integration in key research workflows such as manuscript and grant submission, supports automated linkages between you and your professional activities ensuring that your work is recognized.

Click on the ORCID logo to sign in with your existent record or create a new one.

ORCID Login



Communities & Collections Research Outputs Researchers Administrators Projects Help

DSpace CRIS

DSpace-CRIS consists of a data model and a set of tools to manage the data. Since DSpace-CRIS involves other CRIS Level Dynamic Objects (single entities) because any profile can define its own metadata.

[Learn More](#)

DSpace-CRIS Demo Site

Pascarelli, Luigi A

Profile Other

Profile

Full Name Pascarelli, Luigi Andrea Main Affiliation test

Claim Researcher Page

Check the encrypted string of this email, put the correct string in the box below and click "go" to validate the email and claim this profile.

Emails: l.pascarelli@uniba.it

[go](#)

Login via ORCID to claim this profile:

ORCID Login

[Close](#)

Personal Alert RSS Feed [Claim profile](#)

ORCID Synchronization settings

Publications Preferences

Send all publications

Projects Preferences

Disabled

Profile Preferences

biography

credit-name

primary-email

name

iso-3166-country

keywords

other-emails

other names

ORCID Registry Queue

The batch system in the next run will send the follow data to the Orcid Registry

Put request for "researcher"

Show 10 entries

Search:

	Name	
	This is a test case for ORCID claim	Send
	test	Send

Showing 1 to 2 of 2 entries

Previous Next

Preferred
name

Show archived

ORCID ID

sandbox.orcid.org/0000-0002-9421-192X

View public version

From	Subject	Date	
▼ DSpace-CRIS Demo WebSite	Your ORCID Record was amended	2016-02-19	<input type="checkbox"/>

DSpace-CRIS Demo WebSite has updated items in the Work section of your record.

Preferred
name

ORCID ID

sandbox.orcid.org/0000-0002-9421-192X

View public version

Get a QR Code for your iD ?

Also known as
DSpace-CRIS, Researcher

Country

Keywords

Websites

Emails

researcher.dspacecris@mailinator.com

Biography



▼ Education (0)

+ Add education

⇅ Sort

You haven't added any education, [add some now](#)

▼ Employment (0)

+ Add employment

⇅ Sort

You haven't added any employment, [add some now](#)

▼ Funding (0)

+ Add funding

⇅ Sort

You haven't added any funding, [add some now](#)

▼ Works (1)

+ Add works

⇅ Sort

Test Article for ORCID



Sample journal

2015-01-01 | other

SOURCE-WORK-ID: 65

URL: <http://demo-dspace-cris.cineca.it/handle/123456789/41>

Source: DSpace-CRIS Demo WebSite

Preferred source



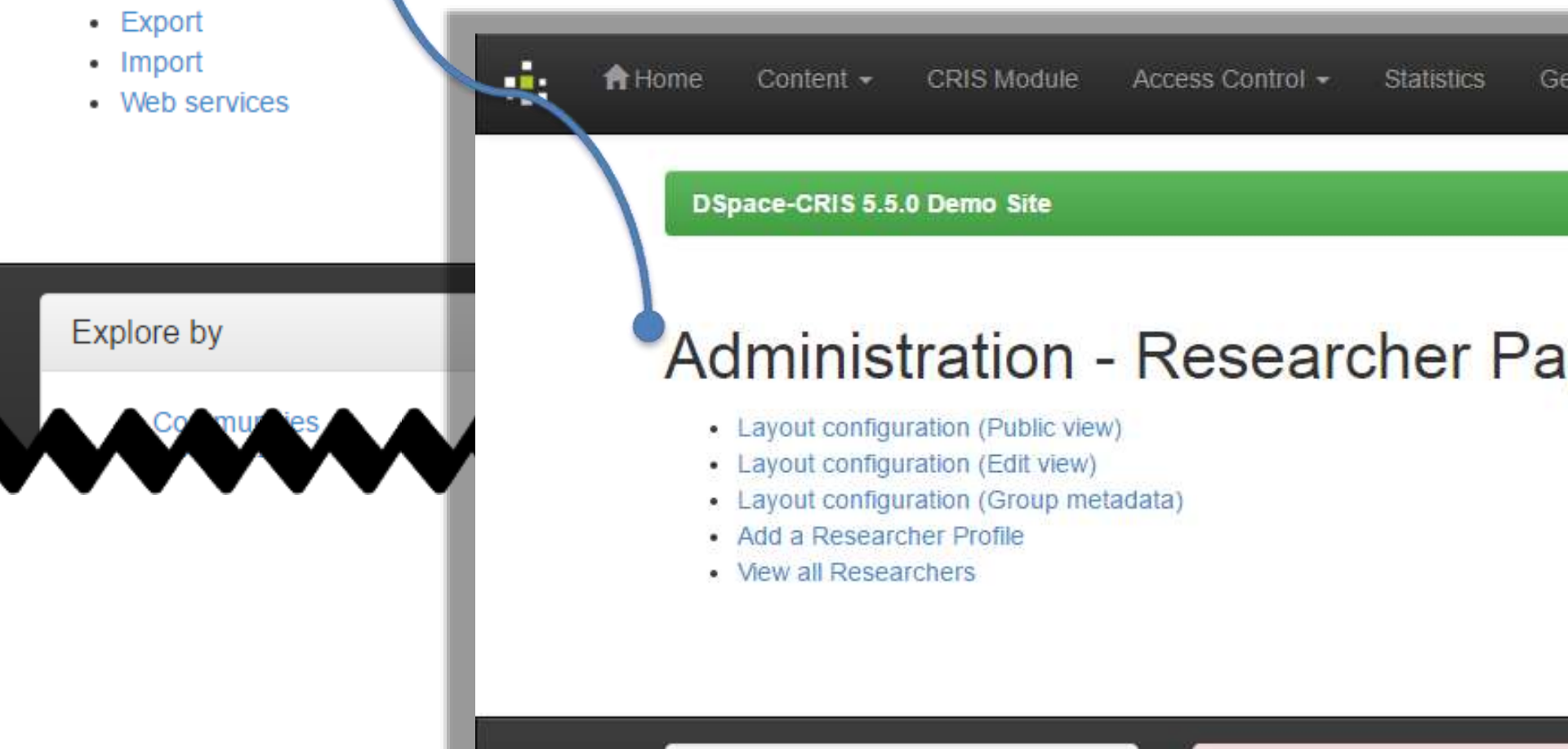
What's next?

- Deduplication tools: warn about potential duplicate during submission and administrative dashboard to compare & merge
- CERIF over OAI-PMH:
 - Exposure: compliance with the OpenAIRE guidelines for CRIS system
 - Harvesting of rich data using CERIF over OAI-PMH to create regional, national or disciplinary portal
- More tools for dataset: quota management, data streaming, preview and manipulation tools

The data model configuration
doesn't require coding!

Research Information System Administration

- Researcher Pages
- Projects
- Organization Units
- Manage others CRIS entities
- Export
- Import
- Web services



DSpace-CRIS 5.5.0 Demo Site

Administration - Researcher Pages

- Layout configuration (Public view)
- Layout configuration (Edit view)
- Layout configuration (Group metadata)
- Add a Researcher Profile
- View all Researchers

Research Informa

- Researcher Pages
- Projects
- Organization Units
- Manage others CRIS entities
- Export
- Import
- Web services

Manage research entity types

- Add Research entity

Defined types

Internal ID	Shortname	Label
2	journals	journals
3	events	events



Administration

- Layout configuration (Public view)
- Layout configuration (Edit view)
- Layout configuration (Group metadata)
- Add JOURNALS
- View all JOURNALS

DSpace-CRIS 5.5.0 Demo Site

Edit Box ?

A unique name for this box

Short name ?

The label of the box

Title ?

JSP custom name

External rendering ?

Fields availables

- Description [journalsdescription][Priority:0] ✓
- ISSN [journalsissn][Priority:800] ✓
- Subject Classifications [journalskeywords][Priority:850] ✓
- Name Journal [journalsname][Priority:900] ✓
- [journalspicture][Priority:1000] ✓

×

- Create a date field
- Create a text field
- Create a complex field
- Create a link field
- Create a file field
- Add a Researcher Profile reference field
- Add a Project reference field
- Add an Organization Unit reference field
- Add generic research entities reference field
- Create a boolean field
- Create a check/radio/dropdown field
- Create a classification tree widget

Data model configuration

- It can be performed via UI and exported to xls
- It can be imported from XLS files

	A	B	C	D	E	F	G	H	I	J
1	TARGET	SHORT	LABEL	RIPETIBILE	PRIORITY	HELP	ACCES	MANDA	WIDGE	POINTE
2	rp	fullName	Full Name	n	900		HIGH_ACC	y	text	n
3	rp	preferredN	Credit Name	n	950		HIGH_ACC	n	text	n
4	rp	translatedN	Vernacular Name	n	800		HIGH_ACC	n	text	n
5	rp	variants	Variants	y	750		HIGH_ACC	n	text	n
6	rp	email	Email	n	590		HIGH_ACC	n	text	n
7	rp	personalsit	Personal Site	n	600		HIGH_ACC	n	link	n
8	rp	dept	Main Affiliation	n	700		HIGH_ACC	n	pointer	ou
9	rp	personalpic		n	1000		HIGH_ACC	n	image	n
10	rp	workgroup	Working groups	y	650		HIGH_ACC	n	pointer	ou
11	rp	interests	Interests	y	50		HIGH_ACC	n	text	n
12	rp	system-orc	ORCID authorization	n	0		LOW_ACC	n	text	n
13	rp	system-orc	ORCID authorization	n	0		LOW_ACC	n	text	n
14	rp	system-orc	ORCID authorization	n	0		LOW_ACC	n	text	n
15	rp	system-orc	ORCID authorization	n	0		LOW_ACC	n	text	n
16	rp	system-orc	ORCID authorization	n	0		LOW_ACC	n	text	n
17	rp	system-orc	ORCID authorization	n	0		LOW_ACC	n	text	n
18	rp	system-orc	ORCID authorization	n	0		LOW_ACC	n	text	n
19	rp	orcid-public		n	0		LOW_ACC	n	radio	n
20	rp	orcid-private		n	0		LOW_ACC	n	radio	n

Tabs

Preferred, name

Network Lab View Statistics Email Alert RSS Feed

Profile

Other

Profile



ORCID

0000-0002-9421-092X

Biography

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum

Credit Name

Preferred, name

Full Name

DSpace-CRIS, Researcher

Vernacular Name

Some Additional, names

Boxes

Fields

Publications (Selected Publications)▼

Show/Hide filters ▼

Results 1-5 of 5 (Search time: 0.001 seconds).

Issue Date

◆ Title

▲ Author(s)

1 2001

Sample Book

DSpace-CRIS, Researcher



Thanks for your attention!

<https://wiki.duraspace.org/display/DSPACECRIS>



Andrea Bollini ([orcid:0000-0002-9029-1854](https://orcid.org/0000-0002-9029-1854))
Head of Open Source and Open Standards Strategy
[a.bollini@Cineca.it](mailto:a.bollini@ Cineca.it)

<http://www.slideshare.net/AndreaBollini2>