

PTCRIS

Connected Research

PTCRIS status report

João Mendes Moreira

FCT Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA EDUCAÇÃO E CIÊNCIA



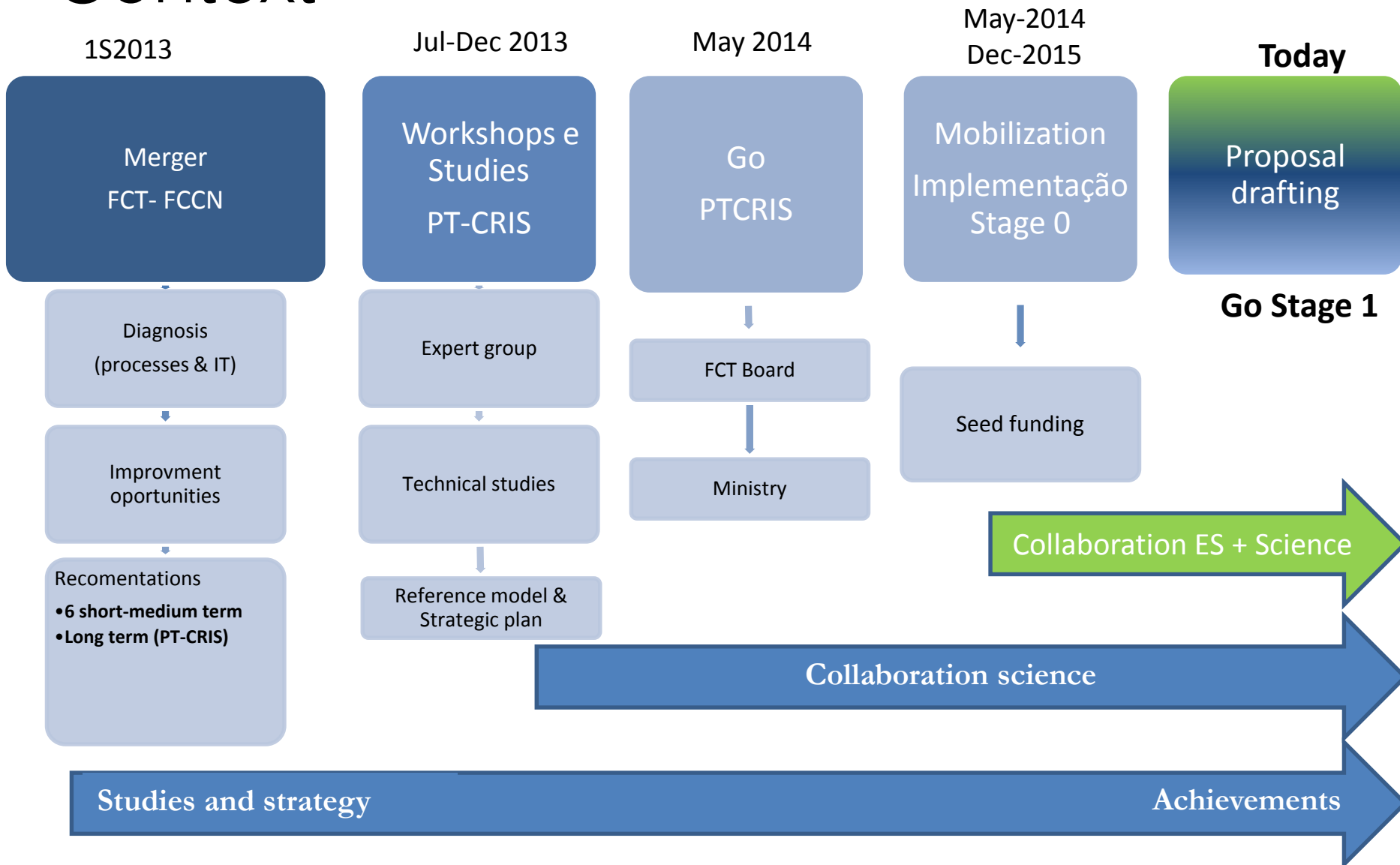
GOVERNO DE
PORTUGAL

MINISTÉRIO DA EDUCAÇÃO
E CIÊNCIA

Outline

- PTCRIS context and status
- Next steps
- Use case – Delivering a Funder OA Policy

Context



Mission



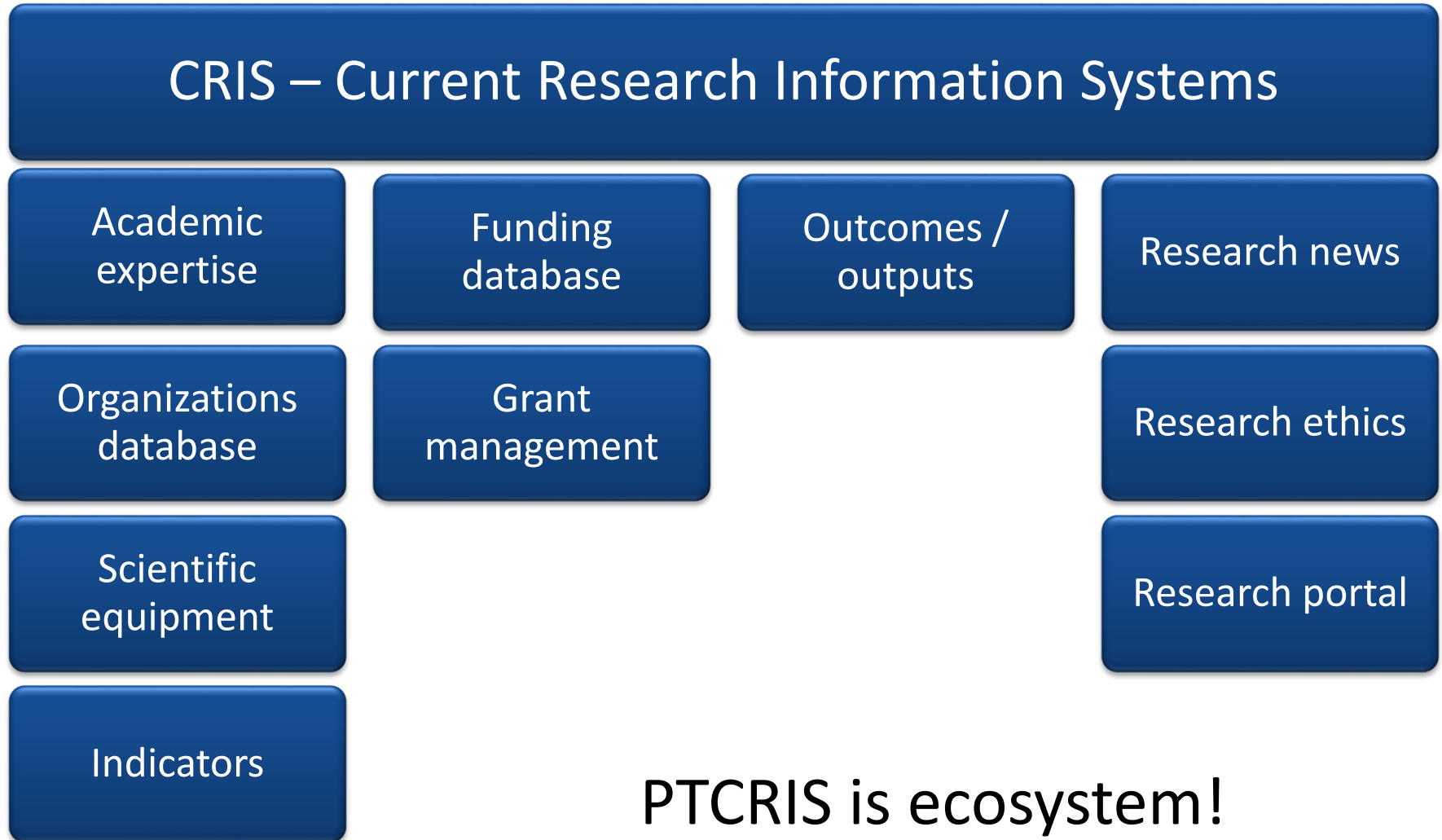
Connected Research

Ensure the **creation** and **sustained** development of national integrated information ecosystem ([PTCRIS](#)) to support research management






Goals

1. Define **the regulatory framework** to adopt by the various systems
2. **Coordinate** FCT's systems integration in accordance with the standards framework
3. **Coordinate external systems** integration with FCT (National and International) according to the standards framework
4. **Support** and **promote** within **community** the use of the systems of the PT-CRIS.

The ecosystem



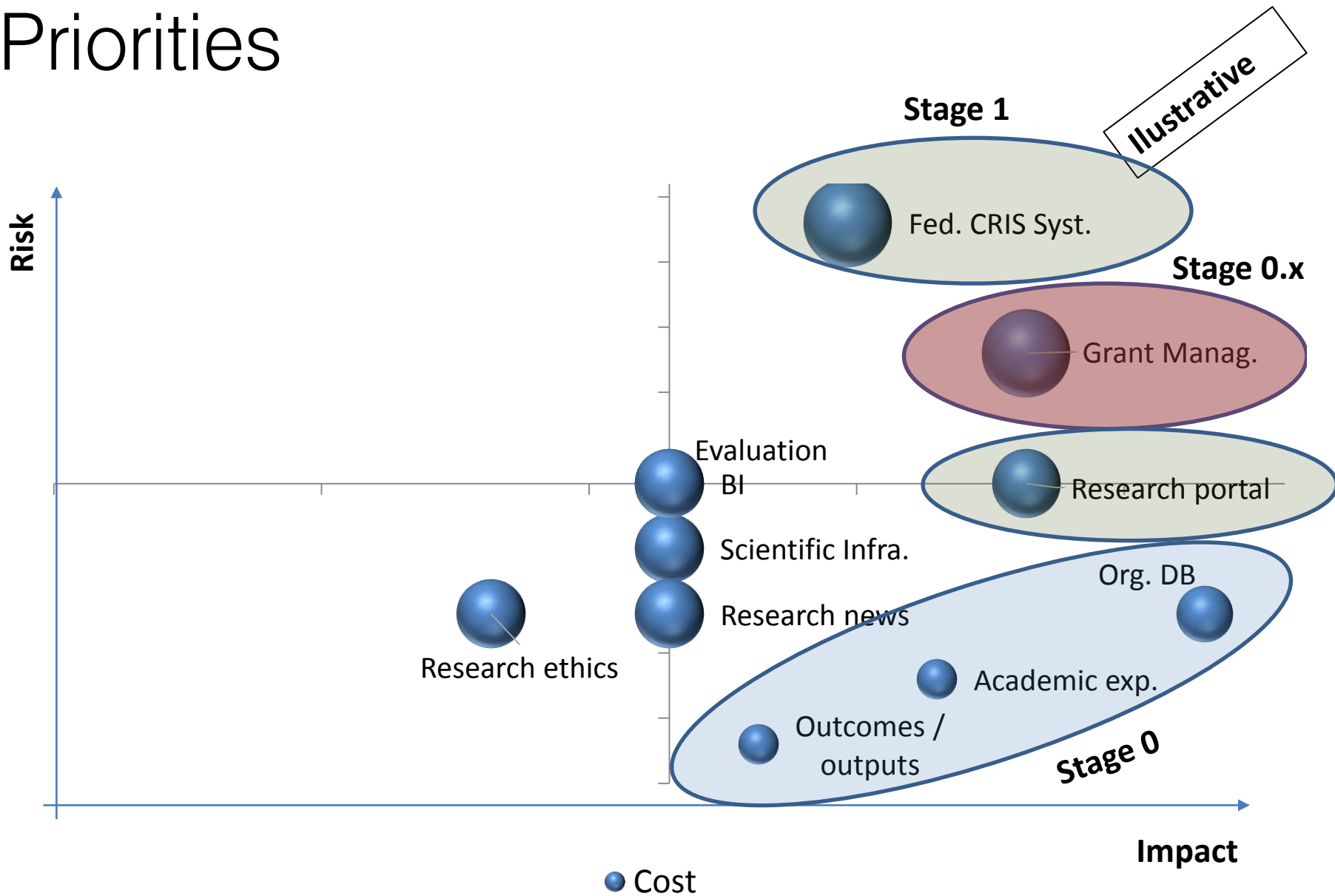
Standards

PTCRIS	
 euroCRIS Current Research Information Systems	Data model
 casrai Connecting Research	Dictionary / Interop.
 VIVO Enabling National Networking of Scientists	Ontologies
 ORCID	Researcher Id
 isni	Org Id

Aligned:

- H2020
- Digital ERA fórum
- RDA

Priorities



Roadmap stage 0

- #1 – Data synchronization (input once, reuse multiple principle!)
- #2 – Develop a new **National CV system** (ergonomic, usable, interoperable)
- #3 – Identifiers (Researchers/ Contributors and Organizations)
- #4 – Create a point of truth database for PTCRIS




Overview

Start Date phase 1 :

May/14

End date Phase 1 :

Dec/15

-  On time
-  Delayed (recoverable)
-  Delayed (not recoverable)

General state of the project



WP1 – Interoperability



WP2 – Academic CV



WP3 – Organizations

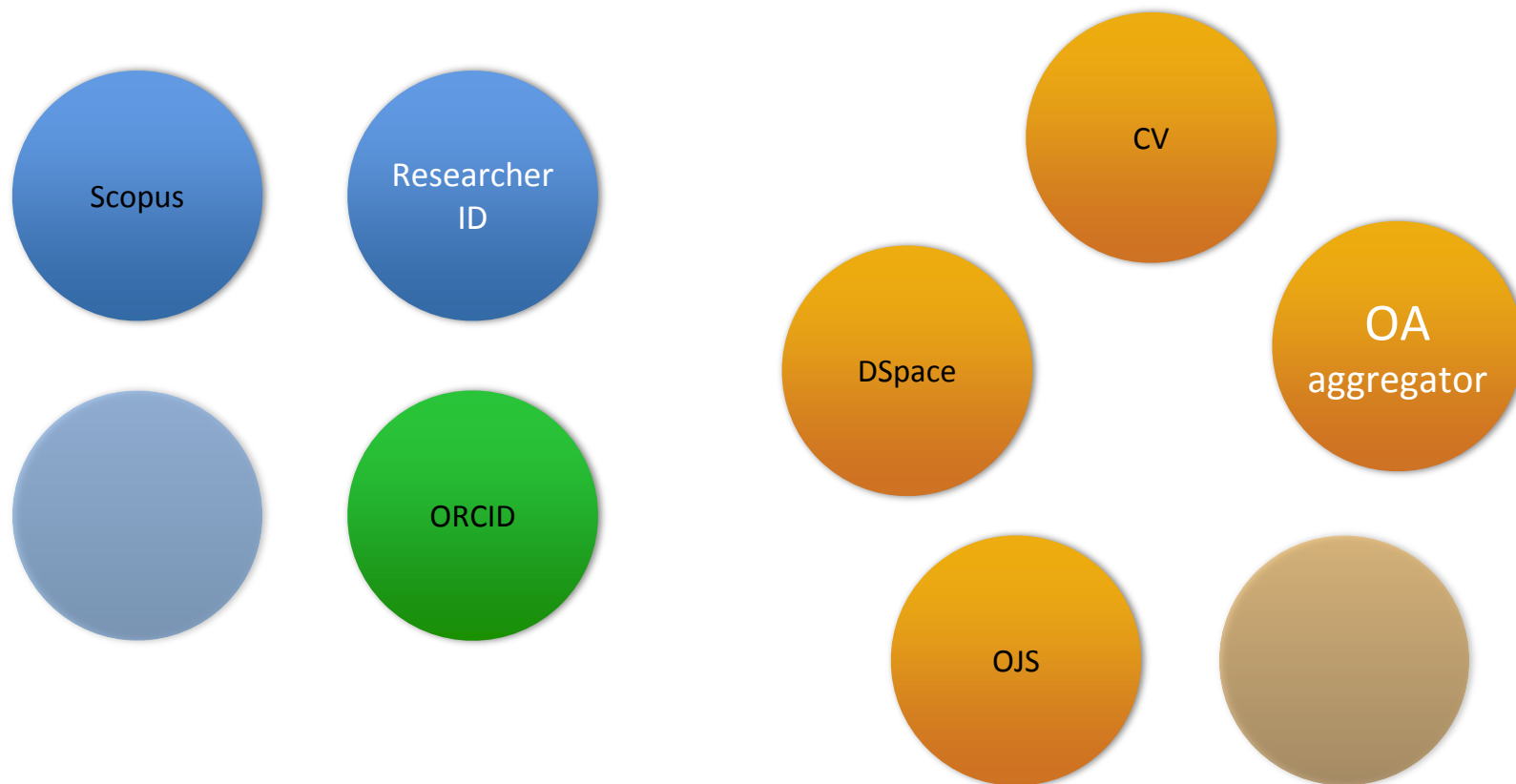


WP4 – BD "single point of true"*

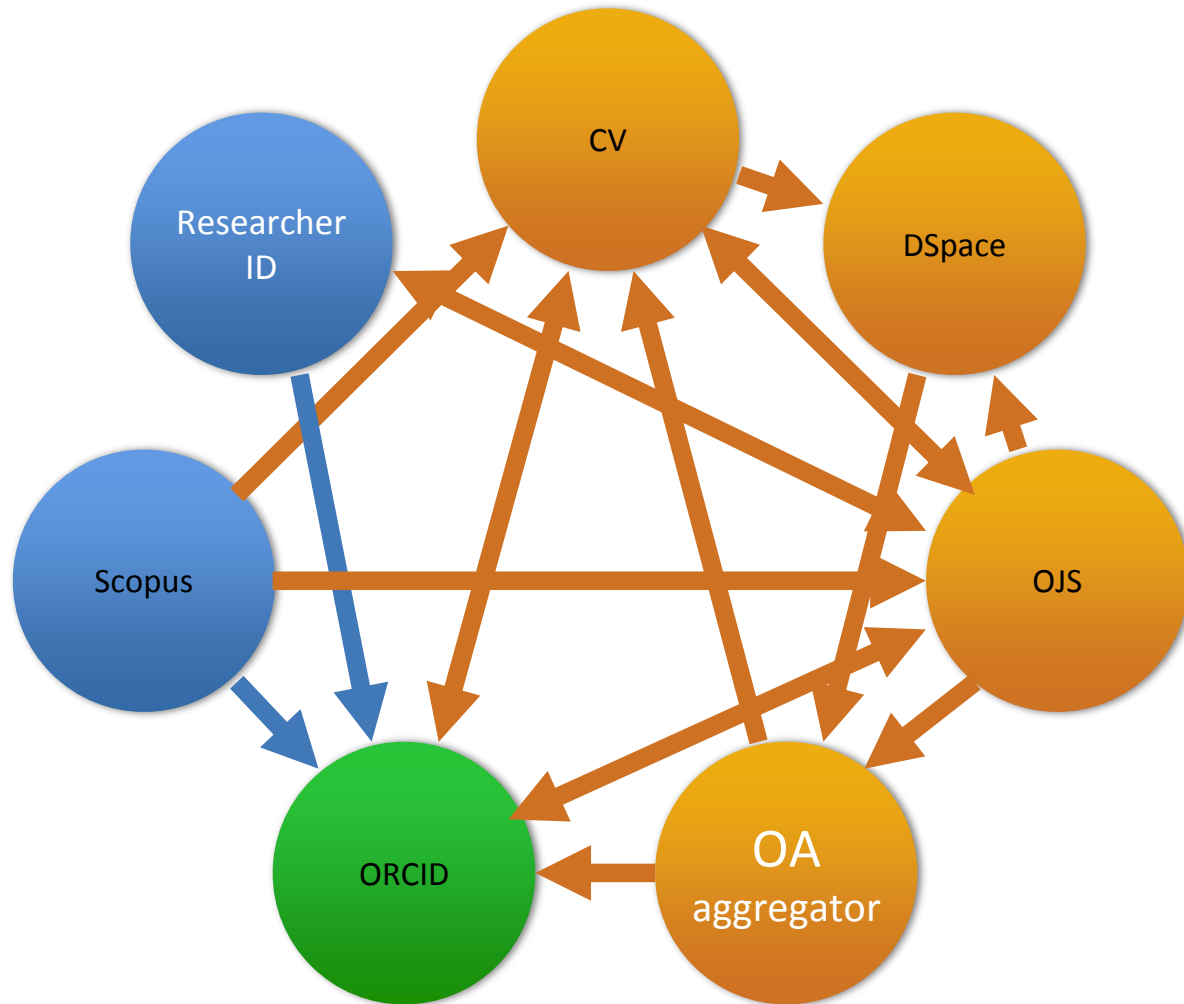


* Pilot

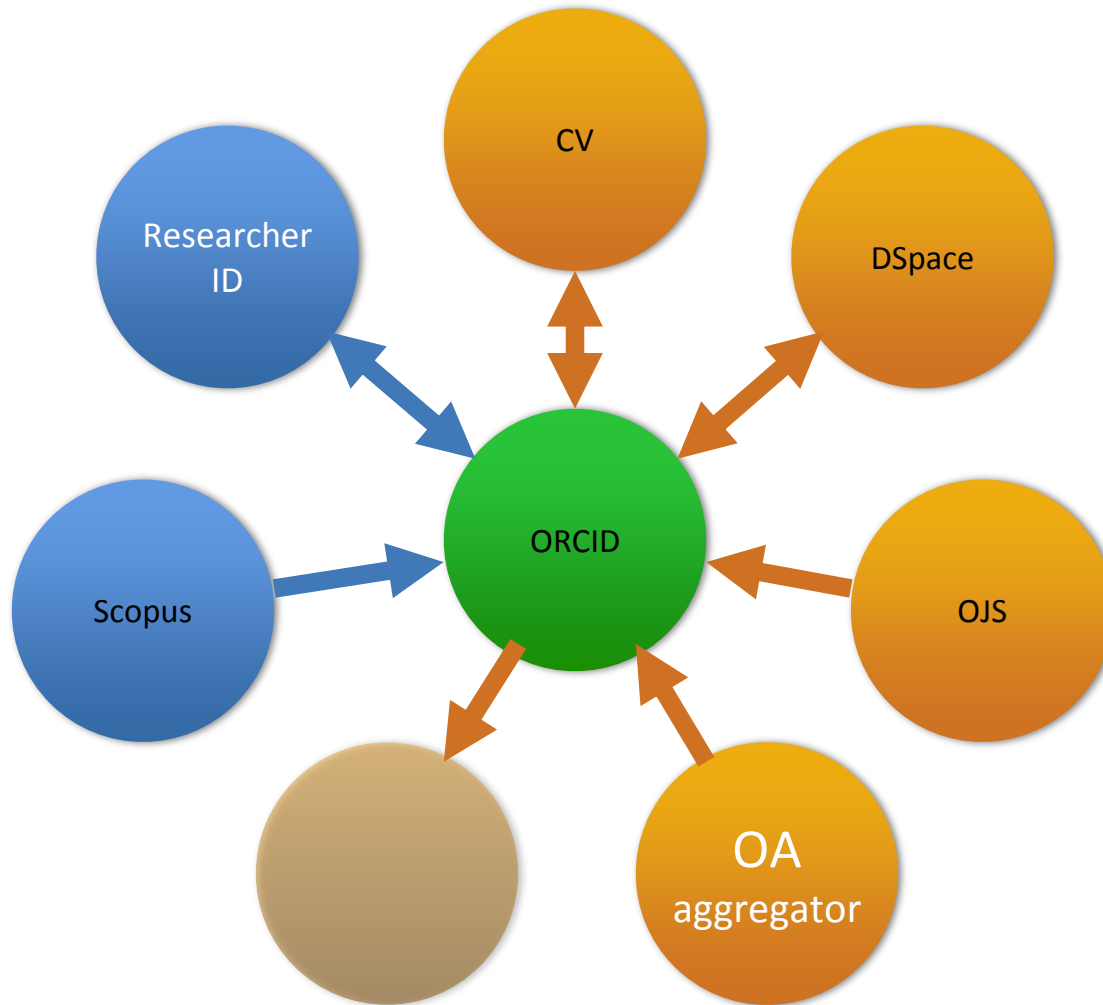
#1 – PTCRIS in context



#1 – A non solution



#1 – Our solution



#1 Current situation

- **Certified** implementation of the **synchronization** protocol at the **CV management system** and **OA aggregator** expected to go live soon (already demoed in Feb 2015)
- Implementations at two **local CRIS** will follow (pilot)
- Working with **CINECA** on a new version of the protocol to be implemented in **DSpaceCRIS**

#1 More information

- *An ORCID based synchronization framework for a national CRIS ecosystem*: paper describing the design methodology, presented at the 2015 ORCID CASRAI joint conference

<http://f1000research.com/articles/4-181/v1>

- *PTCRISync v0.4*: current specification of the synchronization protocol for ORCID API 2.0

<http://ptcris.pt/en/hub-ptcris-en/>

#2 CV's Platform in context

- Two national CV's platforms
- Both are difficult to use
- Low or inexistent integration with other systems
 - Research units affiliation
 - National Professors database
 - Projects database
 - National theses and dissertations database
 - etc.
- Not delivering the input once, reuse multiple principle
- Not align with international standards

#2 Our solution

Production 1Q2016

- Usable and ergonomic
- Interoperable with other national systems (for auto population purposes)
- PTCRISync compliant
- Interoperable with repositories network

- CASRAI Compliant
- CERIF–XML Compliant (2Q2016)
- AAI enabled (Authentication and authorization Infrastructure)

#3 – Identifiers

Provide databases authoritative in **organizations** and **Researchers**

**Researchers, teachers,
students, staff**



Organizations



#3 Identifiers – ORCID

- ORCID is mandatory for researchers wanting to apply for FCT funding
- Around 22.000 researchers have their ORCID registered at FCT|SIG (+63% since last national REF)
- Several other systems can also register the ORCID (for example, around 6000 users have their ORCID registered at the CV management system)

#3 Identifiers – Org Ids – Context

- <http://repository.jisc.ac.uk/5853/1/Review-of-orgIDs-usecases-clax.pdf>



Review of selected organisational IDs and development of use cases for the Jisc CASRAI-UK Organisational Identifiers Working Group

Nicky Ferguson with Richard Moore and Seb Schmoller

reporting to Christopher Brown

on behalf of the

Jisc CASRAI-UK working group on Organisational IDs

Authors:

Nicky Ferguson

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Richard Moore

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Seb Schmoller

<http://orcid.org/0000-0001-8805-2785>

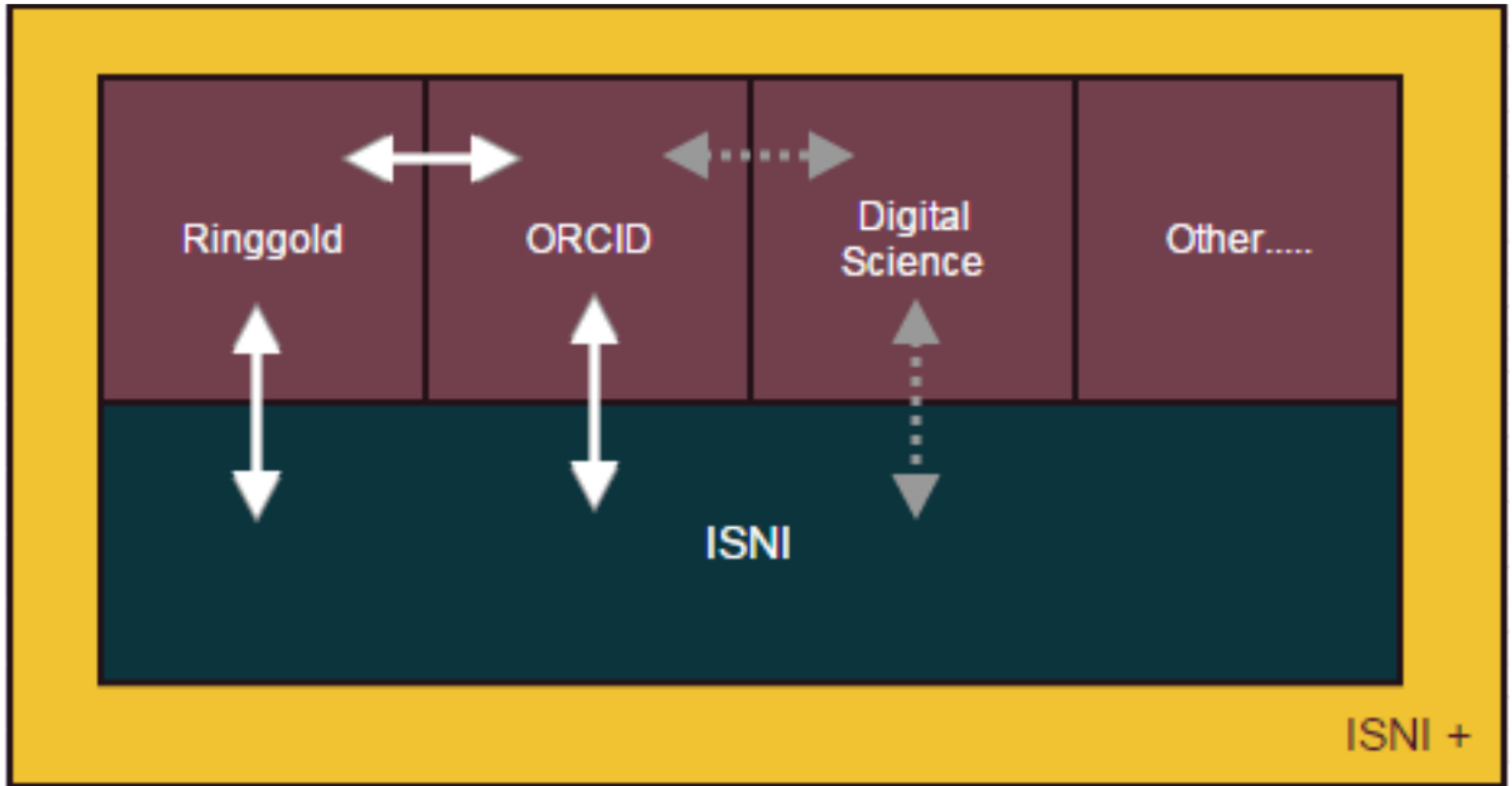
Contact: [nicky \[AT\] clax.co.uk](mailto:nicky@clax.co.uk)

text/sms: (+44)-(0)7770-262886

www.clax.co.uk

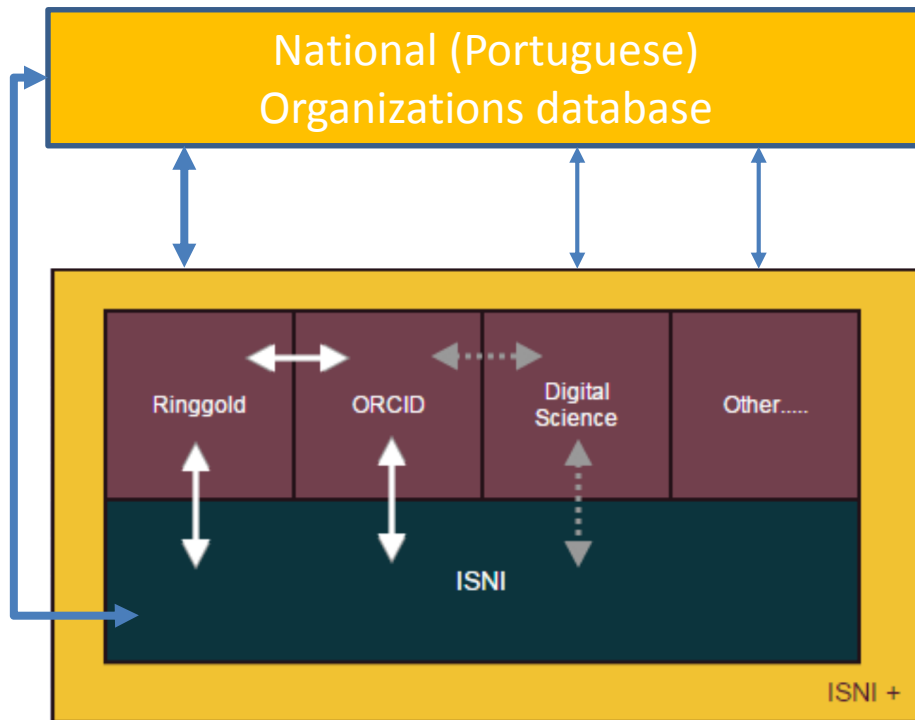
December 2014 minor amendments of some URLs February 2015

#3 Identifiers – Org Ids – Context



#3 Identifiers – Org Ids – Work

Architecture



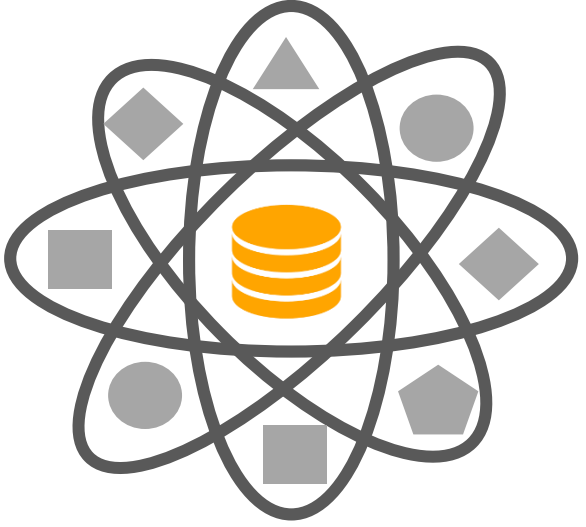
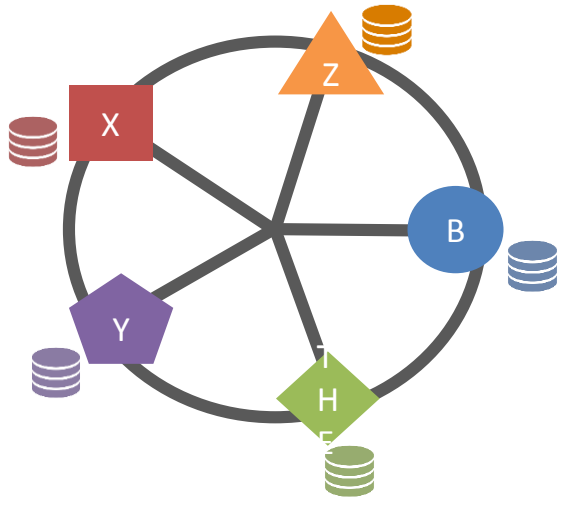
Work plan

- State of the art study
- Rules, principles and processes for handling registry
- Constitution of a BD for Portuguese organizations
- Electronic services
 - Portuguese Registry
 - Reconciliation
 - Portuguese registry synced with other providers

AIMs for local and national CRIS:

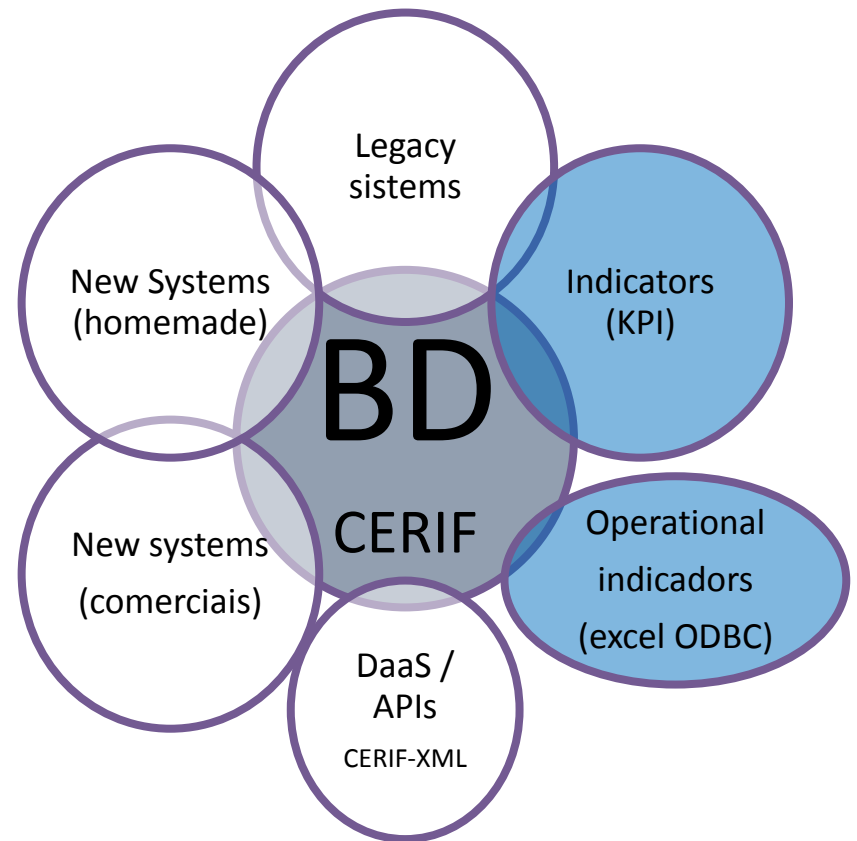
- 1) ISNI and Ringgolds Ids (after retrospective reconciliation)
- 2) API for Org Ids authority control (replica of Ringgold DB)

#4 – Challenge



#4 – truth database PT-CRIS

Database "point of truth"



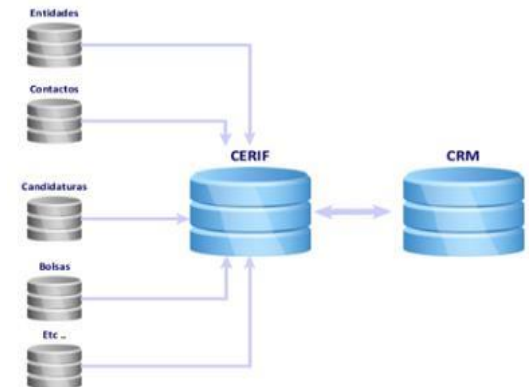
#4 – Pilot project

Migration to CERIF

- Entities
- People
- Contracts Program
- Working contracts
- Scholarships

Data sources

- BD Fellowships
- Scientific Employment BD
- BD Evaluations
- Application BD Investigator IF



EKT CERIF DB & API 0.9

#4 – Work in progress

- Ⓢ Safety testing
- Ⓢ Load tests
- Ⓢ Access control
- Ⓢ Extension to projects (DPP)
- Ⓢ Curated data

#4 – Pre-production

☉ The date the Service (DaaS)

☉ People

☉ <https://api.ptcris.pt:8443/cerifapi/persons/320032>

☉ Organizations

☉ <https://api.ptcris.pt:8443/cerifapi/orgunits/8287>

☉ Projects

☉ <https://api.ptcris.pt:8443/cerifapi/projects/197341>

☉ Funding

☉ <https://api.ptcris.pt:8443/cerifapi/fundings/1574>

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Work organization

WP 1

- Coordination

WP 2

- Regulator framework (RF)

WP 3

- National CRIS (RF compliance)

WP 4

- National CRIS(new)

WP 5

- Local CRIS (local)

WP 6

- Truth database (data warehouse)

WP 7

- Business Intelligence

WP 8

- Communication, dissemination and training

Work organization

WP2 - Regulatory framework

Research
Indicators

HEI Indicators

Data
interoperability
formats

Interoperability
pub admin

Unique identifiers

Data
synchronization

Information
security and
privacy

Conformance and
interoperability
testing

WP3 National CRIS (RF Compliance)

IS Funders

IS DG HEI

SI
Accreditation
Agency

IS Stats Bureau

IS DG Plan and
control

WP4 New national CRIS

Research
Network
System

Org Ids
registry

WP5 Local CRIS

Academic
System

CRIS
• DSpaceCRIS
• IRIS?

WP6 Truth database

CERIF BD

Aggregation

Validation

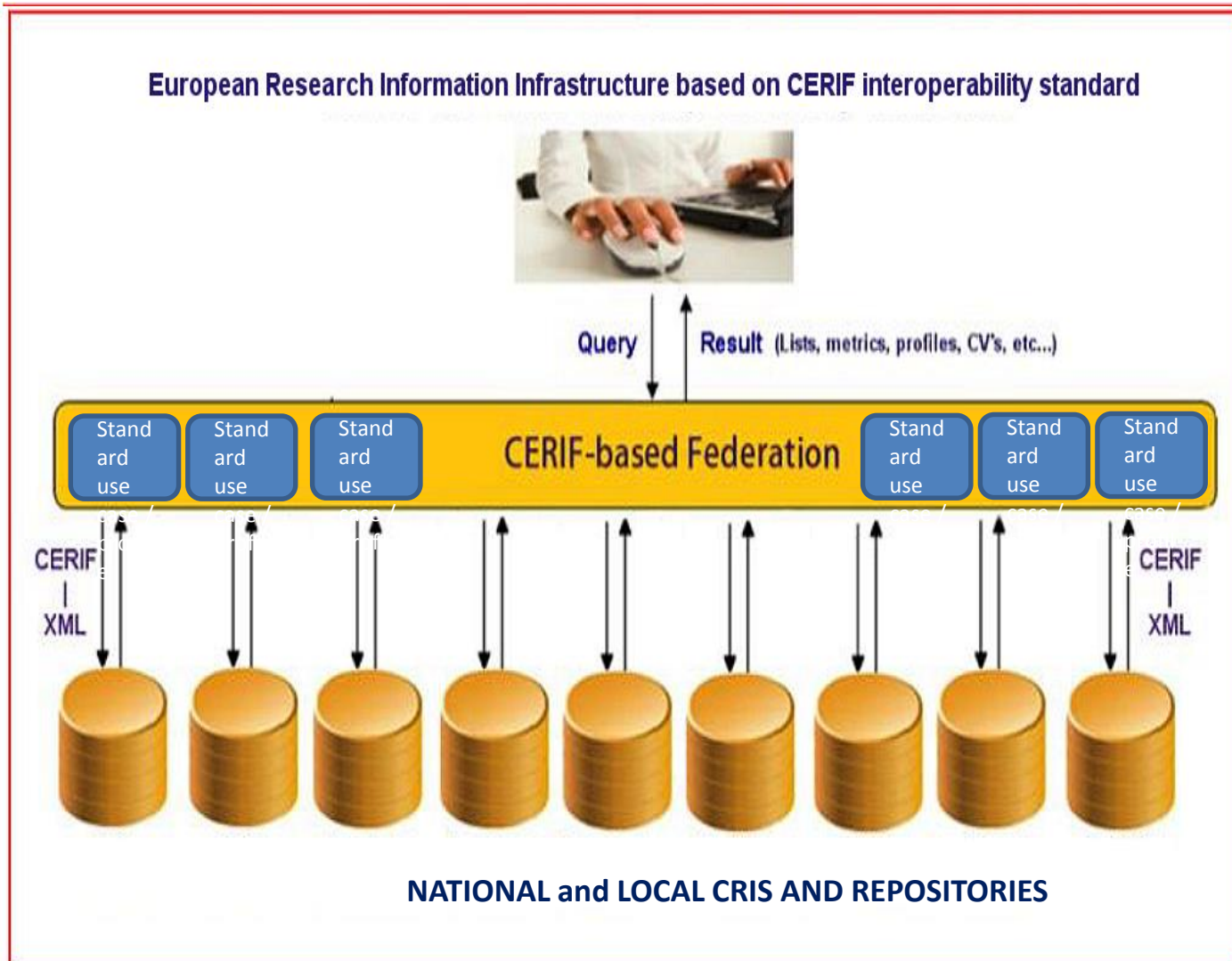
Master Data
Management

DaaS

WP7 BI

science

HE



PTCRIS

Connected Research

Cooperation is power!

FCT Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA EDUCAÇÃO E CIÊNCIA



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South European Link for Research Information Management

FCT|FCCN (Portugal)

GIVE

PTCRISync: ORCID Synchronization Framework

TAKE

CERIF Model | CERIF Services | CERIF REST API | CERIF OAI | DSpaceCRIS

CINECA (Italy)

GIVE

DSpace-CRIS | ORCID HUB | upgrades | roadmap

TAKE

ORCID Synchronization Framework | CERIF REST API | CERIF OAI



SELRIM

CSUC (Catalonia)

GIVE

CERIF validator | DSpaceCRIS early adaptor

TAKE

DSpace-CRIS | CERIF OAI

EKT (Greece)

GIVE

CERIF Model | CERIF Services | CERIF XML | CERIF REST API | CERIF OAI | upgrades

TAKE

Contribution

Cooperation with Brazil



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Repositório Científico de
Acesso Aberto de Portugal

NATIONAL OPEN ACCESS INITIATIVE

Electronic services

Portal RCAAP

Directory

★
Institutional
Repositories
(SARI)



Scientific
data
(SARDC)



Scientific
Journals
(SARC)



Shared
repository



Stats
(SCEUR)

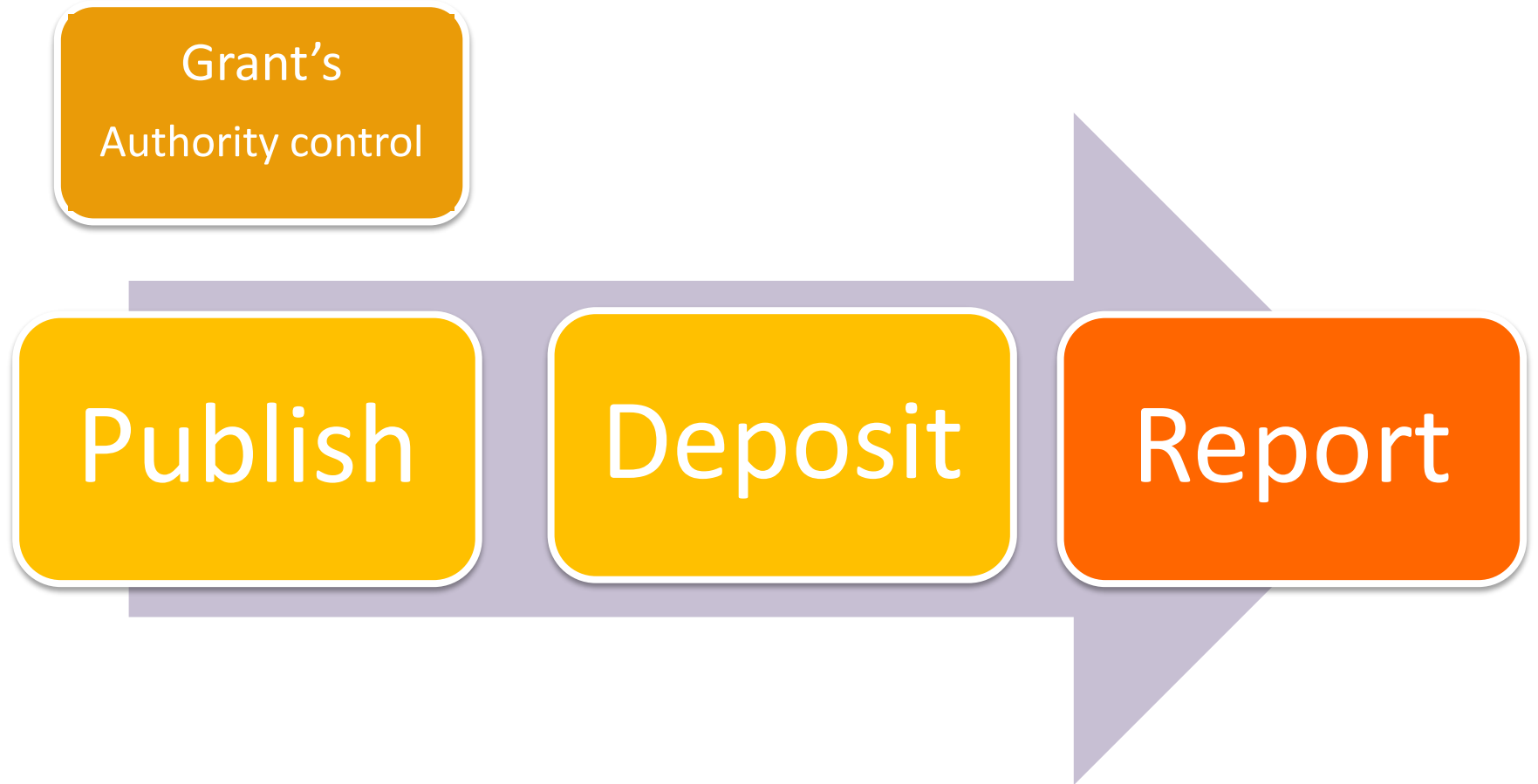
Figures

- **47 Institutional Repositories (28 hosted by FCT|FCCN)**
- **1 repository shared by 44 institutions**
- **44 journals (14 hosted by FCT|FCCN)**

Recognition / Consolidation RCAAP

- **RCAAP is the instrument used to insure compliancy with:**
 - **Legal deposit of doctoral dissertations and master's theses**
 - **Funder FCT's open access policy.**

Overview




CERIF BD for Authority control



<http://api.openaire.eu>


PTCRIS – Editor – ORCID

seg 06-07-2015 15:55

 research@f1000.com

Add article to your ORCID profile An ORCID based synchronization framework for a national CI

To jmm@fccn.pt

 This message has been replied to or forwarded.


Dear João,



The article 'An ORCID based synchronization framework for a national CRIS ecosystem', for which you are listed as a corresponding author, has just been **published on *F1000Research***. If you would like to add this article to your existing ORCID profile, or would like to create one, please [click here](#).

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PTCRIS – ORCID

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João Mendes
Moreira



Biography



ORCID ID

sandbox.orcid.org/0000-0003-
2057-4944

[View public version](#)

▼ Employment (0)

+ Add employment

⇅ Sort

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▼ Funding (1)

+ Add funding

⇅ Sort

Get a QR Code for your iD

Also known as

Country

Keywords
cris, OA

Websites
<http://ptcris.pt>

Emails
jmm@fccn.pt

Other IDs
DeGóis 7907927727191275

FCT|FCCN - PTCRIS

Ministério da Ciência, Tecnologia e Ensino Superior (, Portugal)

2014-05 to 2015-12 | Grant

Grant number: 1234134123

Source: Plataforma DeGóis - Development

Preferred source



▼ Works (2)

+ Add works

Bulk edit

⇅ Sort

An ORCID based synchronization framework for a national
CRIS ecosystem

F1000Research

2015-07-06 | journal-article

SOURCE-WORK-ID: DG:001729299210



PTCRIS – DeGóis



AUTENTICAÇÃO LOCAL	AUTENTICAÇÃO FEDERADA
Correio-eléctronico ou DeGóis iD <input type="text"/>	Instituição a que pertence RCTS <small>aai</small> <input type="text" value="https://idp-simplesaml-teste.fccn.pt/simplesaml/saml2"/>
Palavra-chave <input type="password"/>	<input checked="" type="checkbox"/> Memorizar instituição seleccionada
<input type="button" value="Aceder"/> Recuperar palavra-chave	<input type="button" value="Aceder"/> FAQ
Criar registo com conta local	Criar registo com conta institucional

PTCRIS – ORCID – DeGóis



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Exit

Identification ▾ Education ▾ Professional career ▾ Projects ▾ Distinctions Productions Activities Additional information



Home ▸ **Productions**

Productions

Sort by

ORCID - Synchronized

An ORCID based synchronization framework for a national CRIS ecosystem

Journal Article published in 06/07/2015

Authors: Mendes Moreira, João; Cunha, Alcino; Macedo, Nuno

source-work-id: DG:777097299219, doi: 10.12688/f1000research.6499.1, source-work-id: DG:001729299210



In ORCID



Portuguese repositories bloom : the RCAAP project

Other production

Authors: Rodrigues, Eloy

source-work-id: DG:277791199210, handle: http://hdl.handle.net/1822/17578



In ORCID



PTCRIS – DeGóis – RCAAP



João Alexandre Reis Mendes Moreira

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Exit

Identification ▾ Education ▾ Professor

Repository authentication



Repository information

Repositório de testes DeGóis

Collections *

ORCID

Access type *

Open access

Documents *

Document	Size	
10.12688_f1000research.6499.1_20150814.pdf	1477.06 kB	

[Anexar documento](#)

Funders projects



Project title

FCT|FCCN - PTCRIS

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DSpace at My University / TESTE ORCID / ORCID

Utilize este identificador para referenciar este registo: <http://dev4.rcaap.pt/handle/123456789/1403>


Título:	An ORCID based synchronization framework for a national CRIS ecosystem
Autor:	Mendes Moreira, João Cunha, Alcino Macedo, Nuno
Data:	5-Jul-2015
URI:	http://dev4.rcaap.pt/handle/123456789/1403
Aparece nas colecções:	ORCID

Ferramentas administrativas

- Alterar
- Exportar registo
- Exportar (migrar) Registo
- Exportar metadados

Ficheiros deste registo:

Ficheiro	Descrição	Tamanho	Formato	
10.12688_f1000research.6499.1_20150814.pdf		1,48 MB	Adobe PDF	Ver/Abriu

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Productions

Sort by

✔ ORCID - Synchronized

⌵ Actions

An ORCID based synchronization framework for a national CRIS ecosystem

Journal Article published in 06/07/2015

Authors: Mendes Moreira, João; Cunha, Alcino; Macedo, Nuno

source-work-id: DG:529111199216, issn: 2046-1402, doi: 10.12688/f1000research.6499.1, handle: <http://dev4.rcaap.pt/handle/123456789/1403>



In ORCID



In repository

Portuguese repositories bloom : the RCAAP project

Other production

Authors: Rodrigues, Eloy

source-work-id: DG:277791199210, handle: <http://hdl.handle.net/1822/17578>



In ORCID





Project/scholarship details

FCT | FCCN - PTCRIS

PTCRIS Mission is ensure the creation and sustained development of national integrated information ecosystem (PTCRIS) to support research management

Project/scholarship ID
10705

Reference
1234134123

Funder
FCT - Fundação para a Ciência e a Tecnologia, I.P.

Funder's country
Portugal

Funding program
FCT

Funding amount
200.000,00 €

Start date
2014-05-01

End date
2015-12-31

Date awarded
2015-11-05

Documents

Navigation: << < 1 > >> rss feed search results

[An ORCID based synchronization framework for a national CRIS ecosystem](#)

Mendes Moreira, João; Cunha, Alcino; Macedo, Nuno

Date: 2015 | Origin: [DSpace 5 de Teste](#)

[More info.](#)

Navigation: << < 1 > >> rss feed search results

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document.write("<script type='text/javascript'
src='http://dev1.rcaap.pt/snippet?
resources=documents&project=FCT+%7C+FCT+%7C+1
0705&field=id,titles,creators,issueDate,link,description
s'></script>");
-->
</script>
```

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Project/scholarship information	
Name of project/scholarship	FCT FCCN - PTCRIS
Description	PTCRIS Mission is ensure the creation and sustained development of national integrated information ecosystem (PTCRIS) to support research management
Funder	FCT - Fundação para a Ciência e a Tecnologia, I.P.
Funding program	FCT
Project/scholarship ID	10705
Reference	1234134123
Start date	2014-05-01
End date	2015-12-31
Funding amount	200.000,00 €

Report information	
Summary	
Report date	2015-11-08 11:00:36
Number of documents	1
Documents by repository	
rep_ptcris	1
Documents by access rights	
unrecognized	1

Documents			
An ORCID based synchronization framework for a national CRIS ecosystem	Mendes Moreira, João; Cunha, Alcino; Macedo, Nuno	2015	rep_ptcris http://dev4.rcaap.pt/handle/123456789/1404

Grant Mng system Scientific Reporting

3. Publicações

Report Automático:

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3. Aceda ao portal RCAAP
4. Produza o relatório (link)
5. Copie URL na caixa de texto abaixo (link)

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