

RCAAP Repositories Network - Promoting Interoperability

OR2019 - Hamburg - 10-06-2019



Agenda

- **About RCAAP**
- **Why we need an integrated network of repositories?**
 - PTCRIS
 - Ciência Vitae
- **How to achieve it**
 - Guidelines, identifiers, tools and services
- **What have we done**
 - Promoting interoperability
- **Actual / future work**

RCAAP short description

- Vital research e-infrastructure, part of the NREN
- Initiated operation in November 2008 with 12 institutional repositories
- Integrates public institutional repositories and makes their deposited content available via a single entry point search portal
- Monitors and ensures that every repository within the RCAAP network conforms to the highest quality and interoperability standards

DRIVER and OpenAIRE guidelines

RCAAP short description

Objectives

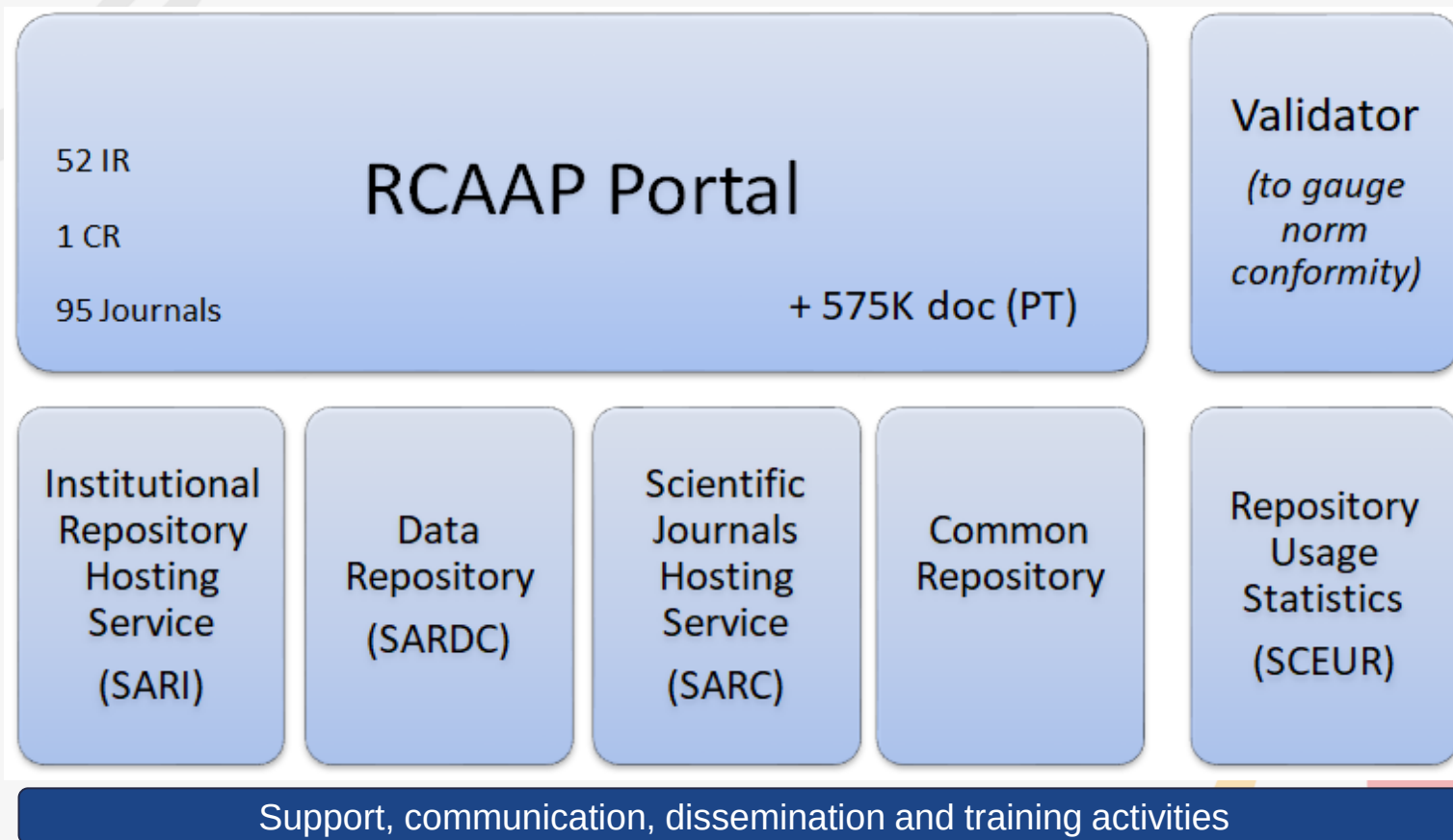
- To increase visibility and dissemination of search results
- To facilitate access to national scientific information
- To integrate Portugal into a set of international initiatives

Governance

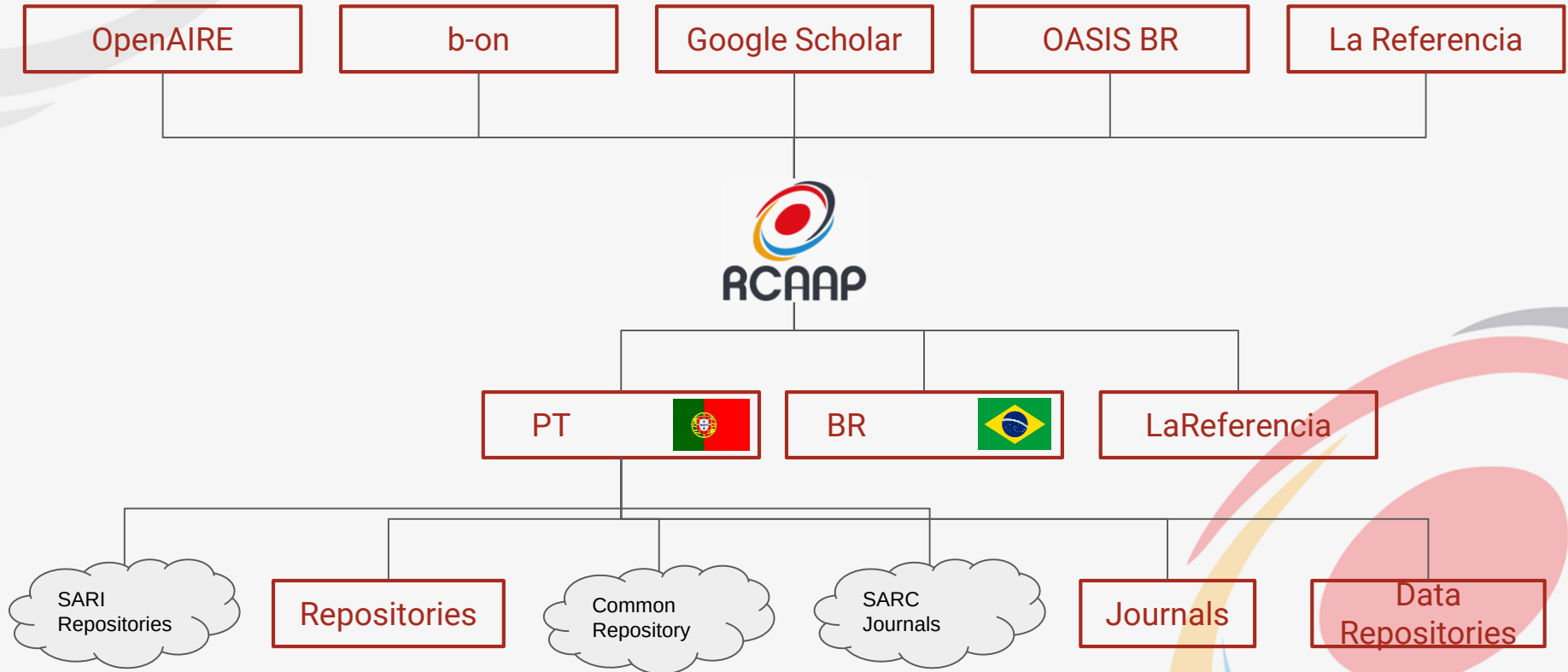
- FCT|FCCN (Political / project funding / general coordination)
- Univ. Minho (Scientific and technical coordination)



RCAAP services



RCAAP as national / international aggregator





Why

Do we need more interoperability



PTCRIS



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

Science & Technology Ecosystem

Researchers

Affiliations

Organizations

Funding
/Projects



Infrastructures

CV

Grant Management

Institutional CRIS

Research Portal

Indicators

PTCRIS = System of systems = ecosystem

PTCRIS implementation principle



Input once, reuse multiple!



- Promotes information circulation;
- Eliminate information silos

Adopted standards

PT-CRIS	
 euroCRIS Current Research Information Systems	Data model
 casrai Connecting Research	Dictionary/ Interop.
 VIVO Enabling National Networking of Scientists	Ontologies
 ORCID	Researchers ID
 isni	Organisations ID

CERIF data model

Standard dictionary of
research information

Vivo ontologies

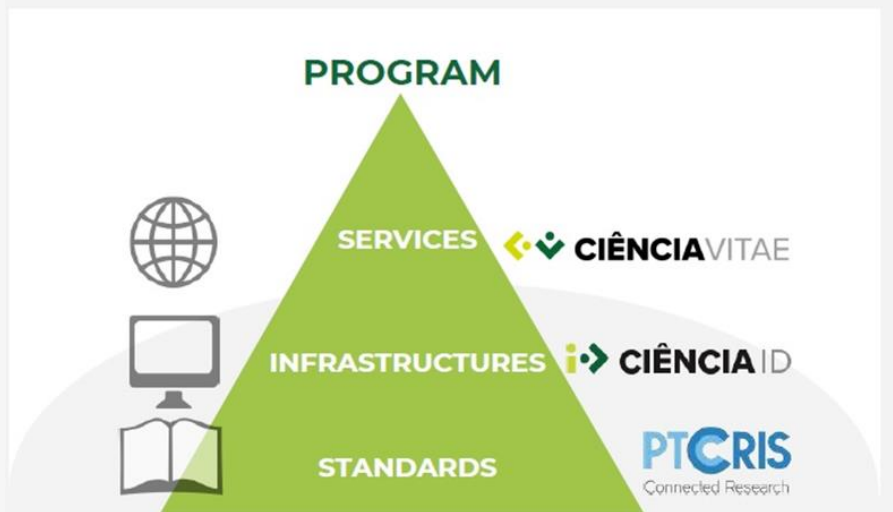
ORCID for researchers IDs

ISNI for organizations IDs

Ciência Vitae

- **CIÊNCIA VITAE** is a platform that allows you to create, manage and promote your curriculum quickly and simply.

Standards and Infrastructures (PTCRIS)



Ciência Vitae features

- One cv: shared by different stakeholders of the national academic-scientific system;
- Customise: user chooses how, when and what he wants to share. The “Export Curriculum” feature allows to create multiple versions of the curriculum that are suitable for different needs.



Ciência Vitae

- Integrate: **CIÊNCIAVITAE** is integrated with various national and international systems, such as ORCiD, FCT|SIG, etc. Users can reuse information already registered in these systems to build their curriculum;

INTEGRATE with other systems



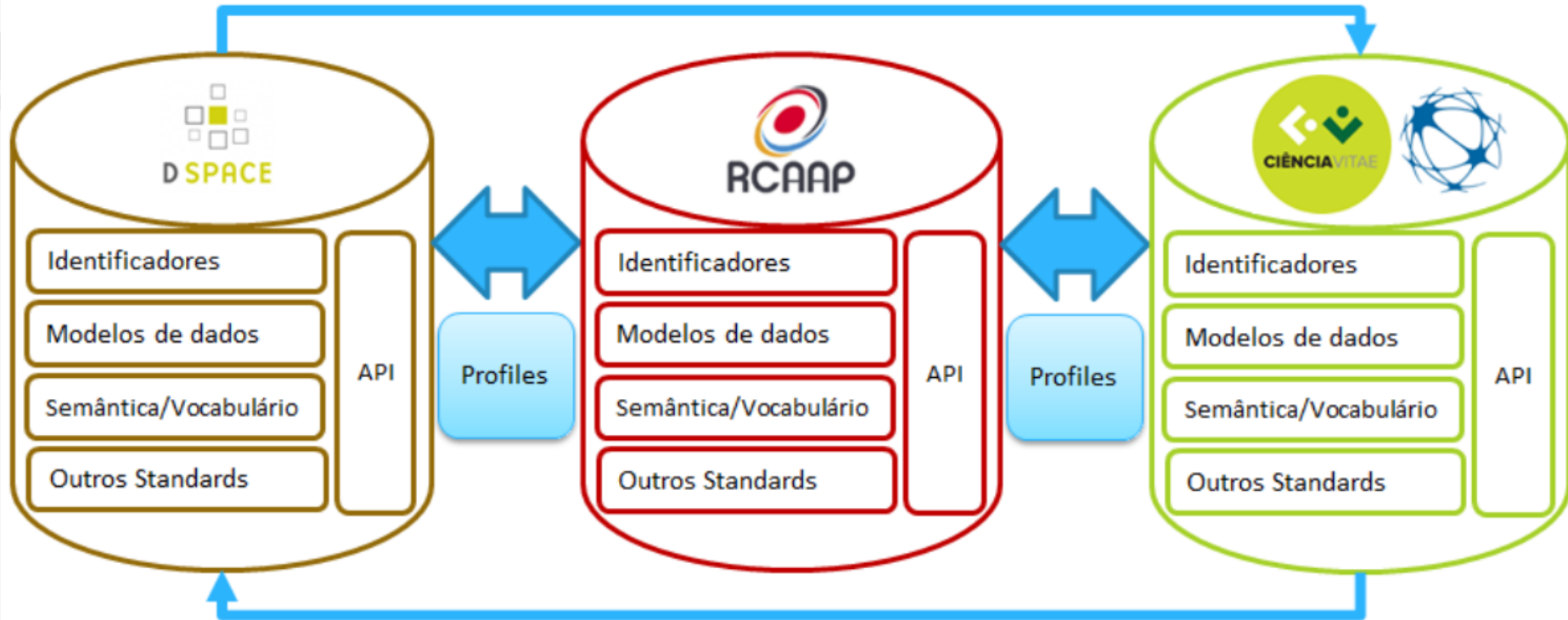


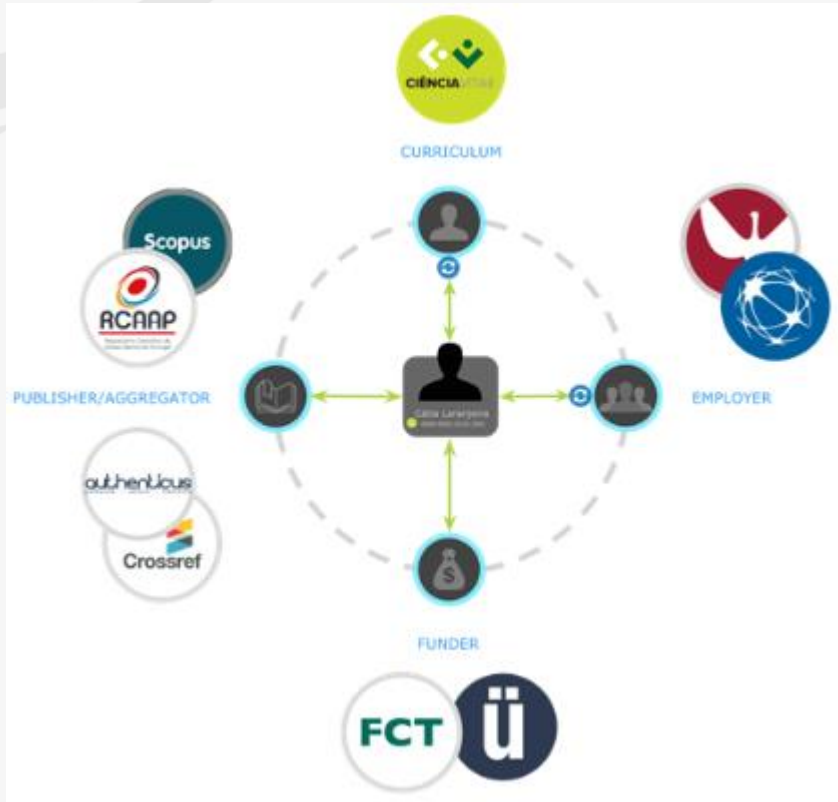
How

**How to improve interoperability in
RCAAP network?**



How? Standards and their adoption

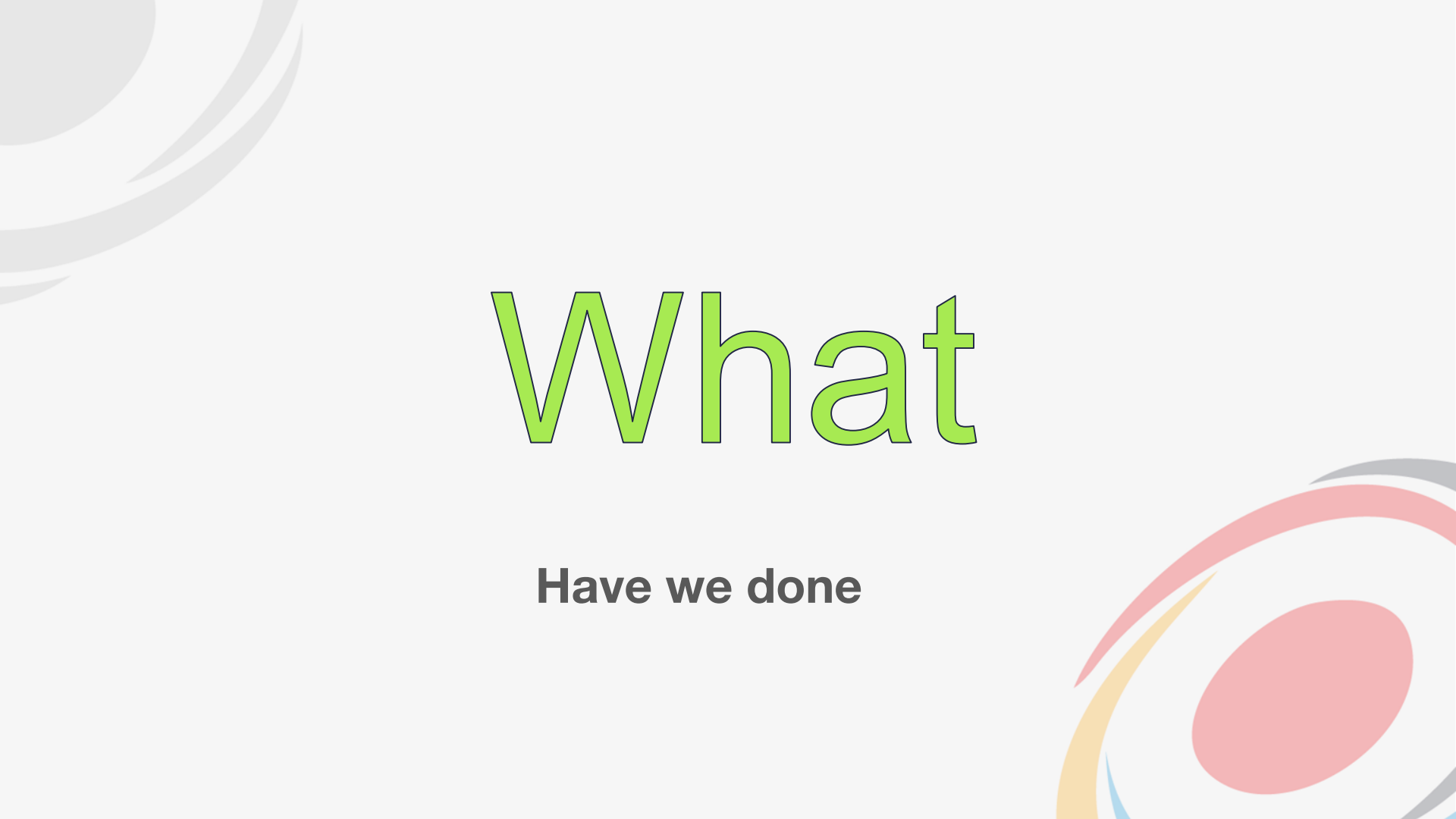




**Focus on relationship
between the user and the
ecosystem**

Integration objectives

- **Maximize the practice of open access by providing appealing, interoperable and innovative electronic services**
- **Increase the visibility of scientific production**
- **Facilitate the deposit and circulation of information**

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What

Have we done

Implementation

Integration use cases



We identified five use cases related to claim tasks, deposits on repositories from external sources, synchronization, authority control for entities (authors, Organizations; funding) and data curation

Implementation

1 Claim

1.a
Binding CID a
user RI

1.b
Claim Author
Profile

1.c
Work Claim

2 Deposito

2.a
Authentication

2.c
Repository
selection

2.f
Licensing

2.b
Select collection

2.d
File upload

2.g
deposit

3 Synchronization

3.a
Sync
RI

3.b
Sync
Portal

4 Authority control

i CRIS

ii RI

iii Portal

a
Authors

b
Org Ids

c
Funding

5 Data curation

I CRIS

II RI

III Portal

a
Authors

b
Org Ids

c
Funding

Work done

DONE[®]

The word "DONE" is written in a dark grey, sans-serif font. A large green checkmark is superimposed over the letter "O". A small registered trademark symbol (®) is located at the top right of the word.

1.a - Claim - Binding CID to repository user

1 Claim

a
Binding CID a
user RI

b
Claim Author
Profile

c
Claim de
trabalhos

Possibility of user authentication on repository through Science ID

The screenshot displays the DSpace repository login interface. At the top, the 'DSpace' logo is visible. Below it, the 'Entrar no repositório' (Login to repository) section contains a registration link for new users and a login form. The login form has fields for 'Endereço de correio eletrônico:' (Email address) and 'Palavra de acesso:' (Access word), with an 'Entrar' (Login) button. A link for 'Esqueceu a sua palavra de acesso?' (Forgot your access word?) is also present. To the right of the login form, there is a section for 'Autenticação com CiênciaID.' (Authentication with CiênciaID), which includes a button for 'Ciência ID Authentication' and a note about using this method for users with a CiênciaID. The 'Ciência ID' logo is also displayed. On the right side of the page, there is a 'ENTRAR' (Login) section with a 'Ciência ID ou E-mail' (Ciência ID or E-mail) field containing the example 'carla.laranjeira@ufrr.br', a 'Palavra-chave' (Password) field, and an 'ENTRAR' button. Below the password field, there is a checkbox for 'Esqueceu-se da palavra-chave?' (Forgot the password?) and a link for 'Mostrar dados e serem partilhados pelo serviço' (Show data and be shared by the service). To the right of the login section, there is a 'Ciência ID' section with a 'Ciência ID' logo and a 'Ciência ID' button. Below this, there is a 'Ciência ID' section with a 'Ciência ID' logo and a 'Ciência ID' button. At the bottom, there is a 'Ciência ID' section with a 'Ciência ID' logo and a 'Ciência ID' button.

1.c - Works claim

1 Claim

1.a

Binding CID a
user RI

1.b

Claim Author
Profile

1.c

Work Claim

Possibility of a Ciencia Vitae user to import works from repositories (via RCAAP Portal)



The screenshot shows the 'Importador RCAAP' (RCAAP Importer) interface within the Ciencia Vitae system. The header is green with the Ciencia Vitae logo on the left, the user name 'PAULO LOPES' in the center, and a status indicator 'Não publicado' (Not published) with a warning triangle icon on the right. Below the header is a yellow navigation bar with links: IDENTIFICAÇÃO, FORMAÇÃO, PERCURSO PROFISSIONAL, PROJETOS, PRODUÇÕES, ATIVIDADES, and DISTINÇÕES. The main content area is white and titled 'Importador RCAAP' in green. In the top right of this area is a 'TERMINAR →' (Finish) button. Below the title, there are two main sections: 'Critério' (Criterion) and 'Termo a pesquisar' (Term to search). The 'Critério' section has a dropdown menu currently showing 'Repositório' (Repository), with other options being 'Autor' (Author), 'Idioma' (Language), 'Tipo de documento' (Document type), and 'Título' (Title). The 'Termo a pesquisar' section has a text input field containing 'Universidade do Minho (RepositóriUM - Univer' and a plus icon to the right.

2. Direct deposit from CV

Wizard that permits:

- Choose Repository
- Choose Collection
- Choose FT file and access type
- Introduce funding information
- Agree with deposit licence

2
Deposit

CIÊNCIAVITAE

Paulo Lopes

⚠ Não publicado

IDENTIFICAÇÃOFORMAÇÃOPERCURSO PROFISSIONALPROJETOS**PRODUÇÕES**ATIVIDADESDISTINÇÕES

Depositar produção

📁 Está a depositar *Integrating a national network of institutional repositories into the national/international research management ecosystem*

Resumo dos dados do depósito

Verifique, por favor, se todas as opções do depósito estão em conformidade com o pretendido. Pode alterar uma ou mais opções clicando no ícone correspondente. O processo de depósito termina somente quando clicar na opção "Concluir depósito".

1	Repositório	Repositório para depósito dev4.rcaap.pt	
2	Colecção	Colecção CienciaVitae Collection	
3	Ficheiros e tipo de acesso	Tipo de acesso ao documento Acesso aberto	
4	Informação de financiamento	Ficheiros a anexar AAA_T1.pdf	
5	Licença de depósito		
6	Resumo e conclusão		

ANTERIORCANCELARCONCLUIR DEPÓSITO



IDENTIFICAÇÃO

FORMAÇÃO

PERCURSO PROFISSIONAL

PROJETOS

PRODUÇÕES

ATIVIDADES

DISTINÇÕES

Produções

ADICIONAR

SINCRONIZAR

DUPLICADOS

Data mais recente

Ver todos os tipos

20

► Curadoria e integração de sistemas

Artigo em conferência apresentado na conferência realizada em 2018

Sincronizado com 

Depositado 



► Novo portal RCAAP: novas funcionalidades

Artigo em conferência apresentado na conferência realizada em 2018

Sincronizado com 

Depositado 



► Serviço nacional de registo de identificadores DOI

Artigo em conferência apresentado na conferência realizada em 2018

Sincronizado com 

Depositado 



► Integrating a national network of institutional repositories into the national/international research management ecosystem

Artigo em conferência apresentado na conferência realizada em 2016

Sincronizado com 

Depósito em validação



► Centralização da gestão de recursos eletrónicos de uma biblioteca digital em ambiente de consórcio

Outra produção realizada em 2012

Sincronizado com 

Depositado 





Área Pessoal: sdum uminho

[Iniciar novo depósito](#)[Ver depósitos aceites](#)

Tarefas seleccionadas

Em baixo encontram-se as tarefas que seleccionou para executar.

Tarefa	Título	Submetido a	Submetido por	
Verificar depósito	Bus bunching detection by mining sequences of headway deviations	DeGóis - Coleção com passo de aceitação	João Alexandre Reis Mendes Moreira	Executar tarefa Voltar às tarefas para executar
Rever depósito	Abc da bixarada	DeGóis - Coleção com passo de aceitação	L P	Executar tarefa Voltar às tarefas para executar

Tarefas para executar

Em baixo encontram-se as tarefas que pode seleccionar para executar.

Tarefa	Título	Submetido a	Submetido por	
Verificar depósito	Integrating a national network of institutional repositories into the national/international research management ecosystem	CienciaVitae Collection	CV User	Seleccionar tarefa

4. Authority Control for Authors

4 Authority control

4.a
Authors

Possibility to associate an author name with a unique identifier (ORCID or / and Ciência ID)

Depositar: Descreva o seu registo ?

Por favor, introduza a informação necessária acerca do seu Depósito em baixo. Na maioria dos browsers pode usar a tecla TAB para navegar no formulário.

Introduza o título principal do registo.

Título *

test

Se necessário, indique o título alternativo ou tradução.

Outros Títulos

+ Adicionar mais

Introduza o nome do(s) autor(es) do trabalho e clique para procurar o respetivo identificador no ORCID ou Ciência Vitae.

Autores *

Laranjeira

Cátia



+ Adicionar mais

Pesquisar identificadores do autor

Introduza os nomes dos editores do trabalho.

This feature
invokes Ciencia
ID or ORCID in
order to obtain
information
about authors

Pesquisa na autoridade de nomes

Procurar por identificador



Lista de Resultados

Laranjeira, Cátia
Laranjeira (Teste), Cátia
'Laranjeira, Cátia' (não em Autoridade)

[Apresentar mais resultados](#)

Aceitar

Cancelar

Informação sobre o autor



Nome

Laranjeira, Cátia

Variantes

Afiliação

Identificadores

3415-1354-5489 CIÊNCIA ID

0000-0003-3952-8294

23091392500 Scopus'

[Documentos do autor no Repositório](#)

OpenAIRE 4 on repositories

Author information is stored in repositories with openAIRE 4 schema and will be harvested in this same format by RCAAP portal.

Metadata

```
<resource xsi:schemaLocation="http://openaire.eu/schema/v4 file:/home/schirrwagen/workspace/git/gitlab/openaire/lit_guidelines_v4_preview/schema/openaire-v4.xsd">
  <datacite:creator>
    <datacite:creatorName>Laranjeira, Catia</datacite:creatorName>
    <datacite:givenName>Catia</datacite:givenName>
    <datacite:familyName>Laranjeira</datacite:familyName>
    <datacite:nameIdentifier nameIdentifierScheme="orcid">0000-0003-3952-8294</datacite:nameIdentifier>
    <datacite:nameIdentifier nameIdentifierScheme="ciencialD">FD16-786E-13CC</datacite:nameIdentifier>
    <datacite:nameIdentifier nameIdentifierScheme="scopusAuthorID">23091392500</datacite:nameIdentifier>
  </datacite:creator>
  <datacite:contributor contributorType="HostingInstitution">
    <datacite:contributorName>DSpace teste</datacite:contributorName>
    <datacite:nameIdentifier nameIdentifierScheme="mail"
      schemeURI="mailto:webmaster@rcaap.pt">webmaster@rcaap.pt</datacite:nameIdentifier>
    </datacite:contributor>
    <datacite:relatedIdentifier relatedIdentifierType="URL">https://dev4.rcaap.pt/jspui/handle/123456789/1465</datacite:relatedIdentifier>
  </datacite:date />
  <datacite:date dateType="Available">2018-03-23T12:09:35Z</datacite:date>
  <datacite:date dateType="Issued">2018</datacite:date>
  <dc:title xml:lang="pt_PT">Teste_123</dc:title>
  <dc:language>por</dc:language>
  <dc:date>2018</dc:date>
  <dc:type rdf:resource="http://purl.org/coar/resource_type/c_1843">other</dc:type>
  <dc:identifier>https://dev4.rcaap.pt/jspui/handle/123456789/1465</dc:identifier>
  <dc:rights>http://purl.org/coar/access_right/c_abf2</dc:rights>
  <version />
  <file mimeType="application/pdf" objectType="fulltext">https://dev4.rcaap.pt/jspui/bitstream/123456789/1465/1/20180323_Multicare_Fev_2018.pdf</file>
</resource>
```

Actual / future work



Actual / future work

- All these new functionalities on repositories were implemented in Version 5 of DSpace that is the one we use in SARI repositories;
- We need DSpace 7 with entity management functionalities such as authors, organizations and funding;
- That's why we started in mid-2017 discussions aimed to influencing the roadmap of DSpace 7 and we led the DSpace Entities Working Group;
- We are deeply involved in DSpace 7 implementation providing tests and code review

Actual / future work

When available, we plan to replicate in DSpace 7 the same 5 integration use cases;

All of DSpace ▾ Statistics 🔍 🌐 Log In ▾



Sapientia

Sapientia

Browse

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- [By Issue Date](#)
- [By Author](#)
- [By Subject](#)

Teste de comunidade [link](#)

Collections of this Community

- Organizações
- Pessoas
- Projetos
- Publicações



Sapientia

Canario, A.V.M.



Last Name

Canario

First Name

Adelino

ORCID

<https://orcid.org/0000-0002-6244-6468>

ciencialD

<https://www.cienciavita.pt/en/1F1E-D3B3-F804>

[Full item page](#)

Email Address

canario.avelino@sapientia.pt

Actual / future work



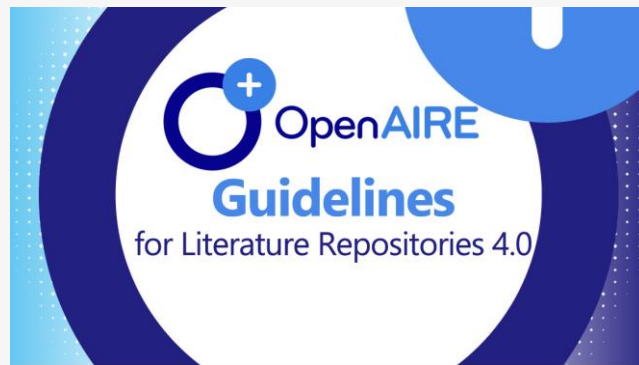
- New data model to support CRIS entities;
- New API to expose this information

Actual / future work

One of the objectives of this strategic partnership, among others, is to “To promote a gradual compliance of the DSpace with the OpenAIRE Literature Repository Guidelines V4.0”.

We are leading a working group in order to have DSpace 7 compliant with OpenAIRE v4

Kickoff meeting on June 18.



Memorandum of Understanding between DuraSpace and OpenAIRE

September 25, 2018

For DuraSpace

For OpenAIRE

A handwritten signature in black ink, appearing to read 'E. Tripp'.

A handwritten signature in purple ink, appearing to read 'N. Manola'.

Erin Tripp

Natalia Manola

Chief Executive Officer

Managing Director

The background features abstract, stylized shapes. In the top left, there are grey curved lines. In the bottom right, there is a large, colorful shape composed of a pink oval, a yellow curved line, and a blue curved line, all set against a light grey background.

Thank You

For your attention

<http://rcaap.pt>