

RCAAP – A National Network built on the Power of Institutional Repositories

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| Outline

- Introduction & General Overview
- RCAAP Services
- RCAAP and Interoperability
- Enhanced Repositories
- Conclusions

INTRODUCTION & GENERAL OVERVIEW

Scientific Open Access Repository of Portugal

RCAAP PROJECT



Main Goals of the Project

- Increase the visibility, accessibility and dissemination of Portuguese research results
- Facilitate access to information about Portuguese scientific output
- Integrate Portugal in the wide range of international initiatives in this domain

Governance

- FCT / FCCN

General Coordination & infrastructures



Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR

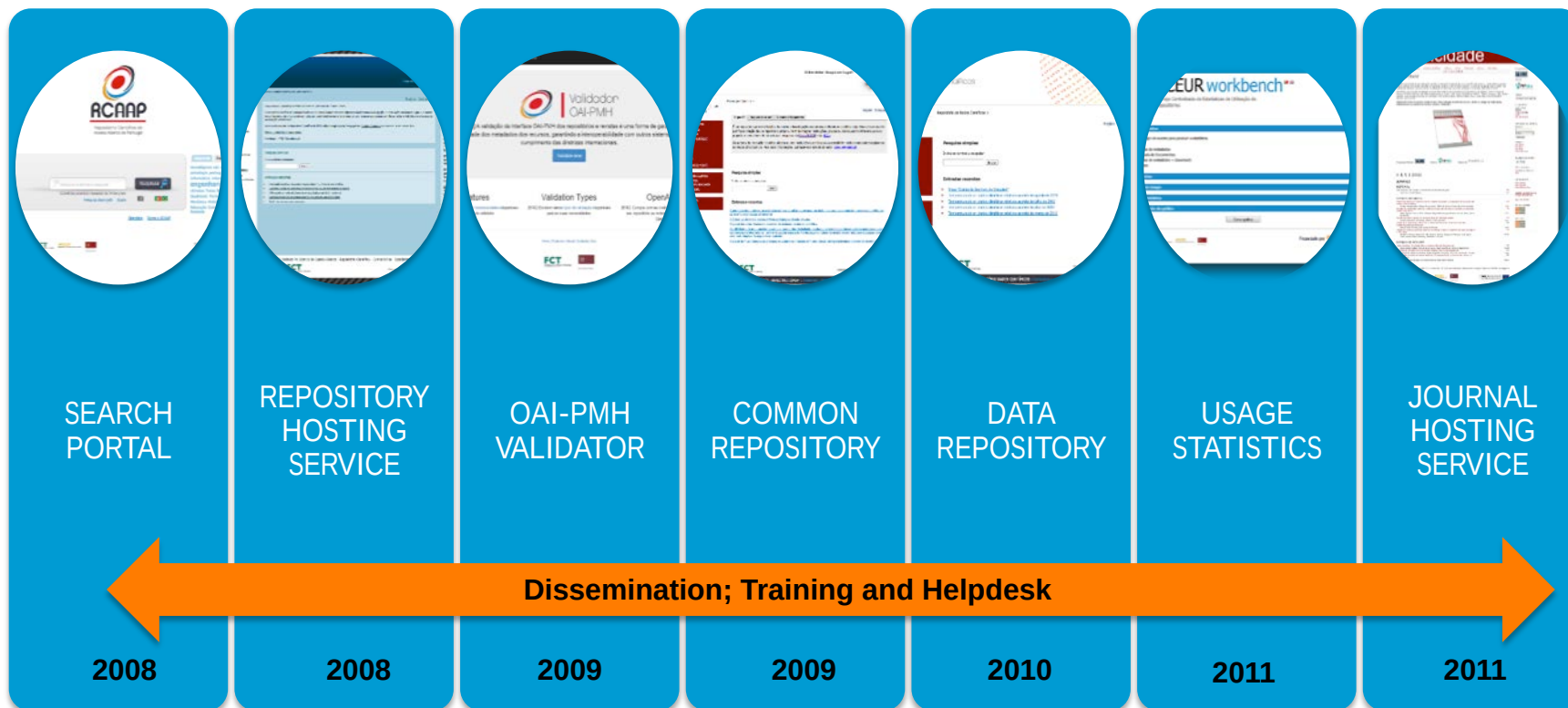
- University of Minho

Scientific and technical coordination



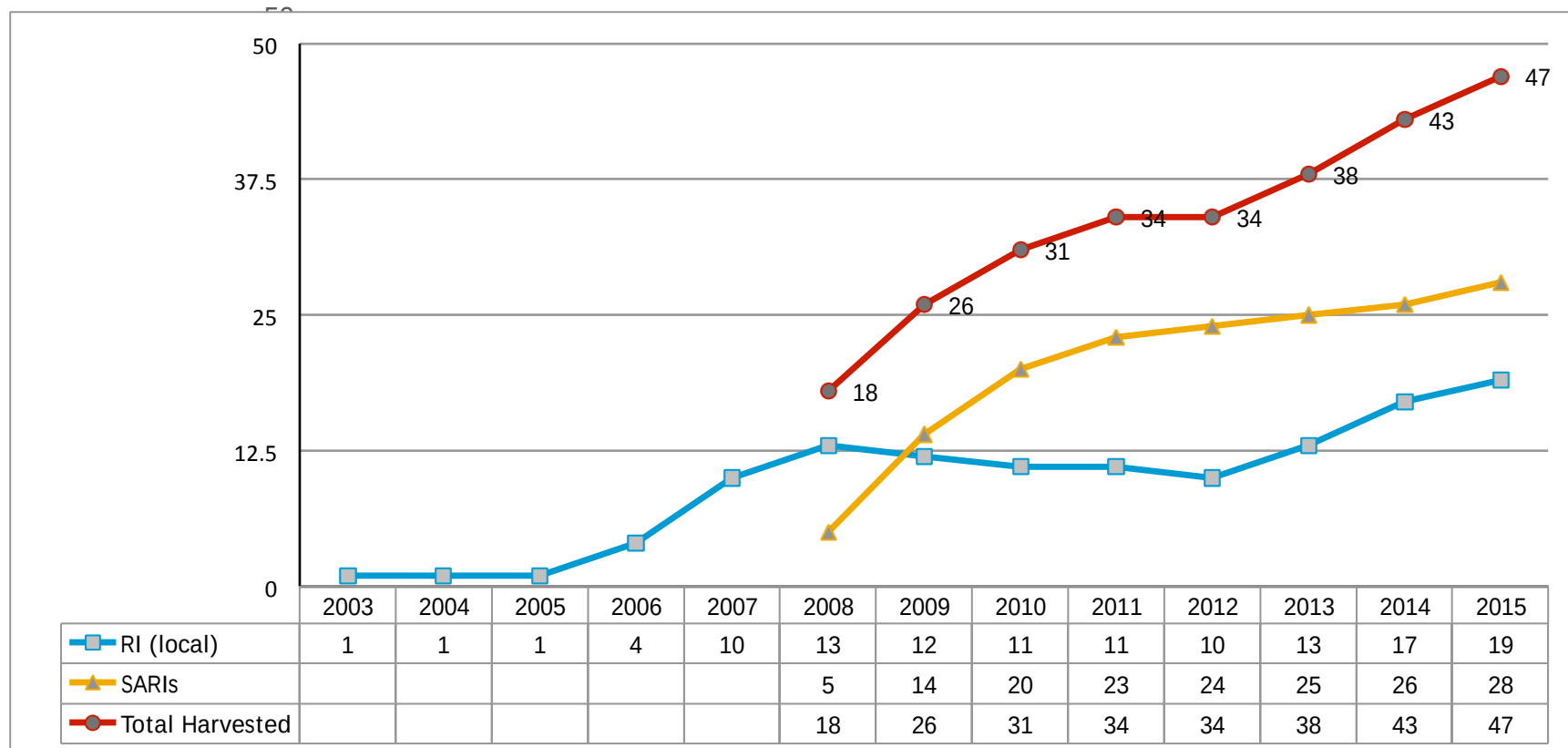
Universidade do Minho

RCAAP Services



PORTUGUESE REPOSITORIES GROWTH

Repository Evolution in Portugal

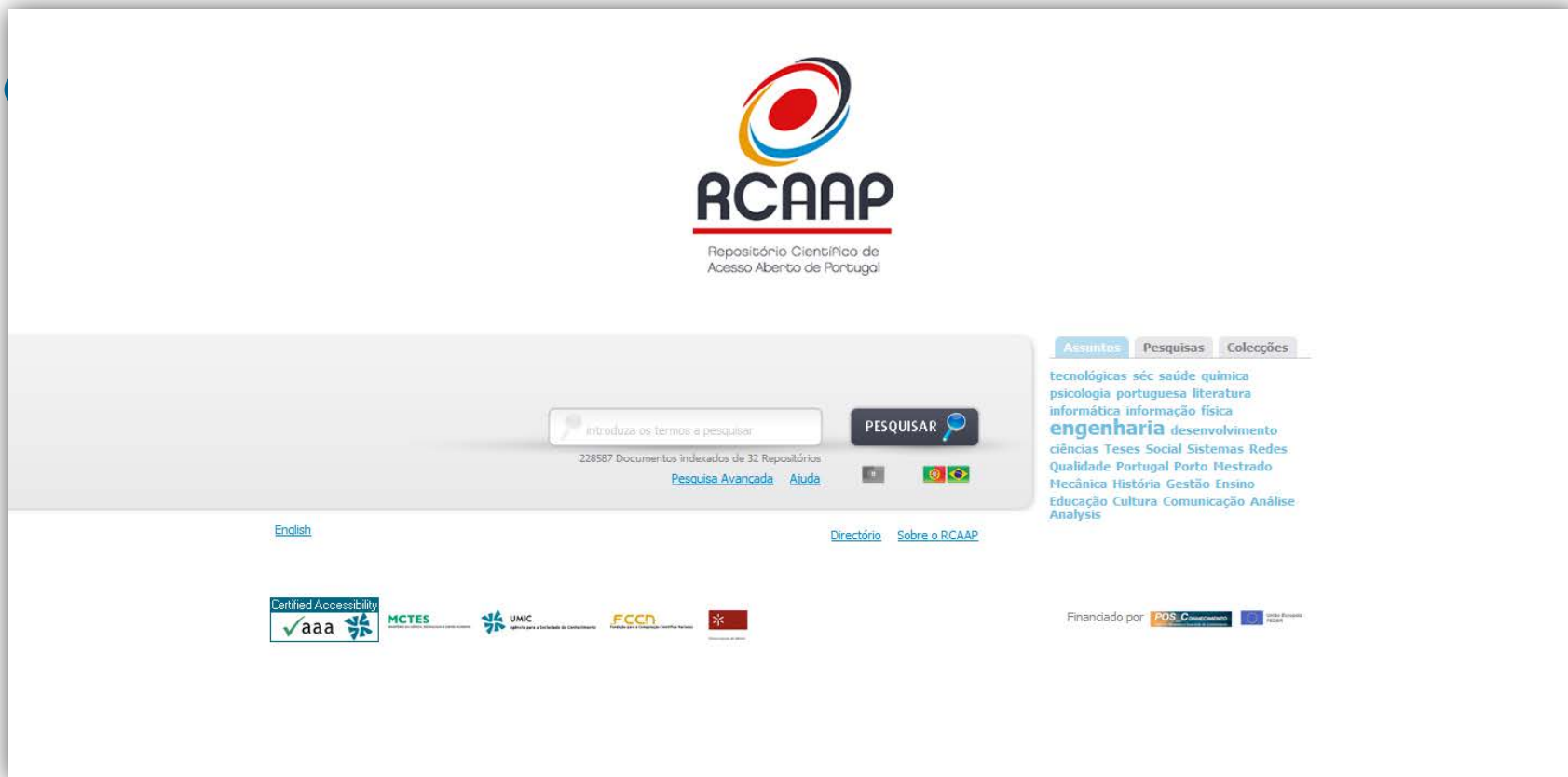


RCAAP SERVICES

RCAAP SEARCH PORTAL

RCAAP Search Portal

<http://www.rcaap.pt>



The screenshot displays the RCAAP Search Portal homepage. At the top center is the RCAAP logo, consisting of a stylized red and blue circular graphic above the text "RCAAP" and the full name "Repositório Científico de Acesso Aberto de Portugal". Below the logo is a search bar with the placeholder text "introduza os termos a pesquisar" and a "PESQUISAR" button. To the right of the search bar, there are tabs for "Assuntos", "Pesquisas", and "Coleções". Below these tabs is a list of search categories: "tecnológicas", "séc saúde", "química", "psicologia", "portuguesa", "literatura", "informática", "informação", "física", "engenharia", "desenvolvimento", "ciências", "Teses Social", "Sistemas", "Redes", "Qualidade", "Portugal", "Porto", "Mestrado", "Mecânica", "História", "Gestão", "Ensino", "Educação", "Cultura", "Comunicação", "Análise", and "Analysis". At the bottom of the page, there are several logos and text indicating funding and accessibility: "Certified Accessibility", "MCTES", "UMIC", "FCCN", and "Financiado por POS, COMUNITÁRIO, and Europa".

RCAAP
Repositório Científico de
Acesso Aberto de Portugal

introduza os termos a pesquisar

PESQUISAR

228587 Documentos indexados de 32 Repositórios

[Pesquisa Avançada](#) [Ajuda](#)

[English](#) [Directório](#) [Sobre o RCAAP](#)

Assuntos Pesquisas Coleções

tecnológicas séc saúde química
psicologia portuguesa literatura
informática informação física
engenharia desenvolvimento
ciências Teses Social Sistemas Redes
Qualidade Portugal Porto Mestrado
Mecânica História Gestão Ensino
Educação Cultura Comunicação Análise
Analysis

Certified Accessibility
aaa

MCTES
Ministério da Ciência, Tecnologia e Inovação

UMIC
Unidade de Inovação e Transferência de Tecnologia

FCCN
Fundação para a Ciência e a Tecnologia

Financiado por POS, COMUNITÁRIO, Europa

RCAAP Search Portal

- 1'261'000 Documents indexed from 93 data sources
- Data sources = Institutional Repositories (47) + Journals (44) + Data Repository (1) + Brazilian Portal (1)
- OAI-PMH harvester
- Updated daily

Resources



Directory

[All](#) [Journal](#) [Scientific Data](#) [Brazil](#) [Hospital](#) [Laboratory](#) [SARC](#) [SARI](#) [Institute](#) [University](#)

 ARCA igc repository Access to Research and Communication Annals ARCA - Access to Research and Communication Annals 86 More info	 REPOSITÓRIO INSTITUCIONAL Universidade Fernando Pessoa Repositório Institucional - Universidade Fernando Pessoa 2166 More info	 IPB INSTITUTO POLITÉCNICO DE BRAGANÇA Biblioteca Digital do IPB 5223 More info
 DigitUMa REPOSITÓRIO CIENTÍFICO DIGITAL DA UNIVERSIDADE DA MADEIRA DigitUMa - Repositório da Universidade da Madeira 230 More info	 ESTUDO GERAL REPOSITÓRIO DIGITAL DA UNIVERSIDADE DE COIMBRA Estudo Geral - Universidade de Coimbra 8405 More info	 IPL Instituto Politécnico de Leiria IC-online 459 More info
 oasis.br OASIS br 352071 More info	 ReCiL REPOSITÓRIO CIENTÍFICO LUSÓFONA ReCiL - Repositório Científico Lusófona 1858 More info	 REPOSITÓRIO ABERTO Repositório Aberto da Universidade Aberta 1059 More info
 REPOSITÓRIO ABERTO U.PORTO Repositório Aberto da Universidade do Porto 23031 More info	 Repositório Científico U. Évora Repositório Científico da Universidade de Évora 2817 More info	 centro hospitalar do Porto Repositório Científico do Centro Hospitalar do Porto 634 More info
 Repositório Científico Instituto Nacional de Saúde Repositório Científico do Instituto Nacional de Saúde 344 More info	 Instituto Politécnico de Castelo Branco Repositório Científico do Instituto Politécnico de Castelo Branco 1191 More info	 REPOSITÓRIO CIENTÍFICO DO INSTITUTO POLITÉCNICO DE LISBOA Repositório Científico do Instituto Politécnico de Lisboa 903 More info
 [IPSantarem] INSTITUTO POLITÉCNICO DE SANTARÉM Repositório	 Repositório	 Repositório Comum

Technical Info

- Also a OAI-PMH Data provider (<http://www.rcaap.pt/oai>)
- SRU Data Provider
- Full-text search (.pdf & .doc)
- Integration Bibliographic Reference Tools & Curriculum Vitae Degóis
- AAA accessibility
- Advanced Search with Filters
- RSS + Search Results RSS
- Directory of Resources
- Mysql; Solr; Term boosting via Lucene
- Validation of the aggregated contents

SARI

REPOSITORY HOSTING SERVICE

SARI (Institutional Repository Hosting Service)

- Free Hosting Service for a Dspace Repository



- Dspace 5.3 + addons (stats; portuguese help; send to curricula Degóis; OpenAIRE Projects Lists) = Dspace++
- Language: Portuguese & English

SARI (Institucional Repository Hosting Service)

- All the user interface is customized:
 - Design = Institutional Design
 - Repository Email
 - Institutional URL
- Autonomous Administration
- Free Helpdesk (Email & Phone)
- Hosting now 28 Repositories

RECIPP

Repositório Científico do
Instituto Politécnico do Porto

Pesquisa rápida



Repositório Científico do Instituto Politécnico do Porto

O Repositório Científico do Instituto Politécnico do Porto tem como objectivo principal disponibilizar toda a produção científica de docentes, investigadores e alunos do Instituto Politécnico do Porto quando possível em texto integral. A missão do Repositório Científico do Instituto Politécnico do Porto compreende-se assim entre dois factores de extrema importância, a disponibilização da informação científica e a preservação da informação digital. "Chave de Mercado": disponibilizar em livre acesso toda a produção científica do Instituto Politécnico do Porto. "Contribuição": auxiliar alunos, investigadores, docentes e público em geral na obtenção de produção científica fidedigna. "Distinção": compromisso que cada utilizador satisfaça as suas necessidades científicas.

ENTRADAS RECENTES

RSS 1.0 RSS 2.0 RSS

Qualidade do serviço e satisfação do cliente Ver

A Payshop S.A. é a empresa do grupo CTT - Correios de Portugal, Sociedade Aberta, responsável pela implantação em Portugal de um serviço que permite aos consumidores efetuar o pagamento de variados produtos utilizando para isso uma rede de estabelecimentos comerciais de proximidade ...

POLITÉCNICO DO PORTO	ESE POLITÉCNICO DO PORTO
ESEIG POLITÉCNICO DO PORTO	ESMAE POLITÉCNICO DO PORTO
ESTGF POLITÉCNICO DO PORTO	ESTSP POLITÉCNICO DO PORTO
ISCAP POLITÉCNICO DO PORTO	ISEP POLITÉCNICO DO PORTO

SHERPA/ROMEO

Carta Modelo para os Editores

Estamos no
RCAAP

Repositório Científico do Instituto Politécnico do Porto

Estatísticas

Comentários

Promotores do RCAAP:

FCT

FCCN

Financiadores do RCAAP:

GOVERNO DE PORTUGAL

MINISTÉRIO DA EDUCAÇÃO E CIÊNCIA

POS CONHECIMENTO

União Europeia FEDER

<http://recipp.ipp.pt/> & recipp@sc.ipp.pt

<http://sceur.rcaap.pt>

CENTRALIZED IR USAGE STATISTICS SERVICE (SCEUR)

SCEUR – IR Usage Statistics

- Tool that agregates Usage Statistics and allows the creation / subscription of graphic information.
- Types of events: Metadata views; Documents downloads; Metadata views + Downloads; Deposits ; Publications; Number of records
- Select one or several repositories
- Select range time; type of graphic
- Subscribe periodically to the result (sends an email periodically)

SCEUR – IR Usage Statistics

- Also a Data Provider with OAI-PMH
- Uses normalization of data (double clicks; robots;...)
- As 1 dependency: Minho Stats Addon
- Will be updated/improved second semester 2015

Centralized Service of IR Usage Stats

<http://sceur.rcaap.pt>

SCEUR workbench

Serviço Centralizado de Estatísticas de Utilização de Repositórios

os

de evento para produzir a estatística.

metadados
e Documentos
metadados + Downloads

mpo

stica

o do gráfico

Gerar gráfico





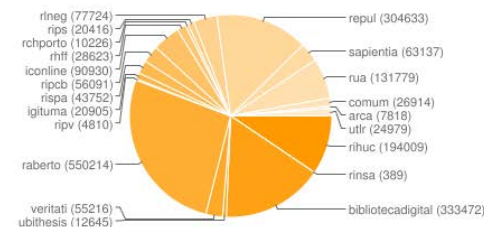
SCEUR - Dashboard Estatísticas Agregadas (2009 até agora)

Evolução dos downloads (geral)



Descarregar CSV

Total de downloads (repositório)



Descarregar CSV

<http://validador.rcaap.pt>

RCAAP VALIDATOR

RCAAP Validator

- Verify RCAAP aggregation rules (Driver guidelines)
- Queue validation
- Do a parsing of XML (OAI-PMH) and check for defined rules
- Option to check if file really exists (try to download)

<http://validador.rcaap.pt>

New Version of Validator (v.2)

- New features
 - Check a specific set
 - More validation profiles (thesis, funder, file formats – FITS)
 - Special features for DSpace platform (full-text check + FITS).

RCAAP OAI-PMH Validator

RCAAP Validator

Features

About

Contacts

Help

Português



Validador OAI-PMH

The validation of the repositories and journals OAI-PMH interface is a way to ensure the quality of this resources, ensuring interoperability with other systems and conforming to the standards.

Validate now

Features

See all the new [features](#) available in this version of the validator.

Validation Types

There are several [types of validation](#) available for different needs.



RCAAP Validator

Features

About

Contacts

Validation report

Validation request information

Resource	RepositóriUM
URL	http://repositorium.sdum.uminho.pt
OAI-PMH	http://repositorium.sdum.uminho.pt/oai/driver
Platform	DSpace
Email	jcarvalho@sdum.uminho.pt
Collection to validate	Entire repository
Verify access to full-text?	No
Validation profile	DRIVER

Statistics

Summary

No. of analysed records	21630	100%
No. of records with issues	2565	11.86%
No. of records with warnings	2565	11.86%
No. of records with errors	0	0%

dc.type

info:eu-repo/semantics/masterThesis	2218	10.25%
info:eu-repo/semantics/scientificData	10	0.05%
info:eu-repo/semantics/other	353	1.63%

VALIDATION PROCESS

| Validation Process (2 ways)

- 1 – On demand on the validator website (<http://validador.rcaap.pt>)
- 2 – Automatically by the RCAAP SEARCH PORTAL

Both using same validation mechanism & rules

Aggregation Rules

- Based on the DRIVER Guidelines (adopted by RCAAP since 2008)
- They are mandatory to be aggregated by the Search Portal

3 types of metadata validation

- 1 – The existence of a metadata element (title, author, date,...)
- 2 – The use of taxonomies (iso 639-3; DRIVER dc.types,...)
- 3 – Structure of metadata content (date, DRIVER prefix,...)

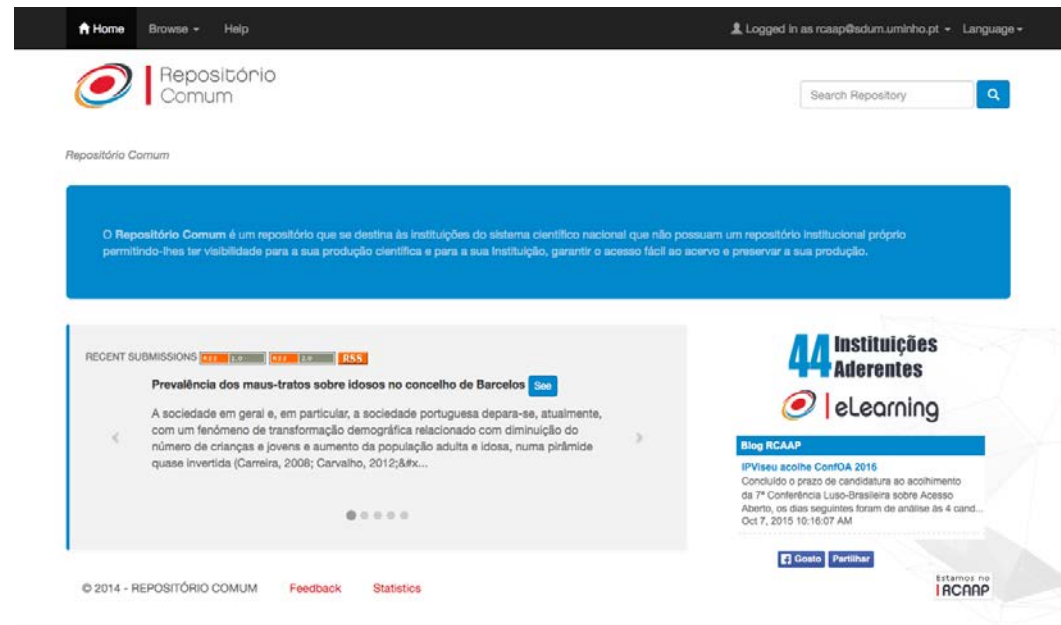
COMMON REPOSITORY

Common Repository

- 1 Repository to many institutions
- Limited Administration (Community & Collection)

- 44 Institutions

<http://comun.rcaap.pt>



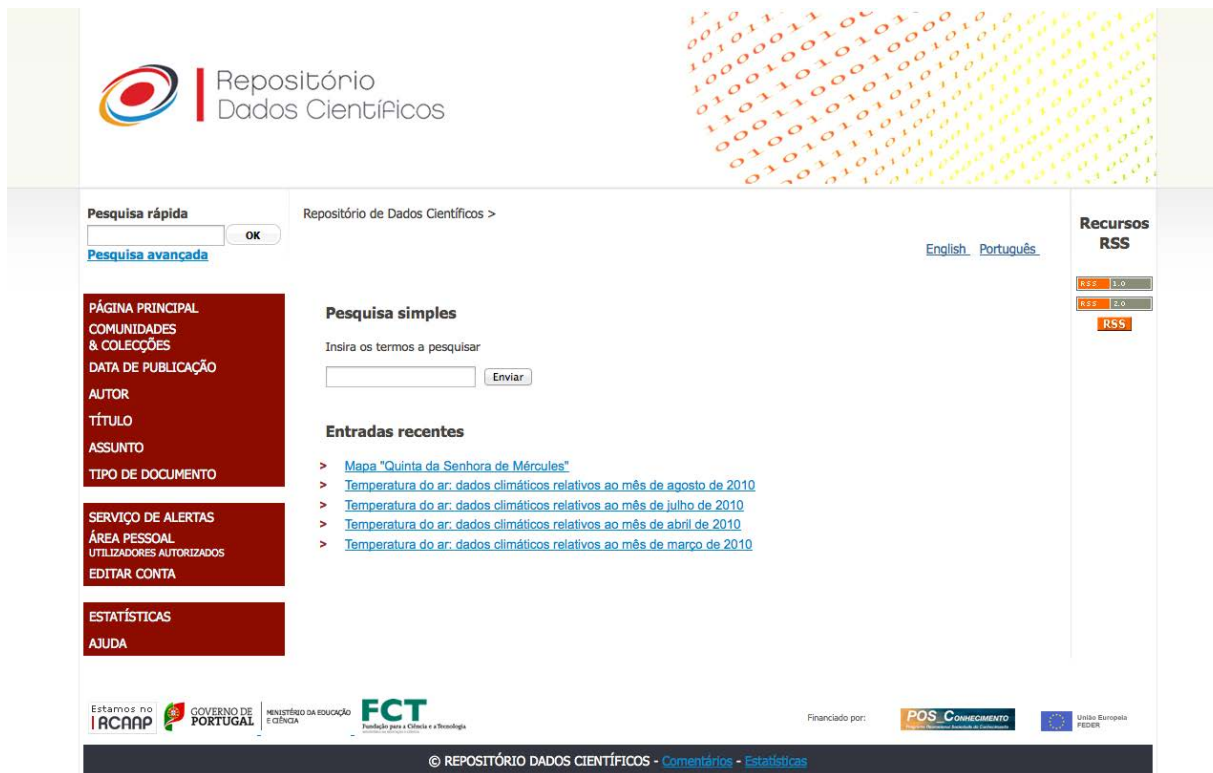
The screenshot shows the homepage of the RCAAP Common Repository. At the top, there is a navigation bar with links for Home, Browse, and Help, along with a login status and language selector. Below this is the RCAAP logo and the text 'Repositório Comum'. A search bar is located on the right. The main content area features a blue banner with a description of the repository. Below this, there is a section for 'RECENT SUBMISSIONS' with a list of items, including one titled 'Prevalência dos maus-tratos sobre idosos no concelho de Barcelos'. To the right, there is a section for '44 Instituições Aderentes' and a 'Blog RCAAP' section. The footer contains copyright information and links for Feedback and Statistics.

DATA REPOSITORY

| Data Repository

- 1st State of the Art Report
- 2nd Pilot Repository
- Using DSpace
- Metadata Formats (DDI; DC; others)
- 3 Test Communities
- Analyzing CKAN as other option

Data Repository



The screenshot displays the RCAAP Data Repository website. At the top, the RCAAP logo and name are visible. The main navigation bar includes a search section with 'Pesquisa rápida' and 'Pesquisa avançada' buttons, and a 'Repositório de Dados Científicos' link. A sidebar on the left contains links to 'PÁGINA PRINCIPAL', 'COMUNIDADES & COLEÇÕES', 'DATA DE PUBLICAÇÃO', 'AUTOR', 'TÍTULO', 'ASSUNTO', 'TIPO DE DOCUMENTO', 'SERVIÇO DE ALERTAS', 'ÁREA PESSOAL', 'UTILIZADORES AUTORIZADOS', 'EDITAR CONTA', 'ESTATÍSTICAS', and 'AJUDA'. The main content area features a 'Pesquisa simples' section with a search input field and an 'Enviar' button. Below this, there is a list of 'Entradas recentes' (Recent Entries) with links to various climate data reports. On the right side, there is a 'Recursos RSS' section with links for 'RSS 1.0' and 'RSS 2.0'. The footer contains logos for 'Estamos no ICAAP', 'GOVERNO DE PORTUGAL', 'MINISTÉRIO DA EDUCAÇÃO E CIÊNCIA', 'FCT', 'Financiado por: POS CONHECIMENTO', and 'União Europeia FEDER'. The copyright notice at the bottom reads '© REPOSITÓRIO DADOS CIENTÍFICOS - Comentários - Estatísticas'.

<http://revistas.rcaap.pt>

JOURNAL HOSTING SERVICE (SARC)

| Journal Hosting Service

- Based on Open Journal System (OJS)
- Same strategy as the Repository Hosting Service (SaaS)
- Project RCAAP manages: monitoring, backup, security, updates,...
- Presential & Online Training Sessions
- Editors helpdesk (email & phone)

| Journal Hosting Service

- Editors have total autonomy
- Personalized URL, email and layout
- Journals are aggregated at RCAAP Search Portal
- Use of DRIVER Guidelines
- Integration with IR (Sword)

Service Desk

- Helpdesk
 - Email & Phone
 - The project only supports repository managers, journal editors or integration with the services
- Used for continuous service improvement

RCAAP COMMUNITY

| Our Community

- Repository Managers (+/- 75)
- Journal Editors – (+/- 21)
- General Meetings (2x year)
- OA Conferences (every year – Portugal or Brazil)
- Distribution List
- Project Blog

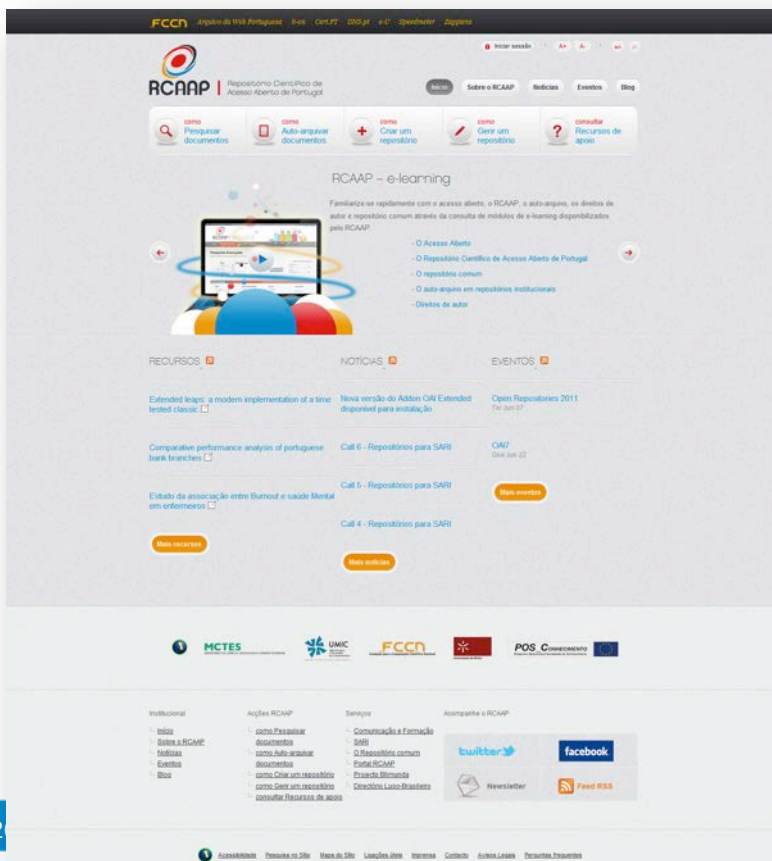
| Workgroups

- To have more participation of the community, “they” organized themselves in 3 workgroups:
 - Statistics & Metrics
 - New features
 - Dissemination

Project Website & Blog

<http://projeto.rcaap.pt>

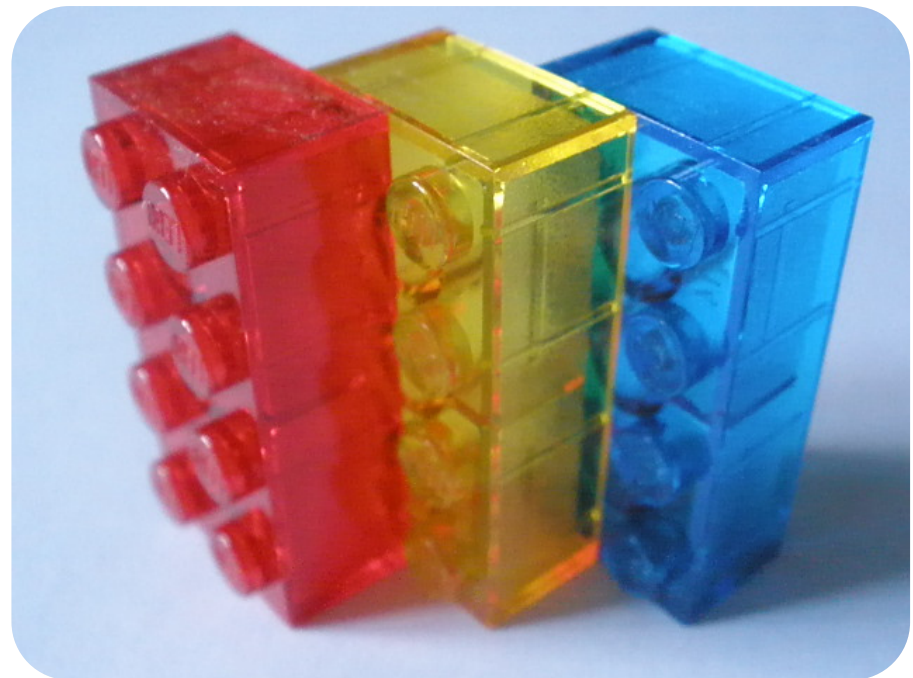
<http://blog.rcaap.pt>



RCAAP INTEROPERABILITY

Standards, Protocols, Guidelines

- OAI-PMH
- SWORD
- Dublin Core
- ETD-MS
- REST
- Z39.50
- ISO 639-3
- Prefixes – info:eu-repo
- DRIVER
- OpenAIRE



DSPACE INTEROPERABILITY

DSpace Interoperability

- OAI-PMH → Search Portal
- SWORD 1.3 → Curriculum System + Department deposits
- SWORD 2.0 → CRIS integration (ongoing)
- OAI-PMH with CTXO (usage statistics)
- Guidelines (DRIVER; OPENAIRE API)

Biblioteca Digital do IPB

A Biblioteca Digital do IPB, tem por objectivo divulgar e permitir o livre acesso à produção científica produzida pela comunidade académica, promovendo a integração, partilha e a visibilidade da informação científica e garantindo a preservação da memória intelectual do Instituto Politécnico de Bragança.

Contact
dspace@ipb.pt



WWW
<http://bibliotecadigital.ipb.pt/>
OAI
<http://bibliotecadigital.ipb.pt/oaiextended/request>
Directório Luso-Brasileiro
<http://directorio.rcaap.pt/handle/2/164>
Number of documents
5223



<http://www.rcaap.pt/repositoryInfo.jsp?id=bibliotecadigitalipb>

- Interoperability information about IR at RCAAP Search Portal
 - (Curriculum Degóis; OpenAIRE; Full-text; Driver; Funder Compliance FCT)

Sharing Bar Addon

- Share item to Social Networks
- Share item to Reference Management Tools (endnote; mendeley; bibtex)
- Sends to personal curriculum (Degóis)



(social networks itens can be configured)

DeGóis Addon

- Sends submitted item to DeGóis Curriculum Vitae System
- Repository » Degóis = Webservice
- Degóis » Repository = Sword

Describe

Describe

Describe

Upload

Verify

License

DeGóis

Complete

Fill in your data to access platform
Curriculum DeGóis

Username

Password

Scientific domain



This feature allow users to send this deposit metadata to Degóis online curriculum.

[More info...](#)



| Institutional Integrations

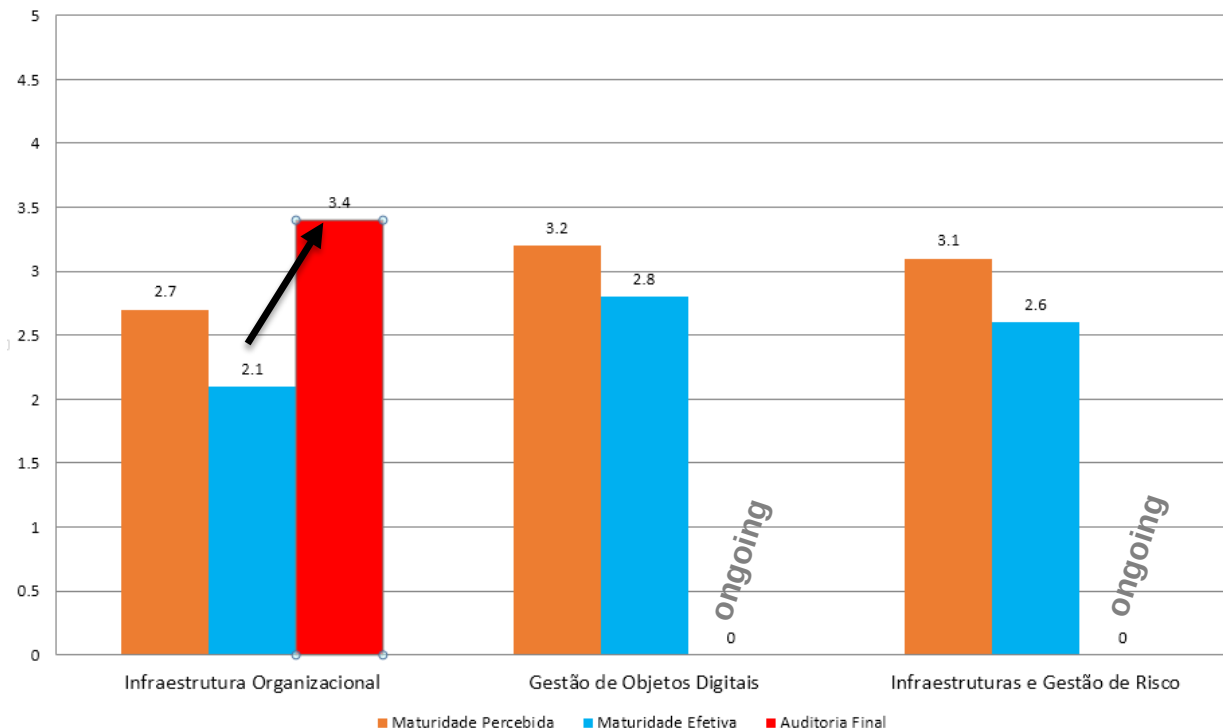
- Deposits from Departments or Schools directly to the Repository by SWORD
- CRIS → DSpace (SWORD 2.0)
- Authority Control with internal authors

After the services...

ENHANCED REPOSITORIES

ISO 16 363 Audit

- Repository Certification (Audit and certification of trustworthy digital repositories)



| Digital Preservation

- Based on the audit needs
- Integration of FITS to validate the file formats
- DSpace Addon to convert documents (on upload or existing)
- Preservation Policy and Plans defined for the Repositories

| Thesis & Dissertations

- Deposit of electronic Thesis & Dissertations is mandatory on a repository of the RCAAP Network (integrated onto the Search Portal)

National Funder - FCT

- FCT (national funder) define a mandate to deposit all funded publications on a repository of the RCAAP Network (identify & monitor funded publications)

FCT

Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR

OpenAIRE Infrastructure

- Use of OpenAIRE Infrastructure
 - Projects API
 - Text Mining

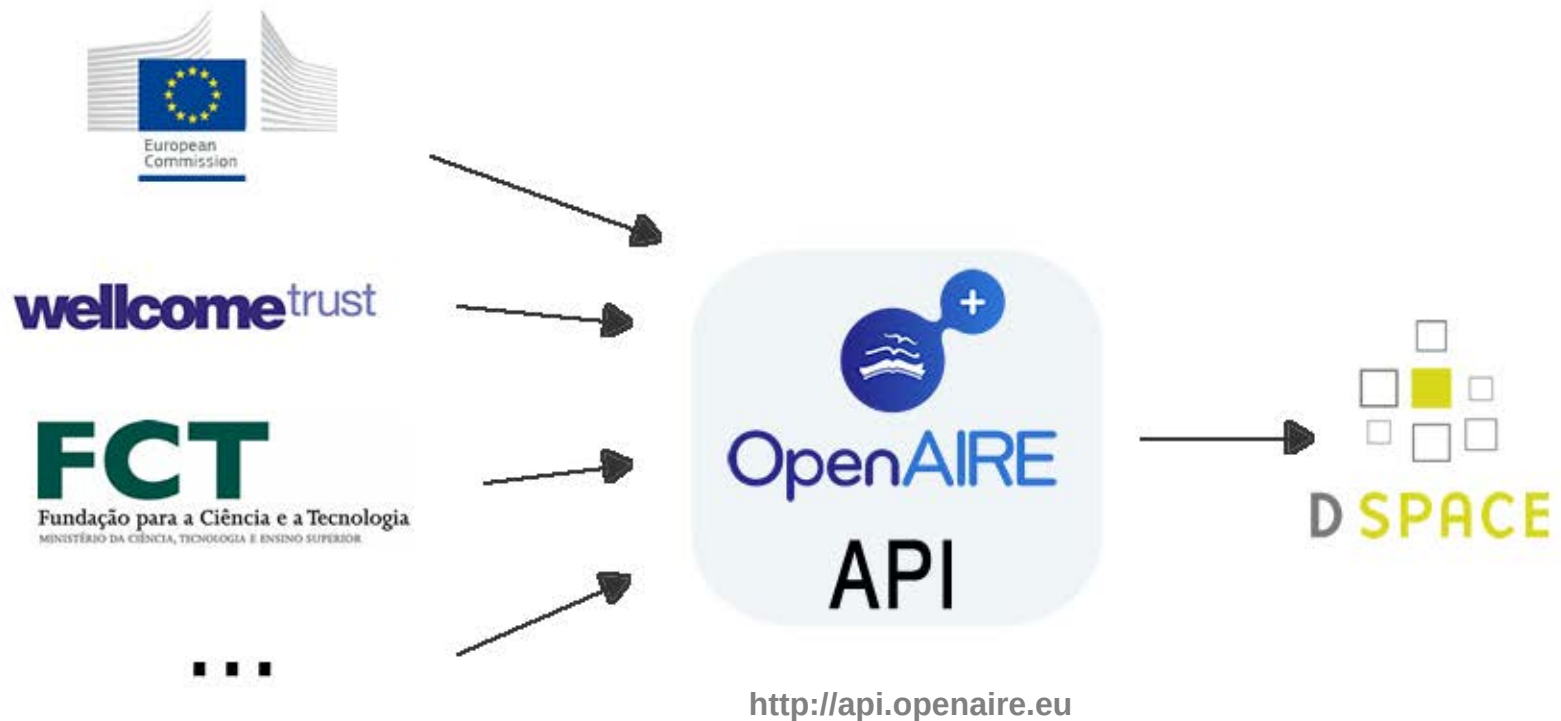


- FCT Publications on OpenAIRE Portal:
<https://goo.gl/ICjfej>

OpenAIRE Project List Addon

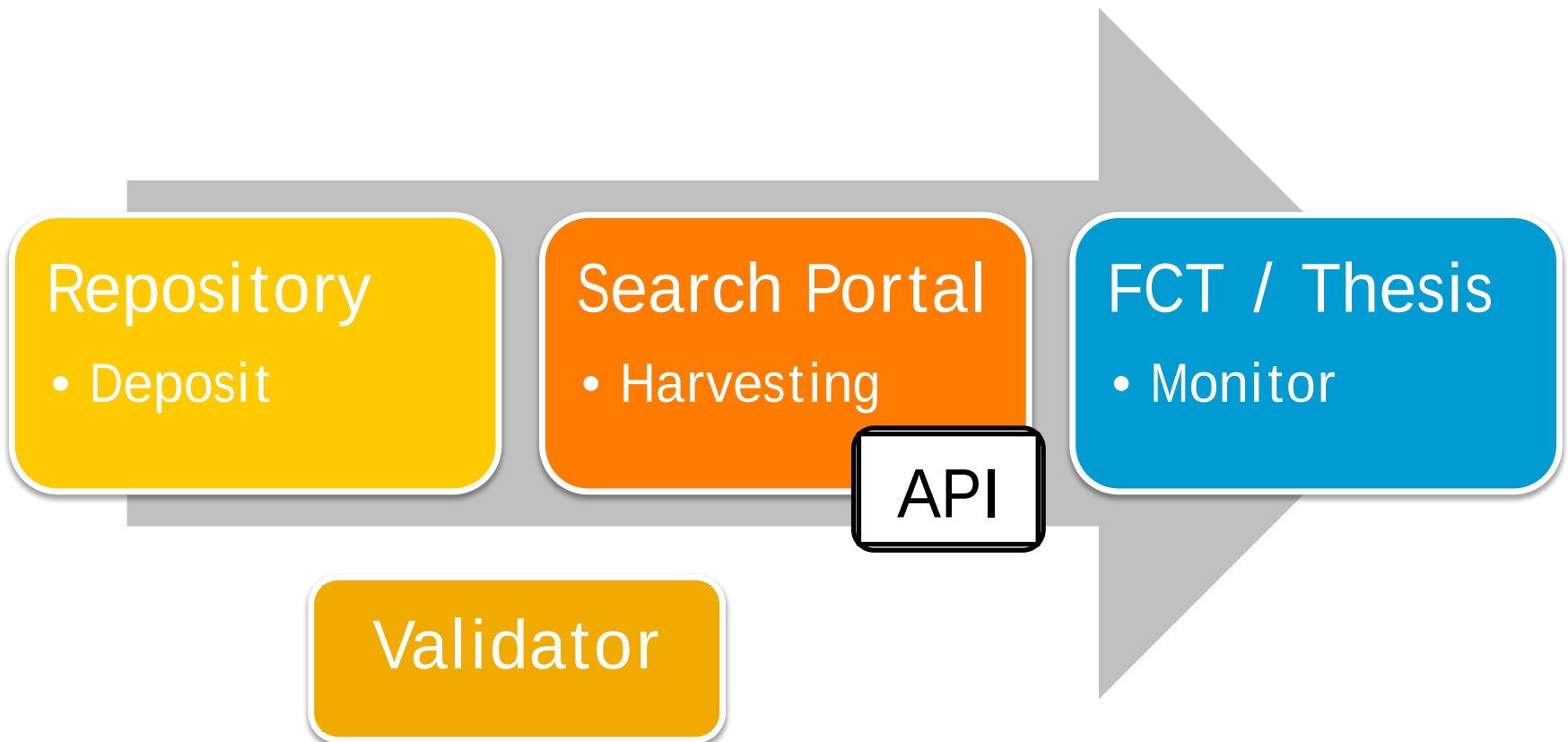
- Use of the OpenAIRE API (<http://api.openaire>)
- Addon DSpace to sync all configured funders (EU; WT; FCT)
- Available for DSpace 3.x and 5.x:
<https://gitlab.fccn.pt/dev-rcaap/addon-openaire>
Easily configurable with other funders.

Dspace Addon



SHARED FUNCTIONS

Overview of Shared Functions



PT-CRIS

- With organized repositories, we can integrate with a national eResearch infrastructure (PT-CRIS)

PTCRIS

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

FOCUS ON...

Stakeholders

Numbered by
Priority!



Levels of Analysis

Context	Portugal / RCAAP	Description
Worldwide	COAR, services ORCID, CASRAI / CERIF-XML, Brasil, CPLP	Use recommendations and services, integrate with other initiatives.
European	OpenAIRE	Repository compliance with EU and others
National	Driver Guidelines, Services	Compliance with national funders and harvesters. Create the national community of practice!
Repository	Mandates, Services for IR	Create local mandates, manage author authority, promote integrations, evaluation, reports

Success Factors

- Interoperability
 - Validator & Driver Guidelines & Standards
- Community
 - Helpdesk & Training
 - OA advocacy
 - OA Policies
- Integration
 - Repository as part of the research system

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THANKS !