

Zapping PTCRIS

CRIS 2026

*Reshaping the CRIS role in the context of AI, open infrastructures,
open source, and research evaluation*

Agenda



01

Introduction

PTCRIS UNCUT: Building a National CRIS from the Inside
PTCRIS: strategic domains and achievements

02

Connecting People, Systems and Data through PIDs in Portugal

Identifying researchers in Portugal and worldwide
Identifying where research takes place, in Portugal and worldwide
Funding Identifiers: Enabling Transparency and Impact Tracking
Research Output Identifiers: Enabling Discovery and Reuse

03

CIÊNCIAVITAE

Curriculum management within the research ecosystem

04

PTCRIS Integrations

Institutions – Use Cases (ISCTE-IUL, UCP, University of the Azores)
National Systems (RCAAP, POLEN)

05

Value-added services

Science in Numbers
Research Portal

06

Data Governance

Data governance model of the ecosystem

Introduction

PTCRIS UNCUT: Building a National CRIS from the Inside

What happened behind the scenes: the problems, key decisions and lessons learned.

João Mendes Moreira

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The Real Story.

Behind PTCRIS: constraints, breakthroughs, and the people who kept it moving.

 Act I

The Problem

 Act II

The Build

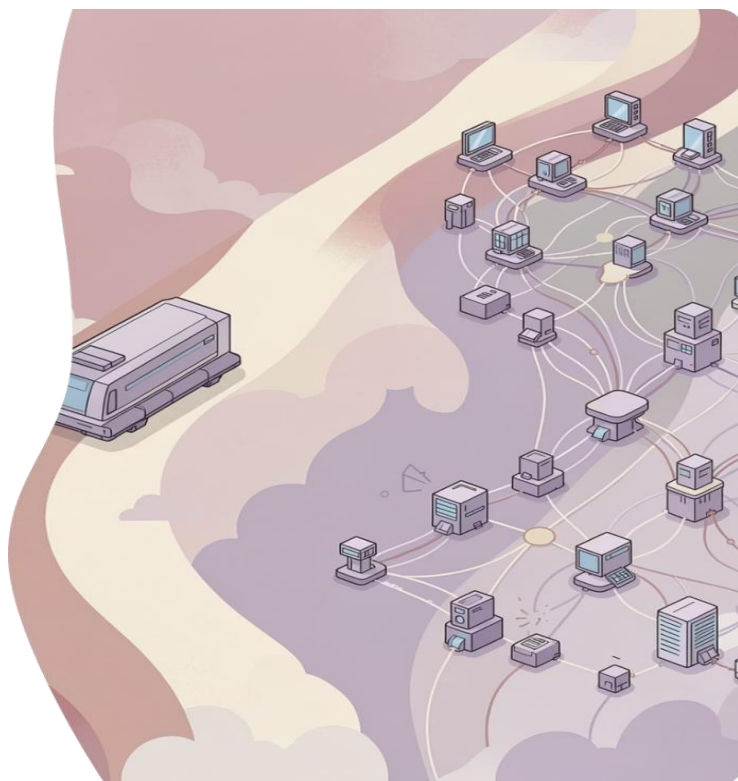
 Act III

The Unlock

 Close

Key Wins

2013. One Merger. Two recommendations. One fundamental choice.



*Economic crises FCCN -> FCT
FCT's IT was precarious
A consultancy team
7 groups of **recomendations***

Recommendation #6

Rebuild the grant management system from scratch.

Recommendation #7

Only an interoperable ecosystem could solve it.



Blessed. Broke.
Approved at the top. Barely resourced.

The ecosystem interoperability programme had political support — but almost no budget or staff.

1

Part-Time Person (me)
Core delivery headcount

0.5

Shared FTE
Shared across priorities (SC FCT)

Epiphany #1: It's the Staff, Stupid!

Hire **smart, flexible generalists** for **management and analysis**, and let **technical specialists** focus on **implementation**, maximizing productivity, satisfaction and retention.



PTCRIS spans management, analysis, and implementation.



Hire for intelligence, flexibility and trust.



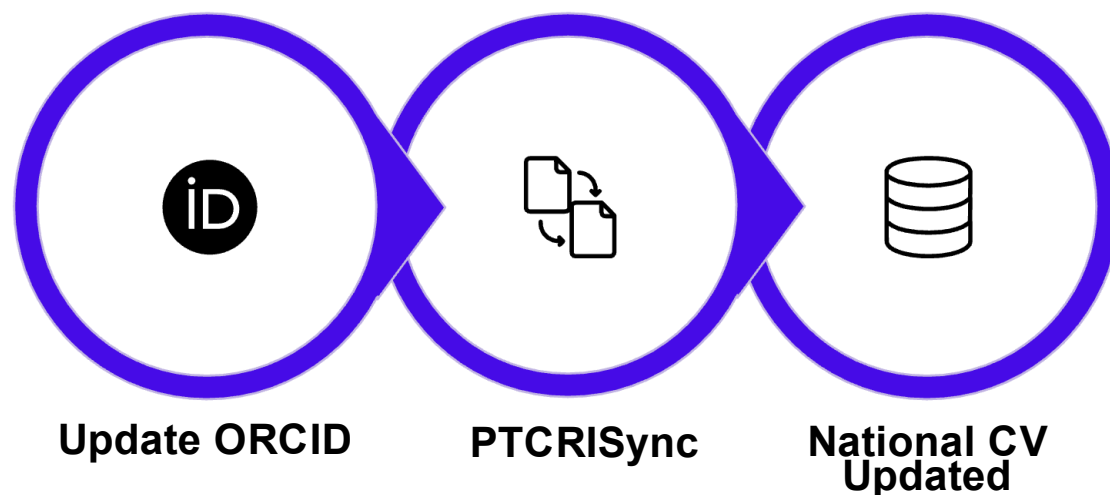
The right people will figure it out.

"I didn't need narrow specialists. I **needed the smartest people** I could find — and trust them."

"If **PTCRIS** was conceived by me, its implementation credits rests with **Cátia Laranjeira**."

Epiphany #2: Use Science to Manage Science.

Researchers shouldn't update multiple systems manually. One source, many destinations, synced automatically.



A meeting in Coimbra.
A phone call to a friend.
Two years of work.

3M+

Artifacts Synchronized
ORCID ↔ national CV

Top 3

Globally
ORCIDs per researcher

#1

ORCID Funder
DOIs + funding records

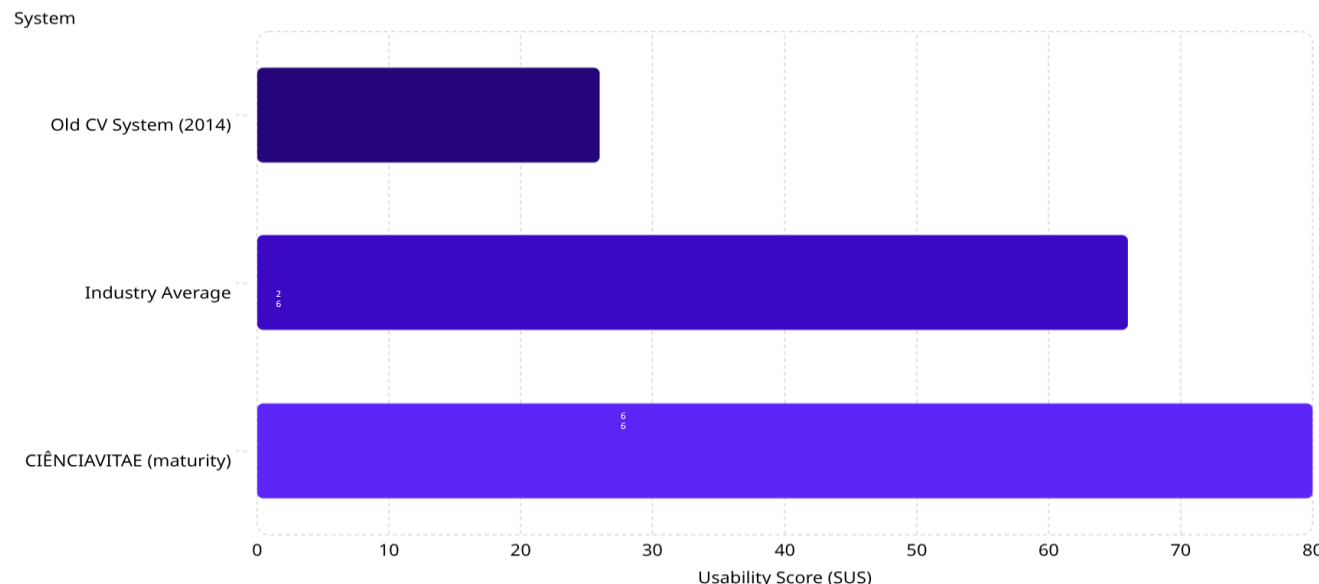
A Score of 26. Industry Average: 66.

“The uptake of the new CV is very low. Can you see what is going on?”

FCT’s Board Advisor, 2014
Joana Palha

Almost nobody could complete a basic task.

Usability testing was damning: **26 vs. 66**.
The old CV system was failing researchers.



⚠ The Hard Call

- Rebuild on open standards (ORCID + CERIF + CASRAI)
- New technology



✓ The Result — Four Years Later

- **Usability** score **80+ (2018)**
- **No news is good news!** (No complaints at launch)
- Credits: **Pedro Lopes** (tech lead) and **Bruno Monteiro** (UX/UI)

Funding: Five Years. One Database. 100+ Sources.

100+ fragmented databases

Misaligned. Inconsistent.
Isolated. Different formats.

Consolidation effort — 5 years

Alignment, data cleaning,
governance, trust-building.

SciPROJ — National Funding Registry

One live national registry.



5M+ API calls per year

National funding registry — live and operational.

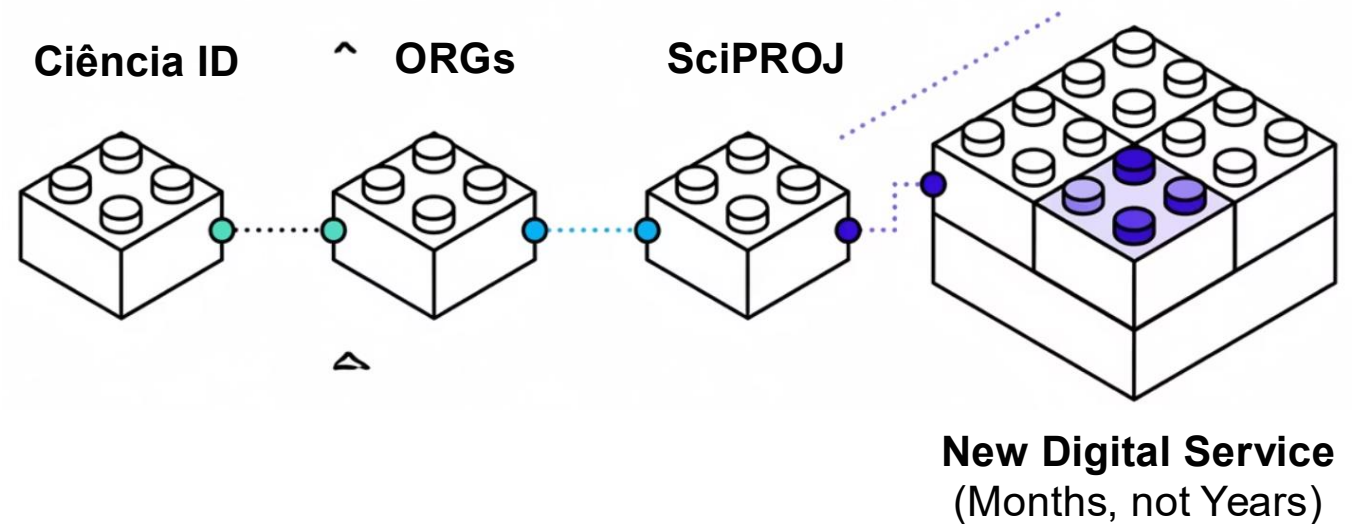
COMMITMENT · DEDICATION · PERSEVERANCE

Build Once. Reuse Fast. Compound Quietly.

Foundational infrastructure takes time to build, but once in place, it can be reused to deliver new services fast.

Years of design and hardening went into each layer.

The payoff came later: **heavy lift first, speed later.**



From Plumbing to Value.

By 2021, the pillars were solid. The team shifted from infrastructure to insight.



Science in Numbers

Funding, outputs, monitoring.

Research Portal

One gateway for research information.

CLOSE

It Takes a Community to Build a Country's Memory.

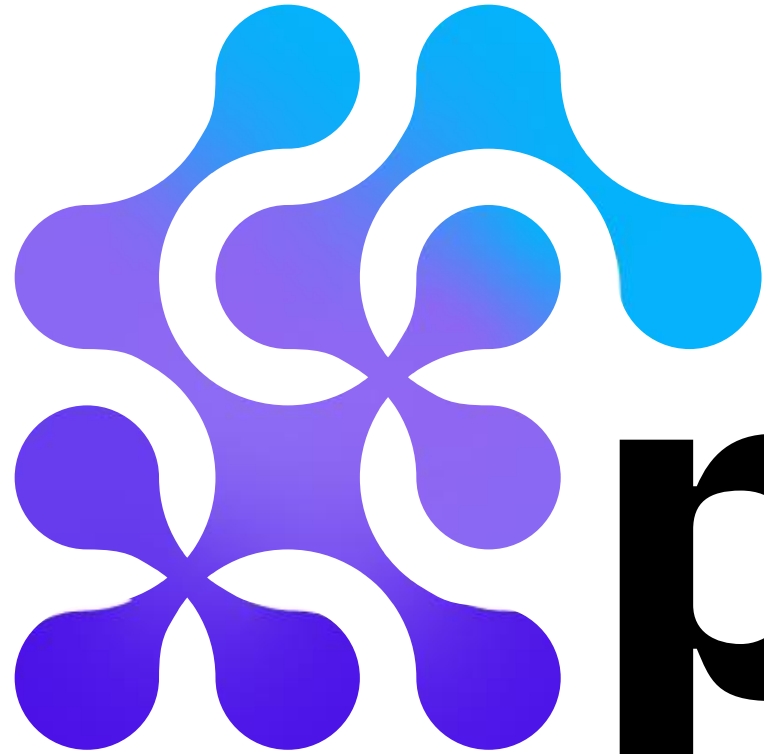
PTCRIS exists because people trusted it before it could prove itself.

✓ **It's possible. It's hard. It's worth it.**

João Nuno Ferreira:
Trust

Cátia Laranjeira and Team:
commitment

Inst. Research managers:
belief and support



fct

ptcris

Every CRIS has a story, this is ours!

Introduction

PTCRIS | Strategic domains and achievements

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*Developing an
integrated research
information
ecosystem in Portugal*



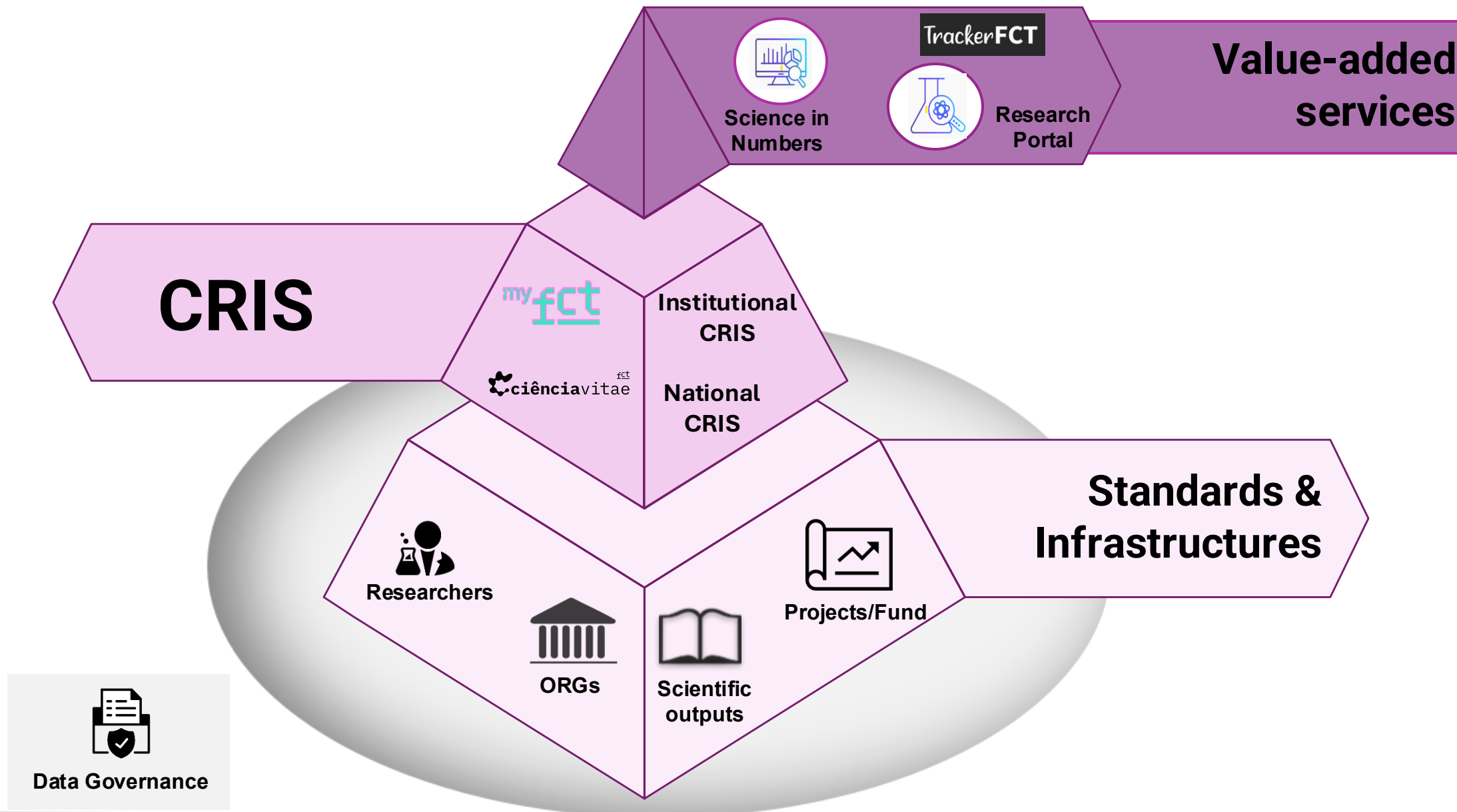
Administrative
simplification

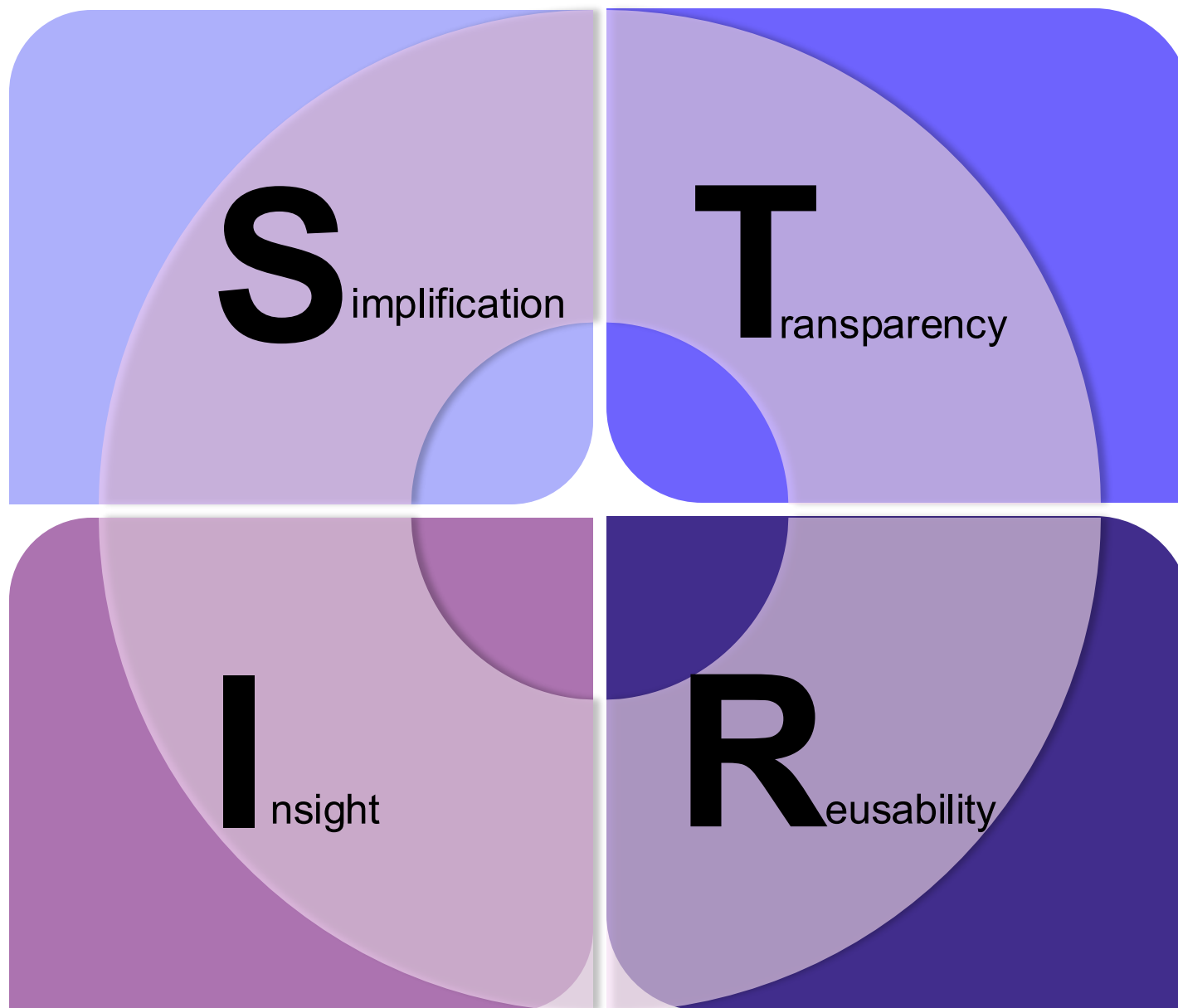


Reliable
Data



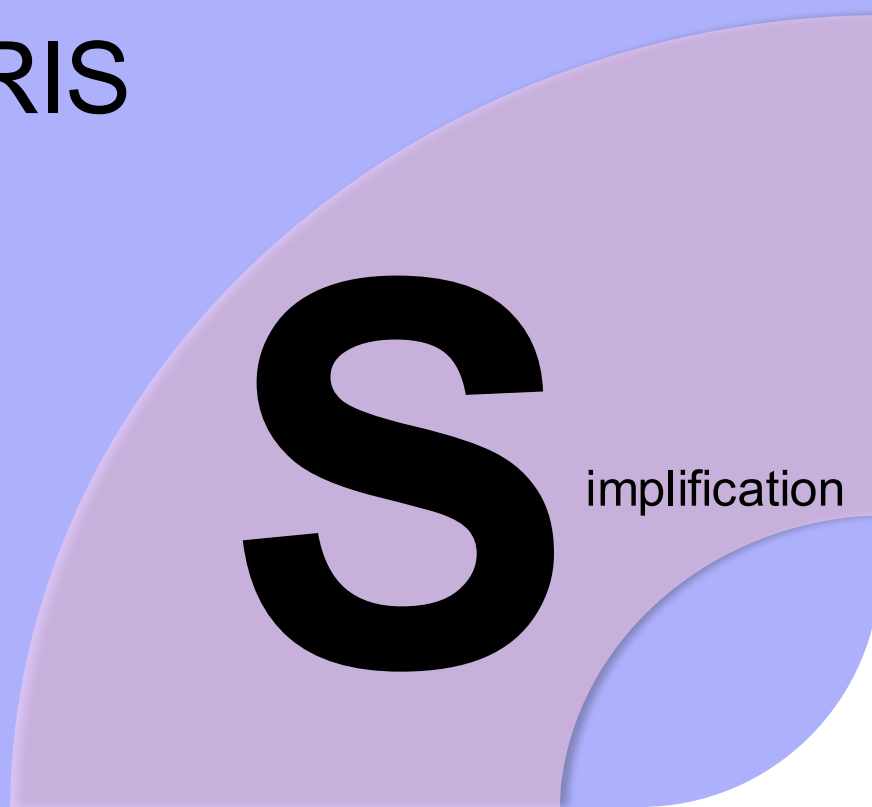
Increased
transparency





Register once, reuse multiple times

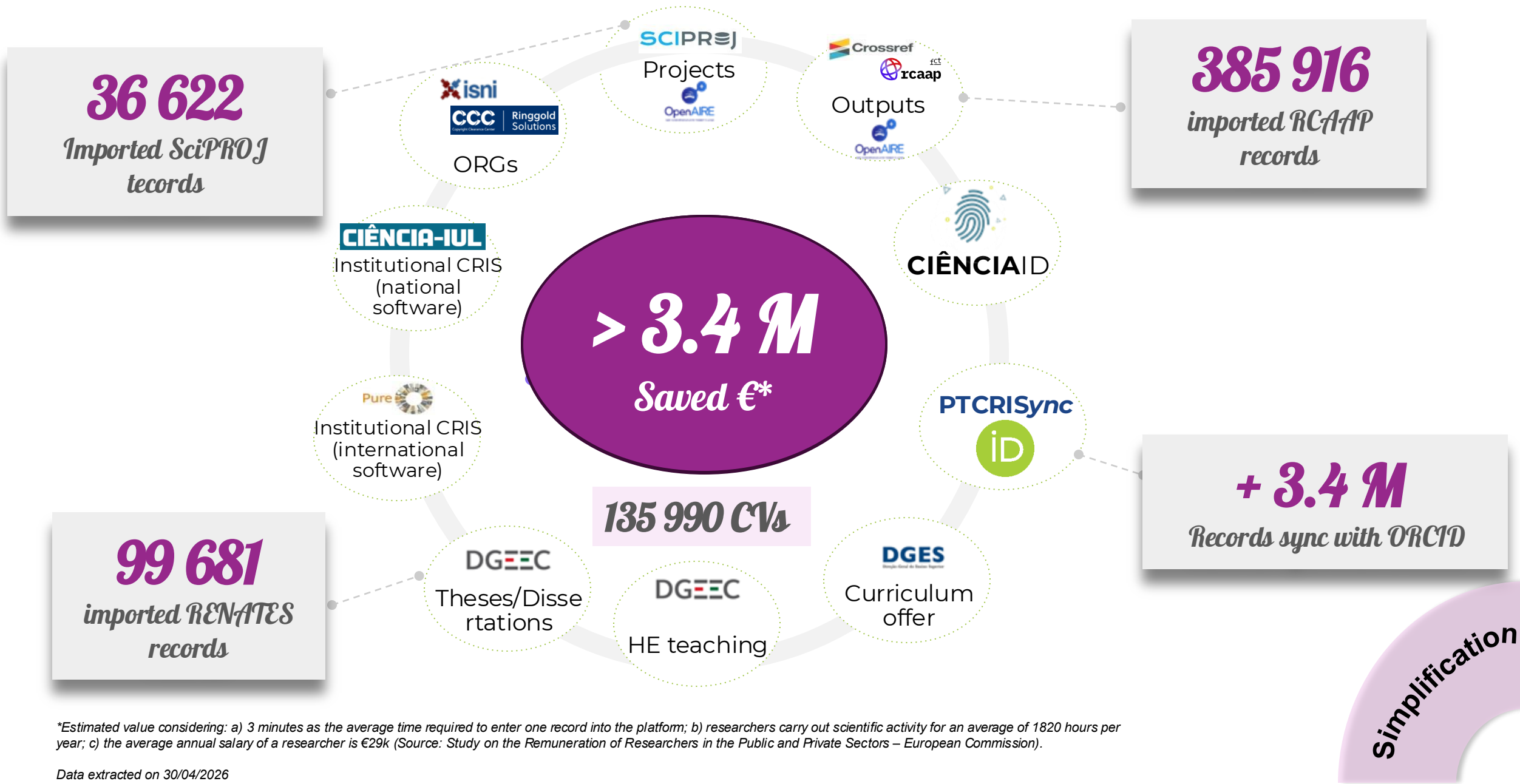
Simplifying the management of
research information through PTCRIS
interoperability mechanisms

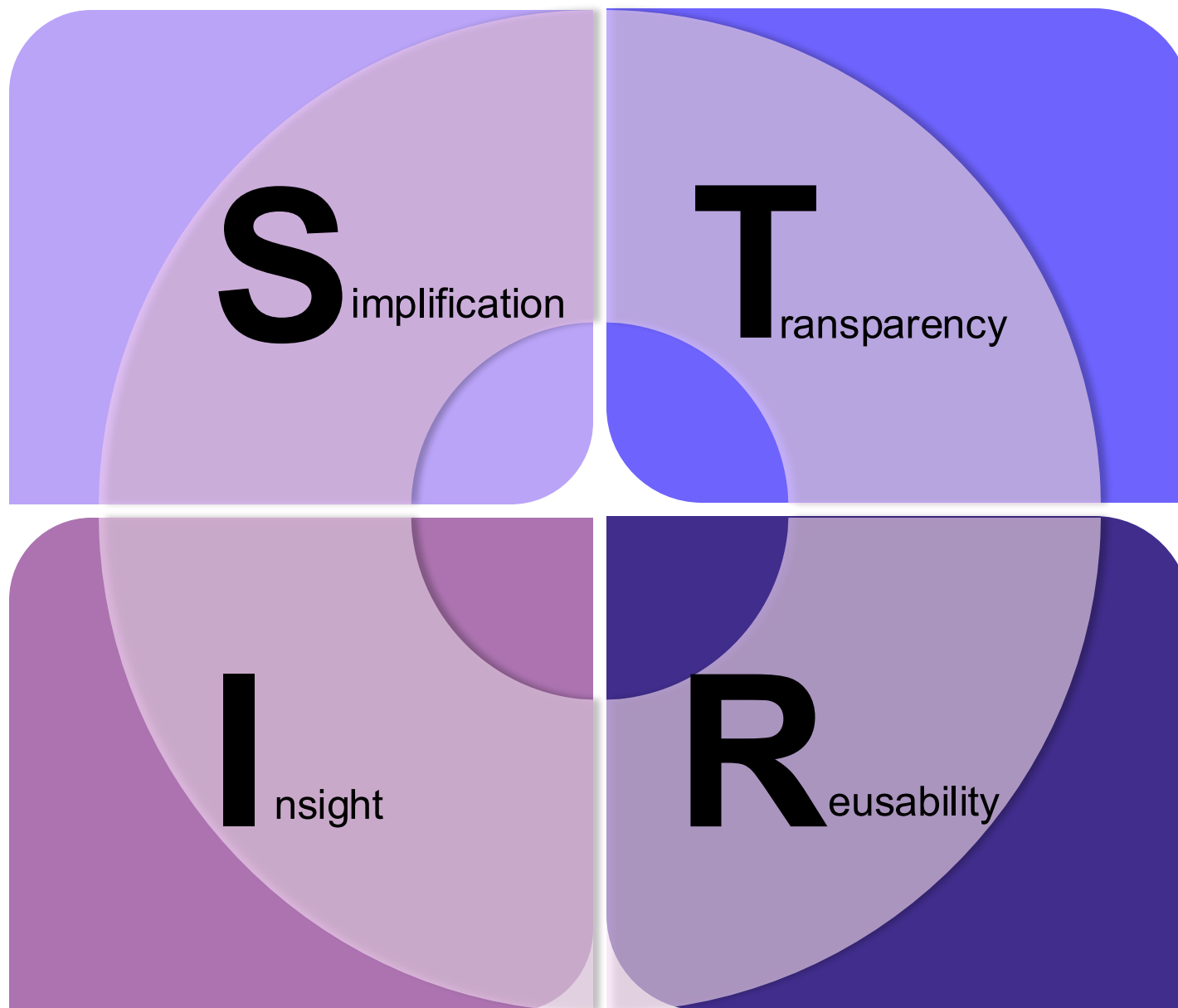


S

simplification

CIÊNCIAVITAE: interoperable CV





Understanding investment in science

Access to data on the funding that supports research activity in Portugal through the SciPROJ Portal

T

ransparency

Portal SciPROJ

Access the national information on scientific and technological funding in Portugal

[Home](#) [About SciPROJ](#) [Technical Document](#)



SCIPROJ PORTAL

Discover the science and technology activities funded in Portugal

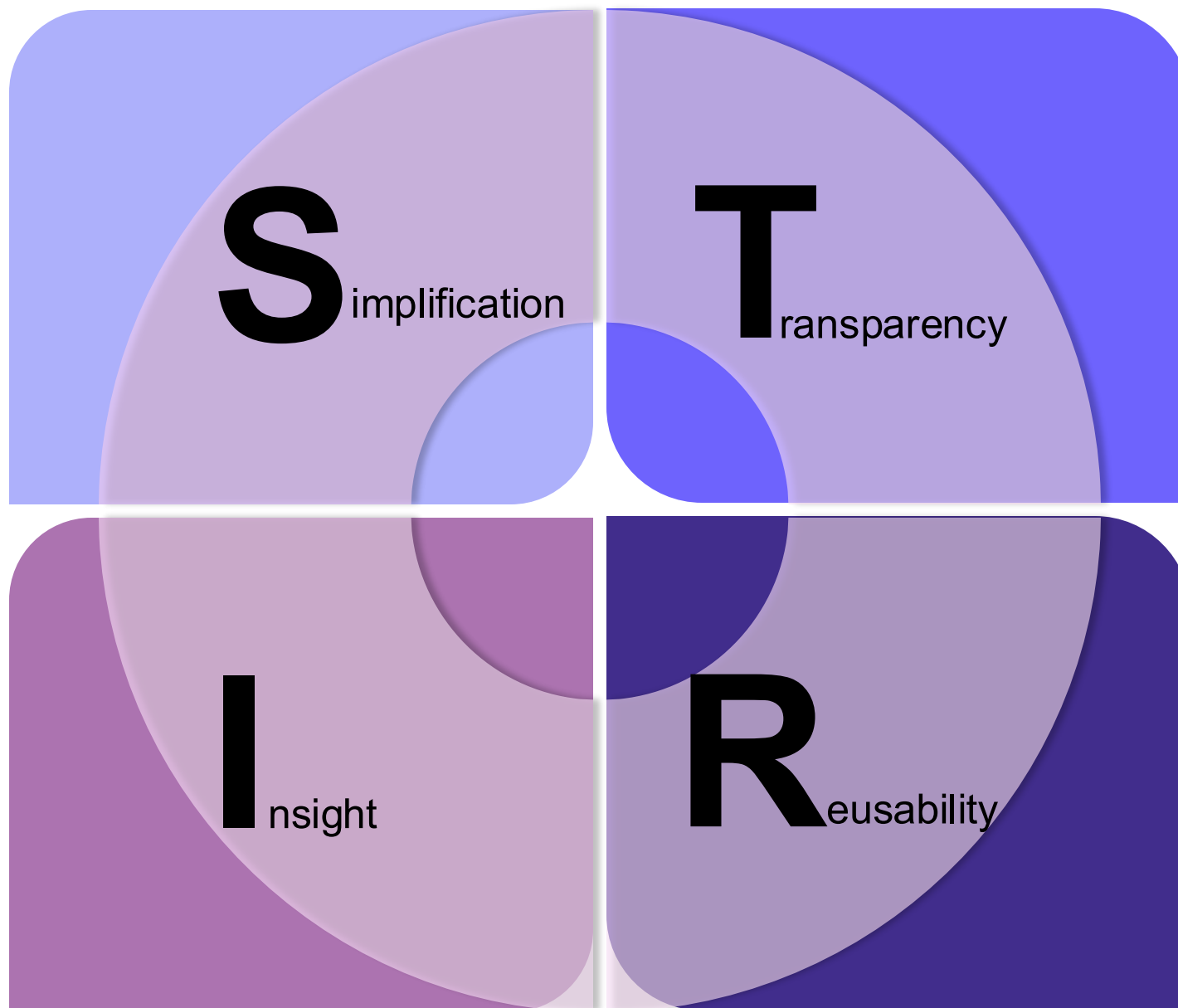


[Advanced Search](#)

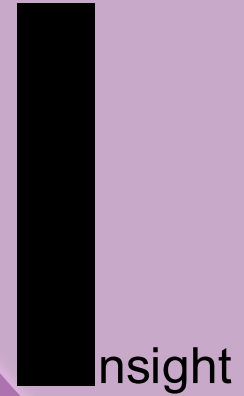
The SciPROJ Portal is co-funded by:



Transparency



From data to insight



Providing a consolidated, data-driven view of
research activity through trusted and
interoperable data



Financiamento

Tipo de Financiamento ⚠

☐ Distribuição Linear

☐ Concedido

Número



Montante

Ano de Financiamento ⓘ

2015

2025

Palavras-Chave ⓘ

Tudo

Tópicos

Tudo

Entidade Gestora do Financiamento

Tudo

Insight

Global

FCT

Tópicos

Instituições

Atividades
Financiadas
45 K

Montante
Financiado
21,91 bn€

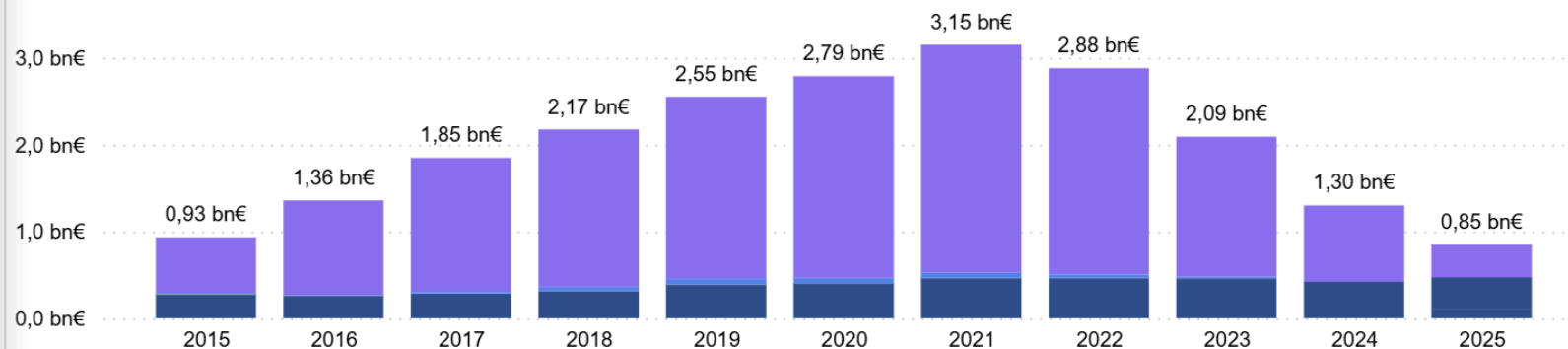
Instituições
Envolvidas
17 K

Investigadores
Envolvidos
108 K

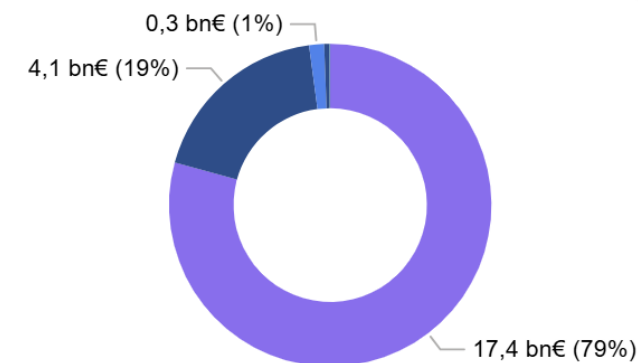
Evolução Anual ⓘ

ND - 3 bn €

Entidade Gestora do Financiamento ● EMRP ● FCT ● PT2020 ● QREN ● UE

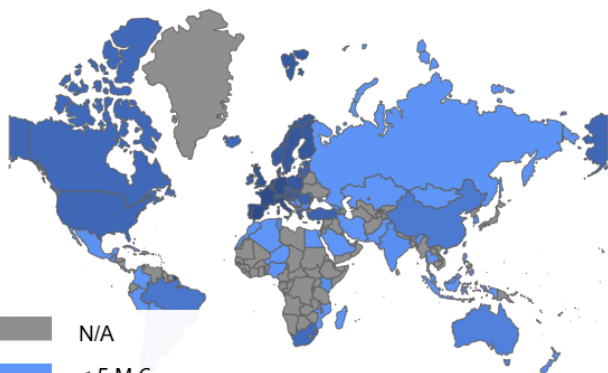


Entidade Gestora de Financiamento



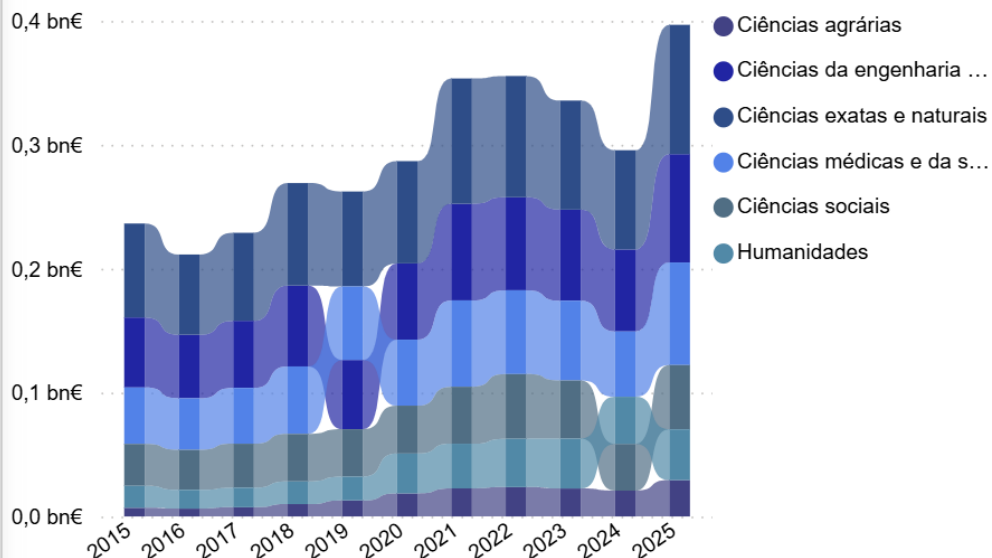
Distribuição Internacional

ND - 17,75 bn€

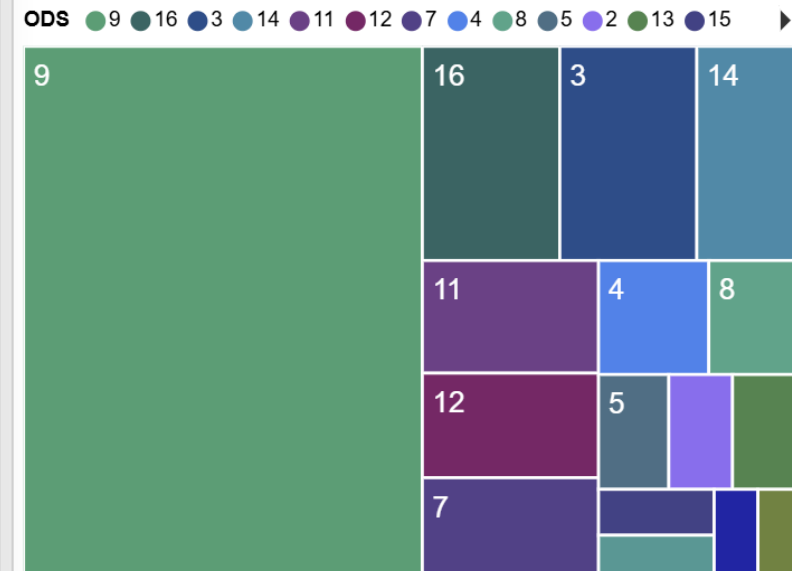


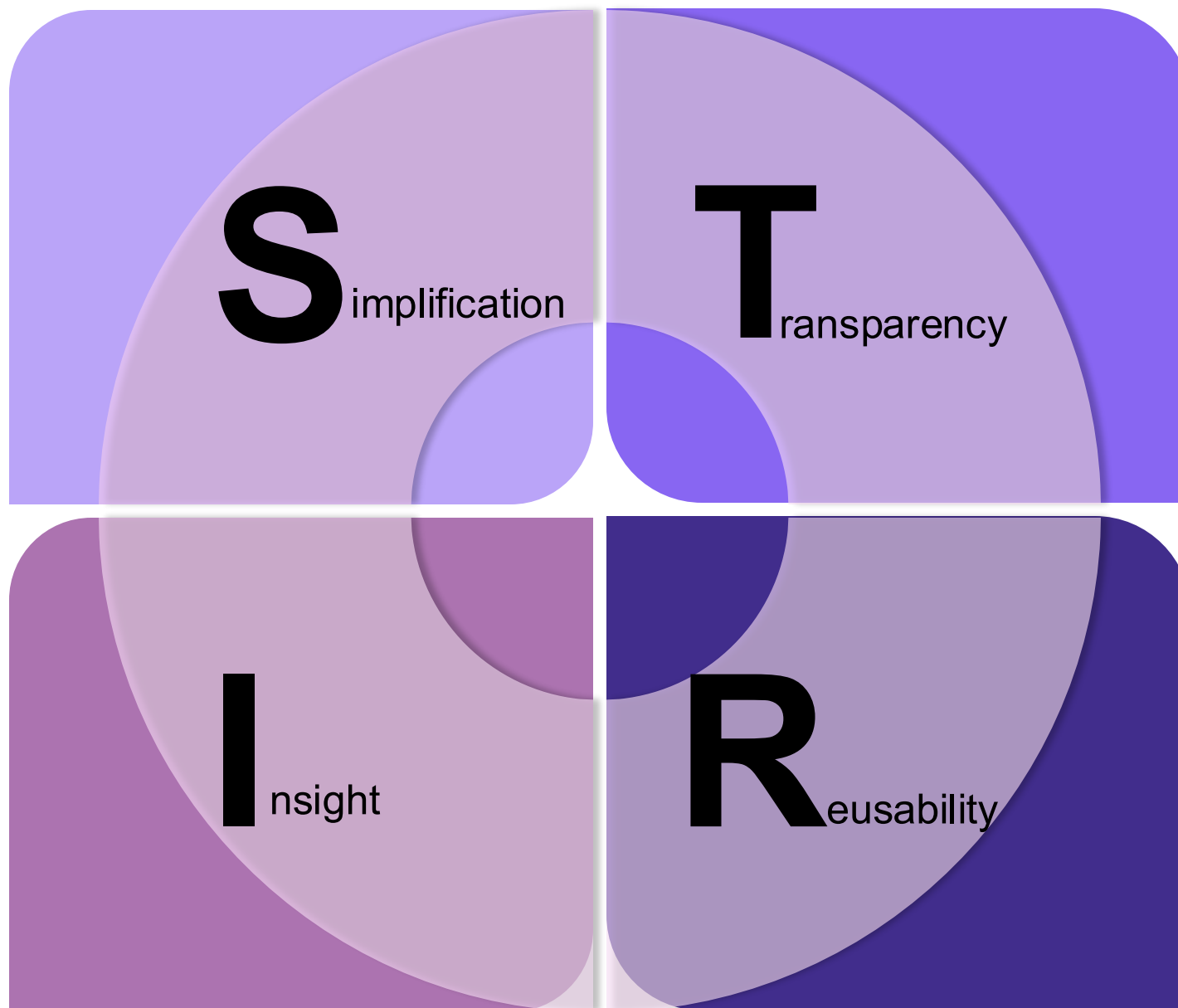
Domínios Científicos (Grandes Áreas) ▾

ND - 18,68 bn€



Objectivos Desenvolvimento Sustentável ⓘ





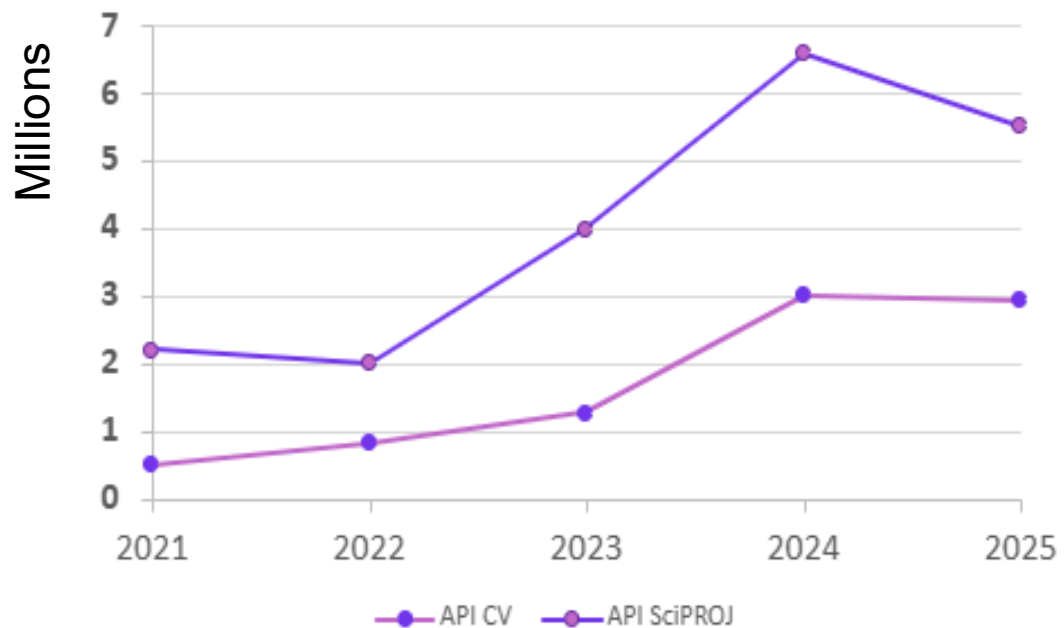


Information that creates value

PTCRIS promotes the reuse of
information, reducing redundancies and
improving data quality across the
scientific ecosystem

Reusability

Access via API



>5M

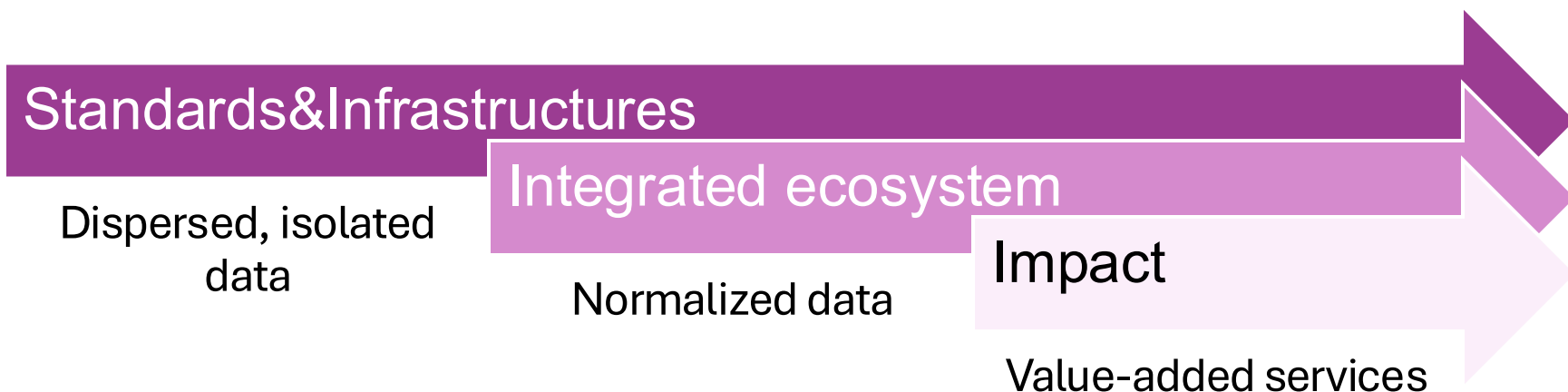


>2.9M



Infrastructure with impact

Transforming science management with PTCRIS



What PTCRIS enables



Monitoring

Identifying trends,
assessing impact



Transparency

Building trust, facilitating
collaboration



Informed decision-making

Evidence-based strategies

Thank you!

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Connecting People, Systems and Data through PIDs

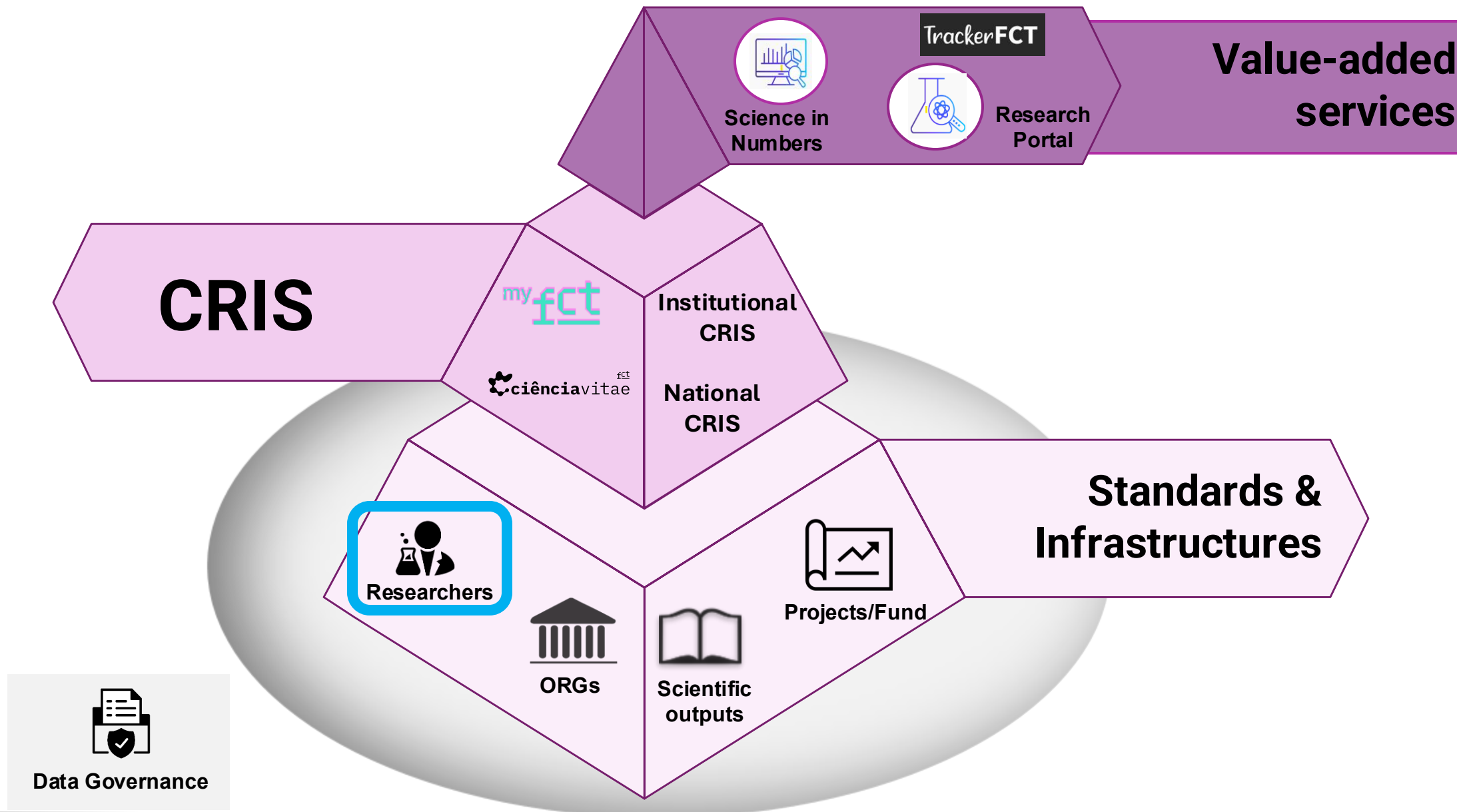
Identifying researchers in Portugal and worldwide

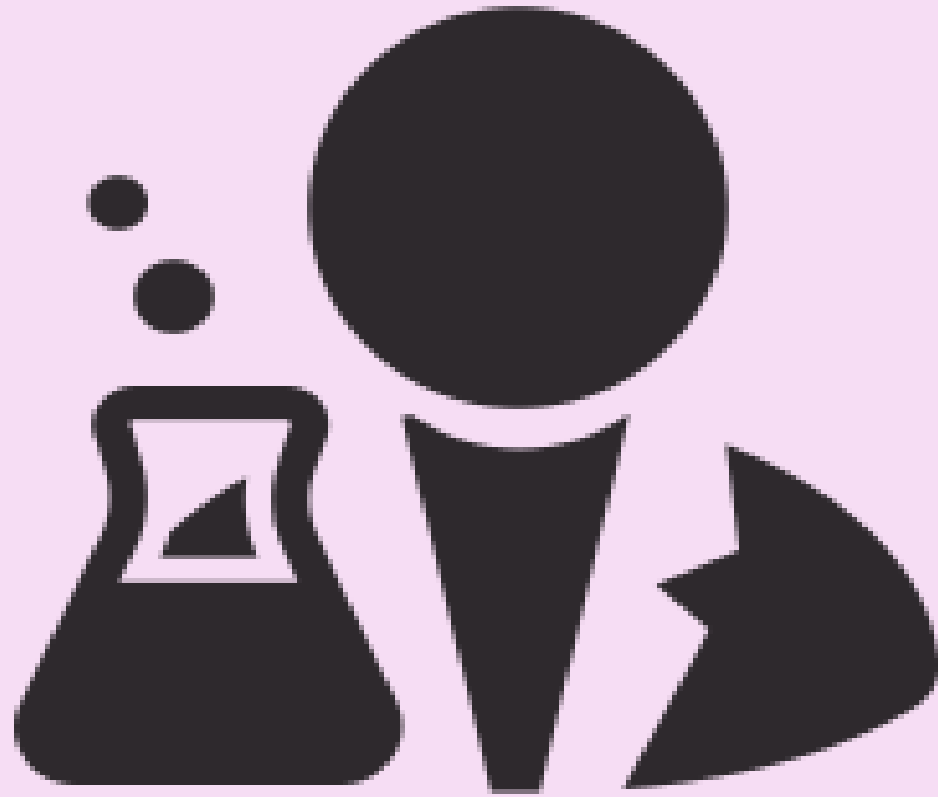
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 [0000-0002-9081-2728](https://www.researcherid.org/profile/0000-0002-9081-2728)





Researchers

PIDs for researchers | **CIÊNCIA ID+**

CIÊNCIA ID +



A unique and permanente digital identifier that allows for the univocal recognition of those involved in research activities in Portugal



PIDs for researchers | CIÊNCIA ID+



PIDs for researchers | CIÊNCIA ID+





Registration

It is recommended to use the Digital Mobile Key, Citizen Card or European Authentication to start registration. Personal data is automatically filled with the AUTENTICAÇÃO.GOV information.

If you use your institutional account or ORCID, this account will be automatically linked with your CIÊNCIA ID. In the registration process, some of your personal details are also automatically filled in with the information provided by your institution or ORCID.

Alternatively, you can use your email address and manually fill your personal data.

 Using Citizen Card or Digital Mobile Key.

 Using your institutional account (RCTSai)

 Using European Authentication

 Using your ORCID account

or





MY CIÊNCIA ID

Account data | Personal data

Account data

Data related to access to your CIÊNCIA ID, namely, username and password.

CIÊNCIA ID
3415-1354-5489 [Browse CIÊNCIAVITAE](#)

Password

In the preferred language, choose your preferred language for the Science ID interface.

Linked accounts

[+ Link RCTSai](#)

ORCID

 0000-0003-3952-8294 Access granted on 18-11-2020 

CIÊNCIA ID+ @ CIÊNCIAVITAE



 **CIÊNCIAVITAE**

CÁTIA LARANJEIRA published **CIÊNCIAVITAE**



[IDENTIFICATION](#) [EDUCATION](#) [AFFILIATION](#) [PROJECTS](#) [OUTPUTS](#) [ACTIVITIES](#) [DISTINCTIONS](#)

[Personal information](#) [Contacts](#) [Knowledge fields](#) [Languages](#) [Resume](#)

Personal information



Full name

CÁTIA SUSANA TORRES LARANJEIRA

Date of birth

1979/08/20

Sex

Female

Ciência ID

3415-1354-5489

EDIT

ADD



Import wizard

	ORCID	Outputs and projects. <i>Synchronize data between your CV and ORCID. This is a bi-directional synchronization that by default remains active. To disable it click Settings.</i>	✓	SYNCHRONIZE DATA
	RCAAP	Scientific Open Access Repositories of Portugal <i>List of publications deposited in the repository. The import wizard will always be available from your CV.</i>	✓	IMPORT DATA
	SCIPROJ	R&D Projects <i>List of research projects carried out in Portugal. The import wizard will always be available from your CV.</i>	✓	IMPORT DATA
	PRIES	National register of teaching staff <i>List of teaching and academic activities in PRIES. The import wizard will always be available from your CV.</i>	✓	IMPORT DATA
	RENATES	National register of theses and dissertations <i>List of theses, dissertations, participation in juries and supervisions in RENATES. The import wizard will always be available from your CV.</i>	✓	IMPORT DATA

Connecting People, Systems and Data through PIDs

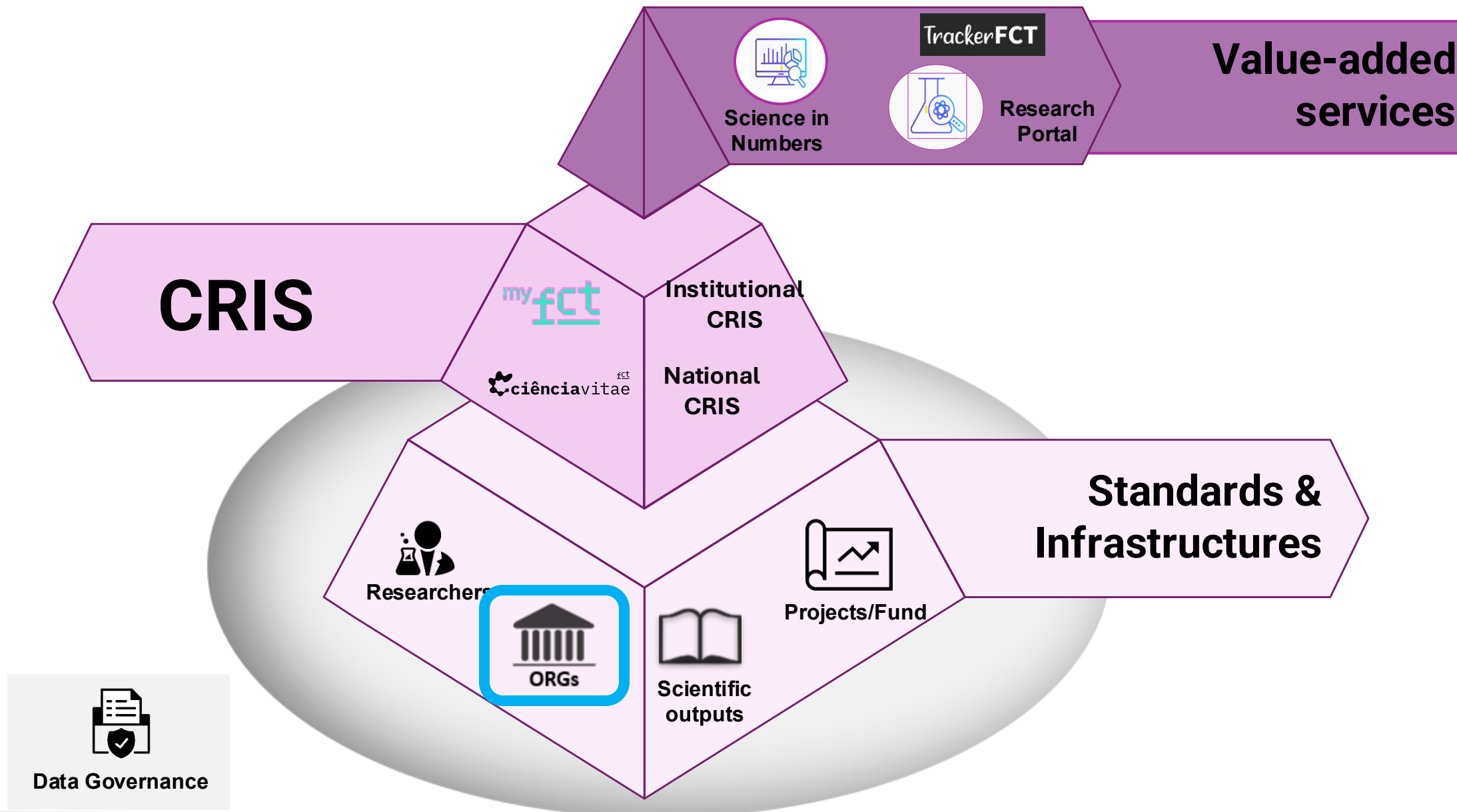
Identifying **where** research takes place, in Portugal and worldwide

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ORGs



Identifying
where research
takes place, in
Portugal and
worldwide

*IADE Faculty of Design Technology and Communication
European University*



DGEEC ID 904

FCT ID 124

Why organisational identifiers are critical

Scientific affiliations

Linking organisations to people, research outputs and funding

Institutional indicators

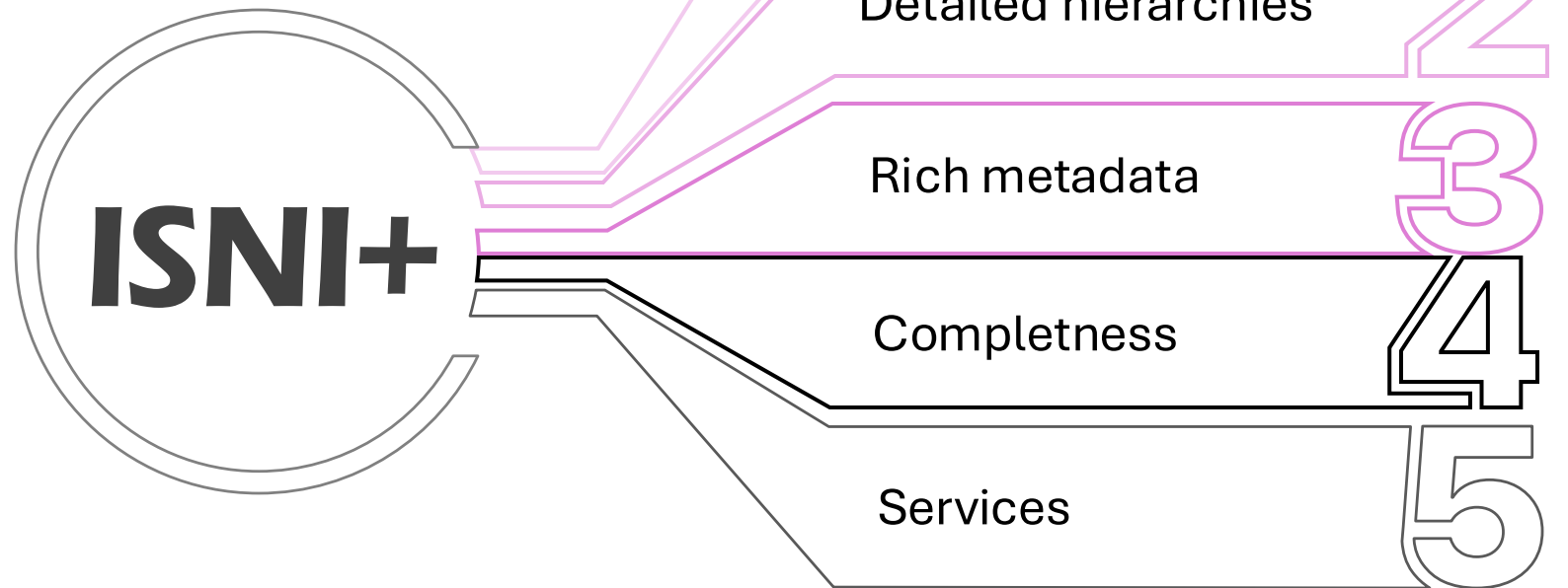
Comparable and auditable metrics

Interoperability

Reliable communication between
national and international systems



Identifying
where research
takes place, in
Portugal and
worldwide



3 617
PT S&T ORGs

91%
HEI & RPO

~60%
CV e SciPROJ

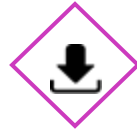


Identifying
where research
takes place, in
Portugal and
worldwide

Adoption support services



Reconciliation service



Access to an updated ORGs DB



ORGs search API

The screenshot shows the 'Percorso professionale' (Professional Path) section of the CiênciaVitaE website. The header is green with the 'ciênciavitaE' logo and the user 'CÁTIA LARANJEIRA' logged in. A yellow navigation bar contains links: INÍCIO, IDENTIFICAÇÃO, FORMAÇÃO, PERCURSO PROFISSIONAL (active), PROJETOS, PRODUÇÕES, ATIVIDADES, DISTINÇÕES, and NARRATIVO. The main content area is titled 'Percorso profissional' and features a form for 'Informação geral *'. The form includes a 'Tipo *' dropdown menu, an 'Empregador *' text input field with a help icon, and a 'Vínculo profissional *' dropdown menu. A note below the employer field states: 'Digite e selecione uma instituição ou organização (ex: Universidade do Porto Faculdade de Ciências)'.



Identifying
where research
takes place, in
Portugal and
worldwide

Transition Plan ISNI+**2**ROR



Programa Nacional de Ciência Aberta
e Dados Abertos de Investigação

Anexo Técnico

**WP4.3.2 - Serviços de Identificadores
(Plano de Transição ISNI+2-ROR)**



ROR adoption
in PTCRIS
ecosystem

1. Diagnostic study

Analysis of the representativeness of Portuguese organisations in ROR, including the mapping of gaps and inconsistencies

7% ORGs with ROR

180 Records with
metadata
inconsistencies



Links Web

⚠ Domain
inconsistencies



Geolocalization

⚠ Incorrect spatial
data



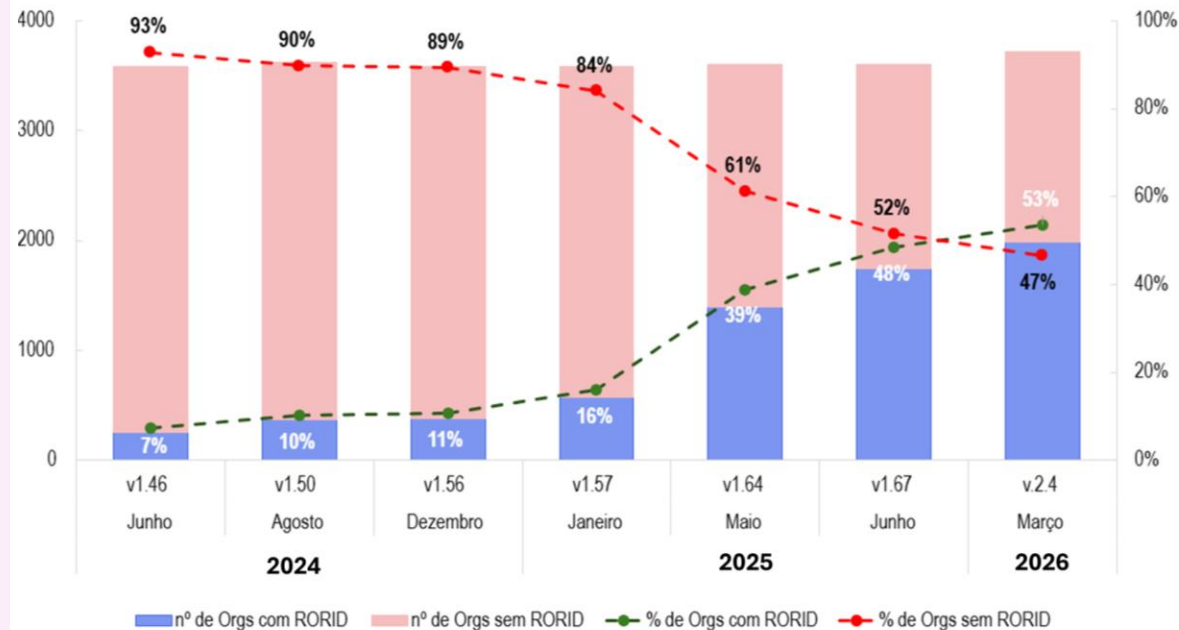
Institutional Hierarchies

⚠ Lack of or incorrect
hierarchical relations



ROR adoption in PTCRIS ecosystem

2. Monitoring & Curation



Results

Consistent growth

Progressive increase in organisations with a ROR identifier

International alignment

Portugal aligned with global best practices for organizational identification



ROR adoption in PTCRIS ecosystem

Challenges & Mitigation

⚠️ Incomplete Coverage

Many Portuguese organisations still without a ROR ID, posing a risk of reporting gaps

⚠️ Metadata Quality

Inconsistencies hinder automatic matching and aggregation

⚠️ Missing hierarchies

Faculties cannot be registered as they fall outside the current scope

✅ Active curation of PT ORGs

PTCRIS assumes
the role of
national curator
within the ROR
registry



ROR adoption in PTCRIS ecosystem

3. Progressive Adoption

Secure and phased integration of ROR within the PTCRIS ecosystem



Controlled hybrid phase

Coexistence of legacy identifiers and ROR during the transition period



Identifiers Bridge API

Service for mapping organisational identifiers, supporting the ISNI-ROR hybrid phase



Progressive integration

Gradual adoption across PTCRIS services, with validation at each stage



SciPROJ

ROR as the identifier for organisations participating in research activities

Thank you!

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Connecting People, Systems and Data through PIDs

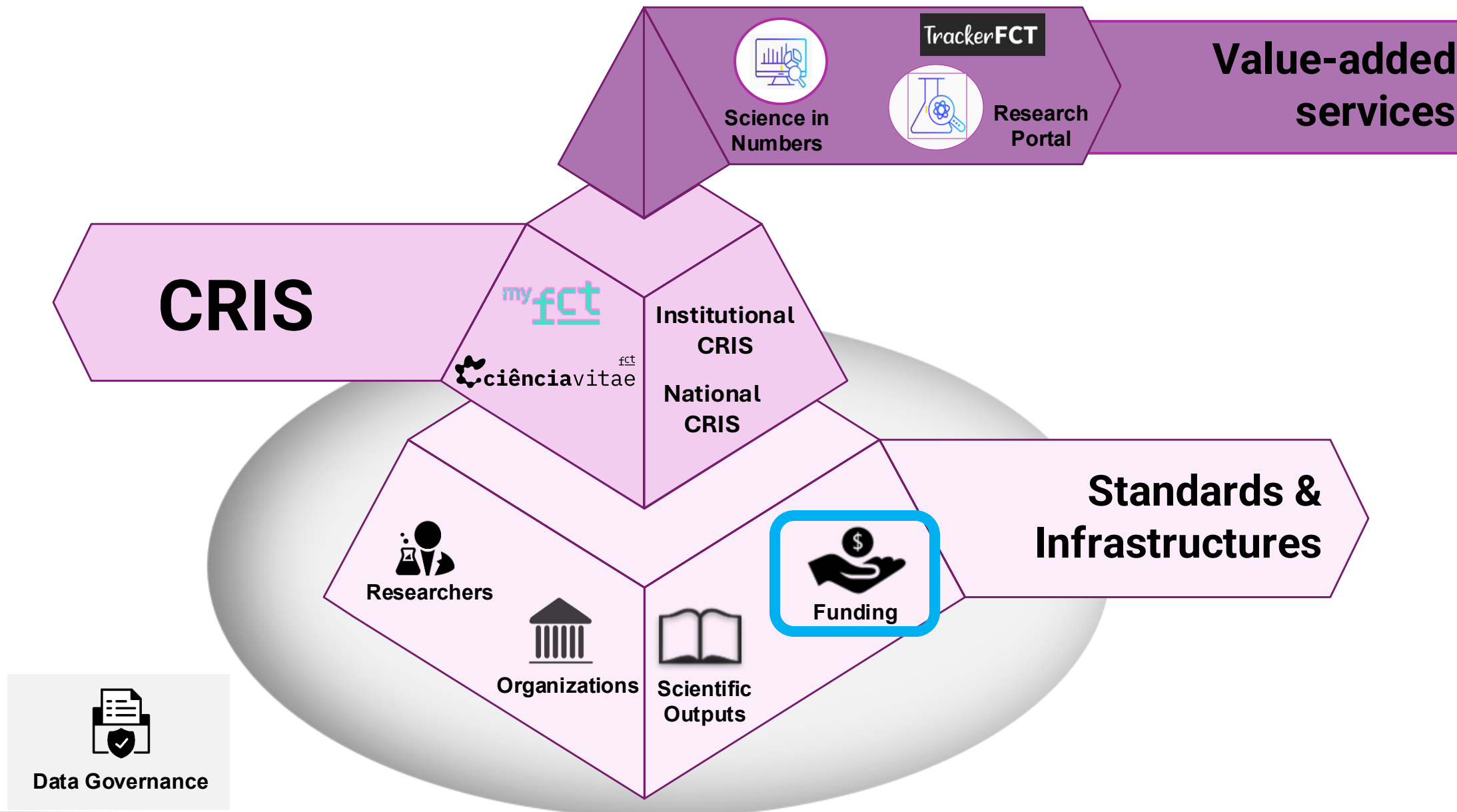
Funding Identifiers: Enabling Transparency and Impact Tracking

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 [C111-7E23-250D](#)

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S&T Ecosystem: Scientific Entities

Researchers



Outputs



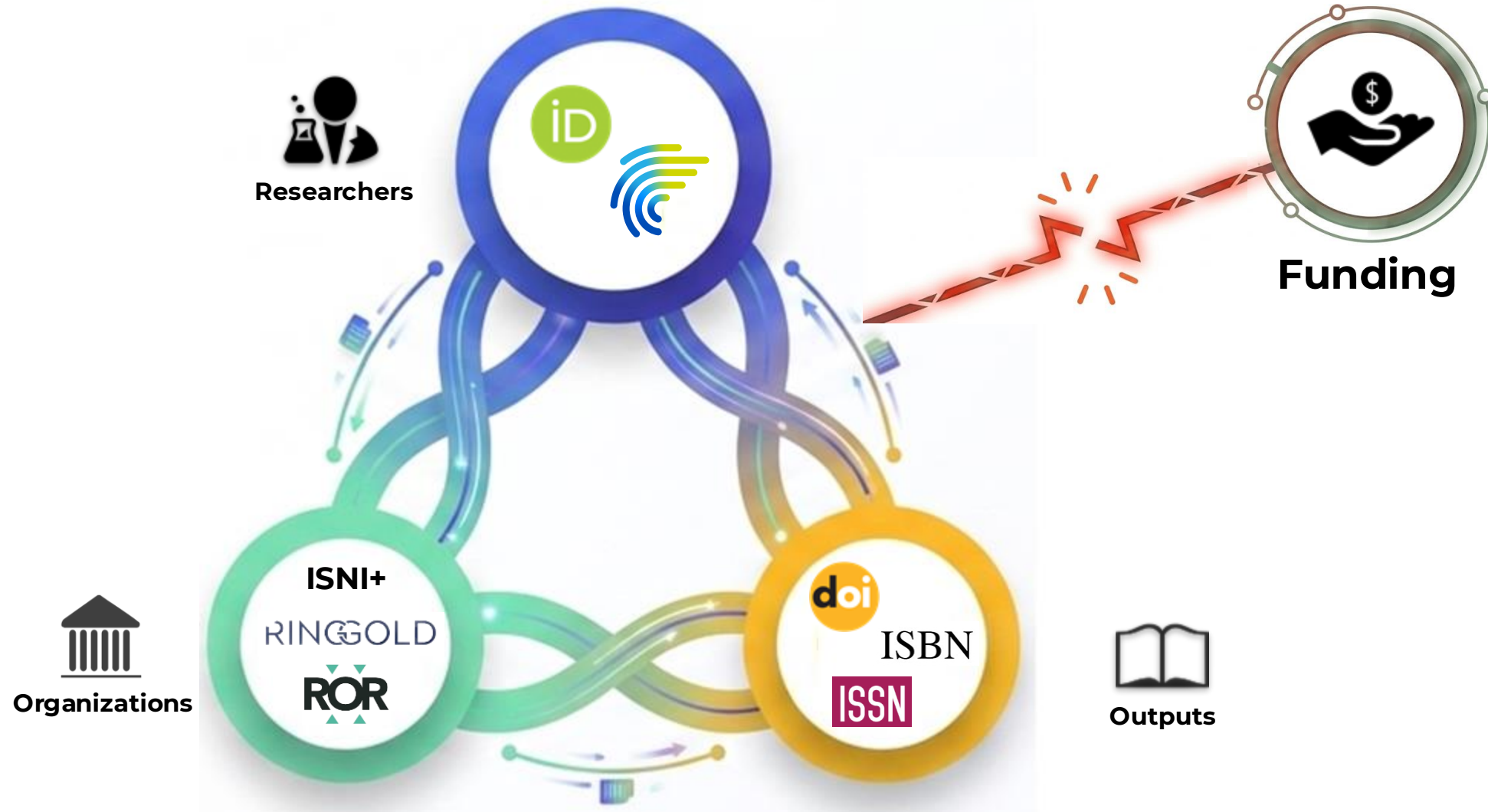
Organizations



Funding



The Weakest Link: Funding Traceability



The Solution: Funding Identifiers (Grant DOI)



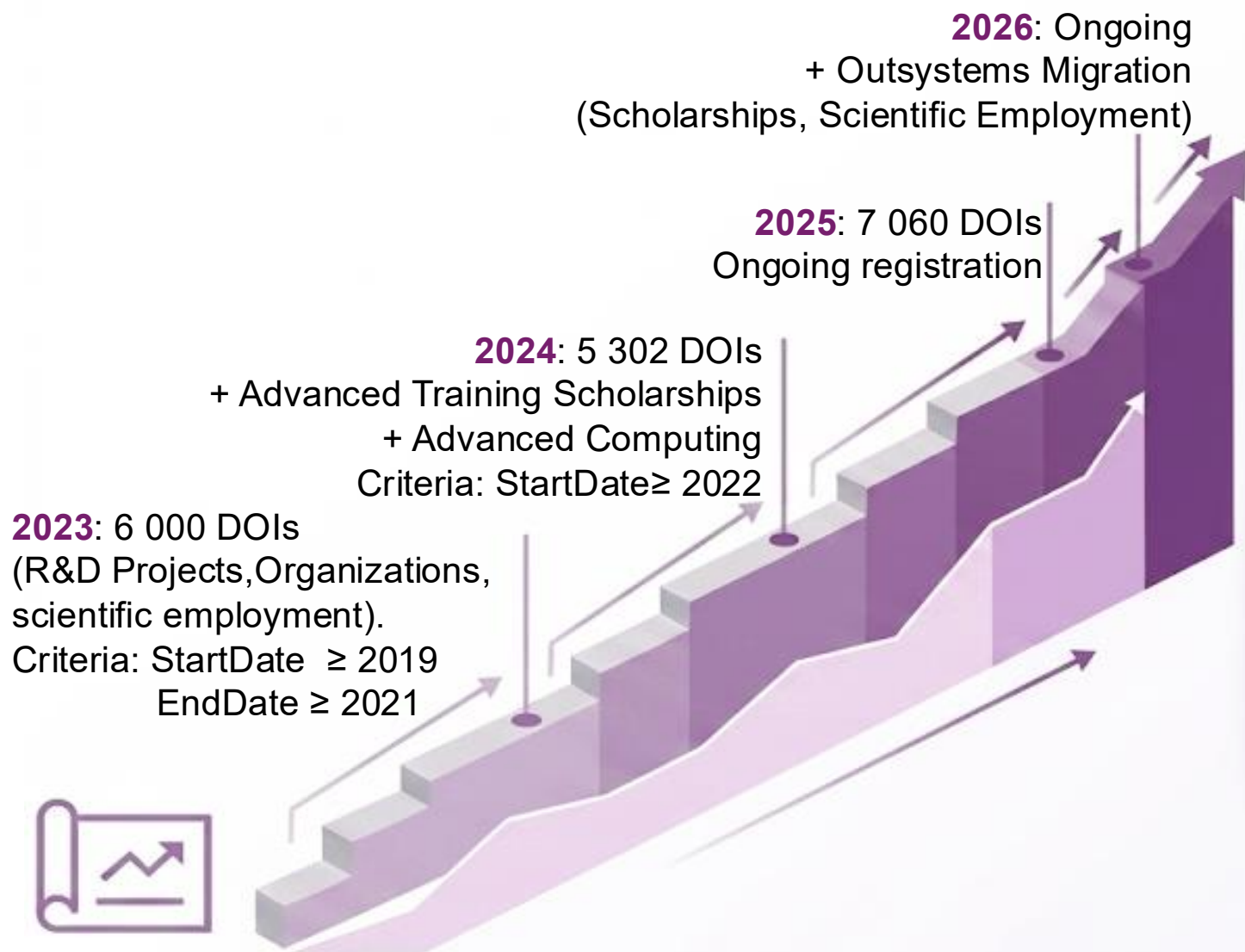
Funding traceability through **DOIs**

The PTCRIS Vision: Connected Scientific Entities



The adoption of PIDs based on **FAIR** principles unambiguously connects funding to scientific output, researchers, and organizations

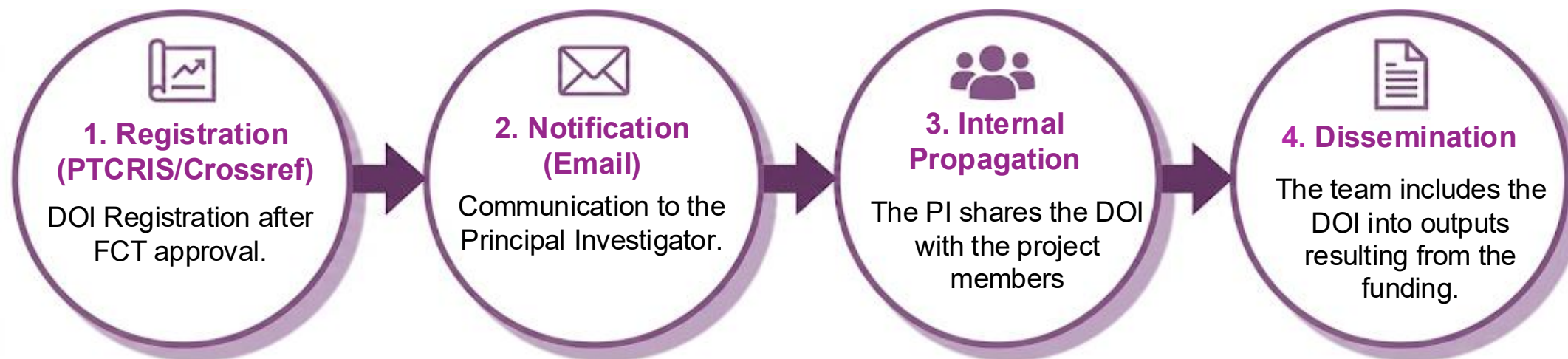
PTCRIS | Evolution of DOI Registration



19 180

Fundings with
registered
DOIs

PTCRIS | The Propagation Flow



✓ **Positive Impact of Interoperability**
Once registered, the DOI becomes accessible to other interoperable systems.



200 000



PTCRIS | Best Practices: How to cite the DOI?

Have you been assigned a DOI?
Make sure to promote it always!



The correct inclusion of the URL ensures **automatic global indexing** in scientific databases.

Open Access Article



Habitat Diversity Increases *Chrysoperla carnea* s.l. (Stephens, 1836) (Neuroptera, Chrysopidae) Abundance in Olive Landscapes

by Daniel Paredes ^{1,2,*} ✉, Sara Mendes ²  and José Paulo Sousa ² 

Agriculture **2024**, 14(2), 298; <https://doi.org/10.3390/agriculture14020298>

Funding

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<https://doi.org/10.54499/UIDB/04004/2020>

Portal SciPROJ | Transparency Portal

Where does all this data go?
SciPROJ is the national aggregator.



Allows any person to search and view funded support and activities carried out in Portugal.

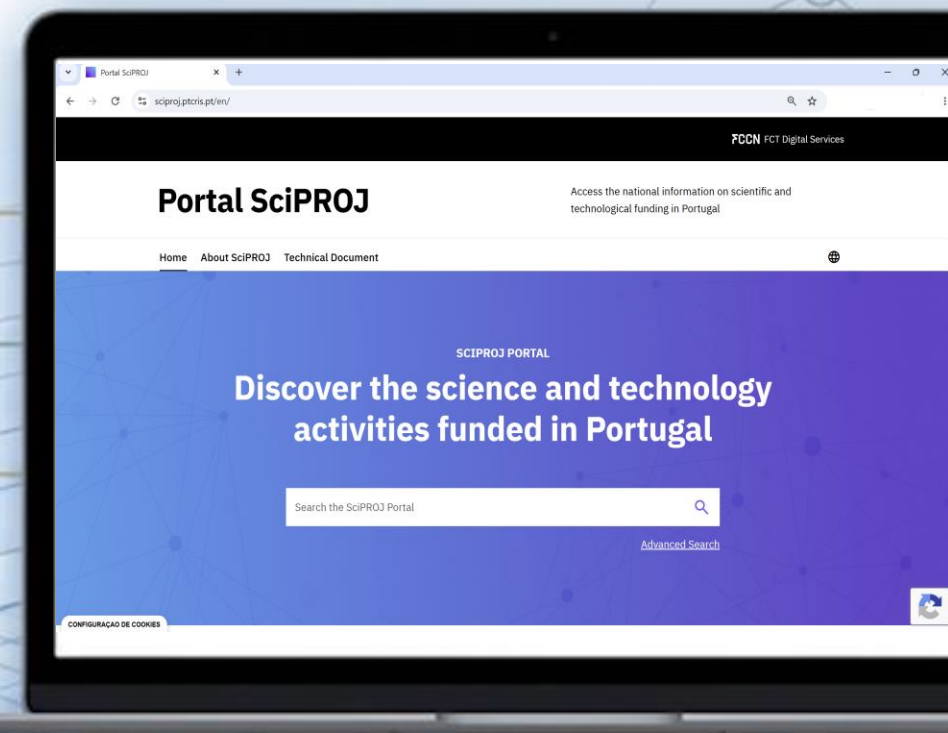


FAIR data governance results in full public transparency of science in Portugal.

Researcher

Organizations

Funding



Funding DOIs | The future...



New Funding

Ongoing registrations
(816 records 04/2026)

Publicity Guidelines

Regulatory update
making DOI disclosure
mandatory.

Contract

Contractual automation
with integration of DOIs
into the terms of
acceptance.

Portal SciPROJ

Reorganization of the
funding section and
visual improvements.

Thank you!

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 [C111-7E23-250D](#)

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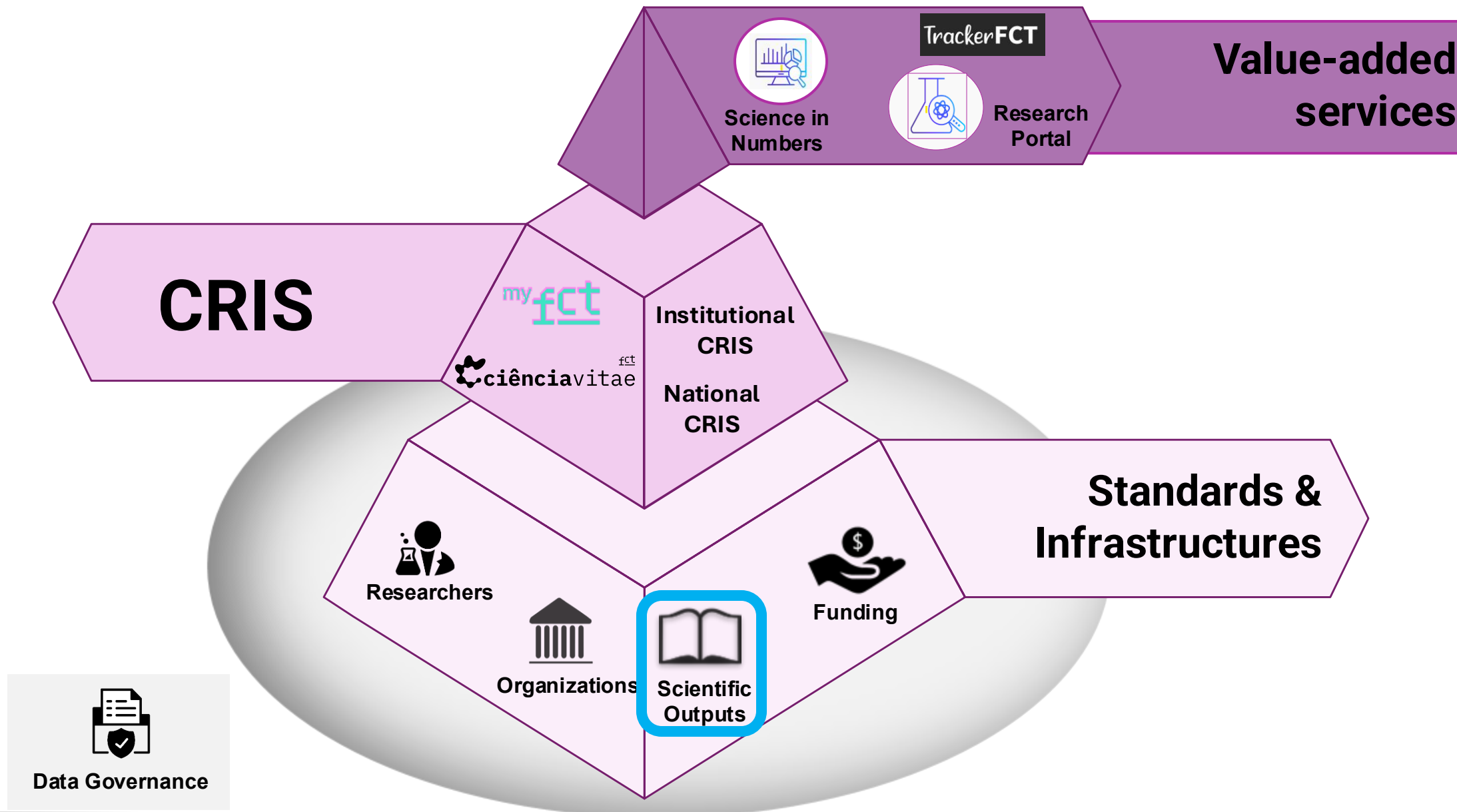
Connecting People, Systems and Data through PIDs

Research Output Identifiers: Enabling Discovery and Reuse

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DOI in publications – key benefits



Unique ID

Permanent identifier for every output, facilitating its location and accurate citation



Visibility

Easily found & cited by researchers and accessed by other researchers



Metadata Links

Connects authors, funders & institutions, promoting a broader understanding of the context and impact of the research.



Simple Process

Accessing the service and how it's used simplifies the process of registering DOIs.

FCT as DOI provider

- FCT is a subscriber of Datacite since 2018
- It acts as a Consortium Lead for national academic and scientific institutions;
- Service is free of charge for participating institutions;
- Access is granted through the signing of a protocol.

DOI for publications in numbers

	131	Subscribing entities
	74	Insitutional repositories
	57	Scientific Journals
	141 K	Registered DOIs



Information derived from registered DOIs

commons.datacite.org/orcid.org/0000-0003-3952-8294

ToDo's INDEXAR CORP ASANA ToDo's PESSOAL



Type to search...
Works People Organizations Repositories

Support Sign In

Laranjeira CST

Cátia Laranjeira

9 Works 7 Citations ?

Other Identifiers

Scopus Author ID: 23091392500
Ciência ID: 3415-1354-5489
ResearcherID: C-9725-2019

Other Profiles

ORCID
Impactstory
Europe PMC

ID <https://orcid.org/0000-0003-3952-8294>

Employment

Fundação para a Ciência e a Tecnologia

Science and Technology Management
Since July 2015

Instituto Gulbenkian de Ciencia

Postdoctoral Fellow
Since September 2012

National Institute for Medical Research

Postdoctoral fellow
June 2010 to August 2012

Instituto Portugues de Oncologia de Lisboa

Research Assistant

FEEDBACK

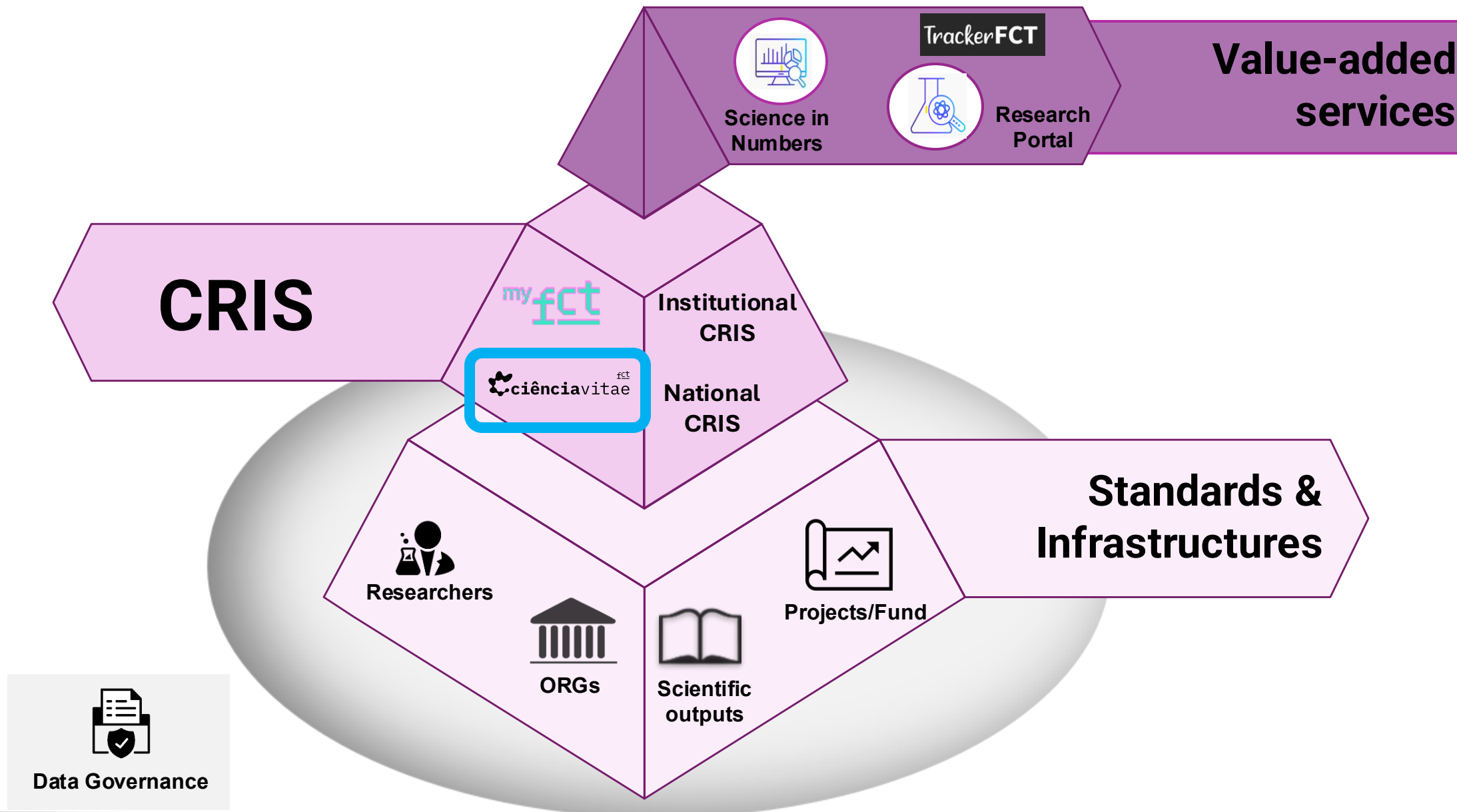
CIÊNCIAVITAE

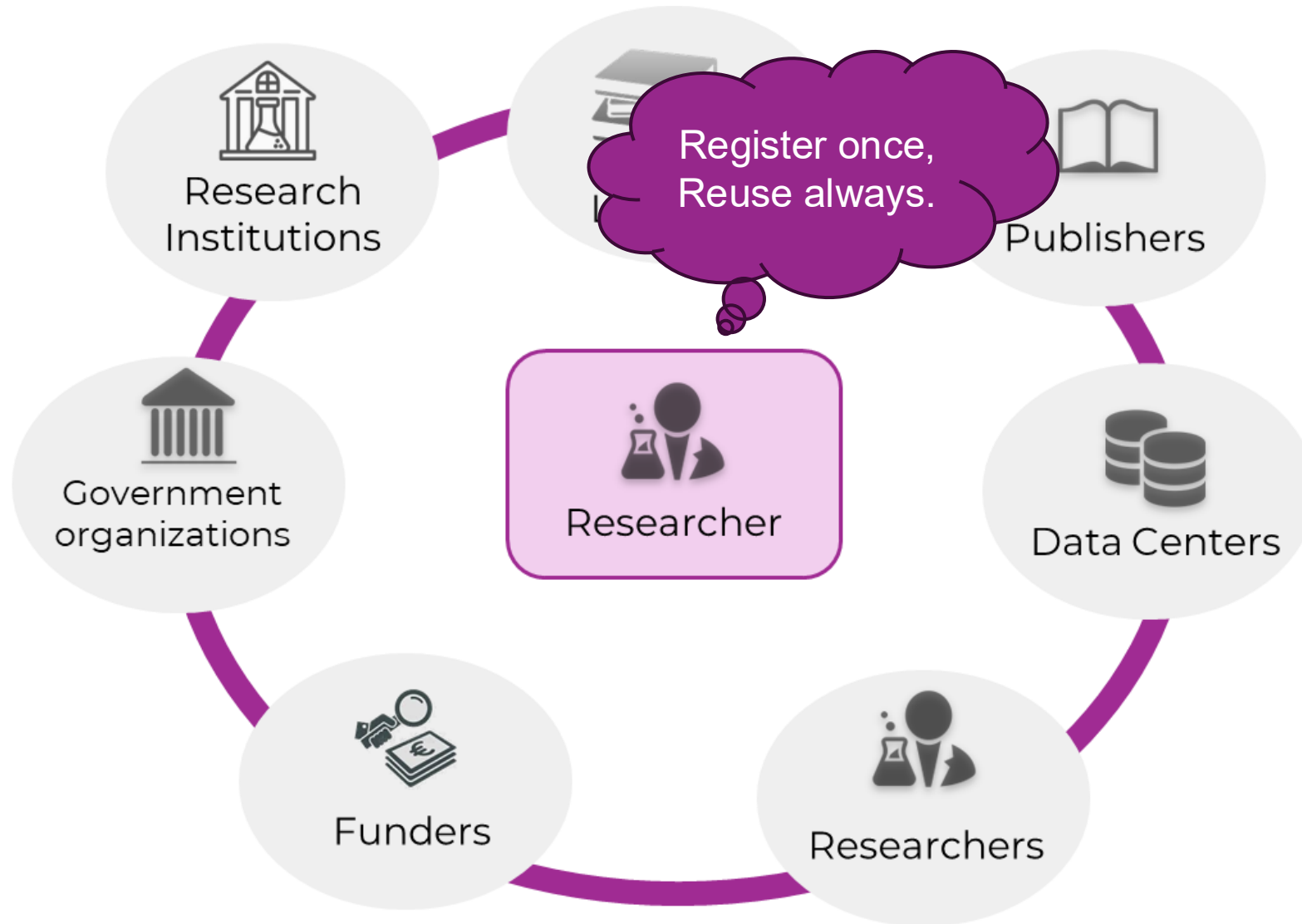
Curriculum management within the research ecosystem

Pedro Leitão Lopes

pedro.lopes@fccn.pt

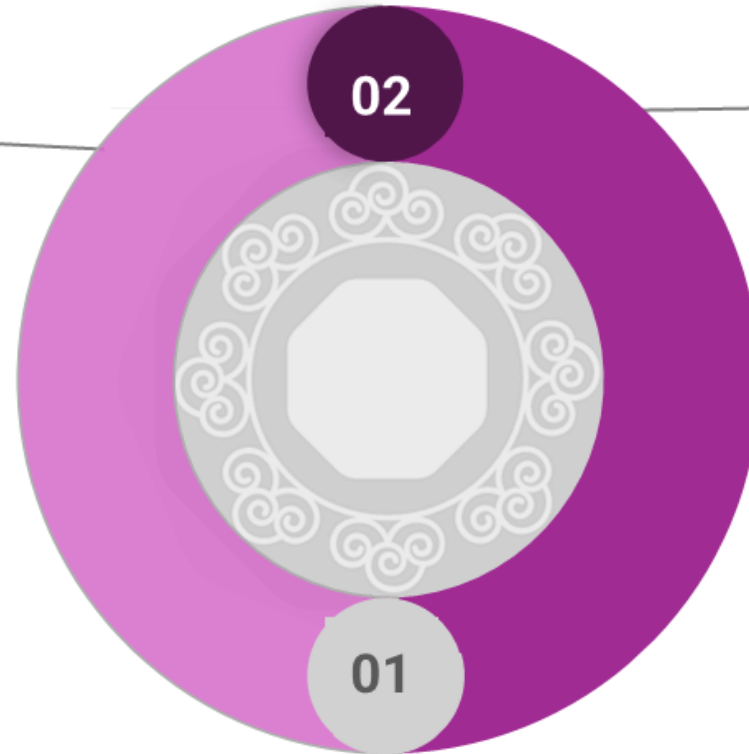
 [5F1A-7967-3447](https://orcid.org/5F1A-7967-3447)





CIÊNCIAVITAE:
integrated curriculum

Integrated with various national and international systems, **CIÊNCIAVITAE** makes it possible to reuse information that is already available in these systems.



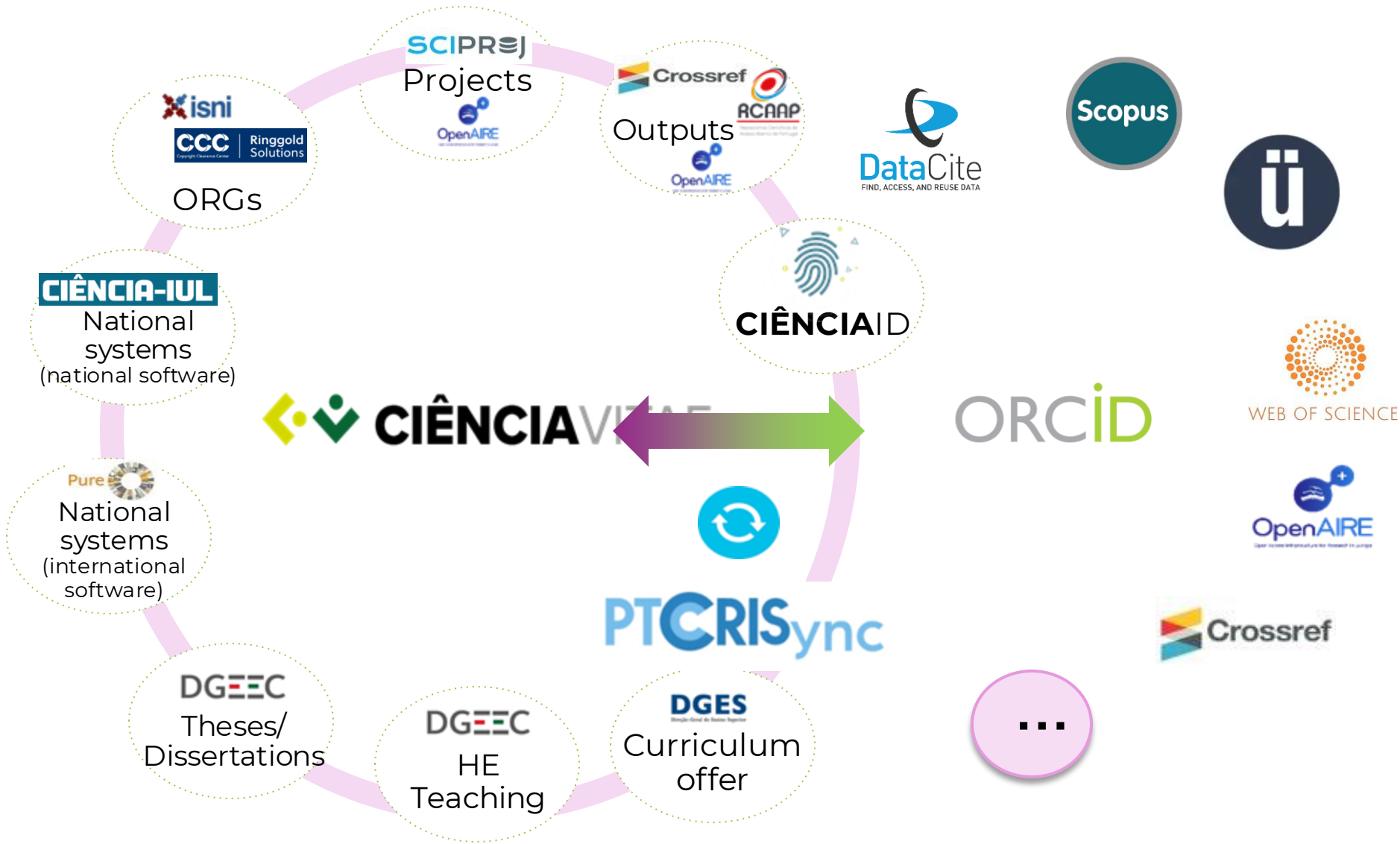
CIÊNCIAVITAE: *single curriculum*

Tool for carrying out any administrative act based on a CV

CIÊNCIAVITAE | The Beginning



CIÊNCIAVITAE | Integration



Outputs

ADD

SYNCHRONIZE

19
DUPLICATES

Synchronize with ORCID

FINISH →

Recent start date

View all types

20

Outputs (19)		Projects (6)
☐ Select all		Last checked: 2023/11/09 at 12:29h
☐	Add to CIÊNCIAVITAE	ProjetoA1 Project ongoing since 2023 0000000A1
☐	Add to ORCID 	3D printing multifunctional devices without internal interfaces for cartilage repair Grant ongoing since 2023 EP/W034409/1
☐	Add to CIÊNCIAVITAE	Neuronal Cell Biology: A Biology of Extremes Grant done from 2020 to 2021 R13NS118793

Duplicates management

How to manage duplicates

In this area you can manage the records with a high level of similarity (level of similarity $\geq$ X%). To manage false positives you can:

a) change the value of the minimum percentage of similarity and/or b) select a group of records in a box and click "NOT DUPLICATES". To manage true positives select the radio-button corresponding to the record you want to keep and click on "MERGE".

Recent start date ▼

View all types ▼

60% of similarity ▼

20 ▼

ARE NOT DUPLICATES

MERGE REGISTERS

☒ ► Ampliando o espectro de biocatalisadores, bioprocessos e bio-produtos em biotecnologia industrial

Contract done from 2023 to 2026

☐ ► Ampliando o espectro de biocatalisadores, bioprocessos e bio-produtos em biotecnologia industrial

Other done from 2023 to 2026

☐ ► Ampliando o espectro de biocatalisadores, bioprocessos e bio-produtos

Contract done from 2023 to 2026

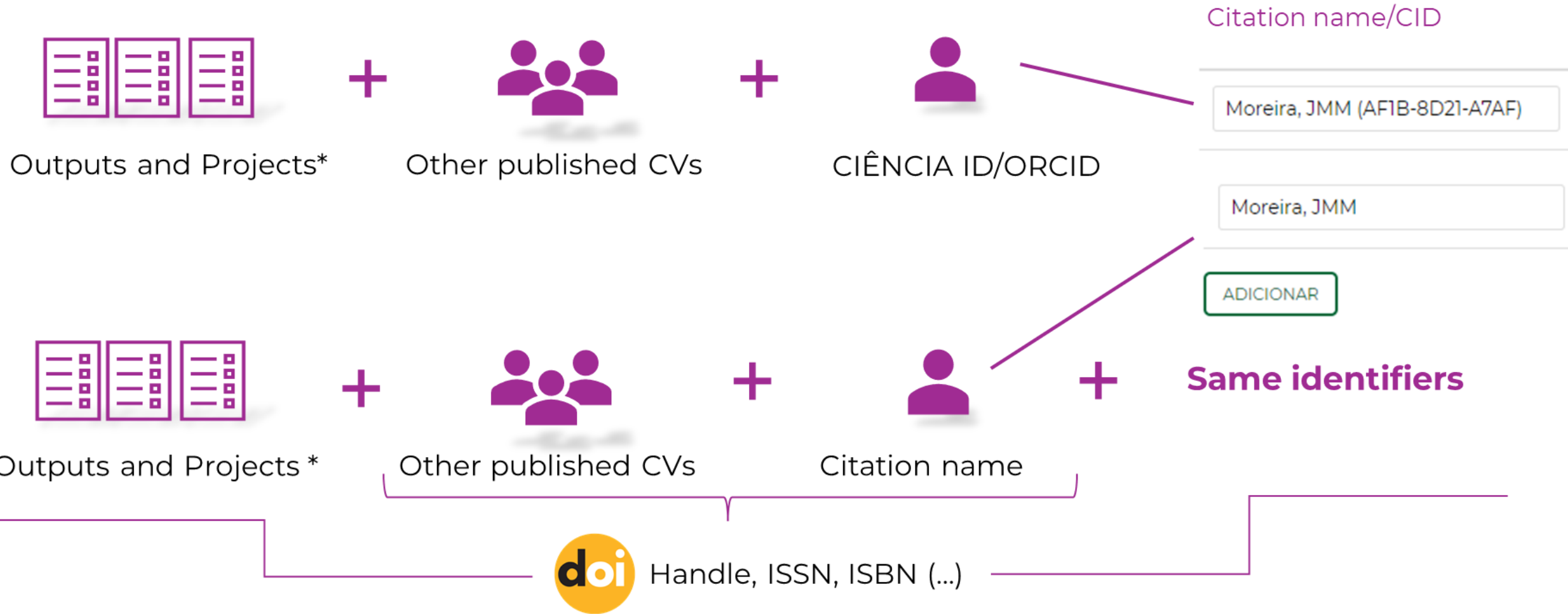
Authors extended search

Full name	Bibliographic citation name	Afiliation	CIÊNCIA ID	ORCID iD	
Maria	Bibliographic citation narr	ISCTE	CIÊNCIA ID	ORCID iD	SEARCH

Search results

Name	Citation names	Afiliation	Actions
 Aissa Mariama Nascimento Baldé  D414-1832-5B1A	Baldé, Aissa	ISCTE-Instituto Universitário de Lisboa Centro de Investigação e Intervenção Social	+ Associate ID
 Alexandra Maria Barros Alves Chaves Silva Vidal Saraiva  F01A-4579-78CE	Saraiva, Alexandra	ISCTE-Instituto Universitário de Lisboa DINÂMIA'CET Centro de Estudos sobre a Mudança Socioeconómica e o Território (...)	+ Associate ID
 Alexandra Maria Nascimento Ferreira Lopes  A816-7CBA-3693	Ferreira-Lopes, Alexandra	ISCTE, Instituto Universitário de Lisboa (ISCTE-IUL) (...)	+ Associate ID
 Ana Maria Abreu  C21C-0A02-C0A8	Abreu, A. M.	ISCTE-Instituto Universitário de Lisboa Centro de Investigação e Intervenção Social (...)	+ Associate ID
 Ana Maria Belchior 	Ana Maria Belchior	ISCTE-Instituto Universitário de Lisboa	+ Associate ID

CIÊNCIAVITAE | Suggestions algorithm



***Not** in researcher CV

Suggestions +

Outputs (1)

Projects (1)

☐ Select all

☐ Edit

Zengxiao Cai; Abu Naser Md Ahsanul Haque; Renuka Dhandapani; Maryam Naebe; Rehemtula, Salima; Sobral, Pedro; Anger, Talissa. "Impact of variability of cotton gin trash on the properties of powders prepared from distinct mechanical approaches". *Powder Technology* 413 (2023): 118045.
(Journal article)

ADD TO CV

REMOVE SUGGESTION



✓ **CRUD Operations**

- Create, update, retrieve, and manage curriculum data

✓ **Search Authors Framework**

- Discover and uniquely identify researchers and authors

✓ **Search Researcher Outputs**

- Search and retrieve scientific publications and research outputs

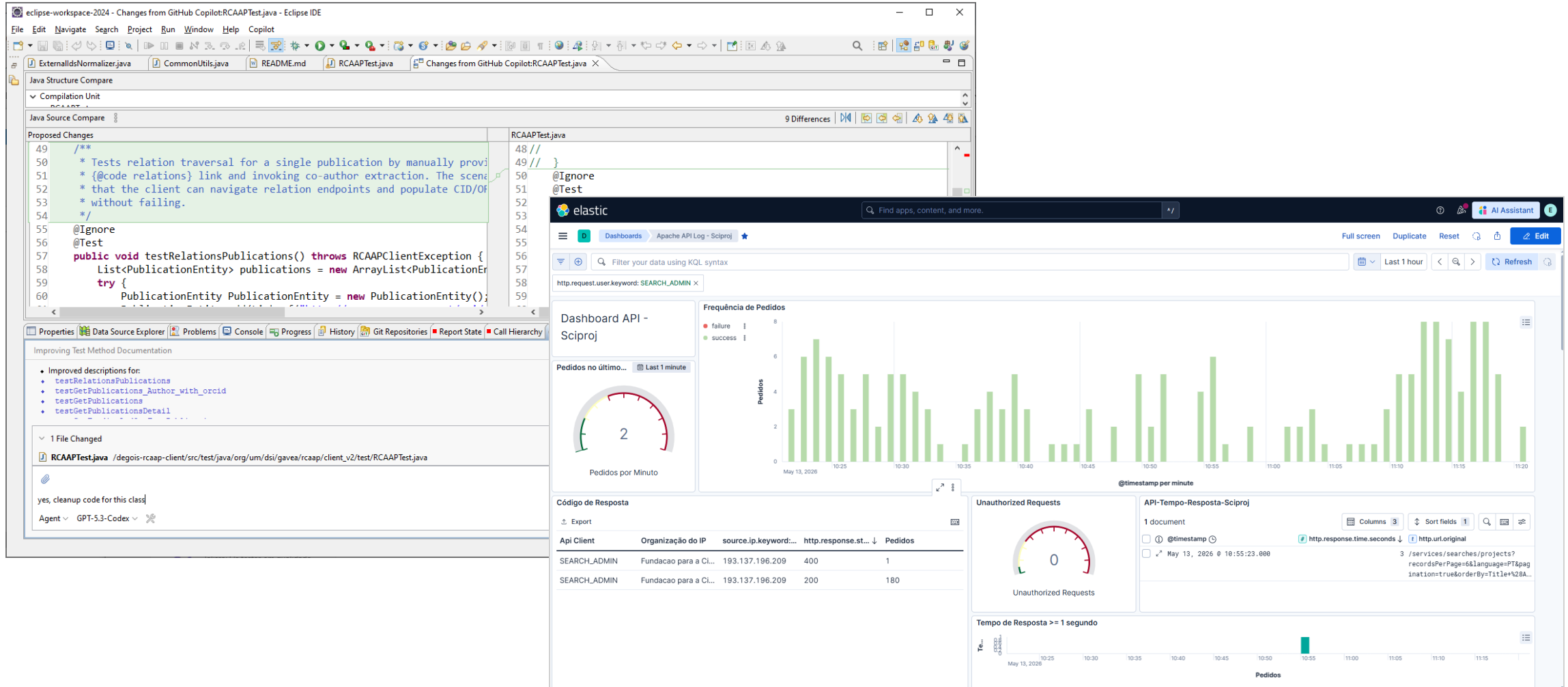
✓ **Search Organizations:**

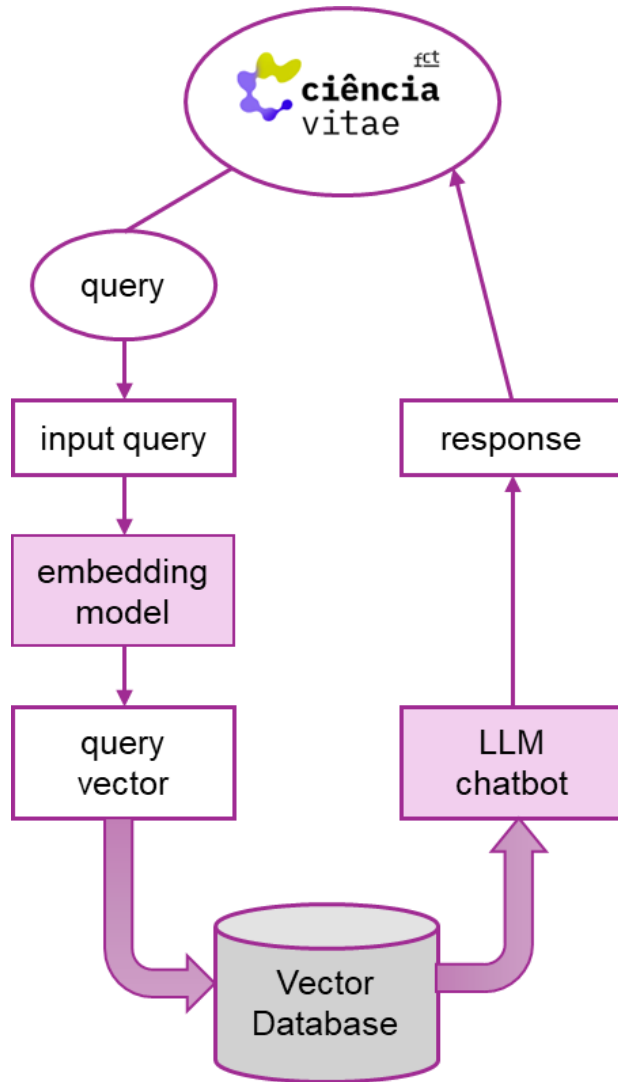
- Identify and retrieve information about institutions/organizations

✓ **Bridge Organization Identifiers**

- Resolve and map multiple PIDs associated with institutions

CIÊNCIAVITAE | AI for Development and Operations





```

# -----
# ✓ SEMANTIC QUERIES ONLY BELOW
# -----
results = vector_search(q)

if not results:
    tmark("TOTAL", T0)
    return "Not found in database."

t = time.time()
context = []
for doc in results:
    for c in doc.get("chunks"):
        if c.get("text"):
            context.append(c.get("text"))
context = "\n\n".join(context)
tmark("Context assembly")

t = time.time()
llm = get_llm()

prompt = f"""
You are a precise assistant

Rules:
- Answer ONLY using the provided context
- If not found, say: "Not found in database"
- Do NOT infer affiliations, only use the provided context

Context:
{context}

Question:
{q}

Answer:
"""

answer = llm.invoke(prompt)
tmark("LLM generation", t)

tmark("TOTAL", T0)
return answer
  
```

Assistant:

QUERY: tell me what do you know about TIAGO ANDRÉ ÁGUAS SERPA

[TIME] Embedding model loaded: 7.13s
 [TIME] Embedding computed: 0.05s
 [TIME] Query embedding ready: 7.181s
 [TIME] Vector search executed: 0.494s
 [TIME] Context assembly: 0.0s
 [TIME] Ollama client loaded: 1.272s
 [TIME] LLM generation: 94.431s
 [TIME] TOTAL: 102.107s

TIAGO ANDRÉ ÁGUAS SERPA is a researcher with multiple roles at different institutions. He has been involved as an Investigator and Coordinator Researcher across various organizations, including the Centro de Investigação em Desporto Saúde e Desenvolvimento Humano, Universidade do Porto Instituto de Sociologia (Invited Principal Investigator), Associação Portuguesa de Biomedicina (Invited Coordinator Researcher), and Fundacao para a Computação Científica Nacional. Furthermore, he is an Assistant Professor at Academia de Música Antiga de Lisboa and has served as both Trainee and Principal Investigator there too. He holds positions such as Visiting Researcher, Main Coordinator Teacher, Invited Full Professor, and his roles include coordinating research projects within the Fundacao para a Computação Científica Nacional itself. Additionally, TIAGO ANDRÉ ÁGUAS SERPA has worked at Academia das Ciências de Lisboa as Principal Investigator alongside other visiting professorships across various universities in Portugal and abroad such as Universidade do Porto, Armed Forces Chaplaincy Centre, University of Algarve, Newcastle University (UK), Universidad Complutense de Madrid (Spain).

You: Traceback (most recent call last):

"Difficult to see. Always in motion is the future.", Yoda

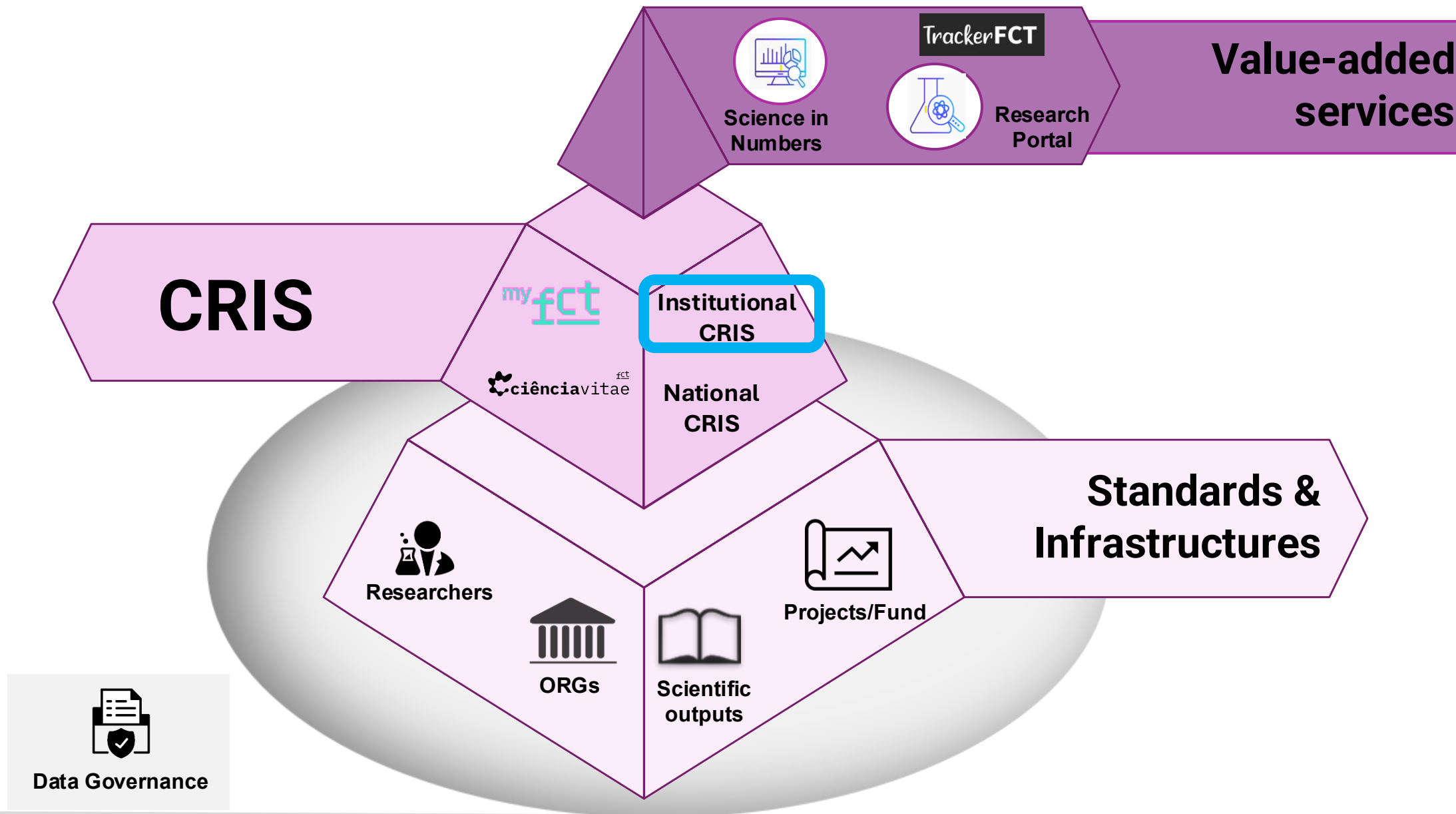
Thank You!

PTCRIS Integrations

Institutional Use Cases – ISCTE IUL

António Lopes





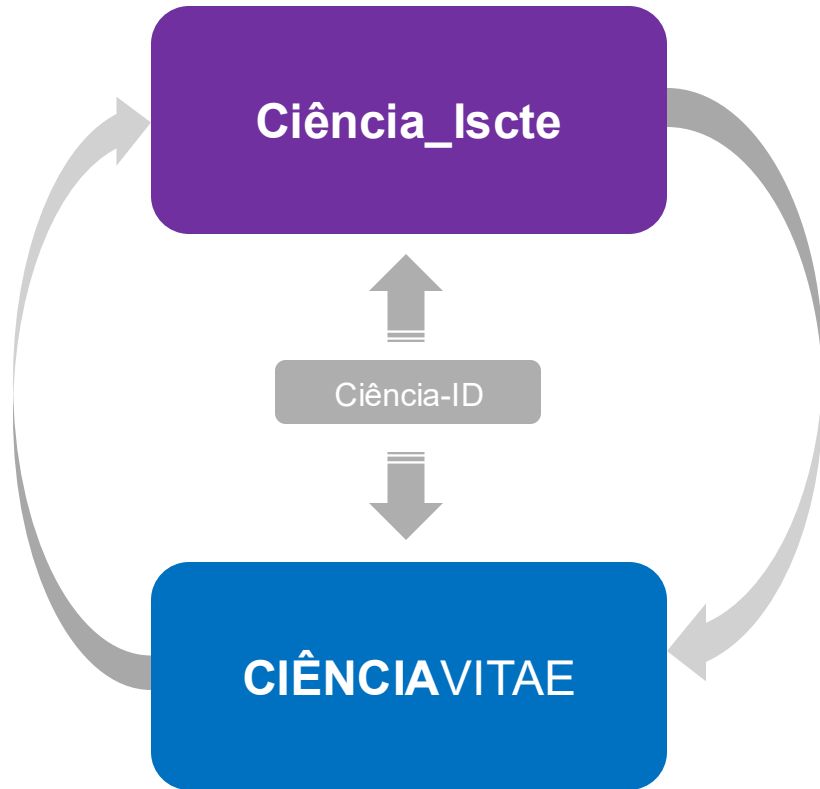
About Iscte and its CRIS

- 52-year-old University (in the heart of Lisbon)
- 5 schools, 15k students
- 14-year-old CRIS: Ciência_ISCTE
- 73k+ publications
- 1800+ projects
- 583k+ citations (automatically-collected)

iscte

INSTITUTO
UNIVERSITÁRIO
DE LISBOA

Integration with National CV Platform



Why integrate with CIÊNCIAVITAE?

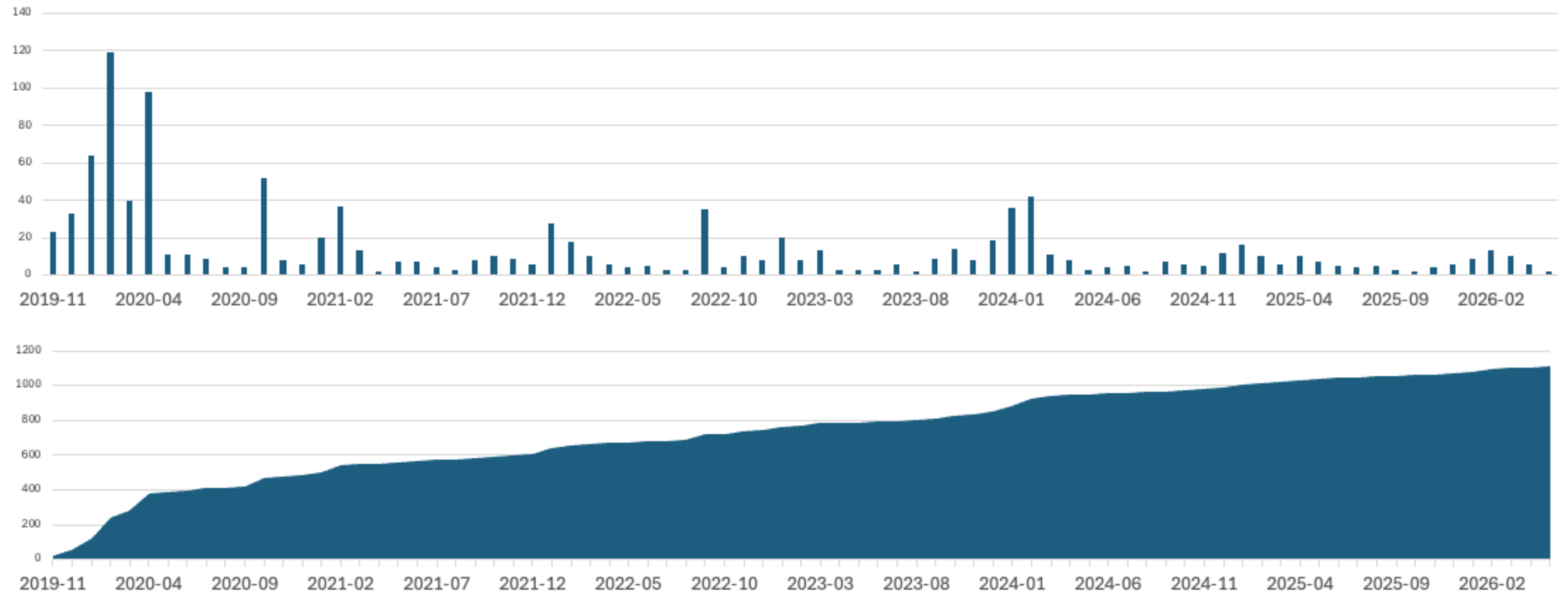
- Basic principle: enter once, reuse multiple times.

How to integrate with CIÊNCIAVITAE?

- Association between Iscte's account and Ciência-ID;
- Synchronization between Ciência_Iscte and **CIÊNCIAVITAE**;
- Based on agreed upon synchronization principles (common to all institutions/CRIS) that address major hurdles.

Integration with National CV Platform

Evolution of new CV associations between Ciência_ISCTE ↔ **CIÊNCIAVITAE** (2019-2026)



Integration with National CV Platform

- CRIS integrated with CIÊNCIAVITAE for 6 years now
- 1 support case every 2 months (on average)
- Over 80k synchronized records (publications, projects, activities, etc.)

4000 hours saved!

(conservative estimate)



Want to know more?

- **Session 1.2. Connecting Research Ecosystems: Standards, Metadata, and Interoperability**
 - *“Bridging CRIS and National CV through Researcher-Controlled Synchronization”*

**Today at around 12:00 at the
North Auditorium**



PTCRIS Integrations

Institutional Use Cases – UCP

João Dias

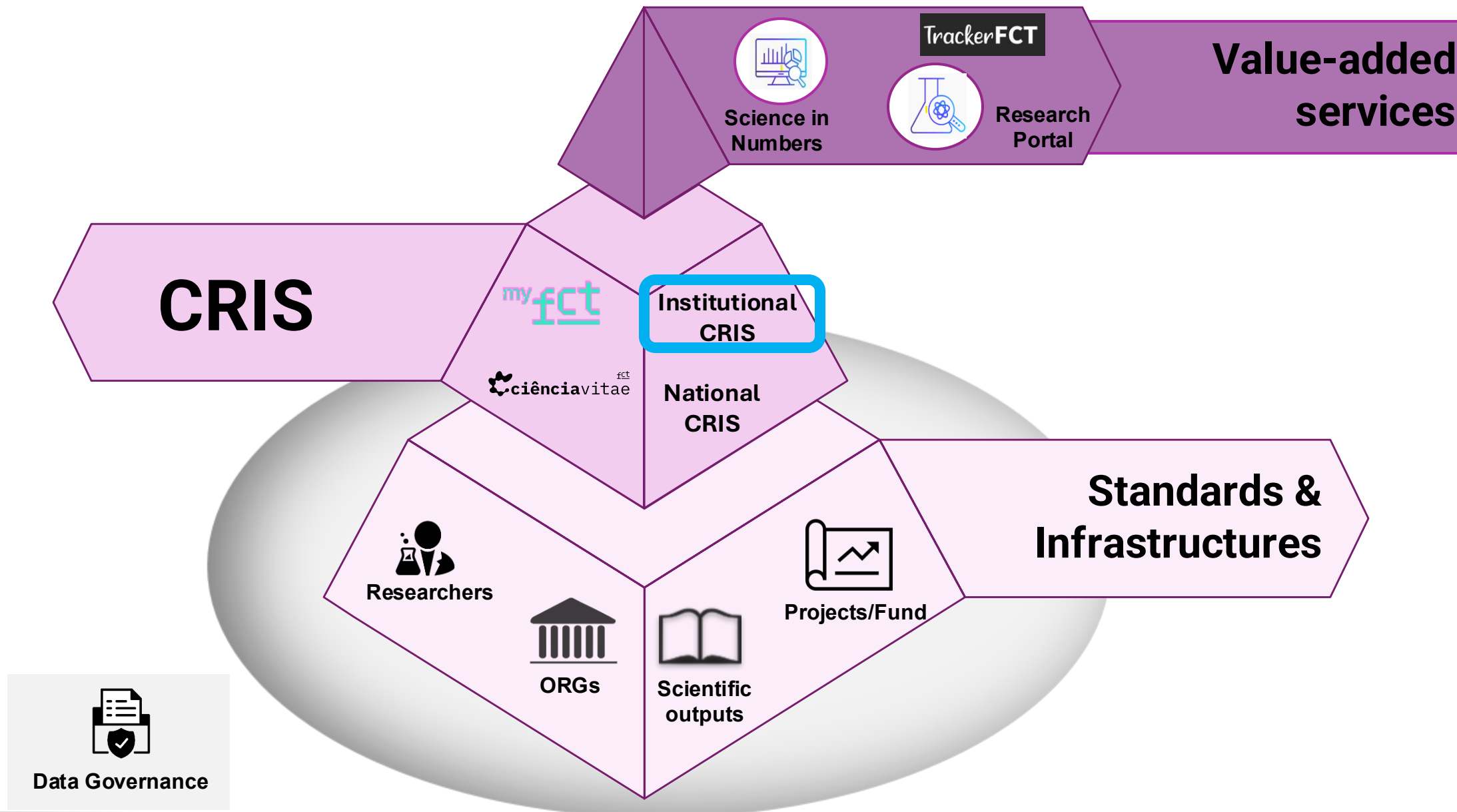
joao.dias@ucp.pt



[4A15-F42B-9FDF](#)



[0000-0002-0751-873X](#)



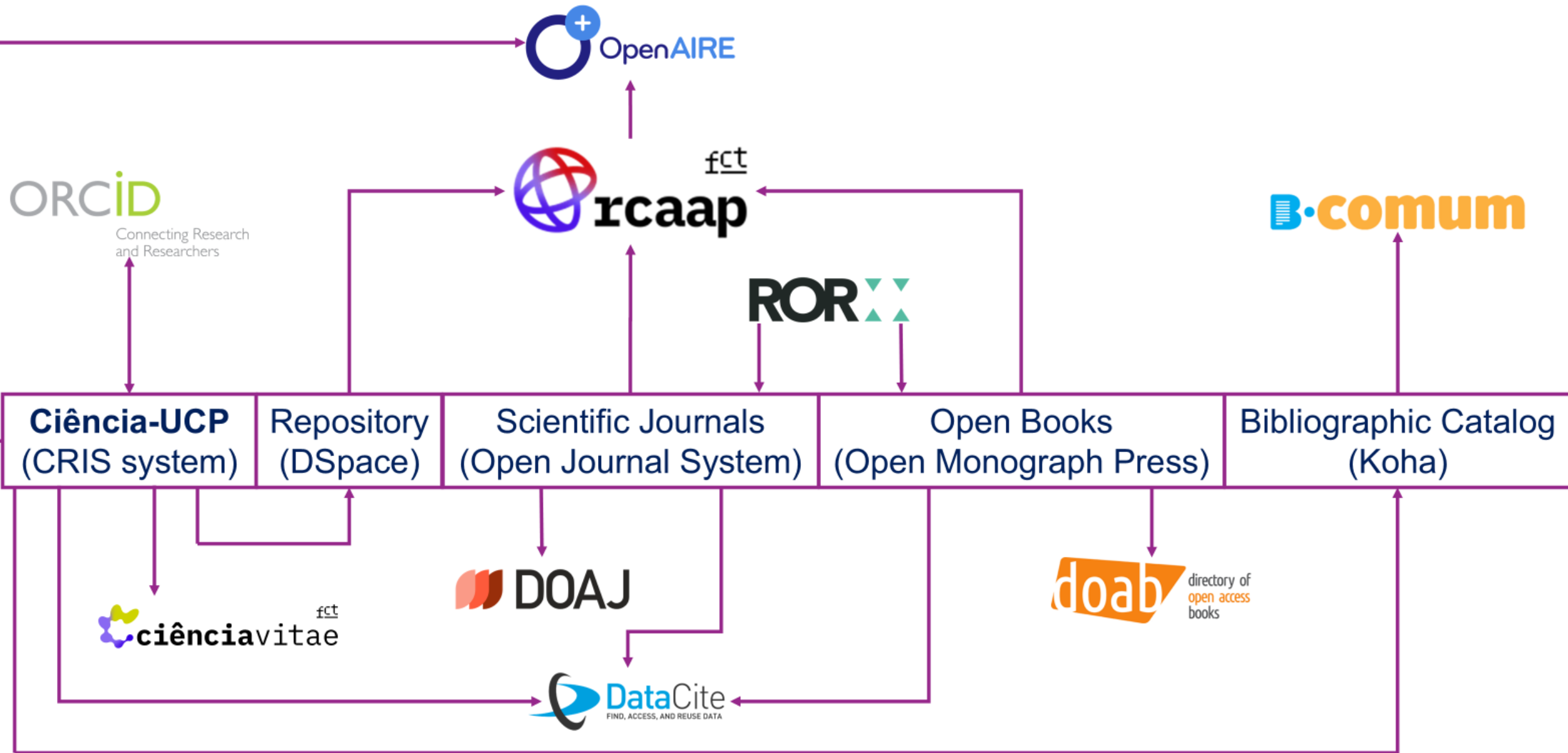


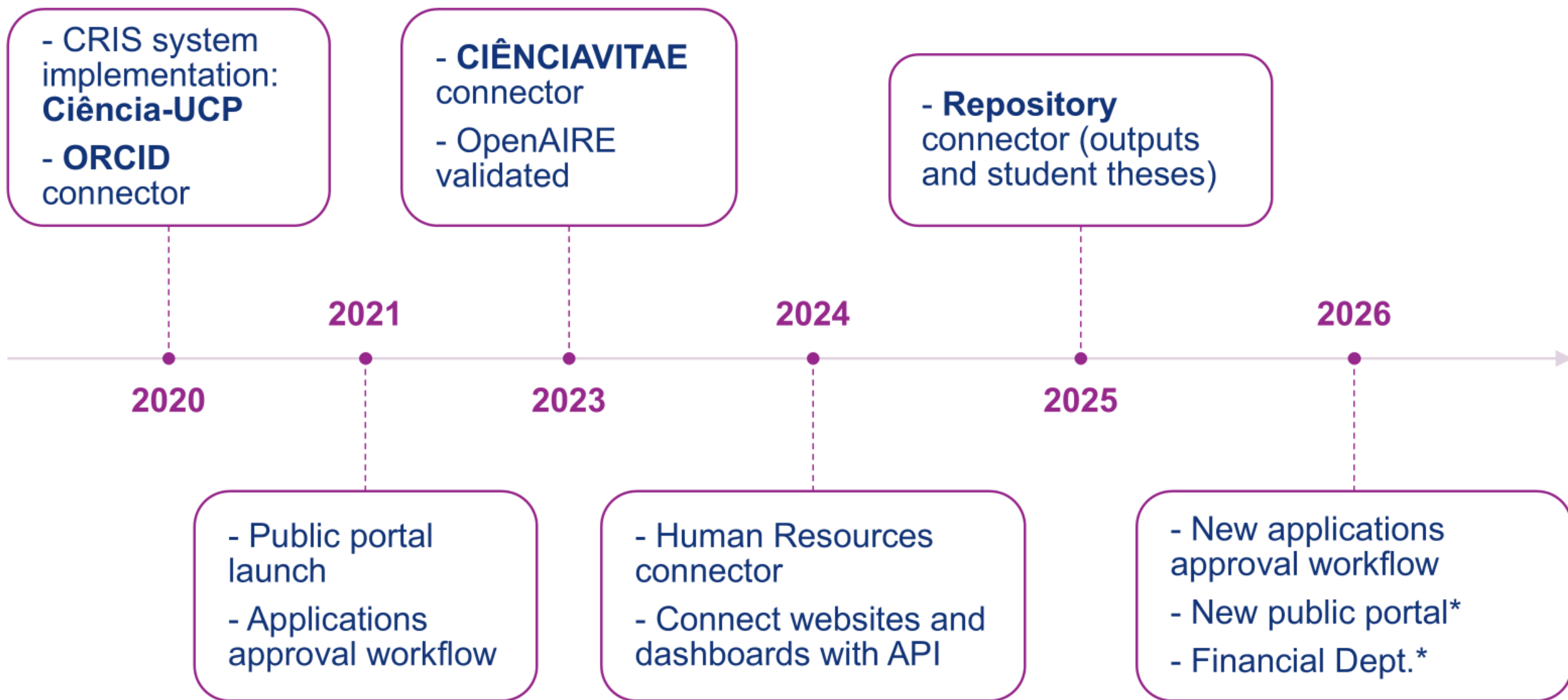
4 campus

17 faculties

15 research centers

1 400 researchers







50
units



2 200
profiles



1 200
projects



945
prizes



50 000
outputs



38 000
activities



17 000
student theses



55
research data

<https://ciencia.ucp.pt/>

Why connect Ciência-UCP with CIÊNCIAVITAE

- An immediate **requirement from the UCP community** to prevent multiple profiles from being filled in simultaneously;
- To enrich and strengthen the metadata in CIÊNCIAVITAE profiles, **Ciência-UCP as the gateway to information**;
- Enhance and improve the efficiency of **researchers' profiles in project applications** (collection of information via the myFCT platform);
- Maximise the impact and visibility of the output and activities of UCP researchers, and **promote Open Science**.

- **National alignment, PTCRIS**

Adoption of the same typologies used in CIÊNCIAVITAE within Ciência-UCP;

- **CIÊNCIAVITAE API Working Group**

Staying up to date with recent and newer developments;

- **Suggestions for improving CIÊNCIAVITAE**

Identification of opportunities to improve and optimize the CIÊNCIAVITAE API as well as their user interface;

- **Curation metadata Ciência-UCP**

Improvement of metadata in Ciência-UCP through records not exported to CIÊNCIAVITAE due to missing information;

- **Enrichment of metadata for CIÊNCIAVITAE**

Strengthening records reliability via Library validation and metadata enrichment.



1400 active researchers

92%

1300 profiles with CIÊNCIAVITAE

30%

400 profiles connected to CIÊNCIAVITAE

92%

1300 profiles with ORCID

65%

900 profiles connected to ORCID





50 000 outputs



16 500 outputs exported to CIÊNCIAVITAE



42 000 outputs sincronized to ORCID



38 000
activities



21 000 activities export to CIÊNCIAVITAE



945
prizes



448 prizes export to CIÊNCIAVITAE



270
FCT
projects



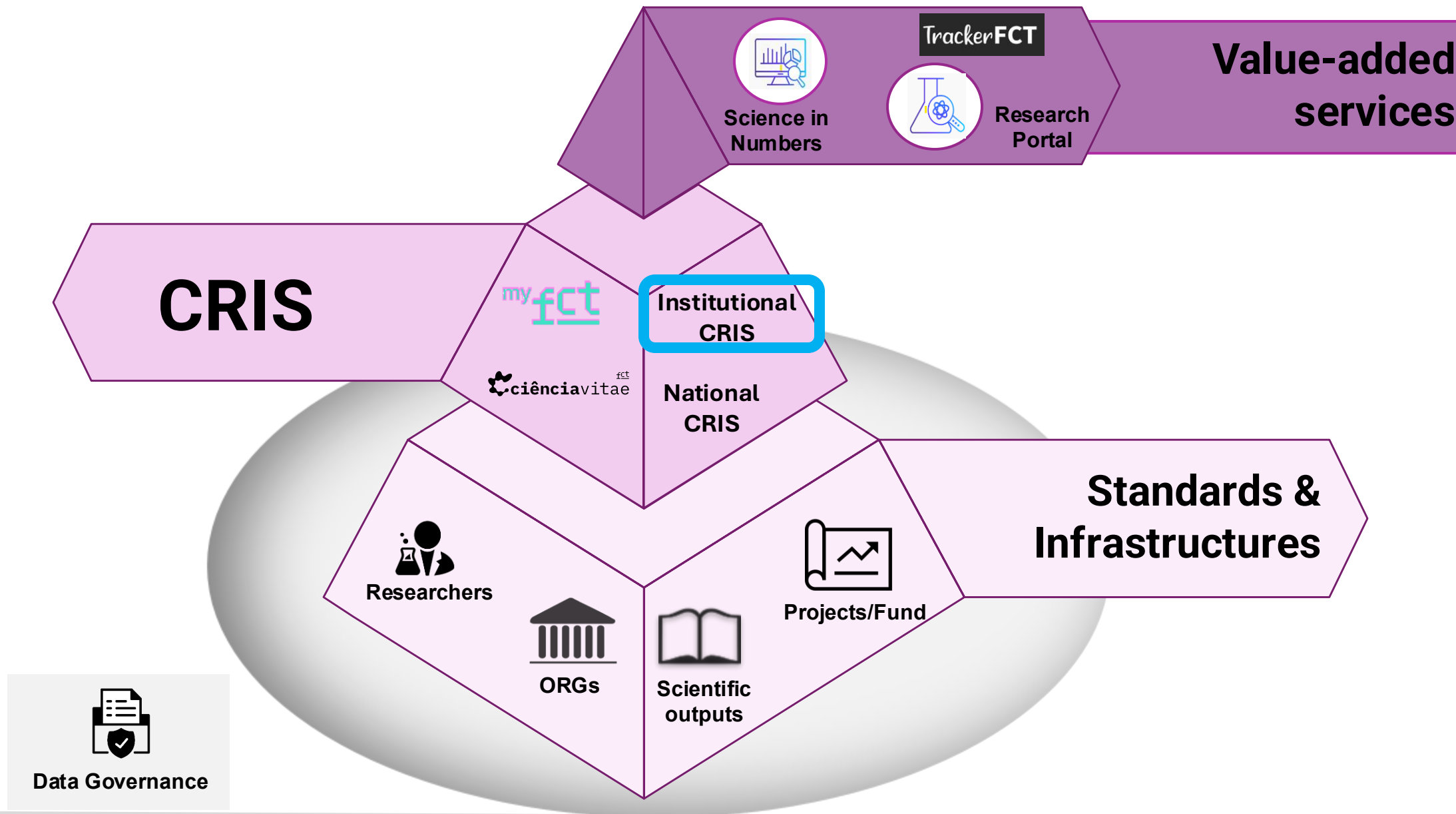
120 project with DOI (Sciproj)

PTCRIS Integrations

Institutional Use Cases – Azores University

Integration of **CIÊNCIAVITAE** with the Information System of University of the Azores (SITUA)

Francisco Martins



Problem

- Maintaining systematic and consistent information on the research and outreach activities of academic staff and researchers (publications, projects, etc.)
- Reducing the burden on academic staff and researchers when reporting this information to different bodies (Faculties, Research Centres, Fundação Gaspar Frutuoso, etc.)

Solution

- Use information from CiênciaVitae, retrieved via API, to populate UAc's management information system
- Enrich this information locally
- Make it available, through an internal API, to the various systems (research centres, foundation, etc.)

Information consumers

- Academic staff and researchers (via personal page on SITUA)
- Faculties and Research Centres (via API ou SITUA area)
- Science and Technology Office (via SITUA)
- Fundação Gaspar Frutuoso (via API)
- Library (via API)

Purpose

- Completion of
 - activity reports (faculties, research centres)
 - academic staff appraisal
- Various statistics
 - Publications by academic, by scientific area, by research centre, by project
 - Number of citations
 - Calculation of H-index, i-index, etc.
- Publishing on UAc's internal websites
 - SITUA
 - FGF

Challenges

- The API is quite extensive, which makes it harder to use
- It could also provide the citation text
- Matching publications across different profiles
- Matching authors across different profiles

Next steps

- Make use of more information available via the CiênciaVitae API
- Expand the statistical processing of the collected information
- Develop automatic generation of
 - activity reports
 - academic staff appraisal
- Retrieve citation counts for publications from databases such as Web of Science, Scopus and Google Scholar



Thank you!

Francisco Martins

fmartins@uac.pt

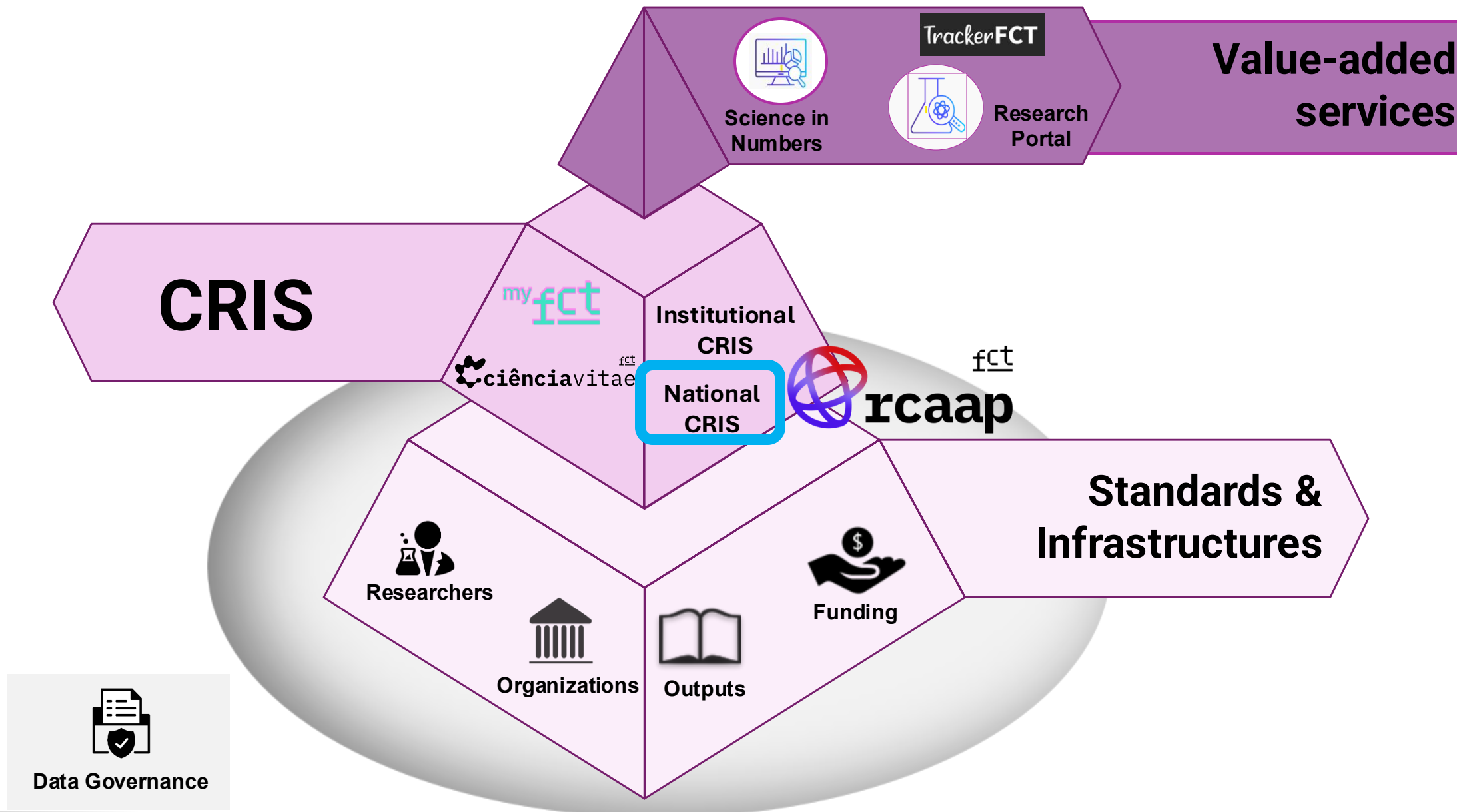
PTCRIS Integrations

National Systems - RCAAP

Paulo Lopes

 [4317-2B5C-51C5](#)

 [0000-0002-5550-3268](#)



RCAAP as a Core Infraestruture

- National open access initiative
- Aims to store, preserve and promote access to scientific knowledge produced in Portugal.

2025 metrics

Entities with
repository

155

Aggregated
documents

1 110 677

Scientific
Journals

255

Downloads/year

> 22 Million



RCAAP as a Core Infraestruture

Portal rcaap

Central research hub for national scientific production originating from repositories and scientific journals.

rcaap.pt/vufind

Validador rcaap

OAI-PMH validator.
Verifies the compliance of publications or datasets with national and international guidelines.

validador.rcaap.pt

Search

Contents



Curation

Deposit

Sari rcaap

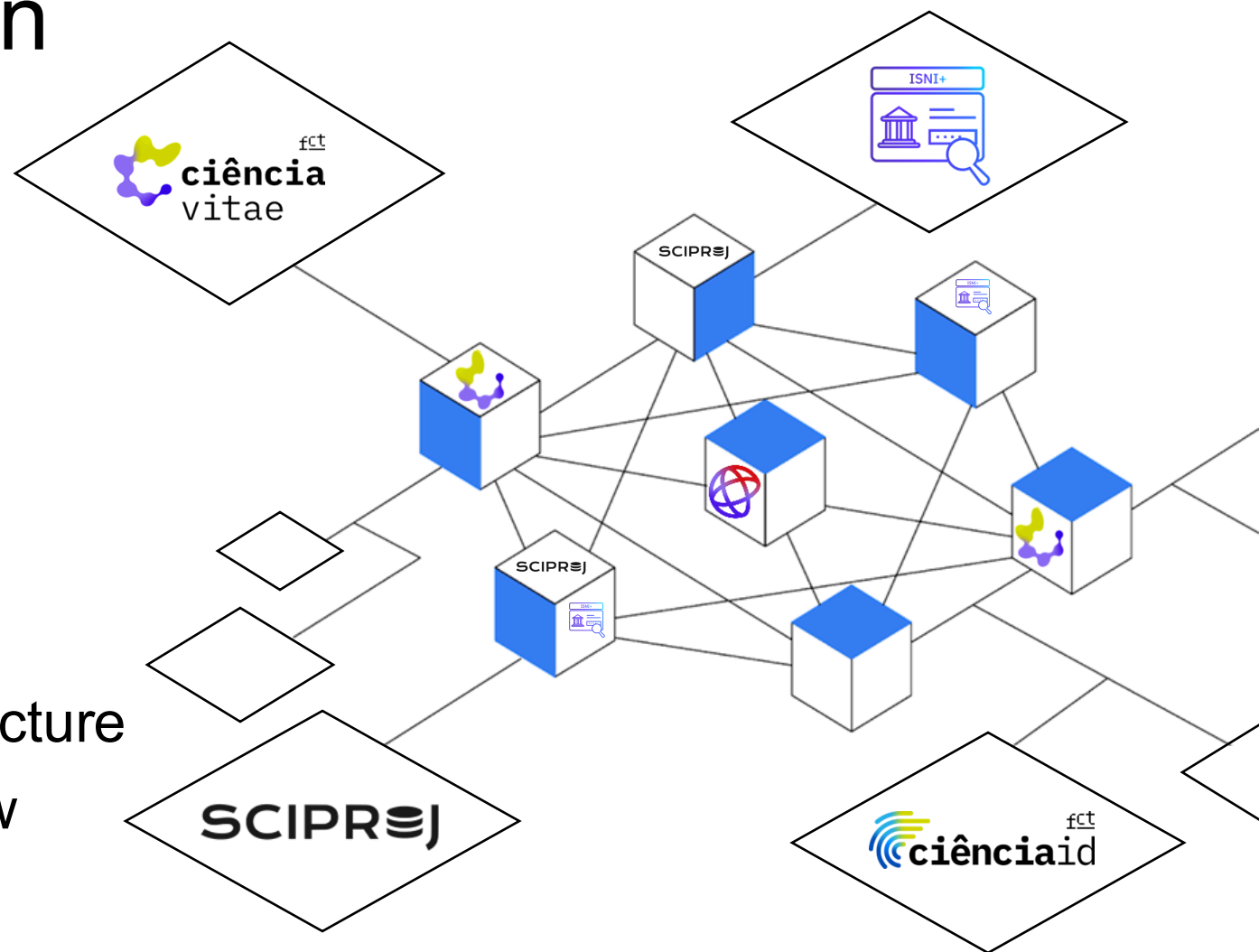
projeto.rcaap.pt/sari/

Comum rcaap

comum.rcaap.pt

Hosting services for institutional digital repositories.

- ✓ **Adoption of common standards**
- ✓ **Integration of systems**
- ✓ **Regulatory framework**
 - Interoperability and infrastructure
 - Promoting an integrated flow in the scientific ecosystem



Work done - Repositories

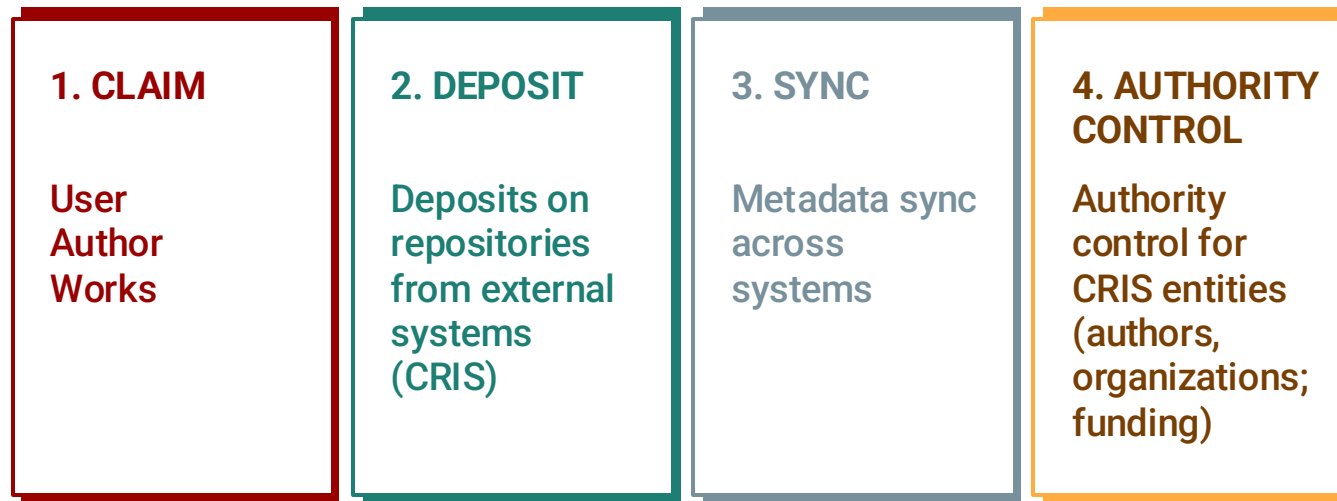
- DSpace 7x adoption with entities and their Relations;
- OpenAire 4.0 guidelines for literature repositories;
- Authority control for entities:
 - Orcid and Ciência ID for authors;
 - SciProj funding information for projects (via OpenAIRE);
- Controlled vocabularies:
 - COAR resource types;
 - COAR version types;
 - COAR access rights;



Work done – RCAAP Portal

- New data model to support Entities and their relations;
- Specs for OpenAIRE Entities
- New APIs (manage and public search);

Integration use cases



- Four main integration use cases was identified:
 - A) User author claim works;
 - B) Deposits on repositories from external sources;
 - C) Synchronization (via CV <-> ORCID);
 - D) Authority control adoption for entities (authors, organizations; funding).

Integration use cases

1. CLAIM

User
Author
Works

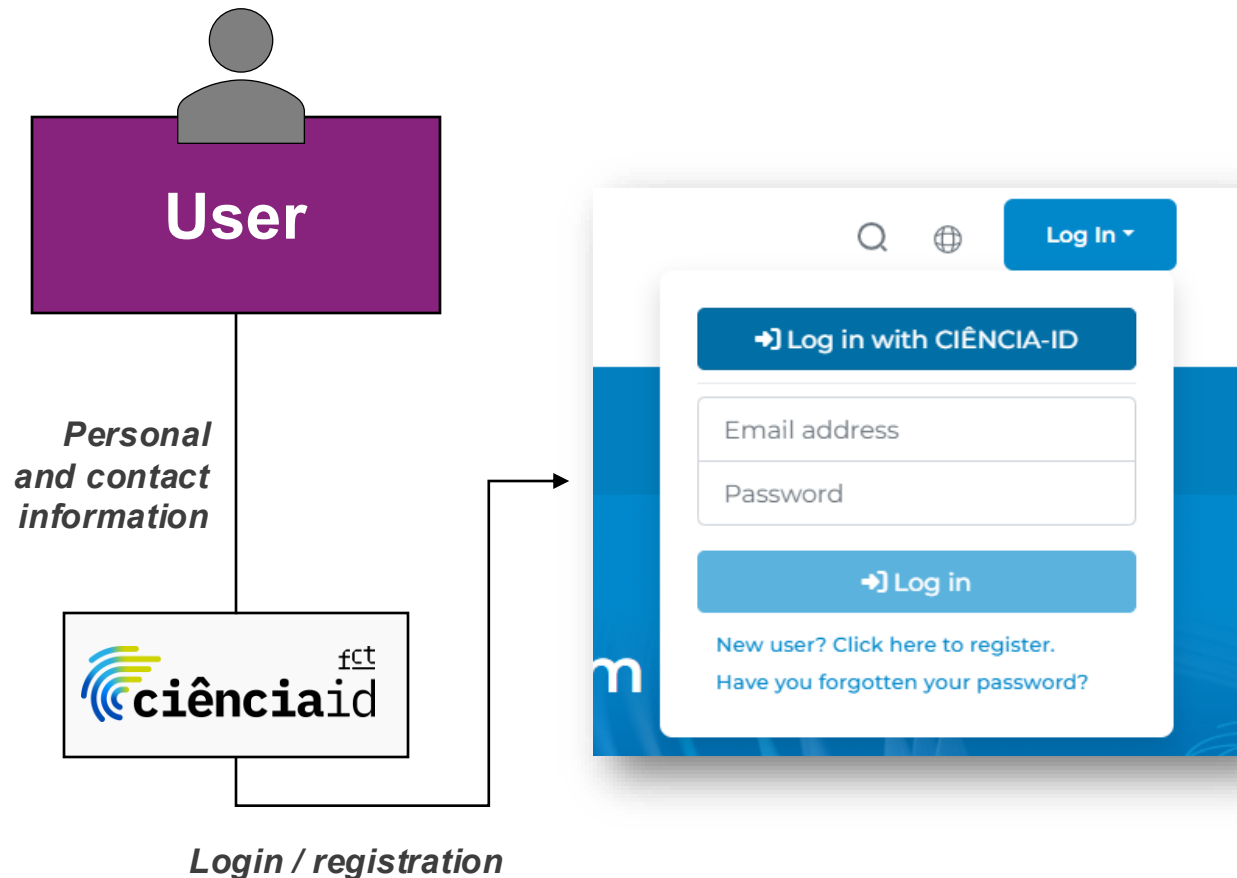
2. DEPOSIT

Deposits on
repositories
from external
systems
(CRIS)

4. AUTHORITY CONTROL

Authority
control for
CRIS entities
(authors,
organizations;
funding)

1 Claim - 1.1 Authentication in repository with cID



- Authentication and authorization
 - Researchers can authenticate in Repository with same method they use in Ciência Vitae platform.

cienciavita.pt/cv/

☆ RSS Telegram Discord Facebook Messenger

All Bookmarks

ToDo'sINDEXARCORPASANAToDo'sPESSOAL

cienciavita

Acad

INÍCIOIDENTIFICAÇÃOFORMAÇÃOPERCURSO PROFISSIONALPROJETOSPRODUÇÕESATIVIDADESDISTINÇÕESNARRATIVO



PAULO ARMANDO SIMÕES LOPES

Sistemas e Tecnologias da Informação (Licenciatura)
Gestor RCAAP (Repositórios Científicos de Acesso Aberto de Portugal)
(Fundação para a Ciência e a Tecnologia, Portugal)

CIÊNCIA ID

4317-2B5C-51C5

Contactos

plopes@fccn.pt

Sugestões+

Produções (10)	Projetos (0)
☐ Selecionar tudo	
☐ Editar	Gamito, Pedro; Jorge Gaspar Oliveira; Brito, Rodrigo; Lopes, Paulo; Diogo Morais; L. Pinto; Luís Rodelo; Gameiro, Fátima; Beatriz Rosa. "Assessing cognitive functions with VR-based serious games that reproduce daily life: Pilot testing for normative values". In <i>Communications in Computer and Information Science</i> . Berlin: Springer, 2015. (Capítulo de livro)
☐ Editar	Oliveira, Jorge; Bento, Bruno; Gamito, Pedro; Lopes, Paulo; Brito, Rodrigo; Morais, Diogo; Gameiro, Fátima. "Cognitive stimulation of alcoholics through VR-based Instrumental Activities of Daily Living". Trabalho apresentado em <i>3rd 2015 Workshop on ICTs for improving Patients Rehabilitation Research Techniques, La Mancha</i> , 2015. (Artigo em conferência)
☐ Editar	Carvalho, José; Lopes, Paulo; Marques, Carla Sofia Fernandes; Vieira, André Manuel Monteiro. "Curadoria e integração de sistemas". 2018. (Artigo em conferência)
☐ Editar	Carvalho, José; Ribeiro, Washington; Matas, Lautaro; Truta, Raquel; Lopes, Paulo. "A curadoria de repositórios e a disseminação em portais de pesquisa". 2019.

Integration use cases

2. DEPOSIT

Deposits on
repositories
from external
systems
(CRIS)

- CV users can submit publications to their repositories if they have not yet been deposited.

Deposit from CV



PAULO LOPES

published CIÊNCIAVITAE



HOME IDENTIFICATION EDUCATION AFFILIATION PROJECTS OUTPUTS ACTIVITIES DISTINCTIONS NARRATIVE



PAULO ARMANDO SIMÕES LOPES

Sistemas e Tecnologias da Informação (Licenciatura)
Gestor RCAAP (Repositórios Científicos de Acesso Aberto de Portugal)
(Fundação para a Ciência e a Tecnologia, Portugal)

CIÊNCIA ID 4317-2B5C-51C5
Contacts plopes@fccn.pt

Suggestions +

Outputs (10)

Projects (0)

☐ Select all

- | | |
|-------------------------------|---|
| ☐ Edit | Gamito, Pedro; Jorge Gaspar Oliveira; Brito, Rodrigo; Lopes, Paulo; Diogo Morais; L. Pinto; Luís Rodelo; Gameiro, Fátima; Beatriz Rosa. "Assessing cognitive functions with VR-based serious games that reproduce daily life: Pilot testing for normative values". In <i>Communications in Computer and Information Science</i> . Berlin: Springer, 2015.
(Book chapter) |
| ☐ Edit | Oliveira, Jorge; Bento, Bruno; Gamito, Pedro; Lopes, Paulo; Brito, Rodrigo; Morais, Diogo; Gameiro, Fátima. "Cognitive stimulation of alcoholics through VR-based Instrumental Activities of Daily Living". Paper presented in <i>3rd 2015 Workshop on ICTs for improving Patients Rehabilitation Research Techniques, La Mancha</i> , 2015.
(Conference paper) |
| ☐ Edit | Carvalho, José; Lopes, Paulo; Marques, Carla Sofia Fernandes; Vieira, André Manuel Monteiro. "Curadoria e integração de sistemas". 2018.
(Conference paper) |
| ☐ Edit | Carvalho, José; Ribeiro, Washington; Matas, Lautaro; Truta, Raquel; Lopes, Paulo. "A curadoria de repositórios e a disseminação em portais de pesquisa". 2019. |

Integration use cases

4. AUTHORITY CONTROL

Authority control for CRIS entities (authors, organizations; funding)



Interoperability
Guidelines

- Common persistent identifiers for unique entities identification to enable precise data matching and linking across systems;
- Authority control for standardized information about authors, institutions, and funding in order to reduce ambiguity and to improve quality.

Authors

×

Local Authors (21)

ORCID (10000)

CIÊNCIAVITAE

Current Selection (0)

Settings

Results per page

5

▼

4317-2B5C-51C5

Search

CIÊNCIAVITAE search results

Now showing 1 - 1 of 1



Lopes, Paulo

<https://www.cienciavitae.pt/4317-2B5C-51C5>

Selected 0 items

Close

Projects

×

Projects

Funding OpenAIRE API

Current Selection (0)

Settings

Results per page

5

▼

mush

Search

Funding OpenAIRE API

Now showing 1 - 5 of 25



Generation, extent, and longevity of magma mush columns

Present work

- Repositories:
 - Upgrade for version 9 of DSpace;
 - Authority control for authors based on CV's Co-Author framework;
- RCAAP Portal
 - Upgrade to version 5 of aggregator software – LaReferencia (new API methods that improve integration between systems).

Impact and Strategic Value

- Practical Interoperability
 - Integration of RCAAP with Ciência Vitae turns PTCRIS interoperability vision into real, usable scientific solutions.
- Normative Framework and Infrastructure
 - A solid normative framework combined with technology transforms scientific data management and sharing.
- Enhanced Scientific Ecosystem
 - Seamless data flow creates an efficient ecosystem boosting productivity, transparency, and scientific impact.

Thank you for your attention!

Paulo Lopes
plopes@fccn.pt

PTCRIS Integrations

National Systems - POLEN

Filipa Pereira

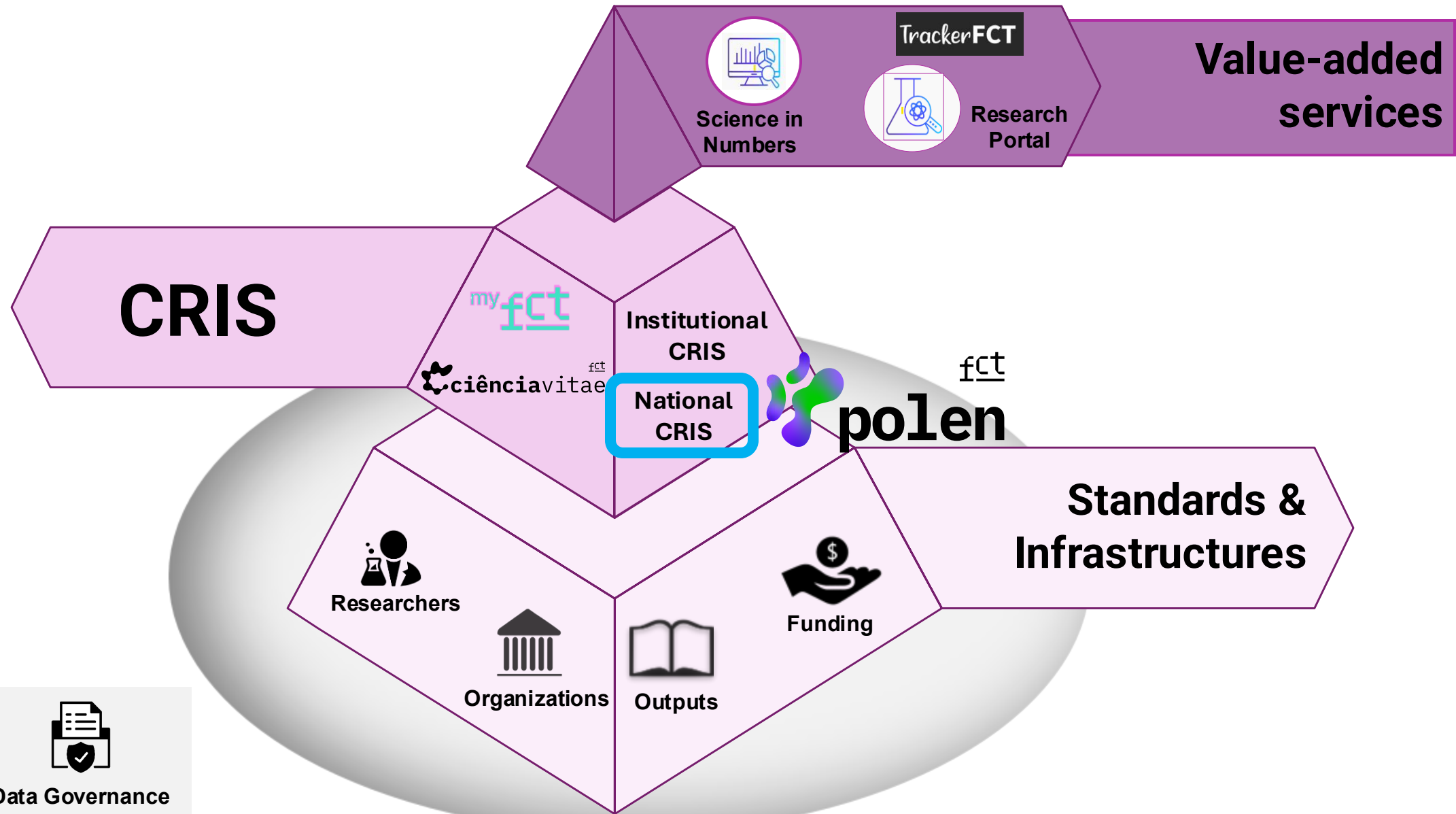
filipa.pereira@fccn.pt



[8A13-4EA4-A512](#)



[0000-0002-5732-9996](#)



Research Data Management @FCT|FCCN

1

Promote the practice of
Open Science and
FAIR principles

2

Provide **digital**
services and
infrastructure

3

Support the community
with **specialized support**
services

4

Ensuring the
reuse of scientific
results

po1en DataHub

- National and public research data repository

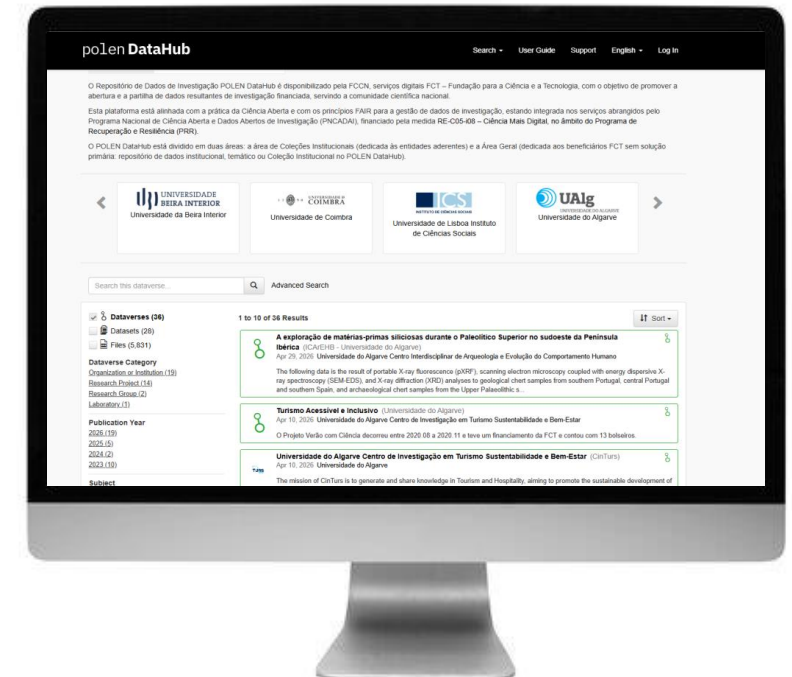
- Built on The **Dataverse**[®] Project

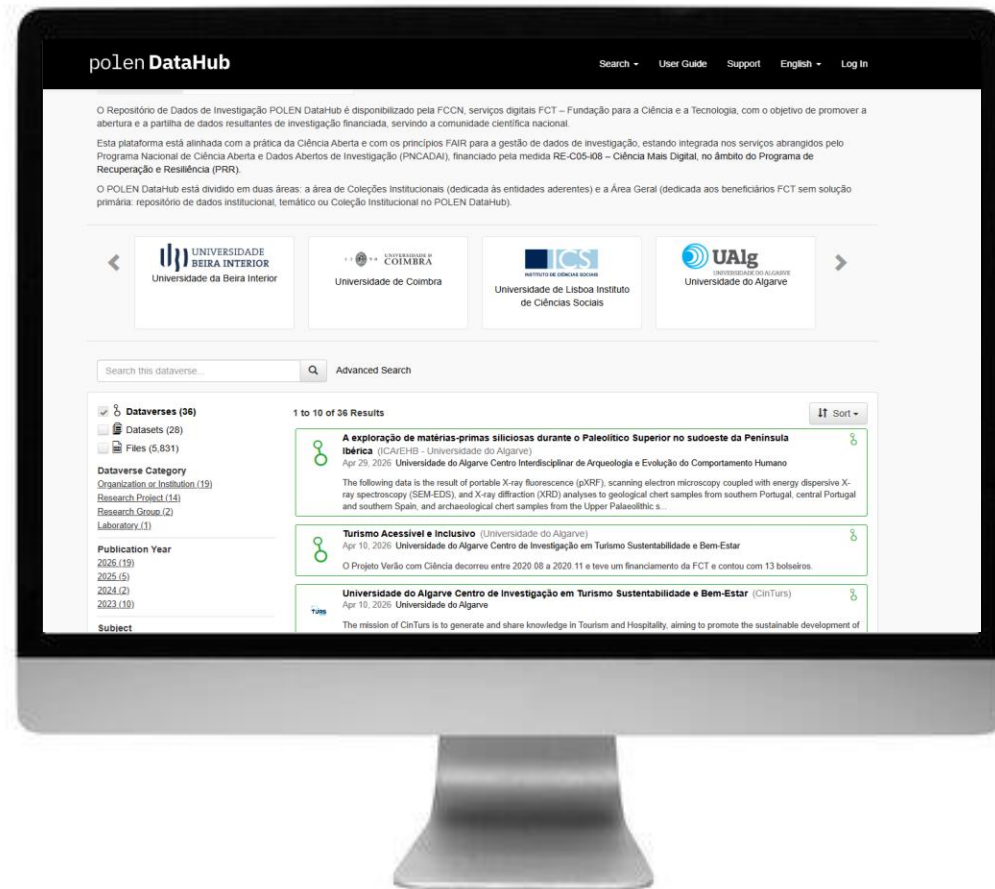
- Implemented by po1en and CNCA Centro Nacional de Computação Avançada

- Two approaches:

- Institutional
- General

- Long-tail repository

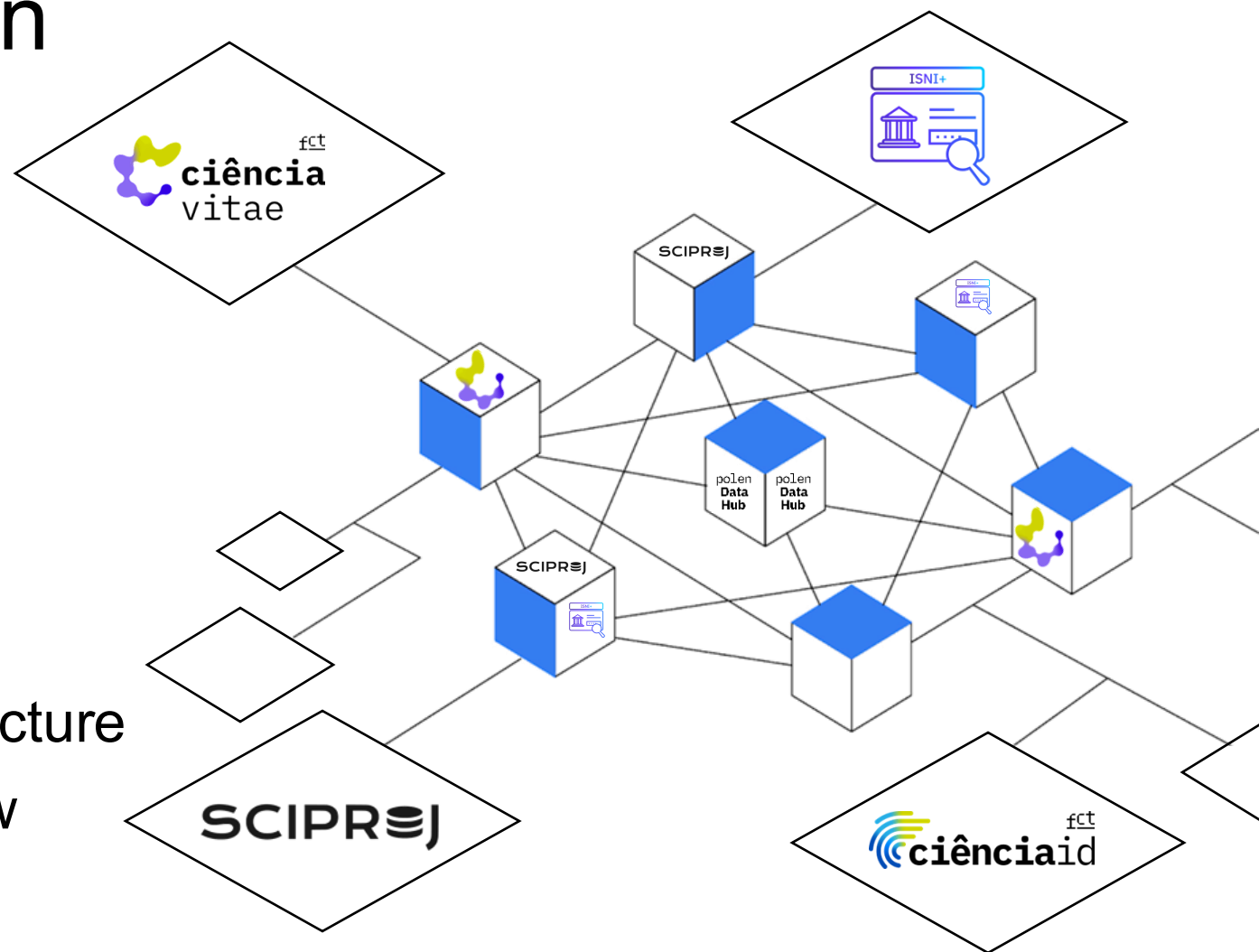




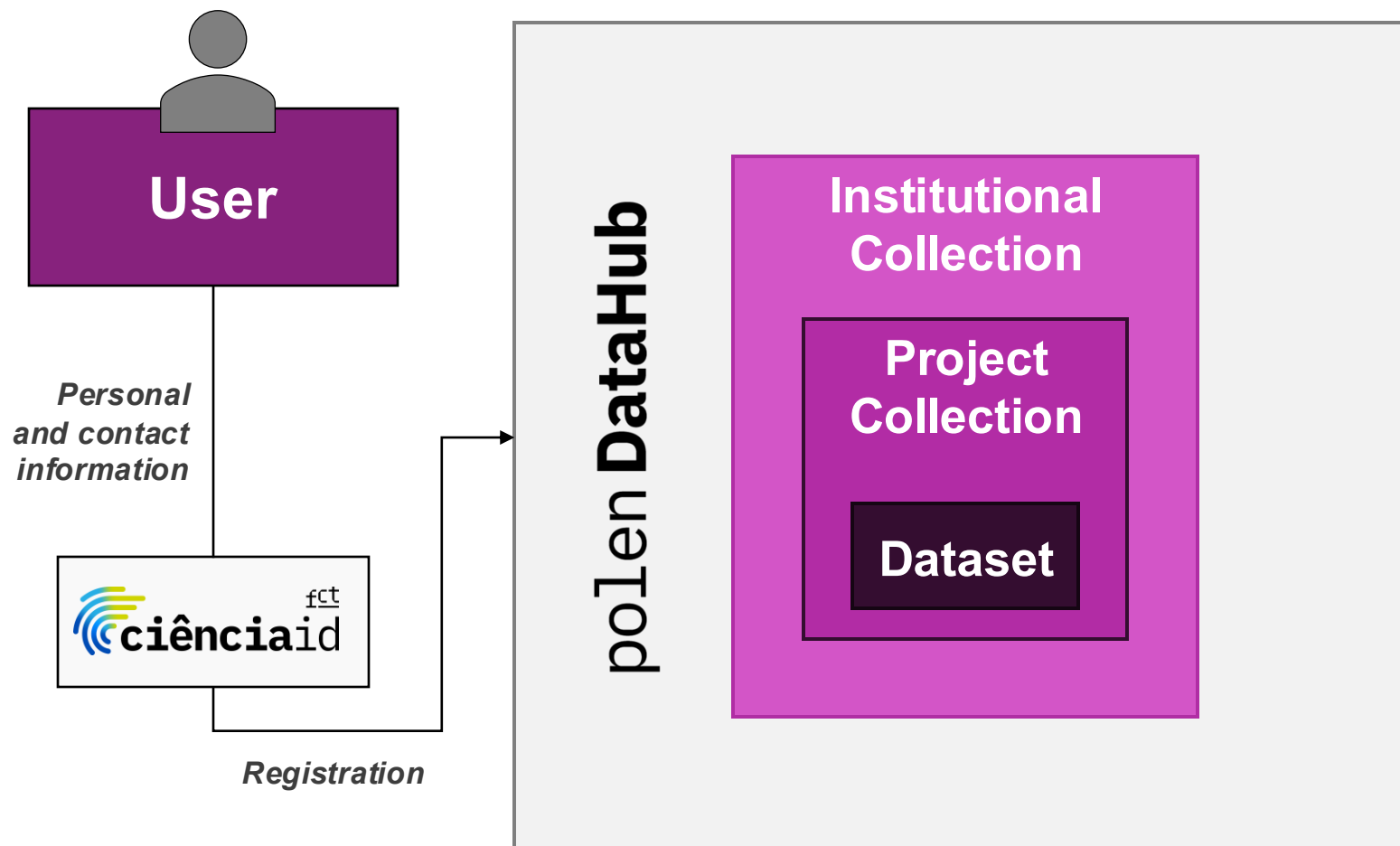
polen DataHub

How to take advantage of the information that already exists in the scientific and academic ecosystem?

- ✓ **Adoption of common standards**
- ✓ **Integration of systems**
- ✓ **Regulatory framework**
 - Interoperability and infrastructure
 - Promoting an integrated flow in the scientific ecosystem

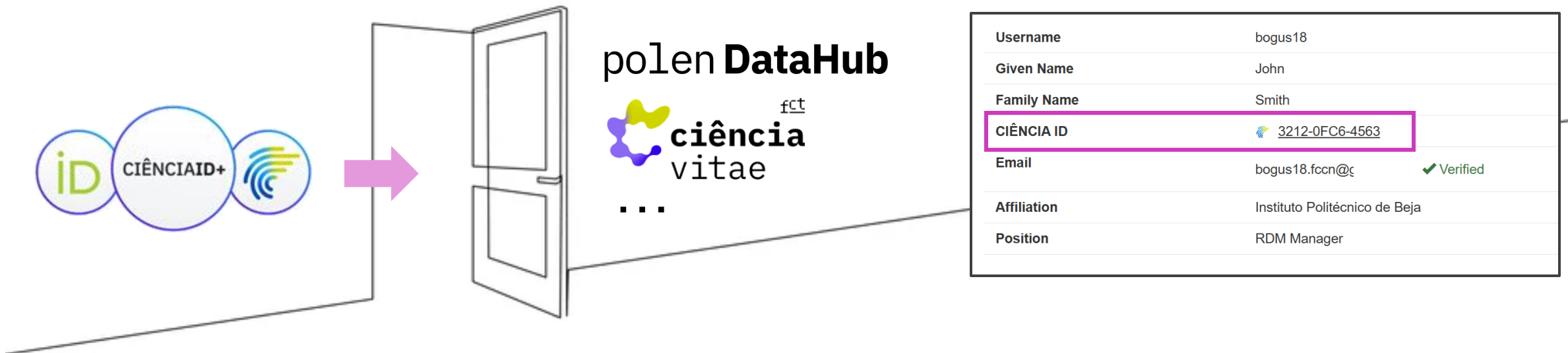


PTCRIS-POLEN DataHub interoperability



CIÊNCIA ID+

- ❑ Identifier + Personal Information + Contact Information
- ❑ The use of the **CIÊNCIAID** identifier allows the linkage of **POLEN DataHub** with the **CIÊNCIAVITAE** records

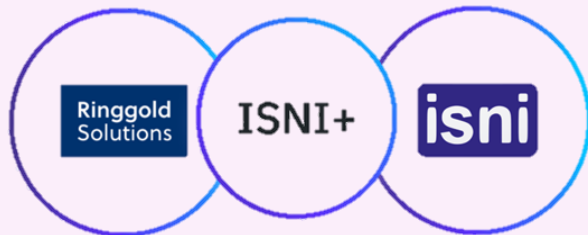




ISNI+

- ORG identifiers that ensure **data quality** and **consistency**
- Institutions, in POLEN DataHub, follow a **standardized and structured list** of national organizations and with unambiguous identification

polen **DataHub**



Organizations PIDs: bridge organization identifiers

GET /services/resolve/{type} Fetch all identifiers for an specific organization

API



**Consistent
record of
institutions**

Institution/Project Search	
ciências	Q
Name	Identifier
Academia das Ciências de Lisboa	0000000122897136
Academia de Ciências Farmacêuticas de Portugal	0000000527998867
Associação Lusófona para o Desenvolvimento da Investigação e Ensino em Ciências da Saúde	000000048517253X
Associação Para as Ciências do Mar	0000000467811211
Associação para o Desenvolvimento de Estudos Aplicados em Ciências Empresariais	0000000464208177
Associação Portuguesa de Ciências da Comunicação	0000000480327344

- Detailed information on **national and international funding** in Portugal
- Confidence in the information stored



polen DataHub

Institution/Project Search

Open innovation Hub for Irrigation Systems in Mediterranean agriculture	PRIMA/0005/2019	
I3H2020 .: Investigação e Inovação no IPLeiria rumo ao Horizonte 2020	CENTRO-01-0145-FEDER-017410	
I4M - Inovação no Micro Molde e Micro Manipulação	C30/2015/17703	
I9LOGO .: Inovação no desenvolvimento e produção de Logotipos para o automóvel	P40/2020/72607	
AI in Healthcare Innovation and Entrepreneurship: Current AI tools	2023.18431.ICDT	



SciPROJ: funding database

GET	/services/searches/projects	Fetch all projects accordingly with the filter criteria
GET	/services/searches/projects/{id}/	Fetch an specific project
GET	/services/searches/projects/all	Fetch all projects
GET	/services/searches/projects/dump	Fetch all projects
GET	/services/searches/projects/endDate	Fetch all projects accordingly with the filter criteria
GET	/services/searches/projects/startDate	Fetch all projects accordingly with the filter criteria



■ Central service

- Widely used
- Integrates with national and international initiatives
- Information in and out





Filipa Pereira
CIÊNCIAVITAE publicado

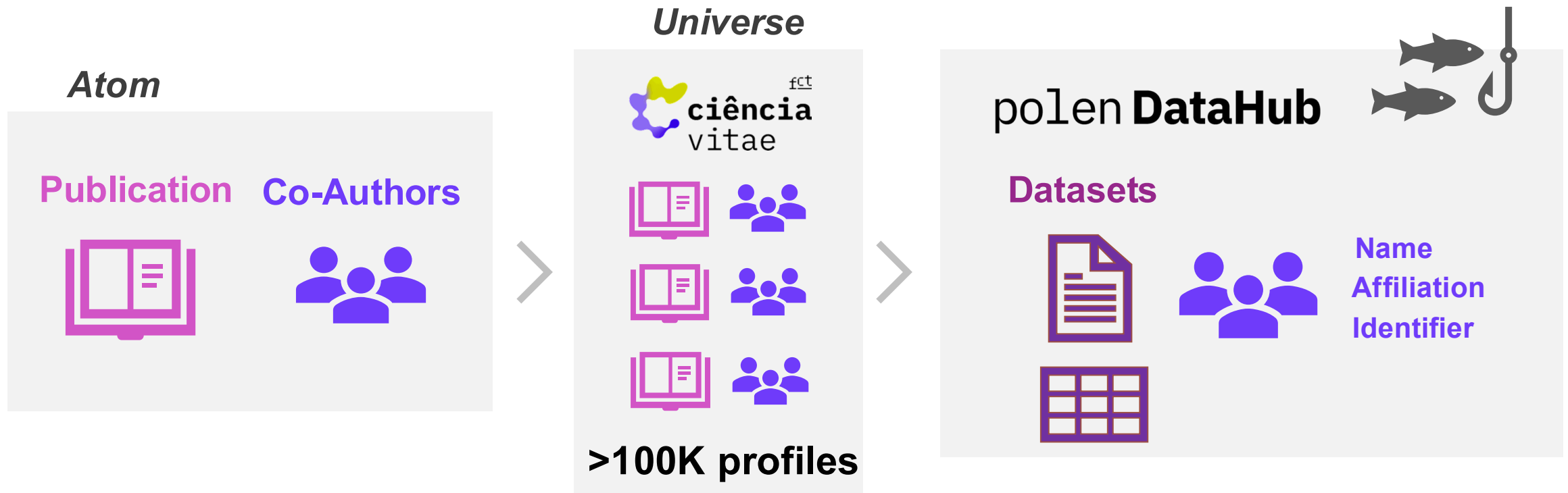

INÍCIO IDENTIFICAÇÃO FORMAÇÃO PERCURSO PROFISSIONAL PROJETOS PRODUÇÕES ATIVIDADES DISTINÇÕES NARRATIVO



FILIPA PEREIRA
 Biomedicina Farmacêutica (Mestrado)
 Gestão de Ciência e Tecnologia (Fundação para a Ciência e a Tecnologia, Portugal)
CIÊNCIA ID 8A13-4EA4-A512
Contactos filipa.pereira@fccn.pt

Why use the Co-Authors framework?

- Collaboration networks (**publications–data**)
- Reuse of established information



Co-Authors framework



Authors extended search

Full name	Bibliographic citation name	Affiliation	CIÊNCIA ID	ORCID ID	
lipa pereira	Bibliographic citation nam	Affiliation	CIÊNCIA ID	ORCID ID	SEARCH

Search results

Name	Citation names	Affiliation	Actions
 Filipa Pereira 8A13-4EA4-A512	Pereira, Filipa		⊕ Add
 Filipa Pereira Costa 0311-FD50-S5E8	Filipa Pereira Costa		⊕ Add
 Filipa Pereira da Cunha Mota CB10-6A0F-B13B	Mota, Filipa		⊕ Add
 FILIPA PEREIRA SARAIVA DE ALMEIDA 3414-BDA7-9B21	Almeida, Filipa	Trabalhador Independente, Portugal	⊕ Add

« Prev 1 ... 4 5 6 7 8 9 10 11 12 13 » 41/45 of 73

Can't find what you're looking for?

polen DataHub

Name

Author Name	Citation Name	Affiliation	Identifier Schema	Identifier	
 Filipa Pereira	Pereira, Filipa	Fundação para a Ciência e a Tecnologia	CIENCIAID	8A13-4EA4-A512	⬇
 Filipa Pereira Costa	Filipa Pereira Costa		CIENCIAID	0311-FD50-S5E8	⬇
 Filipa Pereira da Cunha Mota	Mota, Filipa		CIENCIAID	CB10-6A0F-B13B	⬇
 FILIPA PEREIRA SARAIVA DE ALMEIDA	Almeida, Filipa	Trabalhador Independente, Portugal	CIENCIAID	3414-BDA7-9B21	⬇
 Filipa Resende Jorge Pereira Santos	Pereira Santos, Filipa		CIENCIAID	4B1F-C2F2-A86E	⬇

« Prev 1 ... 4 5 6 7 8 9 10 11 12 13 14 15 Next »

If it is possible with authors... how about with publications?

Related Publications



4.2
Million
Publications

polen DataHub

Select a scientific output to add

Karimi. Corresponding author: Longsen Gao. (2026) .Information-theoretic
formation Fusion, 131. 10.1016/j.inffus.2026.104193. <https://arxiv.org/>

parental effects of estradiol and progesterone on human T cell activation in
<https://publons.com/wos-op/review/11509970/>.

ro ozuna. (2025). CROMODINÁMICA Y PREDICCIONES de 3I ATLAS.
I729900018.

unity-Based Tourism in National Parks in Developed and Developing
il Park, Nigeria. Vol. 2. <https://support.clarivate.com/>

volatility using novel supervised statistical learning models. https://I-List?language=en_US.

Preprint

Book
Review

Online
Resource

Report

Thesis/
Dissertation

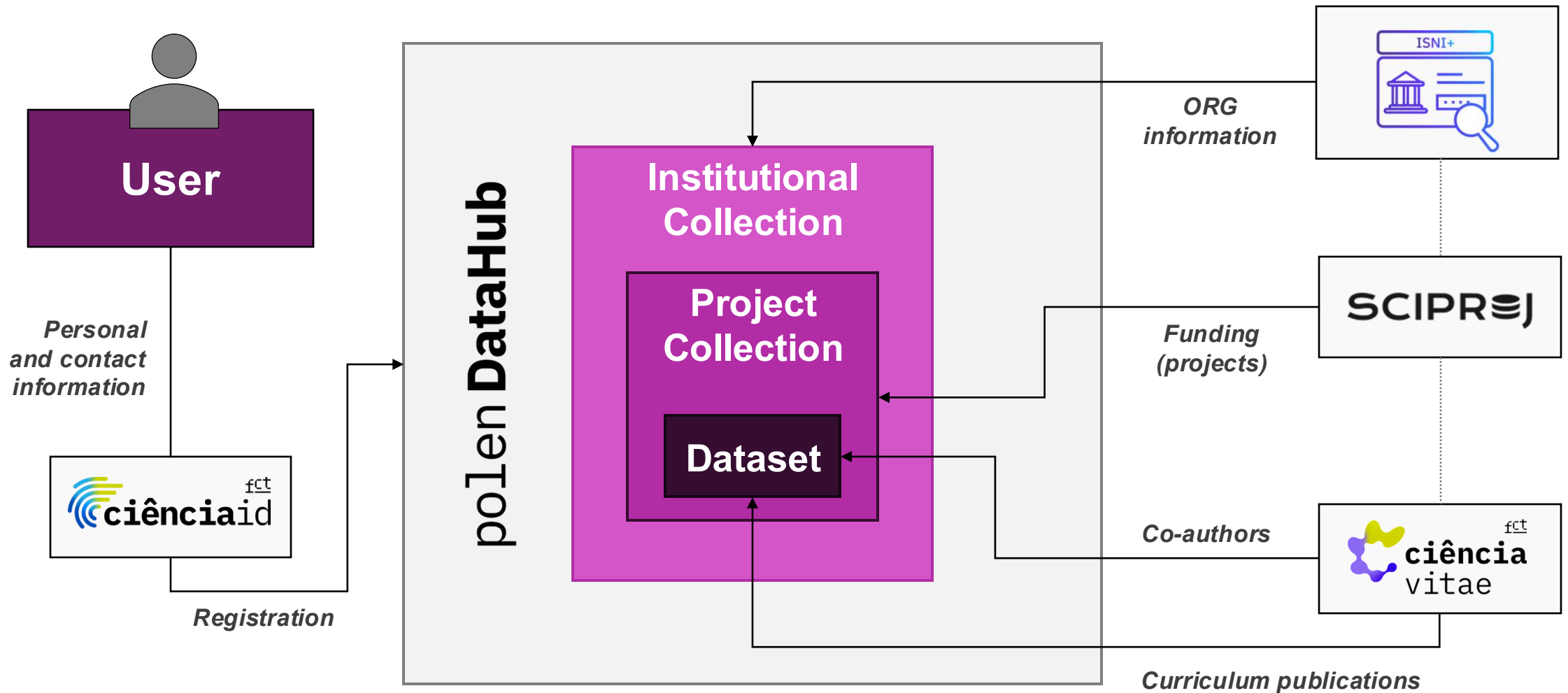
Relation Type ?

Select...

Citation ?

Q

PTCRIS-POLEN DataHub interoperability



Interoperability

- **Reuse of information**
 - FAIR principles
 - Each platform has its purpose
 - Avoid repeating information on a platform where that information is not central
- **Fewer hours making constant insertions!
More time to dedicate to SCIENCE!**



Thank you for your attention!

Filipa Pereira
filipa.pereira@fccn.pt

Value-added services

Science in Numbers

Filipa Pardelha

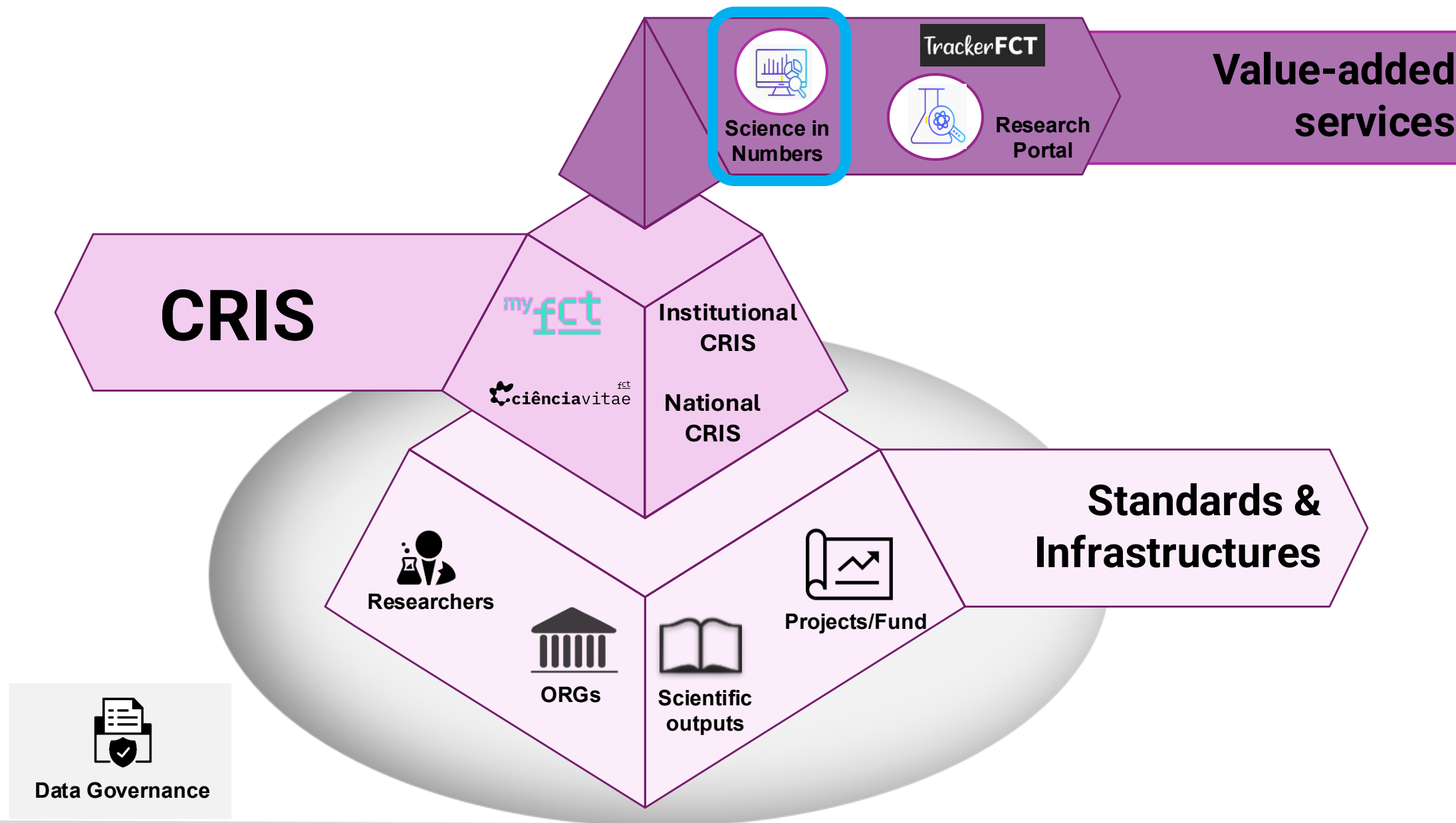
filipa.pardelha@fccn.pt



[B218-9E49-D2BA](https://orcid.org/B218-9E49-D2BA)



[0000-0001-6282-0272](https://orcid.org/0000-0001-6282-0272)



Analyze the S&T funding granted in Portugal

Analyze national scientific outputs

Monitoring and compliance of scientific outputs in open access

- Open Access
- Transformative agreements with B-on
- Spending on APCs
- Monitoring and compliance with OS FCT policies

Science in numbers | Potential users



**Minister of Education,
Science, and Innovation**



Funders



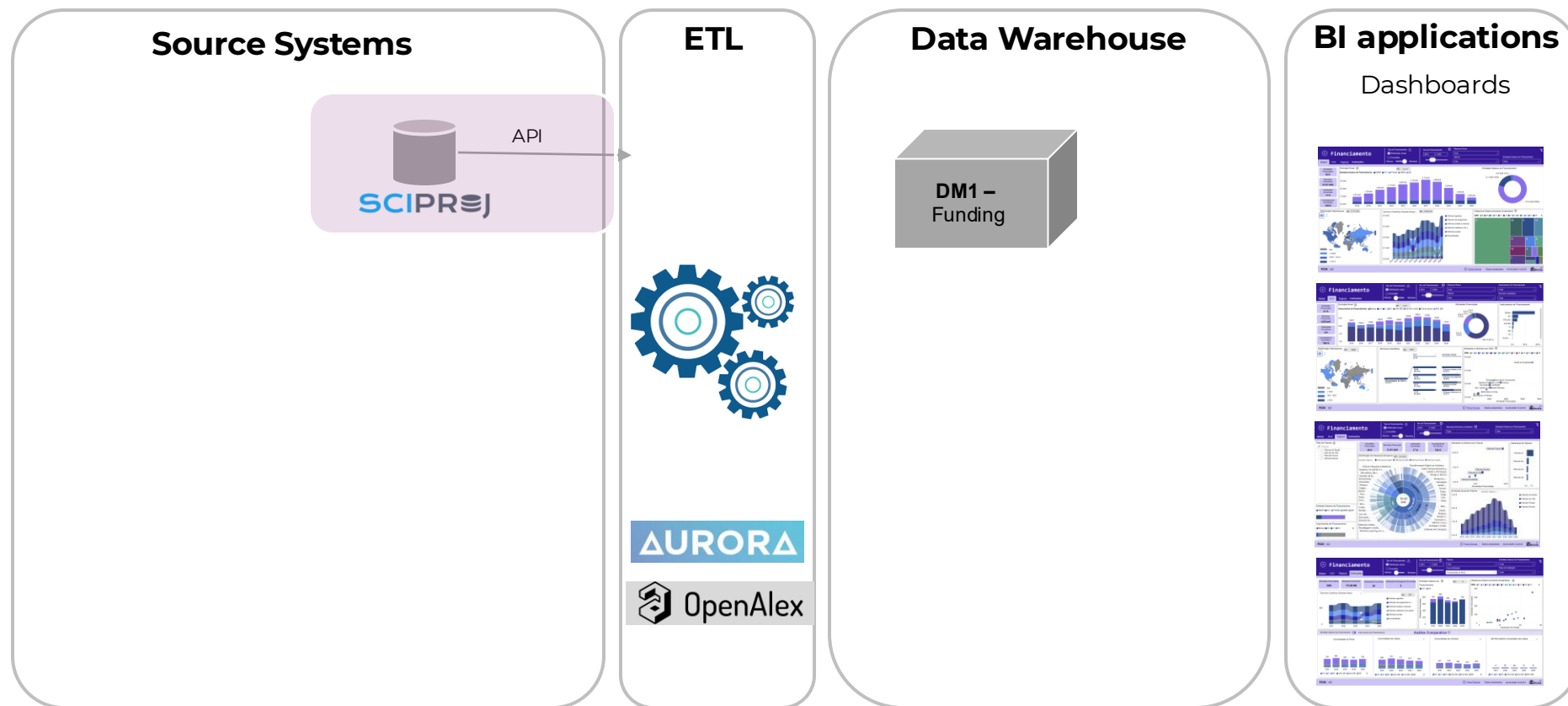
Institutions



Science in numbers | Architecture and source systems



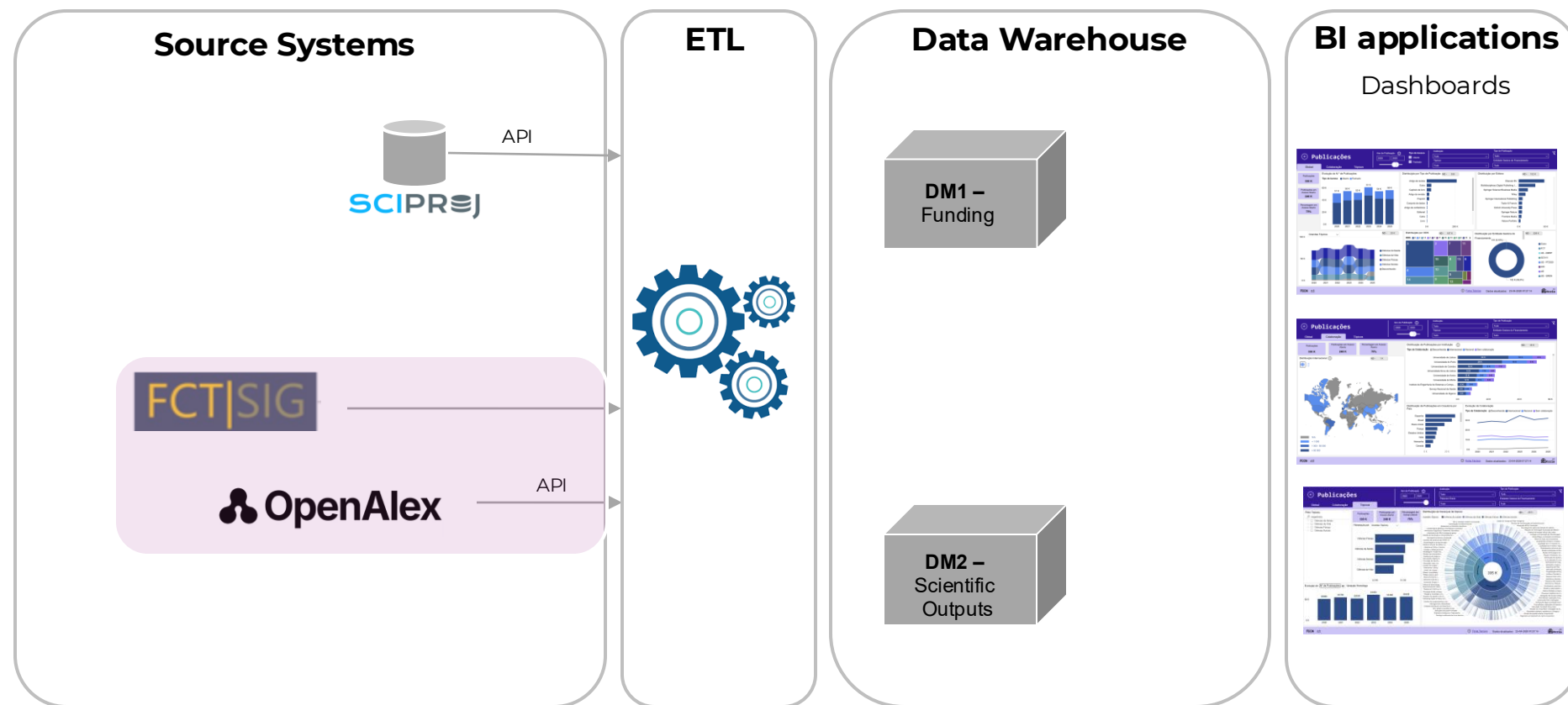
DM1 – Funding →
Analyze the S&T
funding granted in
Portugal



Science in numbers | Architecture and source systems

DM1 – Funding →
Analyze the S&T
funding granted in
Portugal

**DM2 – Scientific
Outputs →**
Analysis of national
scientific production



Science in numbers | Architecture and source systems

DM1 – Funding →

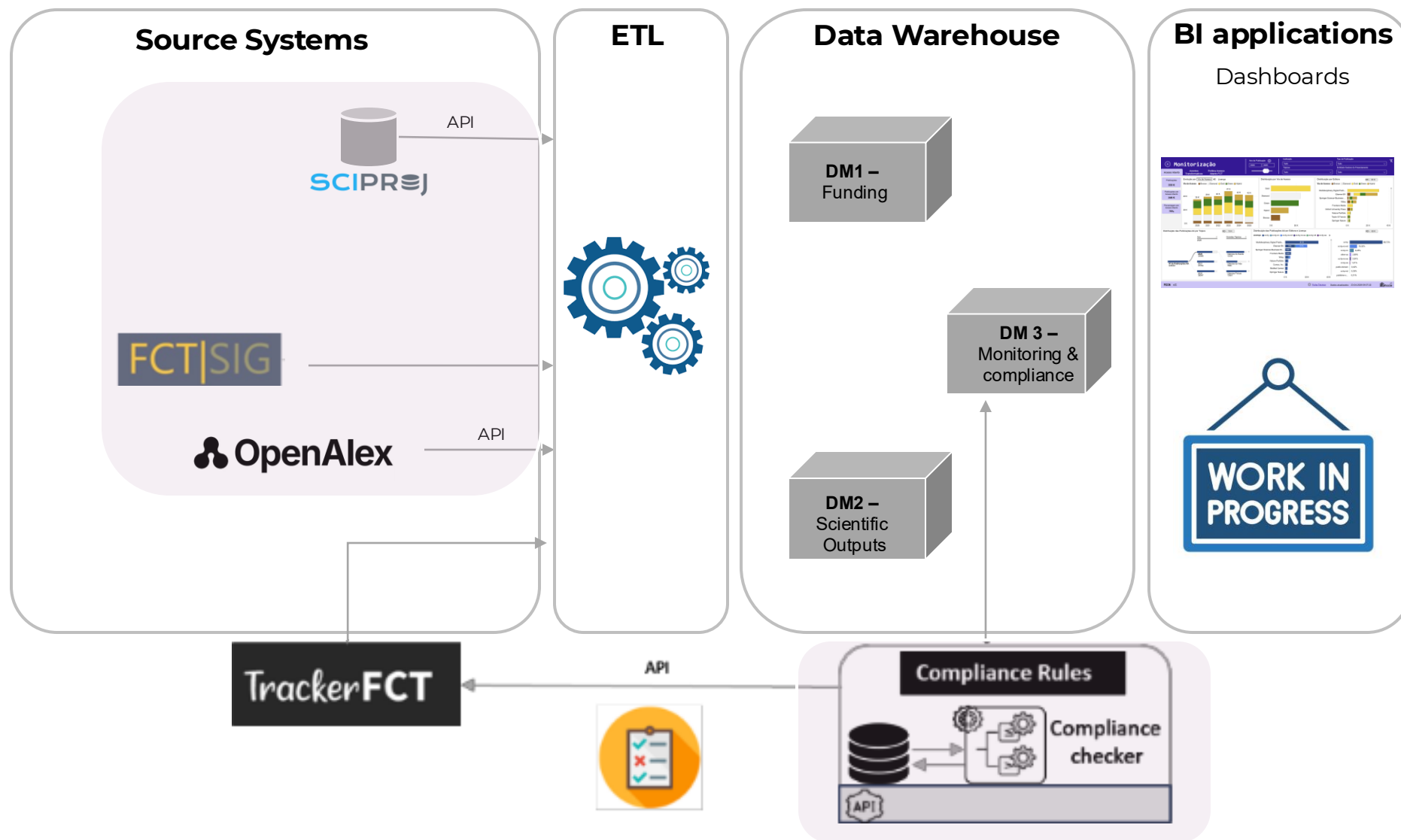
Analyze the S&T funding granted in Portugal

DM2 – Scientific Outputs →

Analysis of national scientific production

DM3 – Monitoring & Compliance →

Analysis of open access indicators and compliance of scientific outputs resulted of FCT funding with OS FCT policies



Ciência em Números

Financiamento



Publicações



Monitorização



Ciência em Números

Financiamento



DM1

Publicações



DM2

Monitorização



DM3



Global Funding



Funding analysis by topics



FCT Funding



Institutional Dashboard



Global



Colaboration

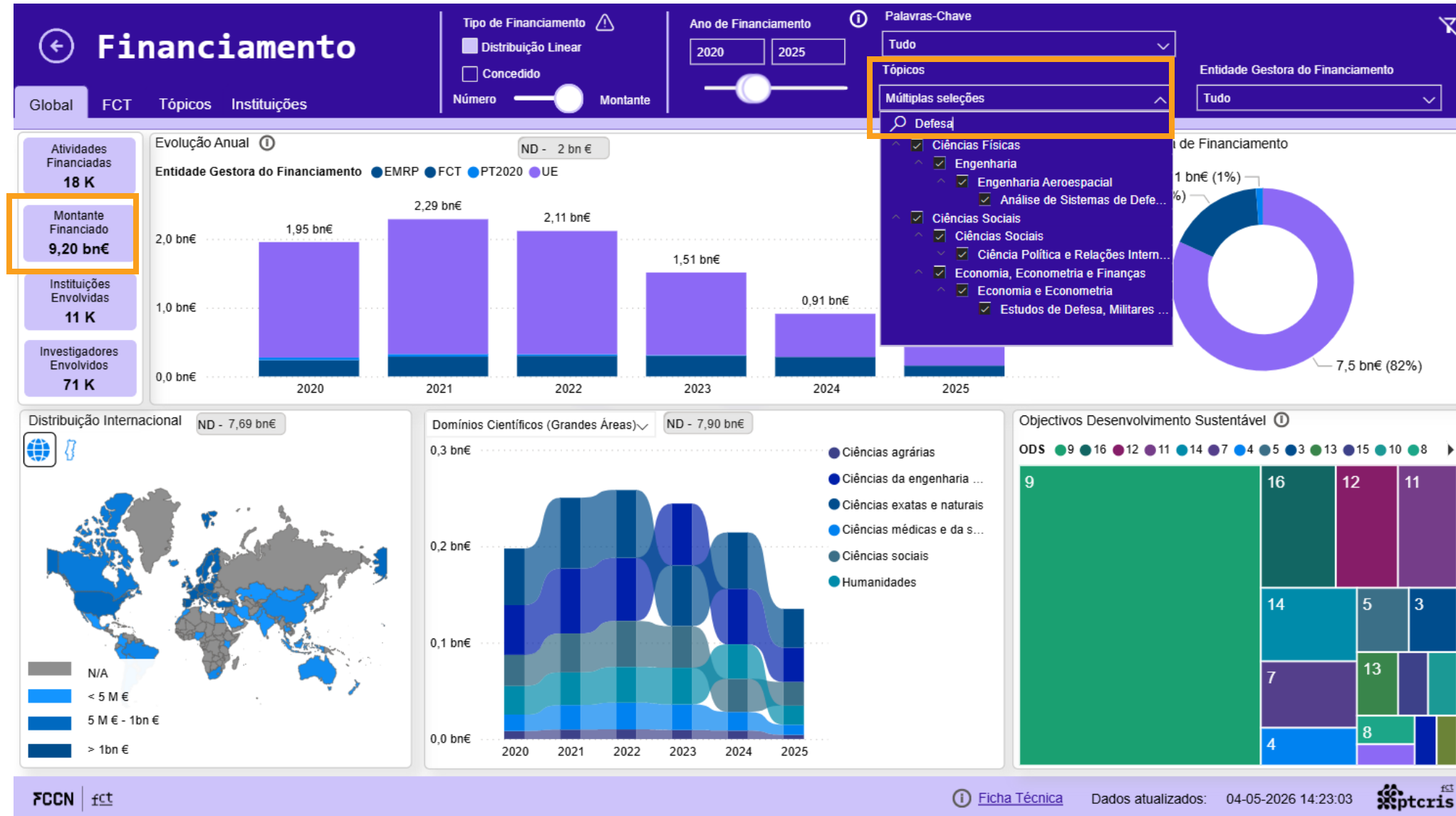


Publication analysis by topics

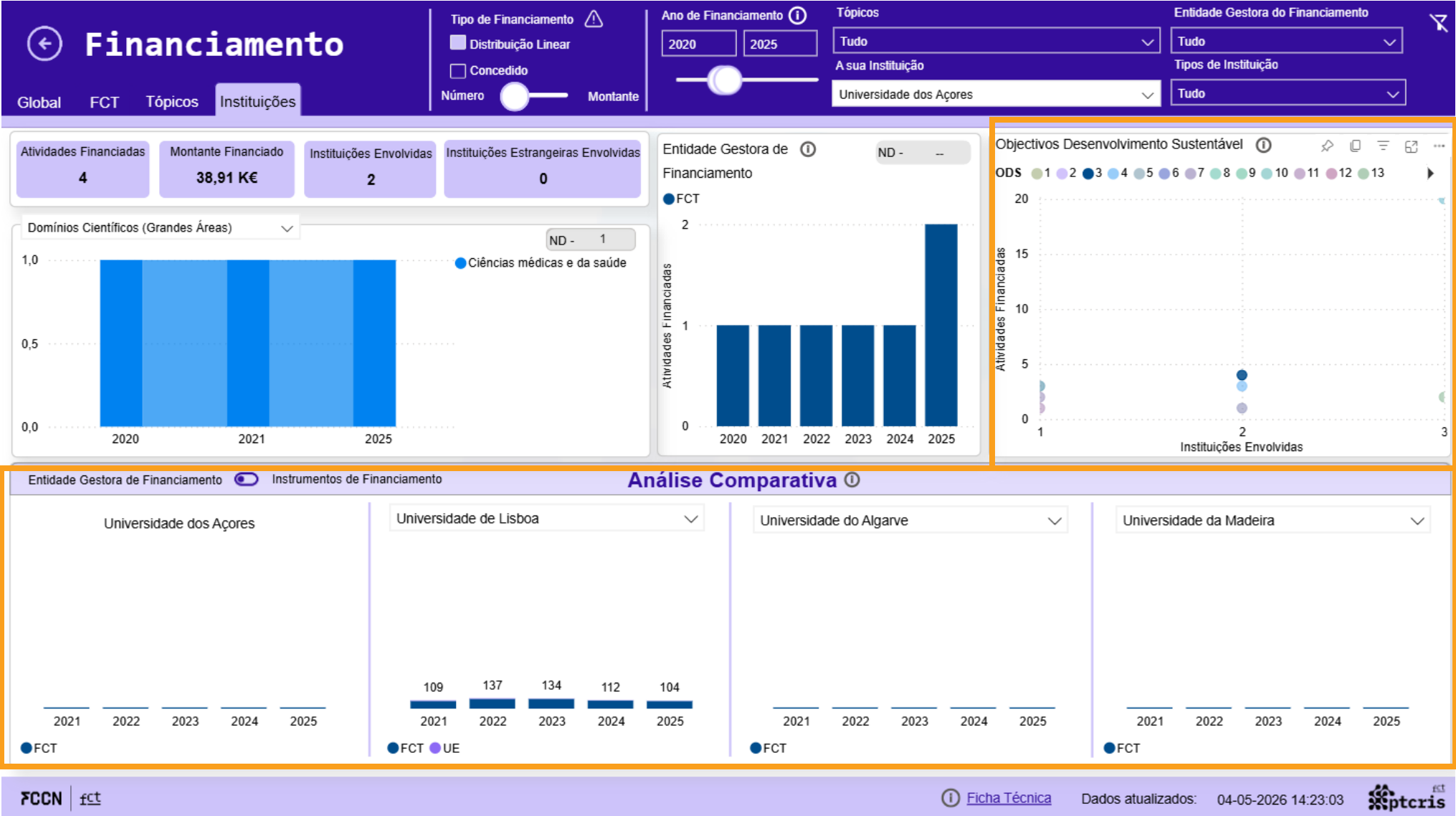


Open Access Dashboard

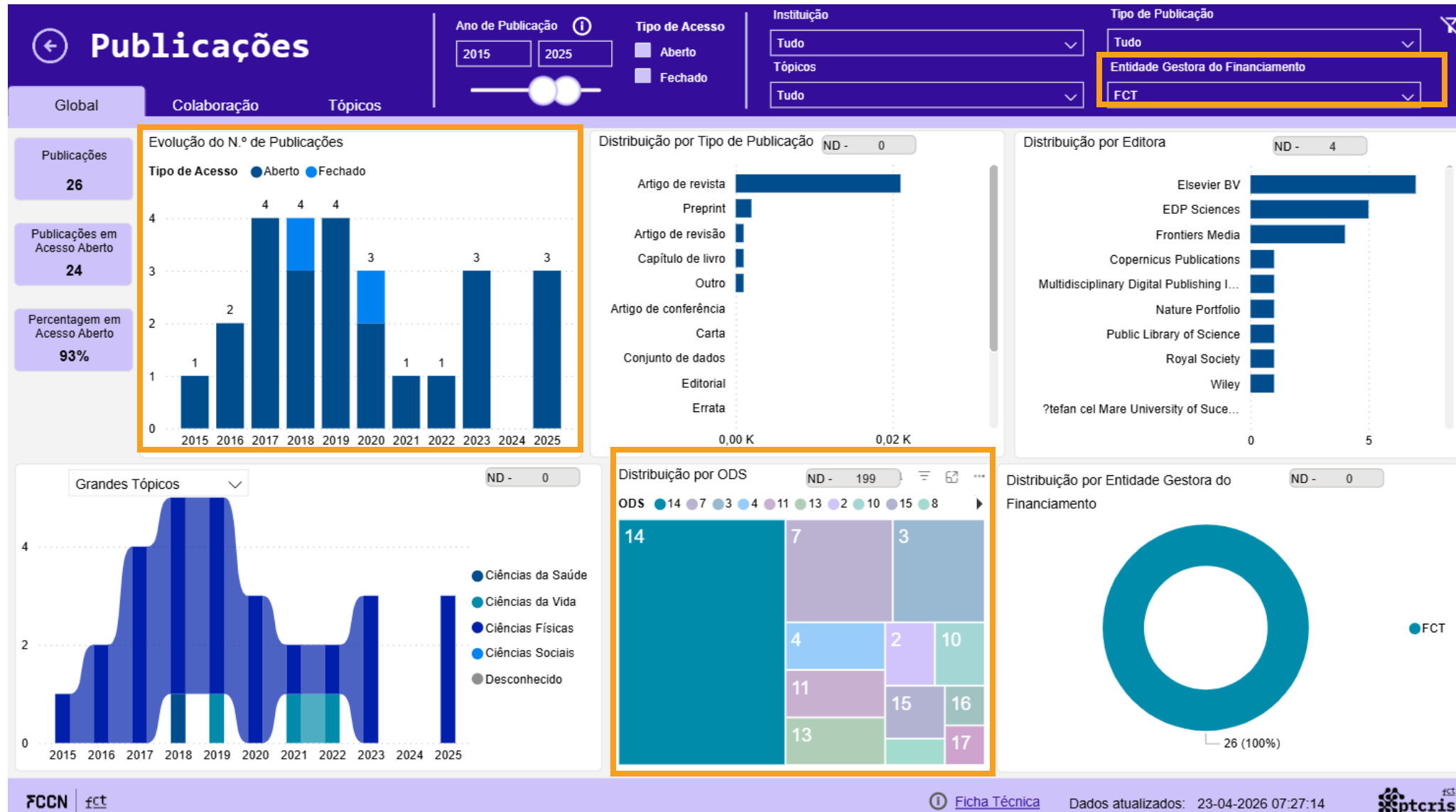
What is the amount of funding allocated by the various funding agencies to the defense sector between 2020 and 2025?



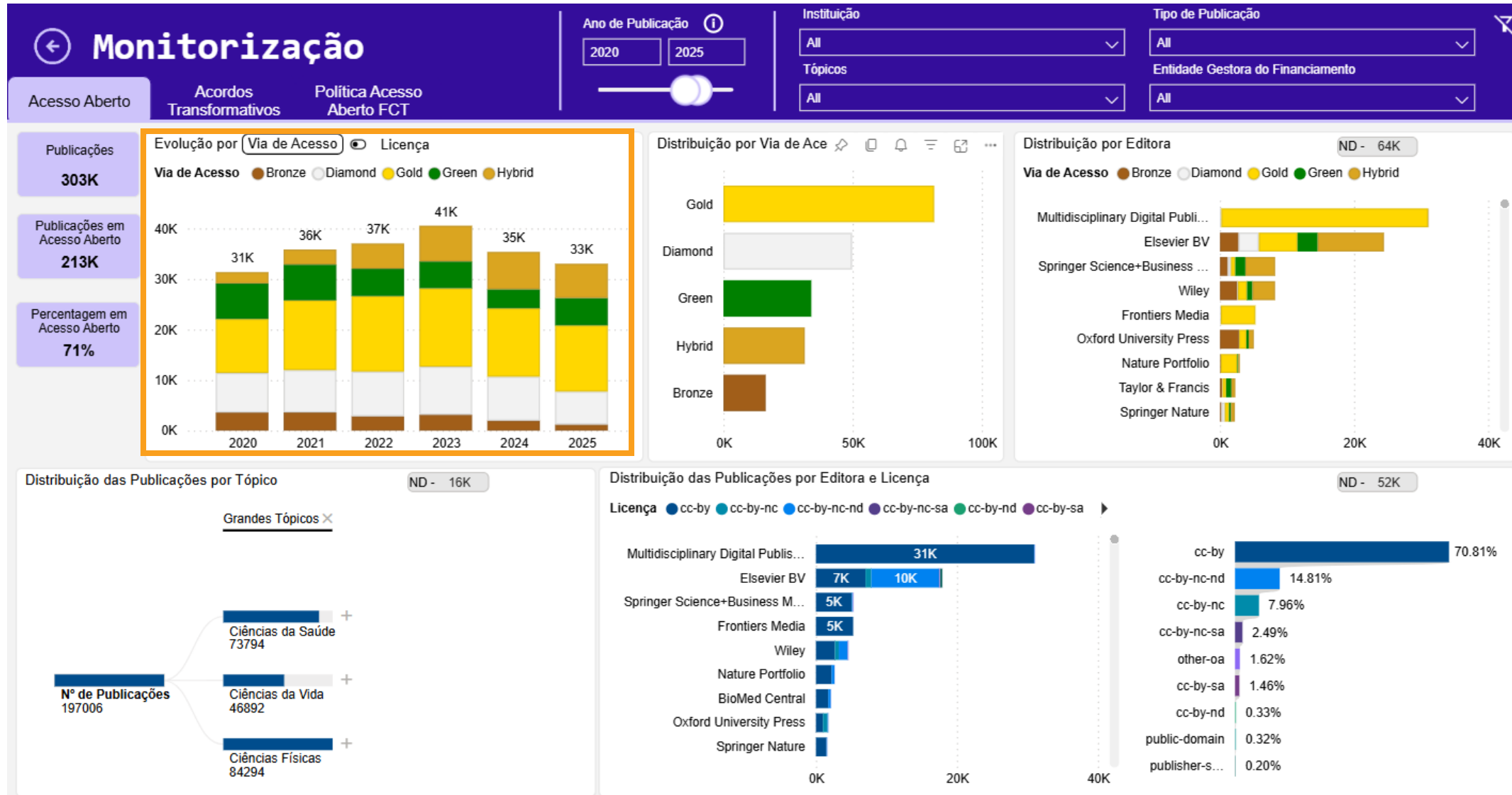
How has the funding raised by a given institution for projects aligned with SDG 3 evolved compared to similar institutions?

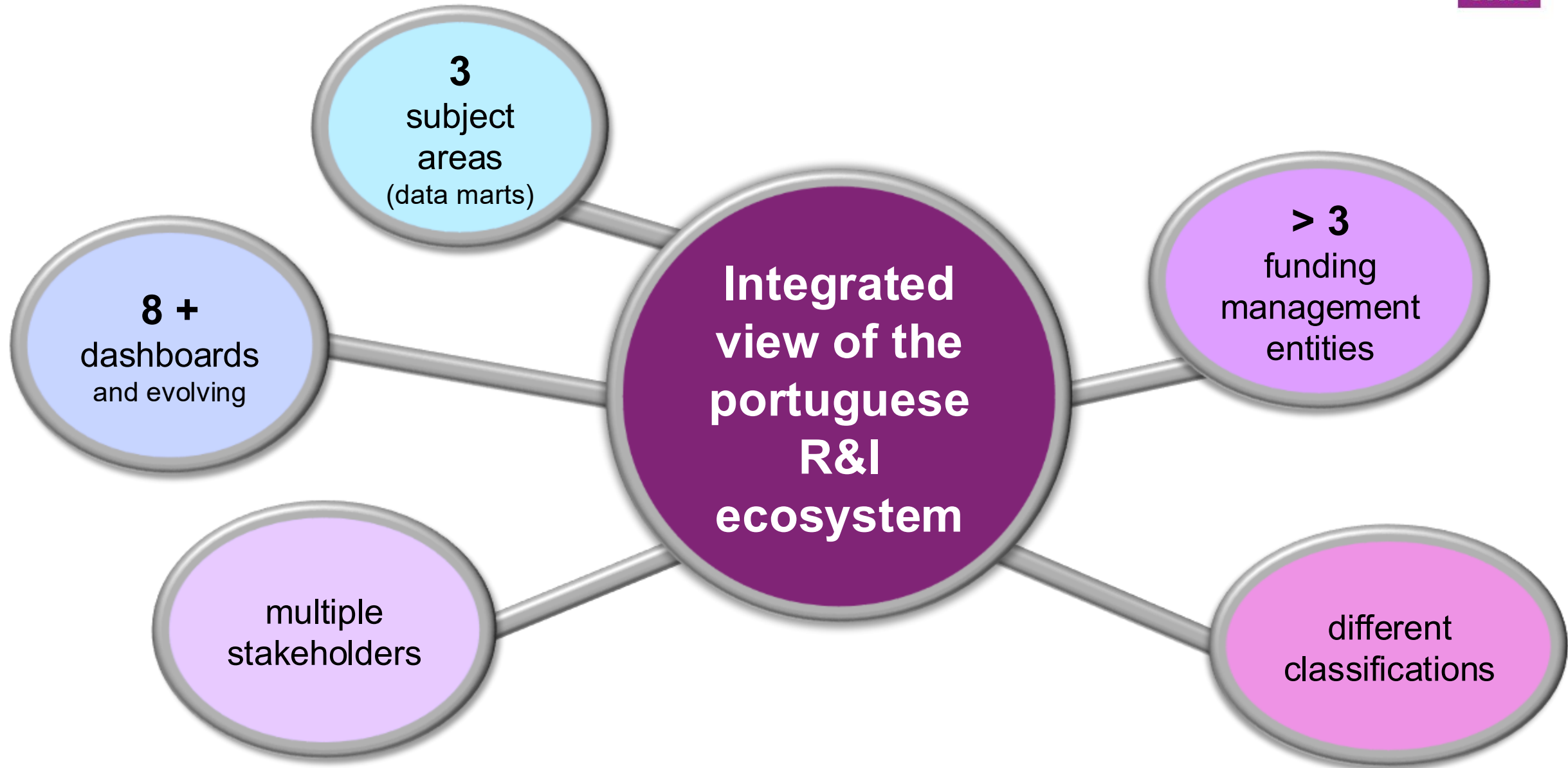


How has scientific research related to SDG 14 —life below water—funded by FCT evolved?



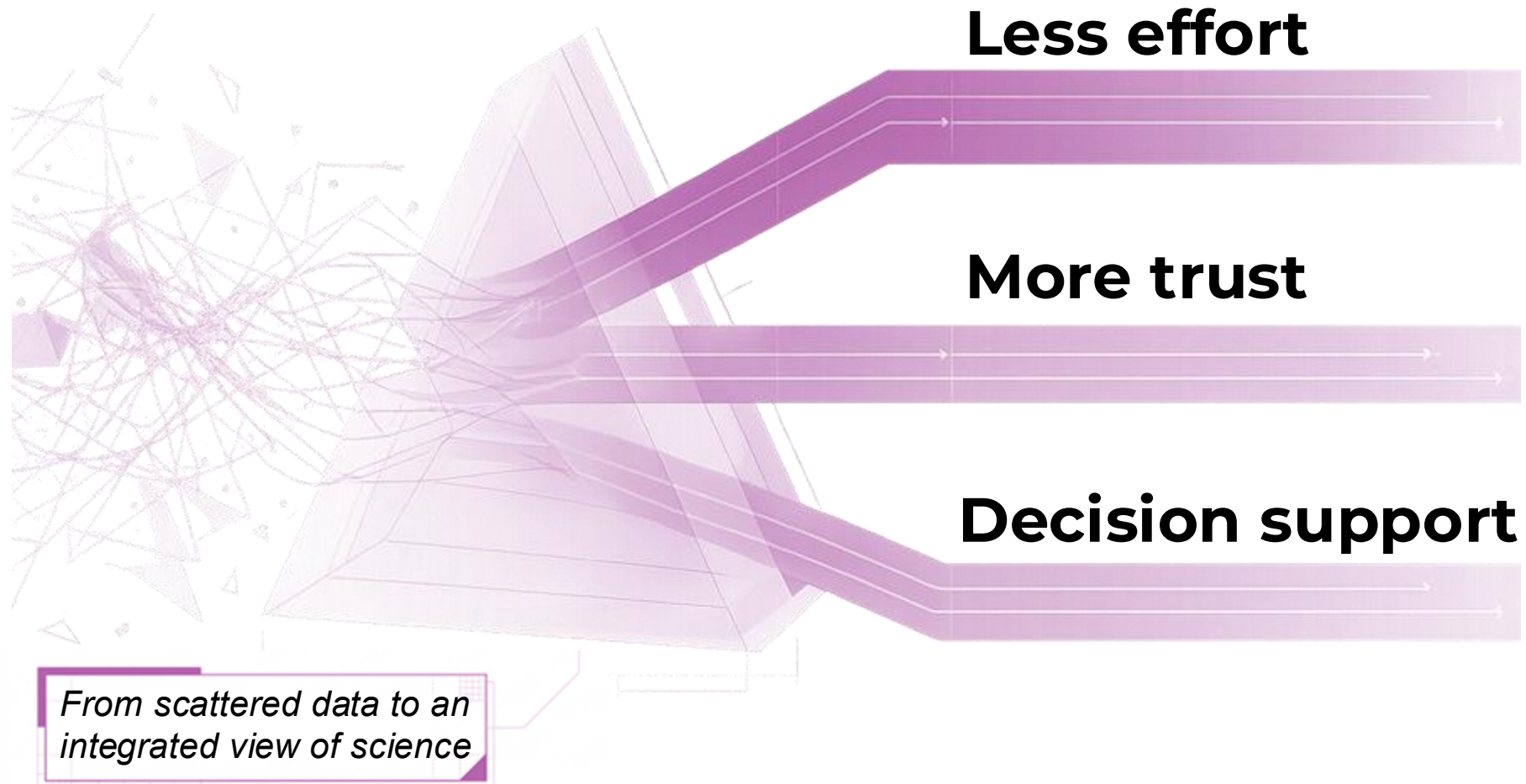
How has the volume of scientific output available through free open access evolved in the last 5 years?





Science in numbers

The materialization of PTCRIS into concrete results

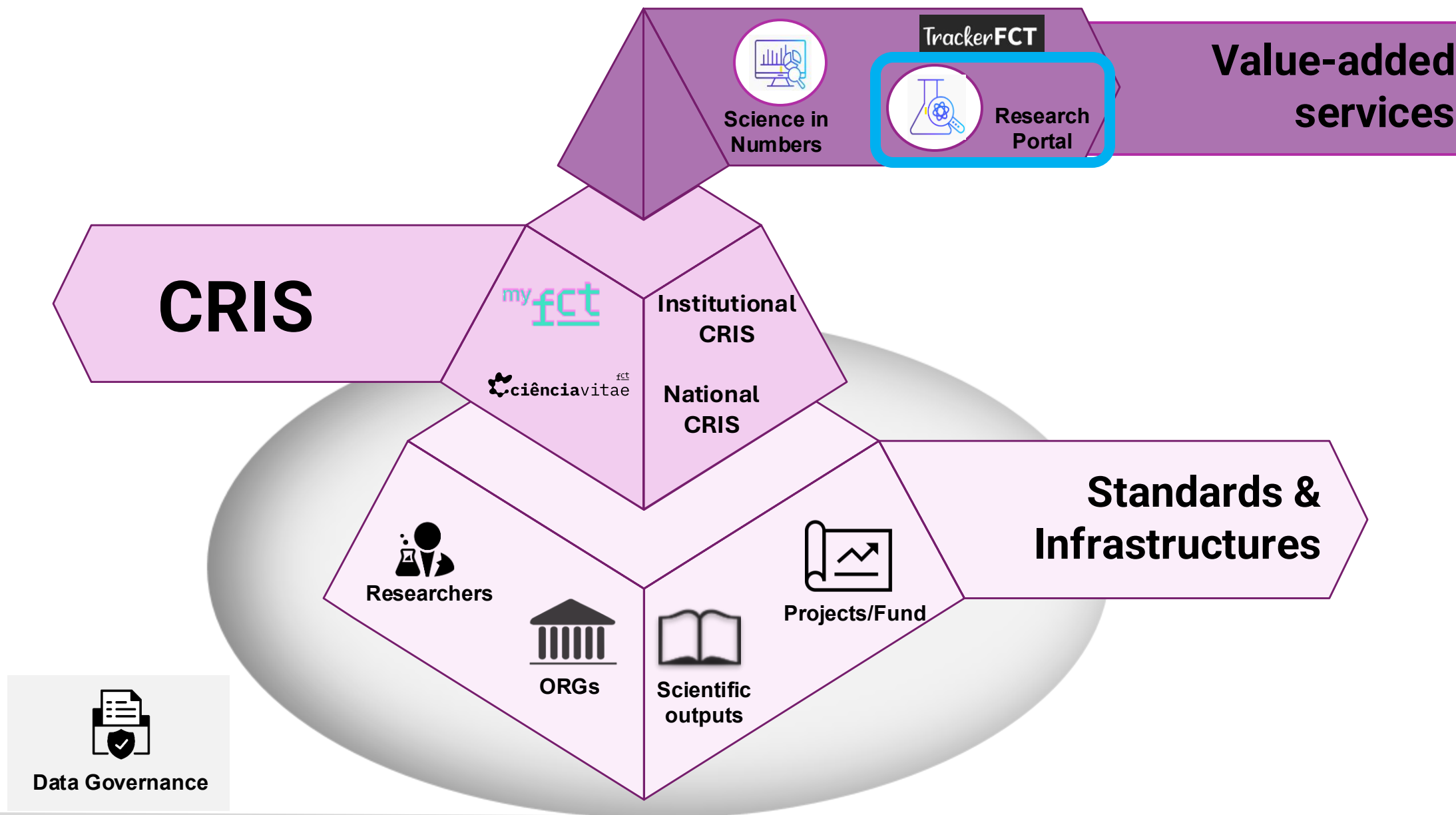


Value-added services

Research Portal

José Salm Jr. Dr. / Dragan Ivanovic
UDESC/ESAG





What is the Research Portal Project?

- The Portuguese Research Portal (integrated within the national PTCRIS ecosystem) is a centralized discovery platform that aggregates and interconnects data across Portugal's academic landscape, linking researchers, organizations, funding, and publications.
- Built on the open-source VIVO platform, it utilizes semantic web standards to create a unified, machine-readable map of national scientific activity.

RP Project's Lifecycle

- Used to structure the ontology
- Used as base for the business use cases
- Used to structure the user interface wireframes

- Used to describe the problem faced by Research Portal intended Actors
- Used to review and confirm the competency questions and ontology review
- Used as reference for defining functional requirements

- Use for stating the Research Portal's intended functionalities and drive design.
- Used for defining the type of test and validation expected.

Competency Questions

Business
Use cases

First Level
Requirements

Vivo Stock application
Customization

Layout and Wireframes

- Used to inform expected adjustments for the VIVO stock application.
- Lists customization tasks informed by the VIVO community site.

- Used help understand the requirements definition and the VIVO customization specification
- Intended to support the usability and accessibility activities for the development phase
- serves mostly for placeholder purposes and does not intend to address or substitutes user interface design activities

1st Request for Information - RFI

2nd Request for Proposal - RFP

Search bar
with dropdown
list of search
types and
prompt

Entity Details.
Based on entity
details, show
expanded filter
options.

Research Portal Portugal

Search type ▼

Example: João Francisco

Search

Detail information on "ENTITY A":

Research Area ▼

Author Identifier
F312-3127-B123
0000-0002-8249-5224

Citation Name(s)
Soares, João

Indicator
Number of researchers in this scientific domain

Indicator 2
Number of researcher with this affiliation

About the service
About the PTCris Ecosystem
Give feedback
Accessibility statement
Privacy

fct
Fundação
para a Ciência
e a Tecnologia

João Francisco Carlos Soares


Affiliations
Affiliations
Instituto Nacional do Seguro Social

Title
Manager 2008 -
Division chief 201

João Francisco, is a marine ecologist (PhD), and his research interest aims at understanding the global to local processes that control the performance and function of flora and fauna and how they interact in nearshore ecosystems, including their performance and bio-development in artificial structures. Most of his current research is focused on the implications of climate

Publications
Soares Francisco
show niche un
DOI 10.1080

Soares Francisco
seascapes dep
DOI 10.1080

Soares, João, F.
Diogo, Maria P
DOI 10.1080

Soares, João, F. "Historical Urban Cartography of Lisbon". In Science, Technology and Medicine in the Making of Lisbon (1840-1940), editado por Diogo, Maria Paula; Simões, Ana, 419-420. Leiden, Países Baixos: Brill, 2022.
DOI 10.1080/15588742.7212

Download Data & Interoperability
IMPORTANT: The data that will be downloaded will comply with the GDPR privacy guidelines that were adopted for this entity. This can impact the availability of data structure and content.

Please select the format for downloading the data from this entity:

CSV

XLS

☐ I have read and agree to the terms and conditions of downloading data and have a complete understanding of the terms and conditions set forth in this Agreement represent the full and complete understanding between the parties.

Associated Resources.
Link for downloading data for the selected row as CSV or XLS.

Download

Cancel

Find People with research that match these terms

Find People with Activities that match these terms

Find People that can review work within this context

Find Projects that are in the same related scientific domains

Download data

CSV

XLS

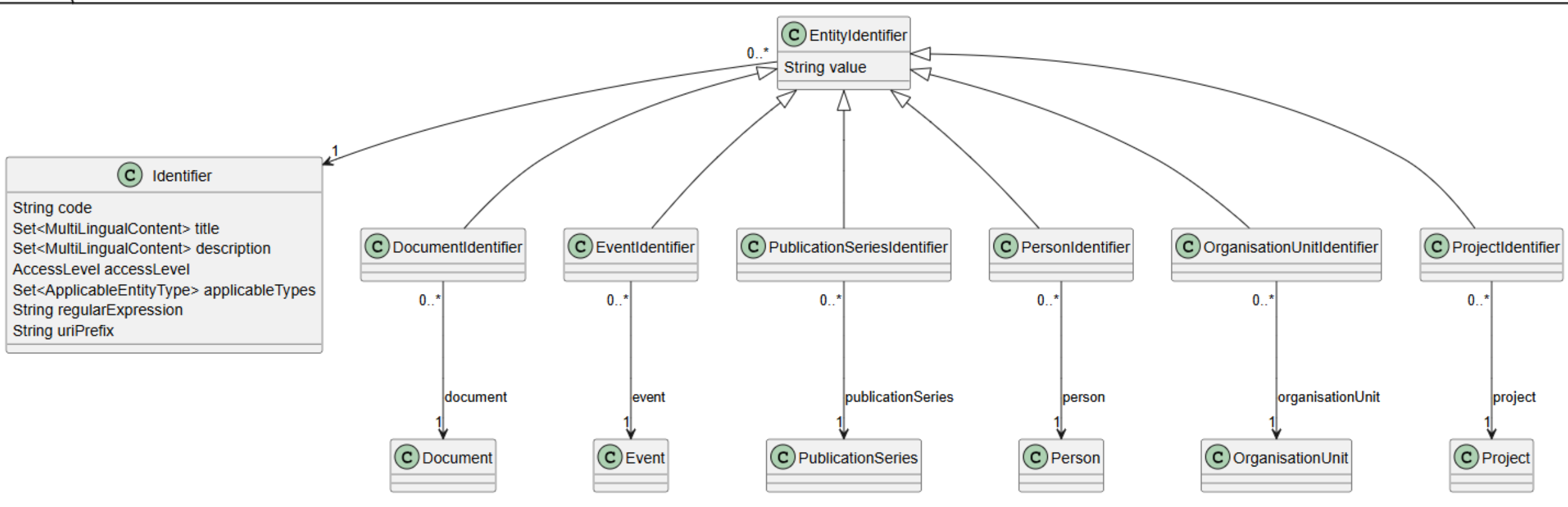
PTCRIS Data Governance & Master Data Structure

- Policy for Metadata Quality
- PTCRIS DataGov - Data Catalog (DCAT-AP
- PTCRIS DataGov – Glossary
- PTCRIS DataGov - Profilling

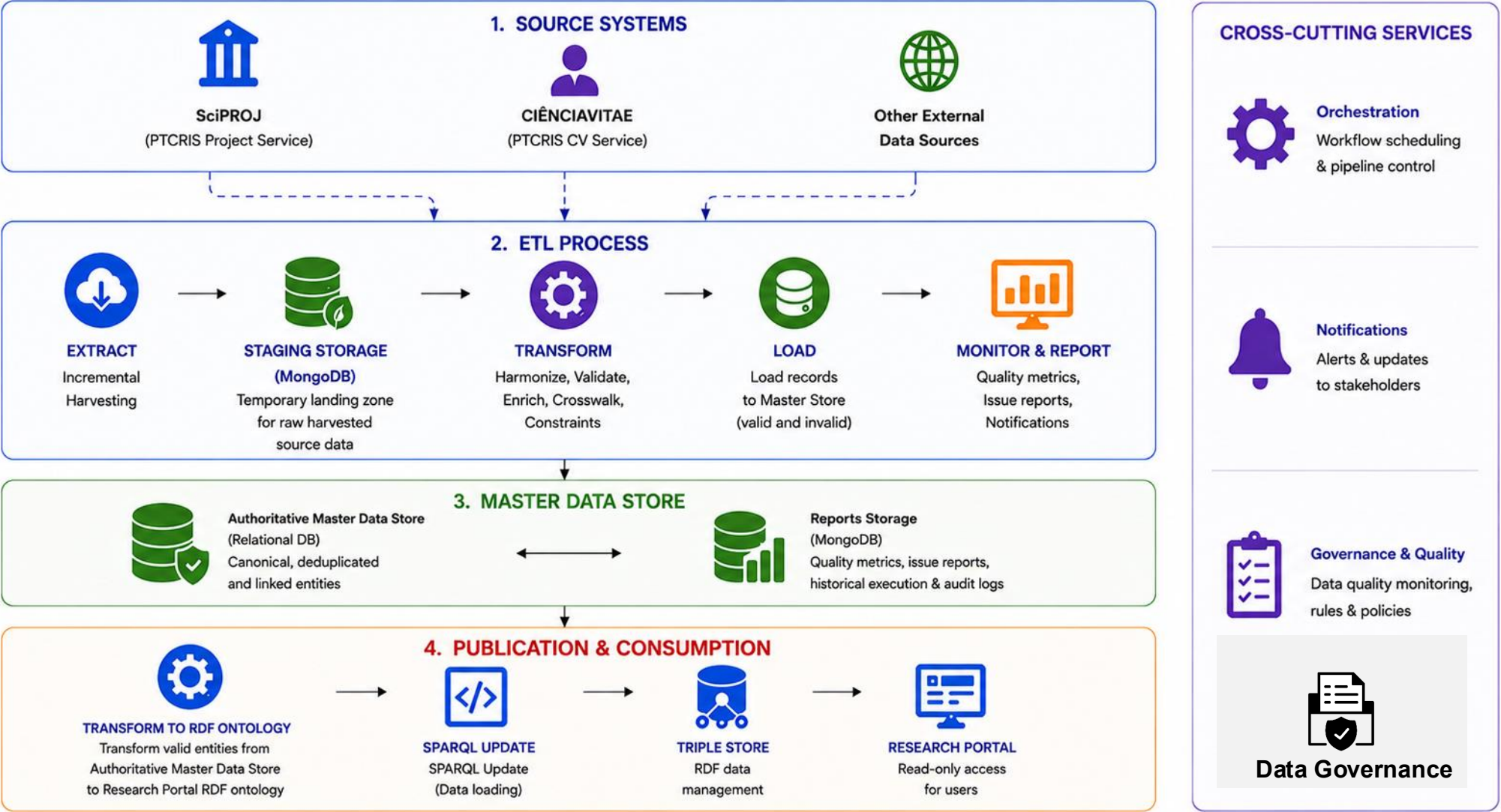
Part 1: Policy Alignment	Part 2: Data Profiling Rule Structure
Quality Dimension: Semantic Metric Identifier: PTCRIS-F1-01DSEMANT	Rule Name: Standardized Geopolitical Country Coding Type: Controlled Vocabulary Single column or multiple and row analysis: Single column analysis (en_pessoa.country_code)¹ Invalid combinations of valid values: Not applicable¹ Affected Column(s): Metadata; en_pessoa; cod_pais Details: • RegEx: ^[A-Z]{2}\$ • Limit: Exactly 2 characters. • Null Validation: Required. • Controlled Vocabulary: ISO 3166-1 alpha-2 standard.¹ • Other Notes: Prevents localized or misspelled country inputs from breaking regional aggregation logic and international dashboarding.¹

PTCRIS DataGov - Master Data Structure: Persistent Identifiers

identifier



Master Data ETL Architecture



Data Transformation Process

KEY PRINCIPLES



High Data Quality
Validate, enrich and measure quality



Trust & Governance
Constraints, rules and traceability



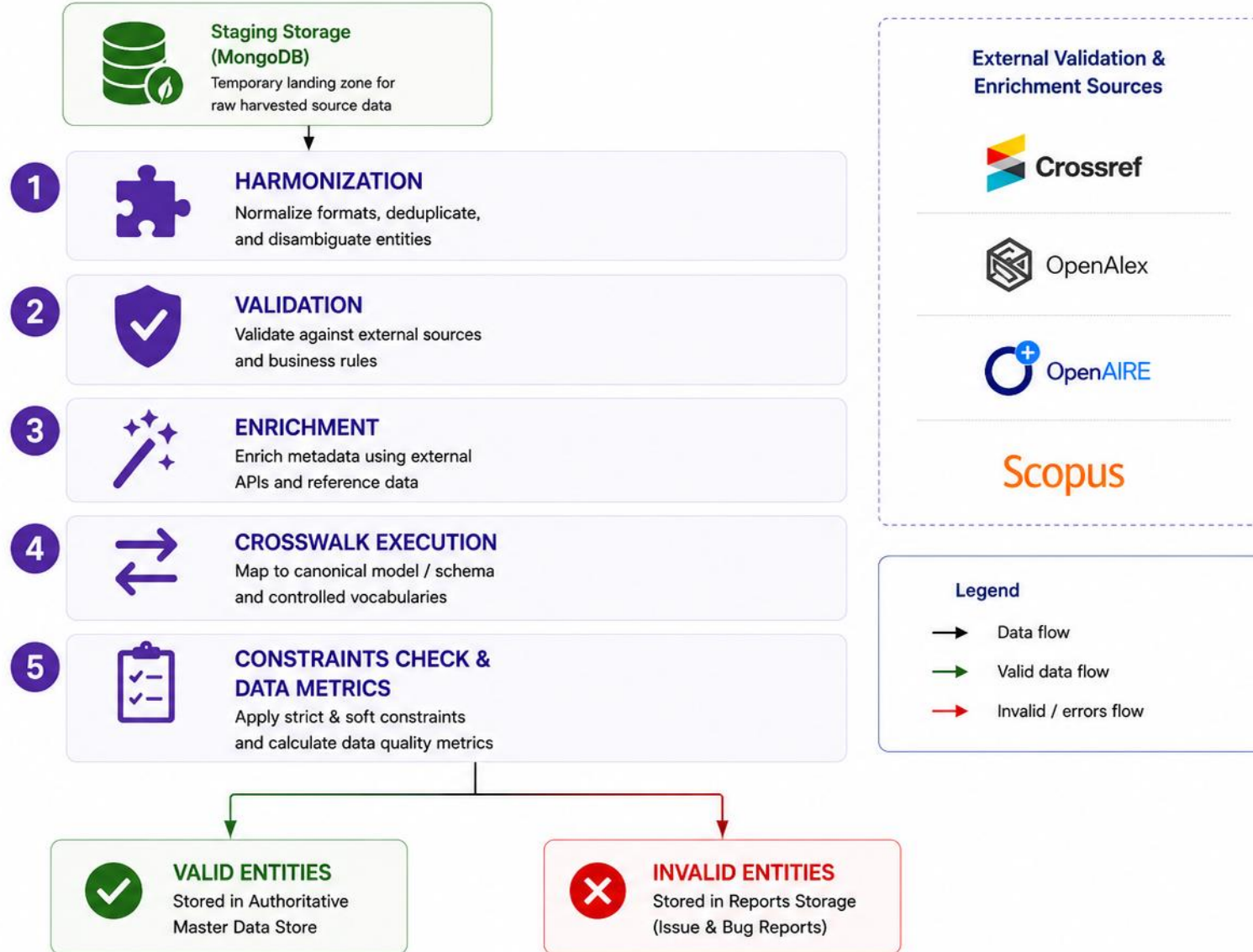
Load Only Valid
Only valid entities are published



Transparency
Metrics, reports and auditability



Data Governance



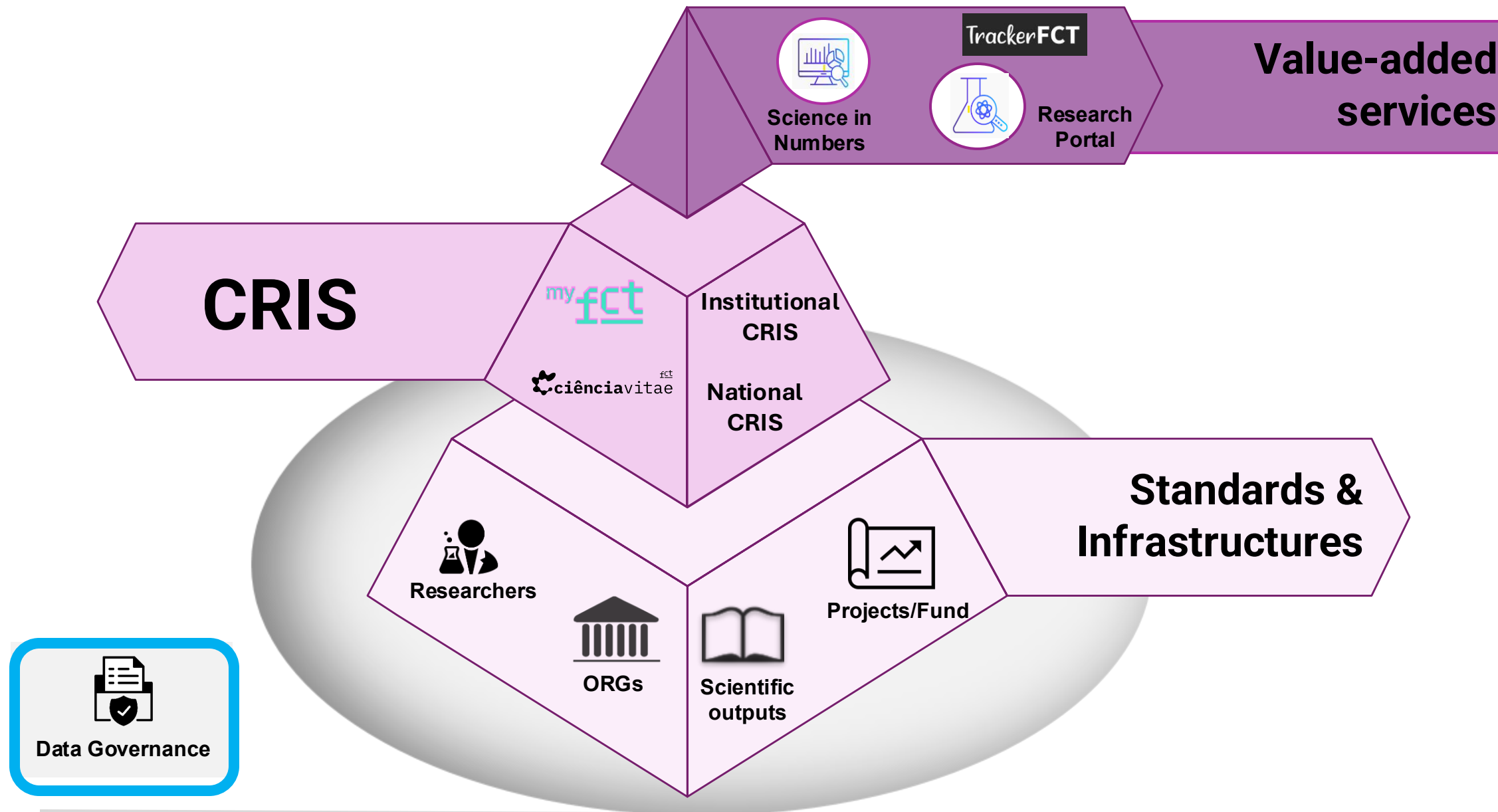
Data Governance

Data governance model of the ecosystem

José Francisco Salm Jr. Dr.

UDESC/ESAG

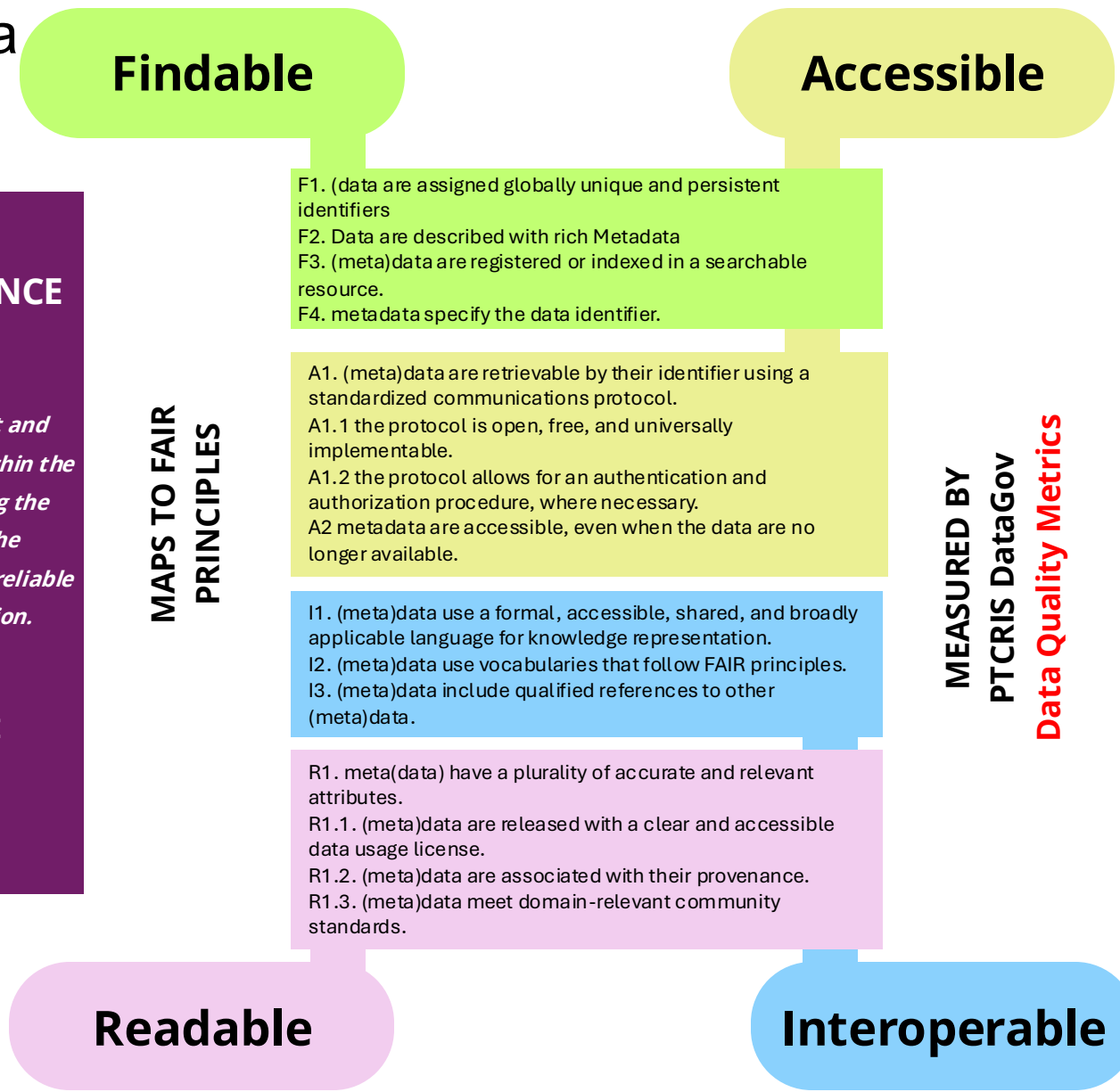




FAIR in PTCRIS Data Governance

PTCRIS DATA GOVERNANCE OBJECTIVE
Definition of policies for an efficient and sustainable integration of systems within the PTCRIS ecosystem, focus on reducing the bureaucratic burden, as well as the management and access to accurate, reliable and up-to-date scientific information.

METADATA GOVERNANCE



Accuracy

Consistency

Lineage

Structural Consistency

Qualitative

Semantic

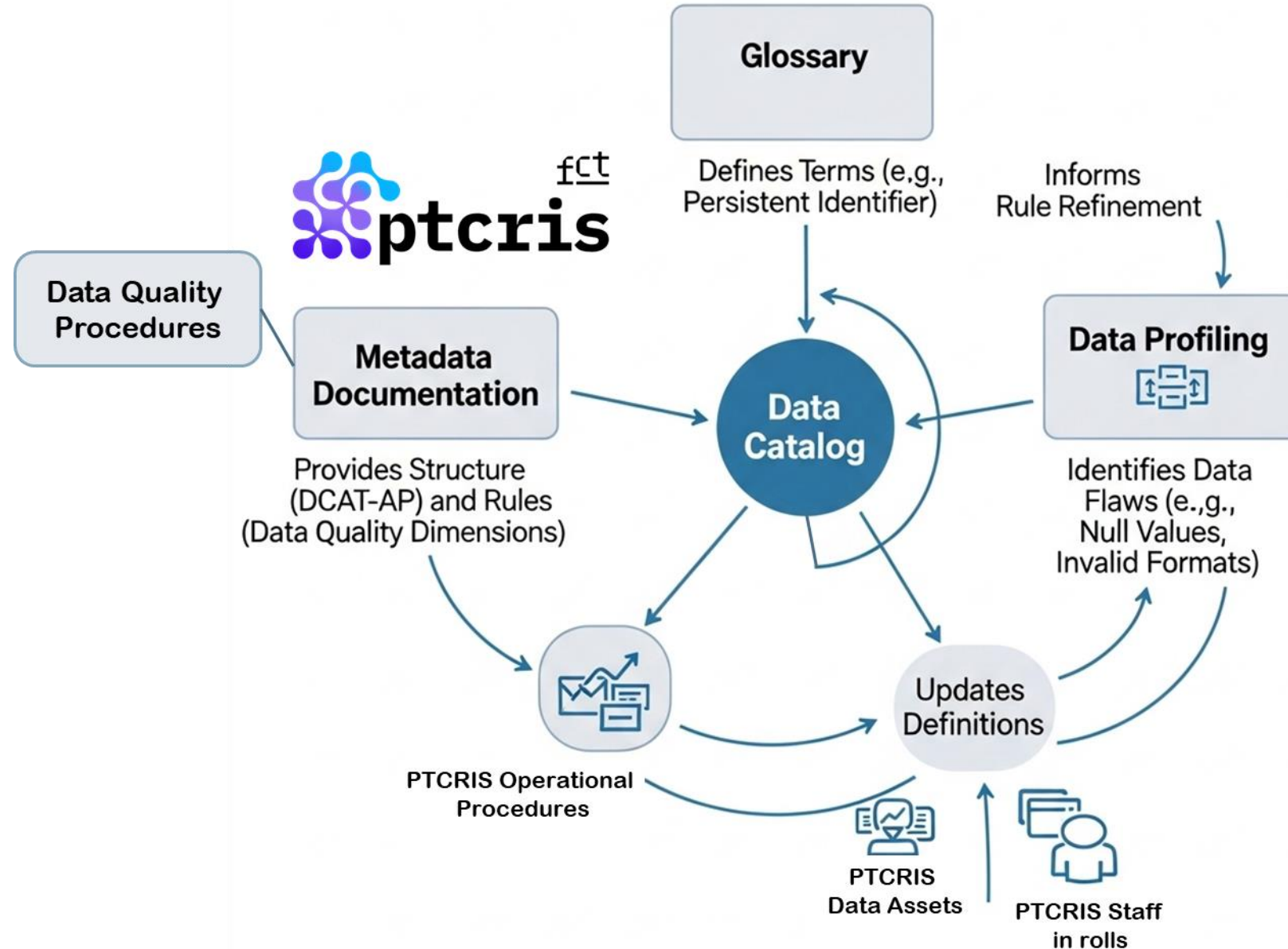
Currency

POLICY

PRINCIPLES

DIMENSIONS

Entendendo o PTCRIS DataGov



Data Products (Lógico)

Custom Metadata

Requests

Custom Types

Modelos e Padrões de dados PTCRIS

Dicionário de interoperabilidade PTCRIS (CV e SciProj)

Ontologias e taxonomias

Identificadores individuais únicos

Identificadores de organizações

Identificador DOI para produções e financiamentos

Domínios científicos

Collection – Físico
(Data Map)

Data Assets

PURVIEW (Type – Data Products)

Dataset

Master data and reference data

Business System/Application

Model types (ML, AI, Gen AI, Analytics)

Dashboards/Reports

Operational

ML/AI training dataset

ML/AI testing dataset

Transactional dataset

Analytics model (i.e. star schema e constalation schema)

Semantic model

DCAT-AP PTCRIS (Type Datasets)

Classificação no Ecosystema PTCRIS

Modelo de Dados

Padrão de Dados

Dicionário de Interoperabilidade (CV e SciProj)

Identificador individuais Únicos (Person)

Identificador Persistente (Funding)

Identificador Persistente (Outputs)

Identificador Persistente (Organization)

Ontologias e Taxonomias

Home

Solutions

Agents

Learn

Settings

Data Map

Unified Catalog

Unified Catalog

Overview

Discovery

Catalog management

Health management

Process automation

Requests and approvals

Related solutions

Data Map

Unified Catalog > Domains > Assets in collection "Políticas e Normas PTCRIS - DataGOV" >

Product

+ Add Tag

Edit

Refresh

Delete

PTCRIS DataGov Policy Document for Metadata

☆☆☆☆☆ (0)

Updated on February 10, 2026 at 11:57 AM by Talissa Anger

Overview

Contacts

Related

Privacy

History

Description

Com o objetivo de apresentar a estrutura geral da política de qualidade de dados no contexto do PTCRIS, a seguir detalha-se a característica de cada dimensão considerada pela equipa do PTCRIS como relevante ao ecossistema. As dimensões são: Accuracy Dimension, Consistency Dimension, Lineage Dimension, Structural Consistency Dimension, Qualitative Dimensions, Semantic Dimensions of Data Quality e Currency Dimension. Para cada dimensão apresentada, inclui-se uma coluna que relaciona suas características, os critérios usados e a métrica definida, quando houver. Em conjunto com a estrutura da política, também foram relacionados os princípios FAIR com as dimensões da qualidade de dados esperada.

Glossary terms

No glossary terms for this asset.

Properties

name

PTCRIS DataGov Policy Document for Metadata

Data asset attributes

Filter by attribute name

Include attributes without values

Collection path

PTCRIS Data Gov

Políticas e Normas PTCRIS - DataGOV

Data assets (6)

+ Add data assets ▾

[View all data assets](#)<https://api.cienciavitaet.pt/sc...> ...

Product

<https://api.cienciavitaet.pt/sc...> ...

Product

Interoperability Dictionary
curriculum (XSD)<https://api.cienciavitaet.pt/sc...> ...

Product

Interoperability Dictionary degree
(XSD)<https://api.cienciavitaet.pt/sc...> ...

Product

Interoperability Dictionary
distinction (XSD)<https://api.cienciavitaet.pt/sc...> ...

Product

Interoperability Dictionary
employment-item (XSD)<https://api.cienciavitaet.pt/sc...> ...

Product

Interoperability Dictionary
employment (XSD)

Glossary terms (20)

+ Add term

Grau académico ...

Encarregado Operacional ...

Empregador ...

Professor Auxiliar ...

Bolsheiro de Doutoramento ...

ORCID iD ...

Assistente convidado ...

Investigador ...

Co-autor ...

Orientador ...

Informação de projeto ...

Título do projeto ...

Professor Catedrático ...

Home

Solutions

Agents

Learn

Settings

Data Map

Unified Catalog

Data Map

Domains

Data sources

Monitoring

Source management

Scan rule sets

Pattern rules

Integration runtimes

Credentials

Lineage connections

Managed identities

Connections

Managed private endpoints

Annotation management

Classifications

Classification rules

Related solutions

Unified Catalog

Data sources

Register

Map view

Table view

Filter by keyword

Source type : All

Domain : All

Collection : All

Showing 5 collections, 6 data sources

PTCRIS Data Gov

View details

Distribution

DCAT Distribution

View details

MongoDB Collection

View details

SQL Server SciProj

View details

Políticas e Normas PTCRI

View

