



# RDA-pt: a Portuguese community in the Research Data Alliance

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INSTITUTO DE CIÊNCIAS SOCIAIS



# The Research Data Alliance

- Community-driven organisation
  - Starts 2013, EU+ NSF+ NIST+ Austrália
- ~9,000 members, 137 countries (November 2019)
  - Free participation for individuals, organizations contribute with fee
- Organisation
  - Interest Groups (67): focused on specific area, launch WG for tasks
  - Working Groups (35): 18 months, solution and its dissemination

# THE RESEARCH DATA ALLIANCE

www.rd-alliance.org

*building the social and technical bridges  
that enable open sharing of data*

**32 FLAGSHIP  
OUTPUTS**

of which 4 ICT  
Technical  
Specifications

**75 ADOPTION  
CASES**

across multiple  
disciplines,  
organisations &  
countries

**104 GROUPS WORKING ON  
GLOBAL DATA  
INTEROPERABILITY CHALLENGES**

*of which 35 WORKING GROUPS  
& 67 INTEREST GROUPS*

**8,642 INDIVIDUAL MEMBERS  
FROM 137 COUNTRIES**

67,9% Academia & Research  
14,2% Public Administration  
12,7% Enterprise & Industry

**50 ORGANISATIONAL MEMBERS &  
8 AFFILIATE MEMBERS**



## Vision

Researchers and innovators openly share data across technologies, disciplines, and countries to address the grand challenges of society.

## Mission

RDA builds the **social and technical bridges** that **enable open sharing of data**.

WWW.RD-ALLIANCE.ORG  
@RESDATALL



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<https://rd-alliance.org/about-rda/>



# What is RDA?

RDA is an international **member based organization** focused on the development of infrastructure and community activities that reduce barriers to data sharing and exchange, and the acceleration of data driven innovation worldwide.

With more than 8,600 members globally representing 137 countries, RDA includes **researchers, scientists and data science professionals** working in multiple disciplines, domains and thematic fields and from different types of organisations across the globe.

*RDA is building the social and technical bridges that enable open sharing of data to achieve its vision of researchers and innovators openly sharing data across technologies, disciplines, and countries to address the grand challenges of society.*

# RDA-Europe: European plugin to the RDA



- Pioneer nodes in RDA-4
  - **Greece** Athena Research Center
  - **UK** STFC (Science and Technology Facilities Council)
  - **Spain** BSC (Barcelona Supercomputing Centre)
  - **Italy** CNR-ISTI (National Research Council)
  - **Netherlands** DANS (Data Archiving and Networked Services)
  - **Finland** CSC (Tieteen Tietotekniikan Keskus)
  - **Germany** Max Planck Institute
  - **France** CNRS (Centre National de la Recherche Scientifique)
  - **Ireland** National Library of Ireland

# RDA-Europe: Build a network of nodes

- 1st call August 2018, 4 new nodes
  - **Austria** RDA Austria
  - **Denmark** DM Forum (National Forum for Research Data Management)
  - **Portugal** INESC TEC (leading a group of 8 institutions)
  - **Slovenia** ADP (Social Science Data Archives)

# RDA-Europe: Build a network of nodes

- 2nd call April 2019, 6 new nodes
  - **Croatia** SRCE (University of Zagreb Computing Center)
  - **Czech Republic** Plan4all
  - **Hungary** HRDA
  - **Lithuania** *Group of institutions*
  - **Norway** NSD (leading a group of 7 institutions)
  - **Sweden** SND (Swedish National Data)

# RDA-Europe: Build a network of nodes

- 3rd call September 2019
  - **Bulgaria** Sofia University St. Kliment Ohridski
  - **Estonia** University of Tartu
  - **Romania** Exec. Agency for Higher Ed., R & D & I Funding
  
- Accomplished goal of RDA-4: network of **22 nodes**
  - 9 pioneer, 4 first call, 6 second call, 3 third call



# The RDA Europe National Node Network



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## Final 22 nodes



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# RDA-pt RDA in Portugal

- **Vision**

- Researchers, institutions and FCT define data management practices, choose technologies and use a network infrastructure for data access, preservation and sharing

- **Mission**

- RDA-pt builds a community with interest in open data; disseminates, proposes technical solutions and surveys case studies in multiple domains

# RDA activity in Portugal before RDA-pt

- Participation in Interest Groups/ Working Groups
  - 58 people registered
  - Contributions to documents and presentations
- Responsibility in Groups
  - *Repository Platforms for Research Data*: João Rocha is a co-chair
  - *RDA in Portugal*: Cristina Ribeiro, Irene Rodrigues coordinators
- RDA plenaries: 19 participations
  - Including various contributions: special sessions in projects, session organization, presentations in sessions, posters

# RDA-pt key personnel

**Cristina Ribeiro** (INESC TEC, University of Porto)

**Irene Rodrigues** (University of Évora)

**Maria Manuel Borges** (University of Coimbra)

**José Borbinha** (Instituto Superior Técnico, University of Lisbon)

**João Miranda** (Polytechnic Institute of Portalegre)

**Pedro Moura Ferreira** (ICS, University of Lisbon)

**Eloy Rodrigues** (University of Minho)

**Francisco Barbedo** (DGLAB, Portuguese National Archives)



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# RDA-pt SWOT analysis

- Strengths

- Large experience in Open Access (RCAAP)
- Strong international connections
- Motivated community

- Weaknesses

- Few people
- Ambiguity in funding mechanisms
- Little visibility of the national policies in this area



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# RDA-pt SWOT analysis

- Opportunities
  - European mandates (strong) and FCT mandates
  - European funding
  - Growing awareness in disciplinary groups
- Threats
  - Poor alignment of incentives and penalties
  - “Band-aid” solutions compromise more solid ones
  - “Buzzwords” create saturation

# RDA-pt planned activities



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	pre-contract			Part 1									Part 2							
	2018			2019									2020							
MONTH	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Ago	Set	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
EVENT		E1						E2	E3				E4	E5				E6		
PLENARY		P12											P14							P15
E1	RDA-pt presentation in Forum GDI, national RDM forum																			
E2	(in disciplinary event) RDA-pt co-located event																			
E3	(in disciplinary event) RDA-pt co-located event																			
E4	Organisation of co-located RDA-pt event in ConfOA (Brazil)																			
E5	(in disciplinary event) RDA-pt co-located event																			
E6	(in disciplinary event) RDA-pt co-located event																			
(P12)	Plenary 12, no plan by RDA-pt																			
P13	Plenary 13, Philadelphia, RDA-pt participation																			
P14	Plenary 14, Helsinki, RDA-pt participation																			
P15	Plenary 15, ??, RDA-pt participation																			

# RDA-pt ongoing activities



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	pre-contract			Part 1										Part 2							
	2018			2019												2020					
MONTH	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Ago	Set	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
EVENT		E1						E2	E3	E4		E5	E6	E7				E8			
PLENARY		P12					P13						P14							P15	
E1	RDA-pt presentation in Forum GDI, national RDM forum																				
E2a, E2b, E2c	Participation in disciplinary events								Porto4Ageing	C4G Coordination Council				WS Comp. Data Analysis Num. Methods							
E3, E4	RDA-pt participation in disciplinary event+ National Science								Biodata.PT- ELIXIR					Ciência 2019							
E5	Organisation of co-located RDA-pt event in OSF								Open Science Fair: RDA-pt The Portuguese Node of the Research Data Alliance												
E6	Organisation of co-located RDA-pt event in ConfOA (Brazil)								WS at the Portuguese-Brazilian Conference on Open Access												
E7	(in disciplinary event) RDA-pt co-located event								Session at 5th Forum GDI (national RDM meeting)												
E8	(in disciplinary event) RDA-pt co-located event																				
P13	Plenary 13, Philadelphia, RDA-pt participation								João Rocha da Silva, RDA-pt participation					Joana Rodrigues, RDA Early Career Grant							
P14	Plenary 14, Helsinki, RDA-pt participation								Cristina Ribeiro, Irene Rodrigues, RDA node					4 RDA-pt grants + 2 RDA Early Career Grants							
P15	Plenary 15, Melbourne, RDA-pt participation																				



# The RDA Plenaries

- Meetings where IG and WG present work
  - IG and WG propose sessions
  - New groups can test their proposal and recruit people
  - Twice a year, see [previous and upcoming](#)
- P14: 10 Portuguese participants
  - 2 Early Career grants: Yulia Karimova, João Cardoso
  - 4 RDA-pt Grants: André Pacheco, Angela Lomba, Helena Amaral, Susana Barbosa
  - Cristina Ribeiro, Irene Rodrigues, Pedro Príncipe, Mário J. Silva

# RDA-pt@P14: Yulia Karimova (ECR)

- Researcher at INESC TEC, PhD student at FEUP
  - Research data management, Data Management Plan (creation and monitoring)
- DMP Common Standards WG
  - “The collaborative method between curators and researchers in the preparation of a Data Management Plan (DMP) and Privacy Impact Assessment (PIA)”
- IG Repository Platforms for Research Data, IG RDA/WDS Certification of Digital Repositories
  - [rdm.inesctec.pt](http://rdm.inesctec.pt)

# RDA-pt@P14: João Cardoso (ECR)

- PhD Thesis on **Machine-Actionable DMPs**
  - **Semantic** representation and value
- DMP Common Standards WG
  - Long time collaborator
- DCS Ontology
  - An ontology to **represent** the **DMP Common Standard Model**.

# RDA-pt@P14: Angela Lomba (RDA-pt grant)

- Researcher Interface between Biological and Agricultural Sciences
  - Social-ecological systems underlying agricultural ecosystems
  - Impacts of environmental change on agricultural landscapes
- IG Meeting: Agricultural Data: Open Session
  - Overview of the aims and activities of the group
  - Discussion on key activities related to agricultural data

# RDA-pt@P14: Angela Lomba (RDA-pt grant)



- IG Meeting: ESIP/RDA Earth, Space and Environmental Sciences
  - ESES data infrastructures & data cubes (EarthCube);

# RDA-pt@P14: André Pacheco (RDA-pt grant)



- PhD Thesis on **Information Science** @ **Univ. Coimbra**
  - **Authenticity** in archival description standards
- IG: RDA/WDS Certification of Digital Repositories
  - And many metadata/standards/vocabularies others...

# RDA-pt@P14: Helena Amaral (RDA-pt grant)

- Technical Director of C4G Collaboratorium for Geosciences Research Infrastructure
  - Responsible for the implementation of Services and Products
- Get acquainted with the several IG that relate to C4G's topics: Geospatial, Global Water, Earth, Space, and Environ. Sci.
- Relate to other IG that cover DMPs, Data Policy, Standardization and Data Repositories

# RDA-pt@P14: Susana Barbosa (RDA-pt grant)



- Researcher, Earth system science
  - Climate / Data Science / Space-earth interactions
  - Environmental monitoring ( marine / atmospheric data)
- Meeting BoF: Curation for FAIR and Reproducible Data and Code
  - Reproducible scientific code (not only data)



# RDA-pt@P14: Susana Barbosa (RDA-pt grant)

- Meeting BoF: Management of Computational Notebooks
  - Citation of notebooks
  - Long-term preservation
  - Integration with data sources
- Meeting Interest Group “ESIP/RDA Earth, Space, and Environmental Sciences”



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# RDA-pt goal: Build a community

- More participation in RDA global
  - Number of members
  - Contributions to Interest Groups/ Working Groups
- Co-organization of events
  - RDA presentations in events: disciplinary and open science
- Open calls for plenary participation

# RDA-pt goal: Liaise with infrastructures

- Alignment with international infrastructures
  - ELIXIR (U. Lisboa)
  - EPOS ( U. Évora, INESC TEC, P. Portalegre)
  - CESSDA (ICS)
  - CLARIN (U. Évora)
  - LifeWatch (INESC TEC)
- Entry point: infrastructures of the Portuguese roadmap

# RDA-pt goal: collaborate Europe + Brazil



- European nodes
  - Take advantage of the network and activities in RDA-4
  - Learn from extensive experience of pioneer nodes
- Brazil
  - RDA in Brazil starting
  - Joint RDA-pt and RDA in Brazil workshop on October 4, 2019, part of CONFOA, the Portuguese-Brazilian Conference on Open Access

# RDA Recommendations and outputs

RDA Outputs are the technical & social infrastructure solutions **developed by RDA Working Groups or Interest Groups** that enable data sharing, exchange, and interoperability.

- Solving data sharing problems
- Adoption in infrastructure environments by individuals, projects and organisations
- Improve global data sharing, exchange and interoperability

<https://www.rd-alliance.org/recommendations-and-outputs/all-recommendations-and-outputs>

# RDA-pt goal: Adopt recommendations

RDA works on raising awareness and expanding the adoption of these outputs across all regions of the world.





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# RDA-pt goal: Adopt recommendations

RDA works on raising awareness and expanding the adoption of these outputs across all regions of the world.

>>> action plan for PP >>> think, check, implement

RECOMMENDATION	GROUP	IMPACT	FORESEEN ADOPTION	USE CASE	IMPLEMENTATION ACTIONS
 <p><b>Scalable dynamic-data Citation Methodology</b></p> <p><b>The Challenge:</b> Supporting accurate citation of data subject to change, for the efficient processing of data and linking from publications.</p> <p><b>What is the solution?</b> The Dynamic Data Citation Working Group developed a simple, scalable mechanism that allows the precise, machine-actionable identification of arbitrary sub-sections of data at system point in time irrespective of any subsequent addition, deletion or modification.</p> <p>Produced by: Data Citation (WDS) WG <a href="https://rd-alliance.org/groups/data-citation-wg.html">https://rd-alliance.org/groups/data-citation-wg.html</a></p>	 <p><b>What is the impact?</b> The main impact is on the reproducibility of work: It allows databases to be dynamically updated as needed, while users can still retrieve the data and links at a specific point in time, providing valuable semantic information on the way the specific dataset was constructed. As data gets migrated to new representations, the queries to extract the specific view subset can be migrated accordingly, ensuring stability across technological changes, enhancing data interoperability, sharing and re-use.</p> <p>Find out more about the Data Citation WG recommendation </p>	 <p><b>Persistent Identifier Type Registry</b></p> <p><b>The Challenge:</b> Defining standard core PID information types to enable simplified verification of data identity and integrity.</p> <p><b>What is the solution?</b> The PID Information Types Working Group identified the essential types of information associated with persistent identifiers, defined and registered a number of core persistent identifiers (PIDs) information types. The working group developed a conceptual model for structuring the typed information, an application programming interface to access to typed information and a demonstrator implementing the interface.</p> <p>Produced by: PID Information Types (PT) WG <a href="https://rd-alliance.org/groups/pid-information-types-wg.html">https://rd-alliance.org/groups/pid-information-types-wg.html</a></p>	 <p><b>What is the impact?</b> In complex data domains, unique and persistent identifiers (PIDs) are at the core of proper data management and access, providing a verified access method to all PID service users and the automatic processes to deal with heterogeneous data allowing them to fully exploit the huge amount of data available. Registered PID Information Types are one of the fundamental building blocks to enable semantic interoperability of data. Developers are able to use a simple API to deal with PID related information, such as checksum verification, to assess data identity and integrity, thus enabling software development to become more efficient.</p> <p>Find out more about the PT WG Recommendation </p>	 <p><b>Repository Audit and Certification Catalogues</b></p> <p><b>The Challenge:</b> Creating harmonized Common Procedures for certification of repositories.</p> <p><b>What is the solution?</b> Drawing from the procedures already out in place by the Data Seal of Approval (DSA) and the ICSU World Data System (ICSU-WDS), the RDA Repository Audit and Certification (RDA-WDS) Partnership Working Group has produced a convergent DSA-WDS certification standard aiming to streamline duplication of effort, increase certification procedure coherence and compatibility thus benefiting researchers, data managers, librarians and scientific communities.</p> <p>Produced by: The Repository Audit and Certification DSA-WDS Partnership WG <a href="https://rd-alliance.org/groups/rdaws-certification-digital-repositories-ig.html">https://rd-alliance.org/groups/rdaws-certification-digital-repositories-ig.html</a></p>	 <p><b>What is the impact?</b> The convergent DSA-WDS certification standard marks a step towards having more coherent, rigorous, stringent and comparable standards for repository certification. The harmonization of repository certification criteria will increase adoption and the number of certified repositories, building trust for data generators, data consumers and funding bodies.</p> <p>Find out more about the Repository Audit and Certification DSA-WDS Partnership WG Recommendation </p>

# RDA-pt goal: Adopt recommendations



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WORLD DATA SYSTEM

## Repository Audit and Certification Catalogues

**The Challenge:**  
Creating harmonized Common Procedures for certification of repositories

**What is the solution?**  
Drawing from the procedures already put in place by the Data Seal of Approval (DSA) and the ICSU World Data System (ICSU-WDS), the RDA Repository Audit and Certification DSA-WDS Partnership Working Group has produced a convergent DSA-WDS certification standard aiming to eliminate duplication of effort, increase certification procedure coherence and compatibility thus benefitting researchers, data managers, librarians and scientific communities.

Produced by: **The Repository Audit and Certification DSA-WDS Partnership WG**  
<https://rd-alliance.org/groups/rdawds-certification-digital-repositories-ig.html>

**What is the impact?**

The convergent DSA-WDS certification standard marks a step towards having more coherent, increasingly stringent and compatible standards for repository certification. The harmonization of repository certification criteria will increase adoption and the number of certified repositories building trust for data generators, data consumers and funding bodies.

Find out more about the Repository Audit and Certification DSA-WDS Partnership WG Recommendation



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## Persistent Identifier Type Registry

### The Challenge:

Defining standard core PID information types to enable simplified verification of data identity and integrity

### What is the solution?

The PID Information Types Working Group identified the essential types of information associated with persistent identifiers, defined and registered a number of core persistent identifiers (PIDs) information types. The working group developed a conceptual model for structuring the typed information, an application programming interface to access to typed information and a demonstrator implementing the interface.



Produced by: PID Information Types (PIT) WG

<https://rd-alliance.org/groups/pid-information-types-wg.html>

### What is the impact?

In complex data domains, unique and persistent identifiers (PIDs) are at the core of proper data management and access, providing a unified access method to all PID service users and the automatic processes to deal with heterogeneous data allowing them to fully exploit the huge amount of data available. Registered PID Information Types are one of the fundamental building blocks to enable semantic interoperability of data.

Developers are able use a simple API to deal with PID related information, such as checksum verification, to assess data identity and integrity, thus enabling software development to become more efficient.



Find out more about the PIT WG Recommendation



### Metadata Standards Directory

#### The Challenge:

Enabling discovery of metadata standards for documenting research data, regardless of academic discipline, and addresses issues related to coverage, ease of maintenance and sustainability.

#### What is the solution?

The Metadata Standards Directory Working Group adopted, enriched, & expanded the Disciplinary Metadata Standards Catalogue set up by the UK Digital Curation Centre (DCC), and developed a functional prototype directory based around the GRISS infrastructure, that places the information from the DCC directory into an environment where it can be maintained transparently with full version control.



Produced by: Metadata Standards Directory (MSD) WG

<https://rd-alliance.org/groups/metadata-standards-directory-working-group.html>

### What is the impact?

The Metadata Standards Catalogue was built to guide researchers towards the metadata standards, and tools relevant for their discipline. The directory drives up adoption of those standards, improving the chances of future researchers finding, accessing, and reusing the associated data.

By raising awareness of existing standards, the directory reduces the proliferation of ad hoc metadata formats and helps direct future standards development efforts towards those areas that most need it.



Find out more about the MSD WG Recommendation

# RDA-pt goal: Adopt recommendations



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Find out more about the MSD WG Recommendation



## Summer Schools in Data Science and data sharing framework

### The Challenge:

A framework to run a series of Summer Schools in Data Science and data sharing in low and middle income countries (LMICs).

### What is the solution?

The CODATA/RDA Summer School in Data Science and Cloud Computing in the Developing World WG provides a framework to run a series of Summer Schools in Data Science and data sharing in low and middle income countries (LMICs) with the goal of addressing the gap in research data science skills that stops researchers from reaping the benefits of the data revolution.



Produced by: RDA/CODATA Summer Schools in Data Science and Cloud Computing in the Developing World WG

<https://www.rd-alliance.org/groups/rdacodata-summer-schools-data-science-and-cloud-computing-developing-world.html>

### What is the impact?

The RDA/CODATA Working group is focused on consolidating the framework and the continued collaboration for the development and improvement of the curriculum and training materials, which include the principles and practice of Open Science, research data management and curation, the use of a range of data platforms and infrastructures, large scale analysis, statistics, visualisation and modelling techniques, software development.

The need for a consistent education in Research Data Science is increasingly paramount for many stakeholders, from scientists to funders to policy makers from many nations. All disciplines need to ensure that research is reproducible and that provenance is documented reliably and this requires a transformation in practice and the promotion of the necessary culture, practice and skills.

RDA/CODATA Summer Schools in Data Science and Cloud Computing in the Developing World WG Recommendation



# RDA-pt goal: Adopt recommendations



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Group	Recommendation - Short description & Impact	Recommendation details	Adopters
<b>Repository Audit and Certification / DSA-WDS Partnership</b>	<b>Repository Audit and Certification Catalogues</b> Creates harmonized Common Procedures for certification of repositories at the basic level, drawing from the procedures already put in place by the Data Seal of Approval (DSA) and the ICSU World Data System (ICSUWDS)	<b>Recommendation page:</b> <a href="https://www.rd-alliance.org/group/repository-audit-and-certification-dsa-wds-partnership-wg/outcomes/dsa-wds-partnership">https://www.rd-alliance.org/group/repository-audit-and-certification-dsa-wds-partnership-wg/outcomes/dsa-wds-partnership</a>	<ul style="list-style-type: none"><li>• CLARIN</li><li>• International Oceanographic Data and Information Exchange (IODE) programme</li><li>• CESSDA SaW Project</li></ul>
<b>Research Data Repository Interoperability WG</b>	<b>Research Data Repository Interoperability WG Final Recommendations</b> Provides recommendations with respect to an interoperable packaging and exchange format for digital content.	<b>Recommendation page:</b> <a href="https://www.rd-alliance.org/group/research-data-repository-interoperabil...">https://www.rd-alliance.org/group/research-data-repository-interoperabil...</a>  DOI: <a href="http://dx.doi.org/10.15497/RDA00025">http://dx.doi.org/10.15497/RDA00025</a>	<ul style="list-style-type: none"><li>• Fedora Commons</li><li>• DARIAH-DE Repository</li><li>• ICat Project</li><li>• KIT Data Manager</li></ul>

# RDA-pt goal: Adopt recommendations

Title	Group	Impact
Persistent Identifier Type Registry	PID Information Types Working Group	Defines standard core PID information types to enable simplified verification of data identity and integrity
Scalable Dynamic-data Citation Methodology	Data Citation Working Group	Supporting accurate citation of data subjected to change, for the efficient processing of data and linking from publications.

<https://www.rd-alliance.org/recommendations-and-outputs/all-recommendations-and-outputs>

# RDA-pt goal: Adopt recommendations

- Adoption stories
  - [Check them all](#)
- Example: Agriculture
  - Data standards for Agriculture: [INRA adoption of RDA Outputs](#)
    - French National Institute for Agricultural Research
  - Adopted recommendations
    - Wheat Data Interoperability Guidelines
    - The FAIRsharing Registry and Recommendations
    - Data Citation of Evolving data
- RDA actively searching for adoption stories

# RDA-pt goal: contribute to sustainability

- RDA foundation seeks sustainability model
- Regional structure
  - RDA Regional Engagement Group
    - Ongoing discussion
    - A basis for a model of contributions (PIB, members, region dimensions)
- Sustainability in RDA-pt
  - Alignment with Open Science goals in FCT



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# How can you participate in RDA?

- Join as a member
  - No cost, access to all groups and results
  - Sign up for Interest Groups and Working Groups
- Join RDA in Portugal
  - Highlight the presence of the Portuguese community in RDA
  - 51 of the 150 Portuguese members of RDA have signed up for the node



# How can you participate in RDA-pt?

- Promote activities and suggest actions
  - Related to open science and research data
  - Disseminate actions in disciplinary events
- Connect to groups/ institutions in charge of data
  - Disseminate node activities
  - Look up and recommend Interest Groups and Working Groups



# Opportunities & Grants



## RDA Europe grants

- Participate in plenaries: Early Career Programme (for individuals)
- Participate in plenaries: Experts (for individuals)
- Adoption Grants (for organisations adopting recommendations)
- Ambassadors (for individuals)
- Check out the the open calls: [grants.rd-alliance.org](https://grants.rd-alliance.org)