



4º encontro das
bibliotecas
de ensino superior

Coimbra, 4 e 5 de junho 2019

CIÊNCIA ABERTA NA PRÁTICA

Kit para Bibliotecários com base nos materiais de apoio dos
projetos FOSTER Plus, OpenAIRE e FIT4RRI

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Serviços de Documentação da Universidade do Minho

Kit para Profissionais de Informação

O essencial sobre a Ciência Aberta e a sua implementação



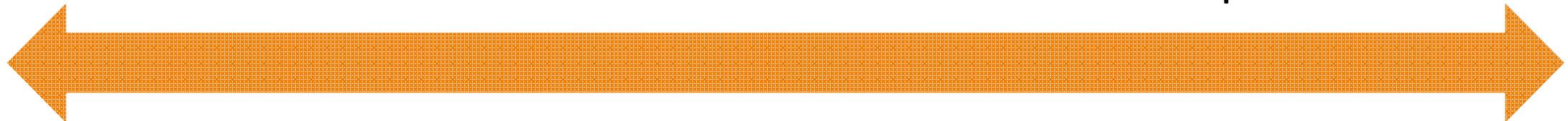
- Open Science Toolkit
- Training Handbook
- Elearning courses

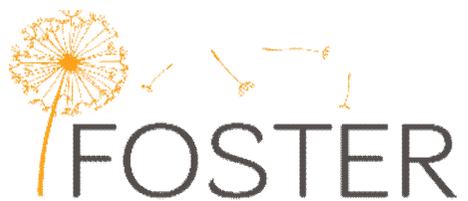


- Open Science Guides
- OS & RDM Primers
- Factsheets



- OS & RRI Taxonomy
- RRI Resources
- Co-creation Experiments





The future of science is Open

START YOUR RESEARCH
TRAINING NOW

USE FOSTER TO:



Access Courses

Put Open Science into practice with our **Open Science training toolkit**. Our **courses** are authored by experts and experienced educators.



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Get recognised for taking **our courses** and follow our **learning paths** to specialisations.



Participate

Join our community of trainers and access our **Trainers' Corner**.



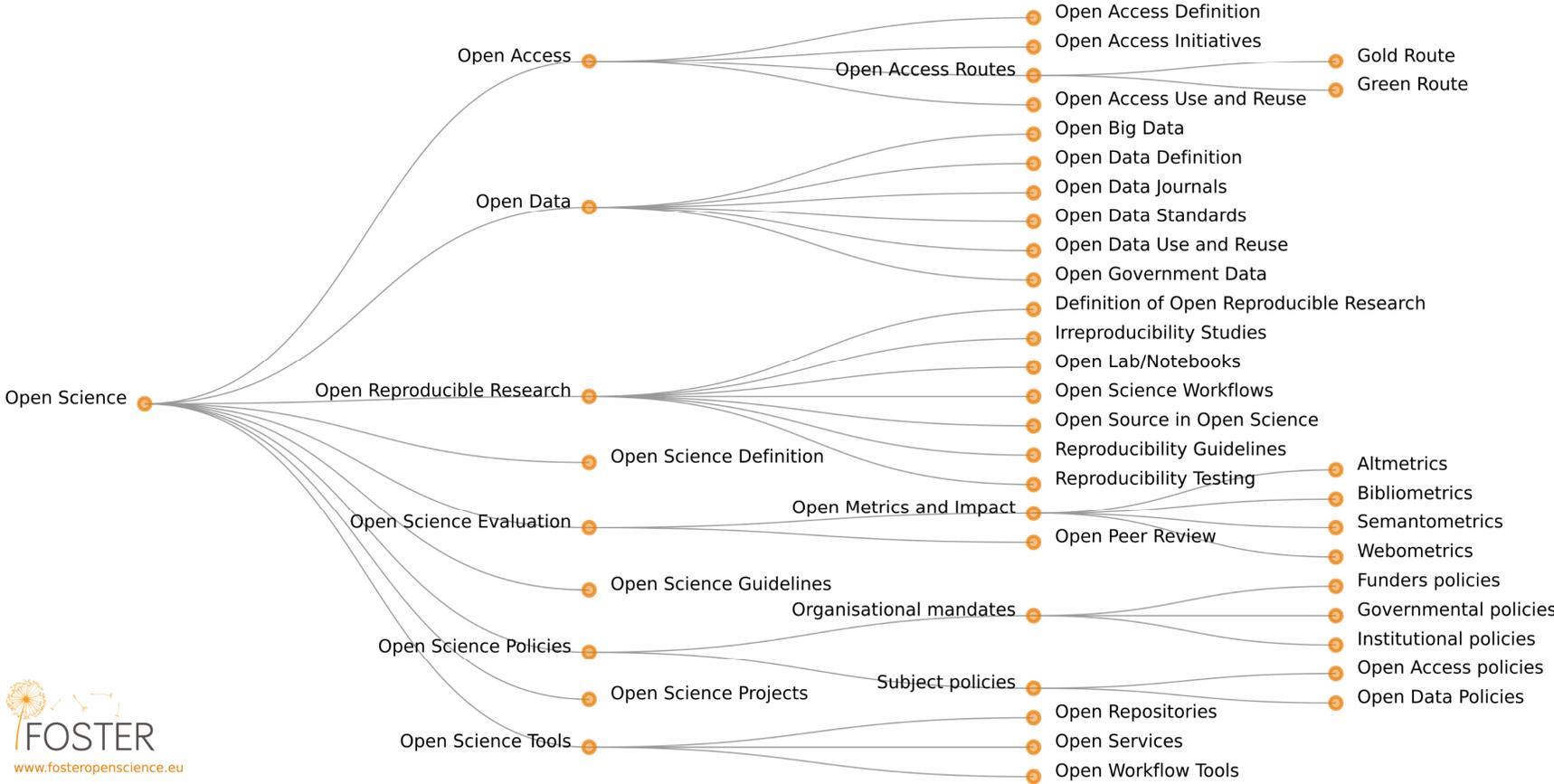
Promote Open Science

Use the **Open Science training handbook**. In a variety of formats and languages.

www.fosteropenscience.eu

Categorização dos recursos formativos

Open Science Taxonomy





Open Science Toolkit

Cursos de formação sobre Ciência Aberta na prática

<p>What is Open Science?</p> <p>Spanish version available</p> <p>This introductory course will help you to understand what open science is and why it is something you should care about.</p> 	<p>Best Practices</p> <p>Spanish version available</p> <p>This course introduces some practical steps for opening up your research practices and how to meet expectations relating to openness from funders, publishers and peers.</p> 	<p>Data Protection and Ethics</p> <p>Spanish version available</p> <p>This course helps you to get to grips with responsible data sharing.</p> 	<p>Open Licensing</p> <p>Spanish version available</p> <p>This course helps you to find the best open license for your open research outputs.</p> 	<p>Open Peer Review (OPR)</p> <p>Spanish version available</p> <p>This course will introduce you to OPR and let you know how you can get started with it.</p> 
<p>Managing and Sharing Research Data</p> <p>Spanish version available</p> <p>In this course, you'll focus on which data you can share and how you can go about doing this most effectively.</p> 	<p>OSS and Workflows</p> <p>Spanish version available</p> <p>This course introduces Open Source Software (OSS) and workflows as an emerging but critical component of Open Science.</p> 	<p>Open Access Publishing</p> <p>Spanish version available</p> <p>This course will help you become skilled in making your publications openly accessible in line with funders' requirements and in the wider context of Open Science.</p> 	<p>Sharing Preprints</p> <p>Spanish version available</p> <p>This course introduces the practice of sharing preprints and helps you to see how it can support your research.</p> 	<p>Open Science and Innovation</p> <p>Spanish version available</p> <p>This course will show you how Responsible Research and Innovation is accelerated through Open Science.</p> 

www.fosteropenscience.eu/toolkit



Manual de Formação em Ciência Aberta

TRAINING

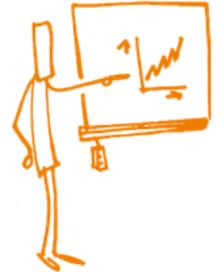


- Introdução à Ciência Aberta
- Estratégias de formação, orientações práticas e visão geral das teorias pedagógicas
- Guia prático para a organização de um curso de formação

<https://book.fosteropenscience.eu/pt/>



FOSTER Cursos eLearning



Aprofundando o conhecimento...



Use Open Data in Teaching

In higher education and research, the topics of open science and research data management have gained interest. This module stimulates the use of open research data in teaching, thus f...



Open Science basics for KU Leuven library staff *Moderated*

In this course for library staff at KU Leuven, participants will be introduced to the basics of Open Science.

After completion of the course, participants will be able to:



Assessing the FAIRness of Data - a short course for University of Cambridge staff *Moderated*

In this short course for researchers and support staff from the University of Cambridge, you'll learn how to go about assessing the FAIRness of research data using freely accessible tools&n...



Planos de Gestão de Dados no Horizonte 2020 *Moderated*

(This course about Data management plans in Horizon 2020 will be offered in Portuguese)

Se gostaria de saber mais sobre os planos de gestão de ...

<https://lms.fosteropenscience.eu/>



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O essencial sobre Ciência Aberta e Gestão de Dados de Investigação



Open Access Basics

An Open Access primer to get you started



An RDM Handbook

A primer on managing your research data

Open Science Primers:
iniciação às boas práticas

www.openaire.eu/os-primers

Guias para a prática da Ciência Aberta e utilização dos serviços OpenAIRE



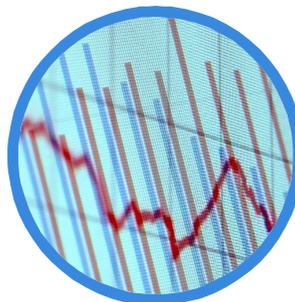
Investigadores

- Cumprimento dos requisitos do H2020
- Gestão de Dados de Investigação
- Direitos de autor e licenciamento



Gestores de repositórios

- Adoção de Diretrizes globais e Políticas de Aquisição de Conteúdo



Financiadores

- Monitorização dos resultados de investigação



Gestores de investigação

- Definição de políticas de Acesso Aberto



Serviços OpenAIRE

- Utilização dos Serviços OpenAIRE

Materiais de consulta prática sobre temas de Ciência Aberta

OpenAIRE Horizon 2020 Fact Sheets www.openaire.eu

Open Access mandate and Open Research Data in Horizon 2020
How can OpenAIRE help?

Are you part of a H2020 project? OpenAIRE helps you to provide open access to your project publications and data.

Open Research Data Pilot in Horizon 2020
How can OpenAIRE help?

Are you a Researcher, Project Coordinator or Research Manager participating in the EC Open Research Data Pilot?

What is the Open Research Data Pilot?

- Develop and keep up-to-date
- Deposit their data in a research
- Ensure that third parties can disseminate it.
- Make clear what tools are used

Personal data and the Open Research Data Pilot
How can OpenAIRE help?

Are you a Researcher, Project Coordinator or Research Manager participating in the EC Open Research Data Pilot?

What is personal data?

"Personal data" means any information relating to a natural person that is either identified or could be identified by that data (e.g. by reference to an identifier such as a name, an identification number, location data, online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that person).

Handling personal data
How to balance open access and data protection?

So what's the problem?

Research data – especially in fields like medicine, biotechnology and the social sciences – often contain personal data. This means that many datasets, in their raw form, cannot be made openly available as required by the OROD due to conflicts with rules on protection of personal data. Hence, incompatibility with data protection regulations is one of the major reasons for opting out of the OROD. However, opting out of the Pilot is not the only way to ensure possible infringement.

Finally, even if one particular dataset project might produce other datasets which are "secondary" even if datasets contain personal data, they might still be able to be shared either through (1) anonymisation, or in limited cases, (2) targeted sharing.

OpenAIRE Horizon 2020 Fact Sheets www.openaire.eu

Open Access and Open Data in Horizon 2020
How can OpenAIRE help?

Are you a Researcher, Project Coordinator or Research Manager participating in the EC Open Research Data Pilot?

4 Simple Steps to Open Access and Open Data in Horizon 2020
How can OpenAIRE help?

1. Submit a paper to a journal and can be reimbursed with no other options available in project website – they'll go online
2. Deposit the final peer reviewed version in an open access repository
3. Acknowledge project for 2017 or European and Grant grant number: the publication of the paper
4. Ensure open access to it (if necessary) is acceptable.

Why should you and your repository do this?

The OpenAIRE infrastructure collects all OpenAIRE network to make your content visible to the wider research community.

OpenAIRE Monitoring Services

OpenAIRE network

Open Access, Open Research Data and Open Science Policy Implementation
OpenAIRE helps you measure research funding impact and supports monitoring of Open Access

OpenAIRE MONITOR
Track Research Impact, Trends and Open Access Statistics

More funders are now on board: the Australian Research Council, FCT (Fundação para a Ciência e a Tecnologia) in Portugal, NIHR (National Health and Medical Research Council) in Australia and the Wellcome Trust in the UK. A number of other prominent EU funders are also coming on board.

Short Facts about Zenodo

- Open Access repository for EU funded research
- Up to 50 GB per upload
- Data stored in the CERN Data Centre
- Persistent Identifiers (DOI) for every upload
- Includes metadata metrics
- Free to use for all disciplines
- Open to all research outputs from all disciplines
- Simple and easy to use
- Fully API & OpenID Connect enabled and report via OpenAIRE

www.zenodo.org

OpenAIRE Services Fact Sheets www.openaire.eu

ZENODO
The free, open repository from OpenAIRE and CERN

What is Zenodo?

Zenodo (zenodo.org) is an open, dependable repository for all of scholarship, enabling researchers from all disciplines to share and preserve their research outputs, regardless of size or format. Free to upload and free to access, Zenodo makes scientific outputs of all kinds visible, shareable and discoverable for the long term.

Who is Zenodo for?

- Zenodo is for all individual researchers, scientific communities and research institutions. It is open to all research outputs regardless of funding source.
- Don't have an appropriate institutional or thematic repository? Use Zenodo.
- Zenodo is linked to Horizon 2020 projects and all results are immediately linked to OpenAIRE and the EC portal.
- With Zenodo you can create and attach a submission for your research group or project, host conference proceedings and event journals.

Share and preserve your publications, data and software for free in OpenAIRE's trusted repository hosted by CERN

Share and link research. Zenodo provides a rich interface which enables linking research outputs, to datasets and funding information. All open content is harvestable via OAI-PMH by third parties.

Supports versioning. View a timeline! Did you ever support all the different versions of a file?

Trusted, reliable, safe. Data is stored at CERN, which has considerable knowledge and experience operating large-scale digital repositories. Data files and metadata are kept in multiple online and offline copies.

Reviewing Research materials can be set to share with reviewers only, and also as embargoed.

Materiais de formação

Atividades de formação sobre práticas e experiências em Ciência Aberta



Training

Webinars

On specific topics

Workshops

Thematic, national,
services

www.openaire.eu/frontpage/webinars

www.openaire.eu/workshops-page



Fostering Improved Training Tools For Responsible Research & Innovation

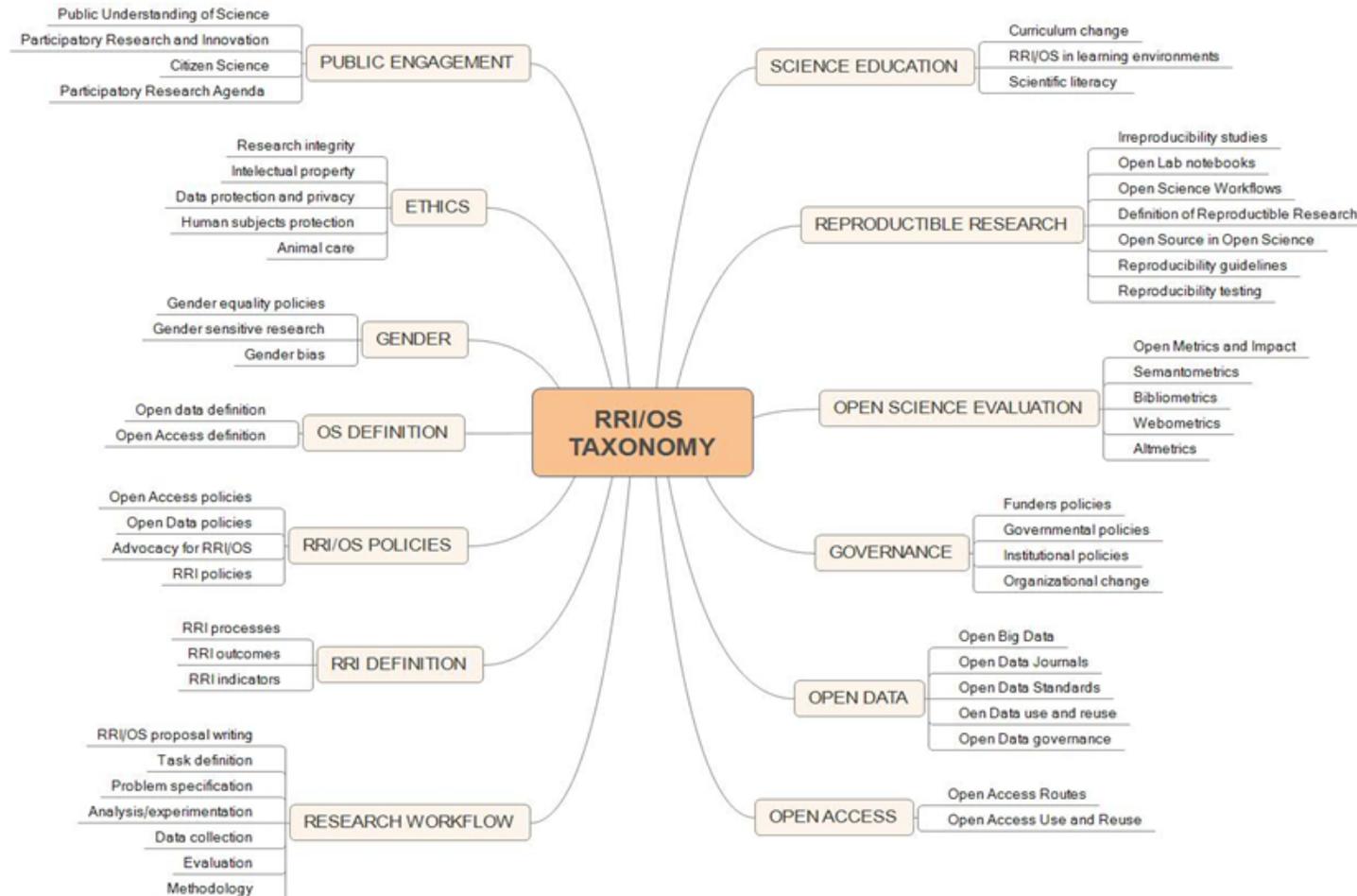
KNOW MORE ABOUT THE PROJECT



<https://fit4rri.eu/>



Taxonomia de RRI e Ciência Aberta



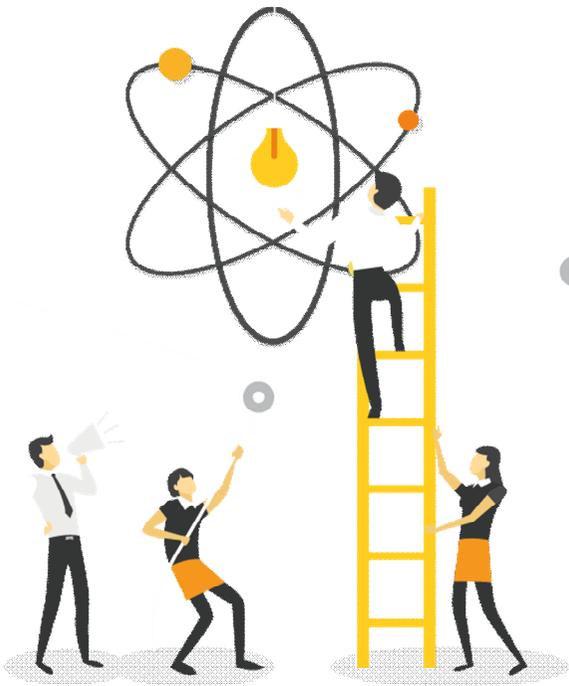


Recursos de Investigação e Inovação Responsável

Vídeos | Tutoriais | Guias | Diretrizes

Materials de formação para promover e incorporar as competências em RRI e Ciência Aberta nas instituições de investigação.

<https://fit4rri.eu/>





Experiências de co-criação

Experiências de integração da Ciência Aberta e implementação de práticas de Investigação e Inovação Responsável.

FIT4RRI: Conceito e Abordagem

1 Diagnóstico

Análise de tendências gerais, barreiras, condutores, interesses, valores e experiências avançadas relacionados com RRI e CA.

2 Teste

Serão desenvolvidas 4 experiências de co-criação envolvendo diferentes RFPOs para testar os resultados e observar a RRI e CA em ação.

3 Promoção e disseminação

Desenvolvimento de ferramentas e ações de formação e diretrizes baseadas em evidências sobre as configurações de governação.



EXPERIÊNCIA 1
Focada na eficiência energética



EXPERIÊNCIA 2
Focada na fotónica



EXPERIÊNCIA 3
Focada na ciência dos materiais



EXPERIÊNCIA 4
Focada na mineração de texto e dados

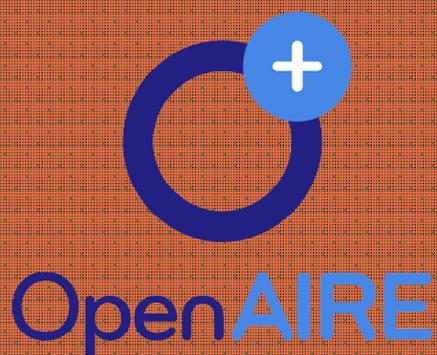
<https://fit4rri.eu/>



OBRIGADO!



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