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*Gestão e partilha de dados de investigação*

**OPEN SCIENCE TOOLKIT**



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### Open Science Training Courses

Open Science Training Courses are a collection of free courses available to all members of the research community. The courses are designed to help you understand the benefits of Open Science and how to implement it in your research. The courses are available in a variety of formats, including video, audio, and interactive exercises. The courses are designed to be flexible and can be completed at your own pace. The courses are available in English and Spanish.

**What is Open Science?**  
This course will help you understand the benefits of Open Science and how to implement it in your research. The course is available in a variety of formats, including video, audio, and interactive exercises. The course is designed to be flexible and can be completed at your own pace. The course is available in English and Spanish.

**Best Practices**  
This course will help you understand the best practices for Open Science. The course is available in a variety of formats, including video, audio, and interactive exercises. The course is designed to be flexible and can be completed at your own pace. The course is available in English and Spanish.

**Managing and Sharing Research Data**  
This course will help you understand how to manage and share your research data. The course is available in a variety of formats, including video, audio, and interactive exercises. The course is designed to be flexible and can be completed at your own pace. The course is available in English and Spanish.

**OSS and Workflows**  
This course will help you understand how to use Open Source Software (OSS) and Workflows. The course is available in a variety of formats, including video, audio, and interactive exercises. The course is designed to be flexible and can be completed at your own pace. The course is available in English and Spanish.

**Data Protection and Ethics**  
This course will help you understand how to protect your data and ensure ethical research. The course is available in a variety of formats, including video, audio, and interactive exercises. The course is designed to be flexible and can be completed at your own pace. The course is available in English and Spanish.

**Licensing**  
This course will help you understand how to license your research. The course is available in a variety of formats, including video, audio, and interactive exercises. The course is designed to be flexible and can be completed at your own pace. The course is available in English and Spanish.

**Open Access Publishing**  
This course will help you understand how to publish your research in an open access journal. The course is available in a variety of formats, including video, audio, and interactive exercises. The course is designed to be flexible and can be completed at your own pace. The course is available in English and Spanish.

**Sharing Preprints**  
This course will help you understand how to share your preprints. The course is available in a variety of formats, including video, audio, and interactive exercises. The course is designed to be flexible and can be completed at your own pace. The course is available in English and Spanish.

**Open Peer Review (OPR)**  
This course will help you understand how to use Open Peer Review. The course is available in a variety of formats, including video, audio, and interactive exercises. The course is designed to be flexible and can be completed at your own pace. The course is available in English and Spanish.

**Open Science and Innovation**  
This course will help you understand how to use Open Science to drive innovation. The course is available in a variety of formats, including video, audio, and interactive exercises. The course is designed to be flexible and can be completed at your own pace. The course is available in English and Spanish.

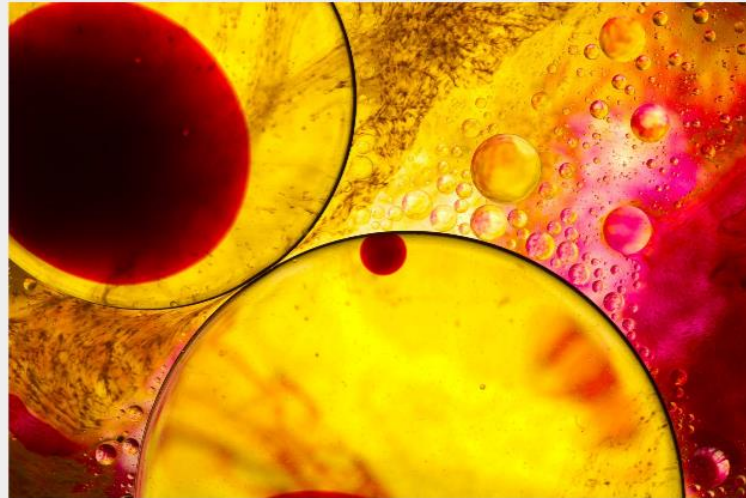
**Acknowledgements**  
This course will help you understand how to acknowledge the contributions of others. The course is available in a variety of formats, including video, audio, and interactive exercises. The course is designed to be flexible and can be completed at your own pace. The course is available in English and Spanish.

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# Open Science Toolkit

## Managing and Sharing Research Data

In this course, you'll focus on which data you can share and how you can go about doing this most effectively.



# Módulo: Gestão e partilha de dados de investigação

## OBJETIVOS DE APRENDIZAGEM

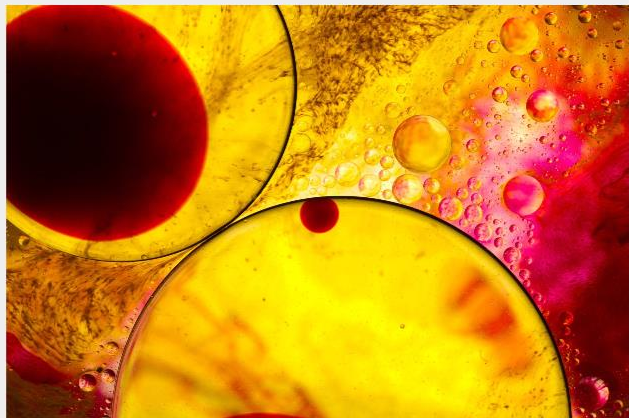
A investigação orientada por dados é cada vez mais comum numa grande variedade de áreas disciplinares, desde a arqueologia ou zoologia, das artes ou outras áreas temáticas da ciência também. Para apoiar a boa investigação, é necessário assegurar que os investigadores possuem acesso a bons dados.

- ✓ Compreender **quais os dados** que podem ser **abertos** e quais os que devem ser **protegidos**;
- ✓ Saber porquê e como elaborar um **plano de gestão de dados**;
- ✓ Compreender os princípios dos dados **FAIR**;
- ✓ Estar habilitado para identificar o tipo de **dados para preservar** e para **selecionar um repositório** apropriado;
- ✓ Aprender como obter o máximo **impacto para os dados** de investigação.

# Visão geral dos conteúdos do módulo

## Managing and Sharing Research Data

In this course, you'll focus on which data you can share and how you can go about doing this most effectively.



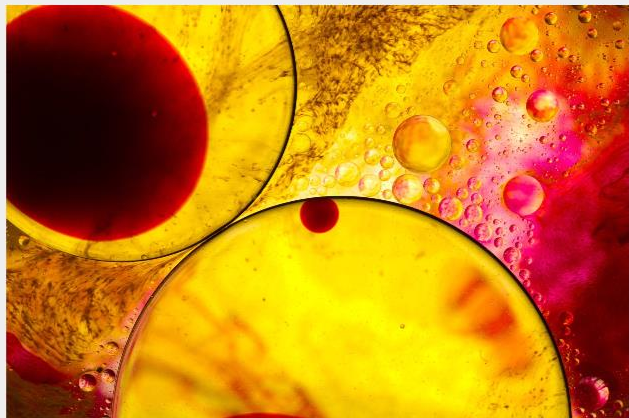
- O que são dados de investigação
- Dados abertos, fechados e partilhados
  - Abertos vs Fechados
  - Quem decide se os dados devem ser abertos, fechados ou outro tipo de acesso restrito
- Planeamento da gestão de dados
  - O que são planos de gestão de dados?
  - Porquê elaborar um plano de gestão de dados?
  - Requisitos dos financiados para o planeamento e partilha de dados
- Produzir dados FAIR
  - Porque precisamos dados FAIR
- Quando se deve partilhar os dados?
  - Formas de partilhar os dados
  - Benefícios da partilha de dados
- Que dados devem ser guardados e preservados

# Visão geral dos conteúdos do módulo

## FOCADO NA PRÁTICA

### Managing and Sharing Research Data

In this course, you'll focus on which data you can share and how you can go about doing this most effectively.



### Planos

- Ferramentas para planos de gestão de dados
- Exemplos de planos de dados para disciplinas específicas
- “Elaborar um PGD ajuda a evitar alguns pesadelos na gestão de dados”
- Ferramentas para planos de gestão de dados

### FAIR

- Ferramentas de avaliação FAIR
- Casos de estudo (ciências da vida, ciências sociais...)

### Partilha e preservação de dados

- Boas práticas em repositórios
- Casos de estudo na partilha de dados
- Dicas sobre como obter mais impacto para os dados

# Alguns aspetos relevantes (1/5)

So, who decides whether your research data should be open, closed, or somewhere in between?

Researchers have a key role to play in deciding what data can be shared but it is important to note that they are not the only stakeholders involved in making this decision.

- + Research participants
- + Research collaborators
- + Research data infrastructure
- + Research data repositories
- + Secondary data reusers

Conteúdos de valor acrescentado

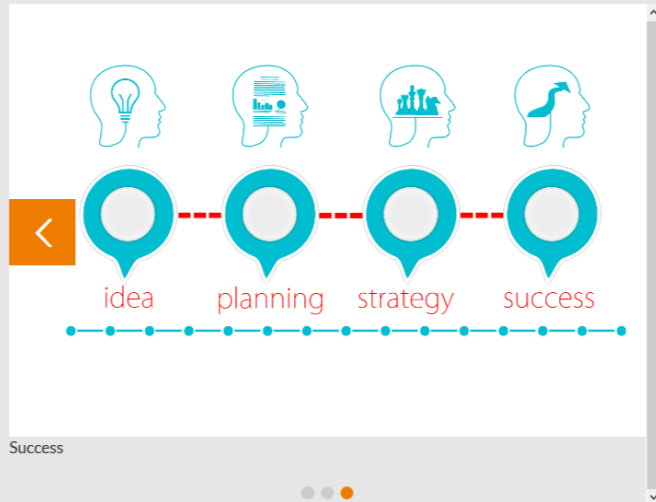


# Alguns aspetos relevantes (2/5)

Argumentação  
para a prática

## Why bother writing a DMP?

Some researchers are a bit sceptical about the value of writing a data management plan and feel it is just another administrative burden. There are lots of good reasons for writing a data management plan. Here are just a few of them.



### Direct benefits for you!

Data management planning provides benefits for you too! Good data management planning:

- avoids you drowning in irrelevant data
- helps you to know which versions of your data are most up-to-date
- helps you to understand and reuse your own data in the future
- gets you higher citation rates

- **Integridade da investigação**
- **Potencial de abertura e partilha**
- **Sucesso da Investigação - benefícios**

# Alguns aspetos relevantes (3/5)

## Case study - making Life Science research data FAIR using ELIXIR distributed infrastructure

This short video introduces the [ELIXIR](#) research infrastructure and shows how you can make use of it to make your biological research data FAIR.



## Case study - making Social Science research data FAIR using the CESDDA ERIC infrastructure

This video introduces [CESDDA ERIC](#) - a European Research Infrastructure for the Social Sciences.



## Case study - making Arts and Humanities research data FAIR using the DARIAH-DE infrastructure

This brief overview of [DARIAH-DE](#) research infrastructure shows you how their tools and resources can help you to share and store Arts and Humanities data and work collaboratively.



Vários casos de estudo



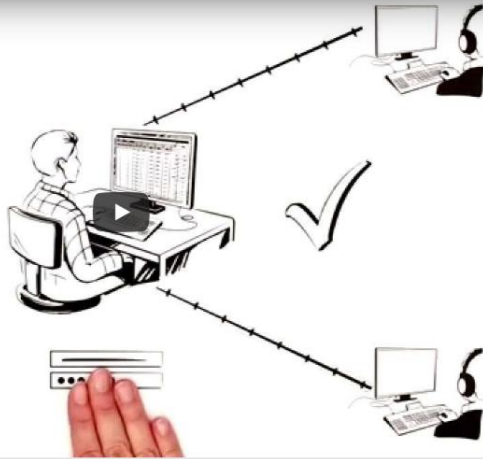
# Alguns aspetos relevantes (4/5)

Vídeos de  
qualidade

## Secure access using the DARIAH-DE Repository

This video explains how DARIAH-DE provides secure access to data for Arts and Humanities researchers.

Data Security for Research Data in the Arts & Humanities



## Benefits of sharing data

### Case study - the impact of open biological data

This video from ELIXIR explains how the Life Science research data they make available is being reused and what sorts of impacts - many unexpected - are being realised.

Impact of ELIXIR infrastructure

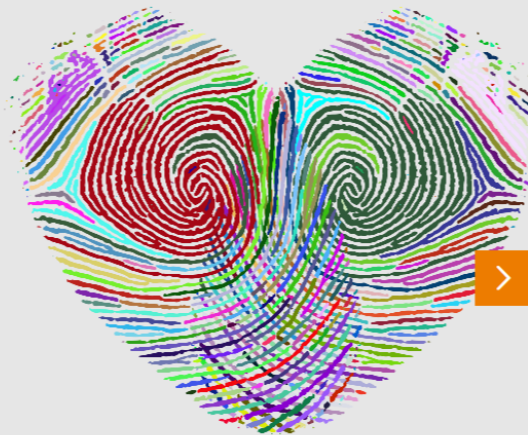


# Alguns aspetos relevantes (5/5)

Dicas  
práticas

## Tips for getting the best impact from sharing your research data

Here are a few ideas to help you get the biggest bang for your buck when sharing your research data.



### Assign a DOI to your data

Assign a unique and persistent identifier such as a Digital Object Identifier (DOI) to your data. DOIs are alphanumeric strings that are tied to the digital location of your object and the related metadata description. To learn more about assigning DOIs, please see the [DataCite](#) website. Most data repositories will issue a DOI for your deposited datasets. By having a DOI, your data is easier to find and cite - and for you to get credit!

## Discipline specific examples of real DMPs

Here are a few examples of data management plans (DMPs) that have been produced by projects in the Arts and Humanities, Social Sciences, and Life Sciences. For more examples of DMPs, please see the [DCC website](#).



### DATA MANAGEMENT PLAN



H2020 FREME Project

### A DMP from the Arts and Humanities

The H2020 supported [FREME](#) project is an open framework of e-services for multilingual and semantic enrichment of digital content project. The project has shared version one of their [DMP](#) as a public deliverable.



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Obrigado! Questões?

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