



CSC

ICT Solutions for
Brilliant Minds



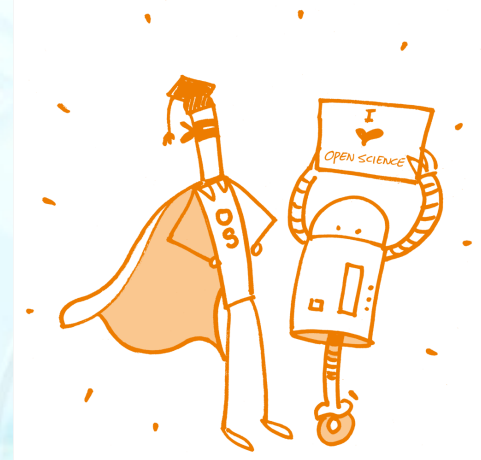
Vinkkejä datanhallinnan kouluttajille

Webinaari 16.5.2019 / Päivi Rauste, CSC



Webinaarin sisältö

1. Datanhallinnan koulutus- ja opintomateriaaleja
2. Oppimistavoitteita, kohderyhmiä, koulutusmuotoja
3. Terveisiä ja vinkkejä Foster/CESSDA/Elixir/DANS järjestämältä Train-the-Trainer koulutuspäivältä
4. Kysymyksiä ja keskustelua



Käytettävissä olevia koulutusmateriaaliaaleja

- CESSDA Data management Expert Guide
- FOSTER/OpenAIRE training and learning resources on Open Science and RDM
- Data stewardship training resources in ELIXIR
- ANDS (Australian National Data Service)
- Open Science MOOC



Introduction to the CESSDA Data Management Expert Guide

Ricarda Braukmann | DANS

17-04-2019 | Open Science & RDM Train-the-Trainer Bootcamp



cessda.eu



[@CESSDA_Data](https://twitter.com/CESSDA_Data)

DANS and CESSDA

Data Archiving and Networked Services



DANS participates in many (inter)national projects and infrastructures

CESSDA: Consortium of Social Science Data Archives

CESSDA wants to be a consortium of trusted repositories with full European coverage, offering a platform with tools and services to both data producers and data re-users.

- [CESSDA Data Catalogue](#): Platform to find and reuse social science research data
- [CESSDA Training](#): Facilitating teaching and learning in the social sciences

Data Management Expert Guide

“ This guide is designed by European experts to help social science researchers make their research data Findable, Accessible, Interoperable and Reusable (FAIR). ”



<http://cessda.eu/DMEG>

Following the Data Life Cycle



How you can use the Guide

The module is open and freely available via CESSDA.eu/DMEG

- Self-study for researchers (15 - 20 hours of content)
- Basis for interactive workshops on data management
- Train-the-trainer package

The Expert Tour Guide on Data Management by CESSDA ERIC is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License. All material under this license can be freely used, as long as CESSDA ERIC is credited as the author.



Train-the-trainer package

A TTT package is available at cessda.eu/TTT

- Presentations

Skeleton for a “content-specific” 1-day workshop

- Documents

Use or adapt this outline to offer your own workshop discussing ethical and legal considerations in Research Data Management.

- Workshop outlines

- Exercises

Cite as: Veerle Van den Eynden (2018) Exercise: De-identification on quantitative data. UK Data Service, UK

- Images

Exercise: De-identification of quantitative data





FOSTER & OpenAIRE training and learning resources on Open Science and RDM

Iryna Kuchma, EIFL

Open Science and Research Data Management Train-the-Trainer
Bootcamp, 17 April, 2019, NWO, the Hague



Open Science courses to re-use

What is Open Science?	Best Practice in Open Research	Open Access Publishing	Open Peer Review	Sharing Preprints
				
Data Protection & Ethics	Open Source Software & Workflows	Managing & Sharing Research Data	Open Science & Innovation	Open Licensing
				

<https://www.fosteropenscience.eu/toolkit>

Learning paths

The
Reproducible
Research
Practitioner



The Open
Peer
Reviewer



The Open
Access
Author



<https://www.fosteropenscience.eu/learning-paths>

Open Science Training Handbook

Open Science Basics



Open Concepts & Principles



Open Research Data & Materials



Open Research Software & Open Source



Open Education Resources



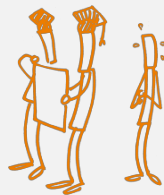
Open Access to Published Research Results



Open Science Policies



Open Licensing & File Formats



Open Peer Review, Metrics & Evaluation



Reproducible Research & Data Analysis



On Learning and Training



How to

- **Prepare** your workshop
 - Theoretical learning strategies
 - Different audiences
 - Strategies to develop motivation
- **Execute** your workshop
 - How to design a course
 - How to choose content
 - How to start training
- **& reflect** on your workshop
 - Aspects to evaluate

Organisational Aspects



- Venue
 - Timing & budget
 - Equipment & media
 - Marketing & advertising strategy
 - Registration
 - Evaluation
- Check list



Open science trainer's corner

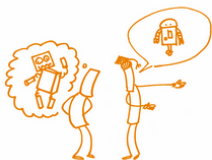
Do you organise Open Science trainings yourself or are planning to do so? On this page you can find a set of materials that offer some inspiration or help you to get started in the first place. Take a look and adapt or re-use the resources for your own trainings.



The Open Science Training Handbook

This handbook brings together methods, techniques and practices, to support educators of Open Science to create high quality and engaging trainings. It is available under [Creative Commons Public Domain Dedication \(CC0 1.0 Universal\)](#). You do not have to ask our permission to re-use and copy information from this handbook.

- Access the Open Science training handbook [here](#).



Illustrations, icons & cartoons

<https://www.fosteropenscience.eu/trainers-materials>

During the book sprint the artist Patrick Hochstenbach draw more than 100 icons and cartoons to illustrate the Open Science training handbook. They are now for you available under [Creative Commons Public Domain Dedication \(CC0 1.0 Universal\)](#) to re-use.

- Download the large set of small icons such as a book, coffee, researcher, megaphone etc. here: [Large ZIP archive of PNG graphics \(1.5Mb\)](#)
- Download the 16 cartoons, e.g. fundamental rules of open science here: [ZIP archive of 16 PNG illustrations \(15Mb\)](#)



Data stewardship training resources in ELIXIR



Celia van Gelder (DTL/ELIXIR-NL)

Open Science and Research Data Management Train-the-Trainer Bootcamp

April 17, 2019

www.elixir-europe.org

ELIXIR: European infrastructure for biological information

Data infrastructure for Europe's life-science research:

22 Members and 1 Observers
~ 180 institutes involved



Data



Interoperability



Tools



Compute



Training



Marine metagenomics



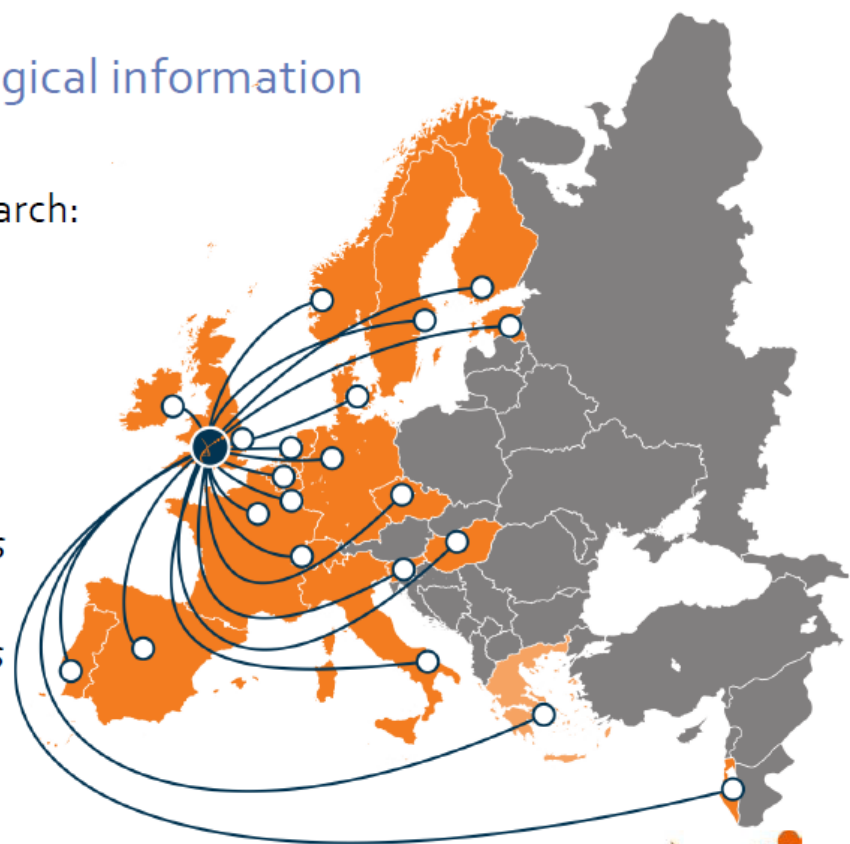
Crop and forest plants



Human data



Rare diseases



www.elixir-europe.org



[@ELIXIREurope](https://twitter.com/ELIXIREurope)



ELIXIR Training - in summary

- **Training events** – researchers, developers, infrastructure operators & trainers
- **Train-the-Trainer** - programme & developed framework
- **TeSS** portal - share & exchange training content and events <https://tess.elixir-europe.org>
- **Training Toolkit** - Training best practices, guidelines, standardized metrics for quality & impact assessment
- Solutions to ease training and communication - **E-learning platform & VCR**



ELIXIR Training: Quality and Impact

<https://www.elixir-europe.org/platforms/training>

accelerate
*Sept 2015 - May 2018



Sept 2015 – May 2018

19 Nodes involved:

BE, CH, CZ, DE, FI, EE, ES, FL, FR, GR, IL, IT, IJ, NL, NO, PT, SE, SI, UK



Training in Data Stewardship – to whom (& what to teach precisely?)

- **Researchers:** create, manage, analyse and share FAIR data
- **Data Stewards:** provide support for research teams, data repositories, data services
- **Reviewers and funders:** assess DMPs, assess FAIRness of datasets, data resources in publications, grant proposals and reports
- **Trainers:** teach how to apply FAIR principles and how to perform good Data Stewardship

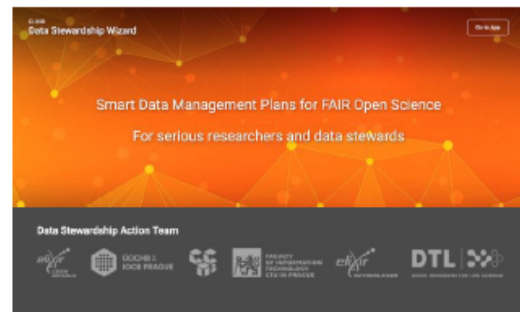


Tool: The ELIXIR Data Stewardship Wizard

- The Data Stewardship Wizard (DSW) is a web-based application for preparing smart Data Management Plans.
- It connects to additional learning resources and helps raise awareness about DS challenges.
- <https://ds-wizard.org/>

The Wizard is for:

- **Researchers:** Support in DS Planning, Raise awareness
- **Data Stewards:** Check list DS Planning
- **Experts:** Their contact details can be linked
- **Funders / Institutes:** Customize, Domain specific
- Allows tailor made DSW instances for an organisation, a Node, a company etc.
- Contact: rob.hooft@dtls



Enter Keywords



Enter Keywords



About us

News and Events

Partners and
Communities

Working with
data

Online Services

Guides and
resources

Working with data

The FAIR data
principles

FAIR webinar series
(Aug/Sep 2017)

FAIR data training

Findable

Accessible

Interoperable

Reusable

ANDS | Working with data | The FAIR data principles

FAIR data training

<https://www.ands.org.au/working-with-data/fairdata/training>



If you intend to run workshops on FAIR data, or include FAIR in training that you are already running here are some ideas and resources:

- A [basic checklist](#) (or [more comprehensive](#) breakdown) as a tool for discussing the components of FAIR
- Use the [FAIR data self-assessment tool](#) in training or consultation





About us

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Guides and
resources

Working with data

Skills

Domain specific
training

For data trainers

Multi-day data and
research skills
training

23 (research data)
Things











Technical data skills

ANDS | Working with data | Skills

For data trainers



ANDS, Nectar, RDS run training workshops for data trainers and also provide the training materials for reuse. An example is the Powering up your 2018 (data skills) training course. To date this course has been run in

- Brisbane - [workshop materials](#)  
- Melbourne - [workshop materials](#)  
- Perth - [workshop materials](#)  
- Sydney - [workshop materials](#)  
- Adelaide - [workshop materials](#)  

OPEN SCIENCE MOOC

FREE | OPEN | LEARNING

Our first course on *Open Research Software and Open Source* is now available

ENROLL NOW

Propulsed by [Eliademy](#)

<https://opensciencemooc.eu/>

Welcome to the home of the Open Science MOOC!

This website provides information about our MOOC, its rationale, the current state of the project, and the [people](#) behind it.

This is a mission-driven project to help make 'Open' the default setting for all global research. We want to help create a welcoming and supporting community, with good tools, teachers, and role-models, and built upon a solid values-based foundation of freedom and equitable access to research.

Twitter

 Follow [@OpenScienceMOOC](#)

Tweets by [@OpenScienceMOOC](#)

Aikuiset opiskelijoina

- Sisäinen motivaatio ja toimivat itseohjautuvasti
- Tuovat omia kokemuksiaan ja aikaisempia oppejaan mukaan oppimistilanteisiin
- Päämäärätietoisia ja hakevat merkityksellisyyttä
- Käytännönläheisiä
- Haluavat arvostusta, tasa-arvoinen suhde kouluttajan ja koulutettavan välillä
- Aika on heille arvokas resurssi



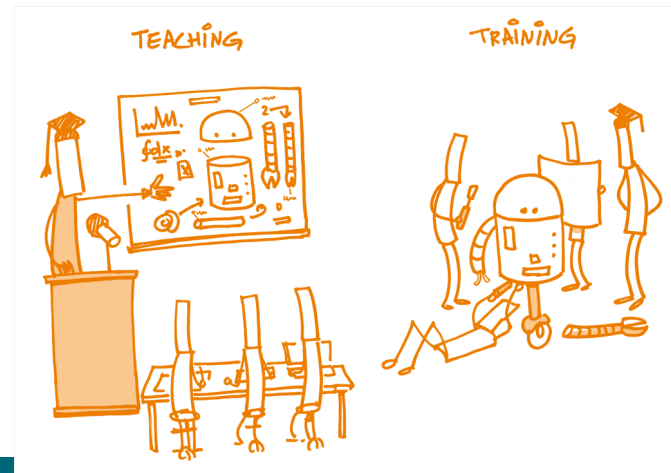
Keskity tuloksiin enemmän kuin tavoitteisiin

- Korosta konkreettisia taitoja, osaamista ja tietämystä, joita opiskelijat voivat saavuttaa suorittamalla tietyn kurssin.
- How does this training make the difference?



Miten koulutuksesta käytännönläheisempää?

- Käytännönläheiset tehtävät, mahdollisesti tosielämästä
- Paljon itse tekemistä, "hands-on"
- Keskustelua muiden kurssilaisten kanssa, vertaisoppimista
- Jatkuvaa palautetta
- Lyhyet esitykset, paljon tehtäviä ja harjoituksia
- Harjoitusten purku, mahdollisuus oppia muilta



Valmistelu

- Annetaan osallistujille mahdollisuus lähettää etukäteen kysymyksiä ja esimerkkejä ongelmista esim. DMP:n teossa
- Interaktiivisia osallistumismenetelmiä, kuten Mentimeter
- Muista riittävän usein tauot sekä mahdollisuus ruokailuun
- Materiaalit jälkikäteen saataville



KYSYMYKSIÄ JA KESKUSTELUA





KIITOS!

Linkkejä materiaaleihin:

<http://cessda.eu/DMEG>
<https://www.fosteropenscience.eu/toolkit>
<https://www.fosteropenscience.eu/learning-paths>
book.fosteropenscience.eu
<https://www.fosteropenscience.eu/trainers-materials>
<https://tess.elixir-europe.org>
The Elixir Data Stewardship Wizard
<https://ds-wizard.org/>
<https://www.ands.org.au/working-with-data/fairdata/training>
<https://opsciencemooc.eu/>



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youtube.com/CSCfi



linkedin.com/company/csc---it-center-for-science



github.com/CSCfi