

**Deep dive:  
training  
resources  
FAIRification,  
community and  
future  
opportunities**



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**Elizabeth Newbold**  
STFC



**Shanmugasundaram  
Venkataraman**  
EOSC Future  
OpenAIRE



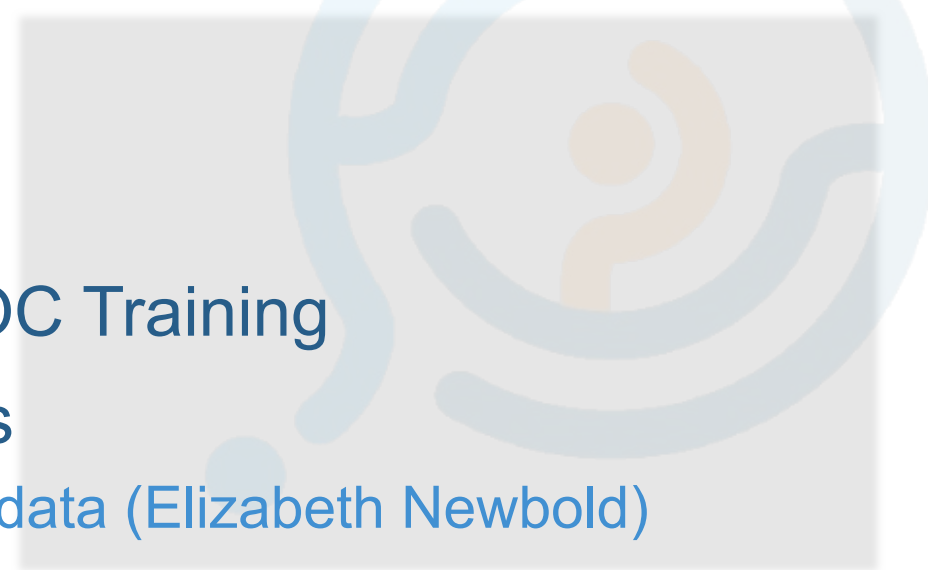
**Ellen Leenarts**  
SSHOC / DANS



**Irena Vipavc Brvar**  
Univerza v Ljubljani /  
CESSDA

# Agenda

- 11:00 - 11:10 Introduction & Key Results SSHOC Training
- 11:10 - 11:40 FAIRification of Training Materials
  - Developing a community approach to minimal metadata (Elizabeth Newbold)
  - SSH Training Discovery Toolkit (Ellen Leenarts)
  - CLARIN training resources (Iulianna van der Lek)
- 11:45 - 12:30 Panel discussion
  - Shanmugasundaram Venkataraman (EOSC Future & OpenAIRE)
  - Irena Vipavc Brvar (CESSDA/ADP)
  - Elizabeth Newbold (FAIRsFAIR)
  - Ellen Leenarts (SSHOC)
  - Iulianna van der Lek (CLARIN)



# Key Results SSHOC Training

## WP6 Fostering Communities, Empowering Users & Building Expertise

1. Mapping the landscape and developing strategies to foster communities & build expertise
2. Fostering Communities: Engaging New & Existing Users
3. Empowering Users: Training Materials and Online Learning Paths
4. Building Expertise: the SSHOC Training Network
5. Coordinating targeted training in the Social Sciences and Humanities

- Organising training events & creating training materials
- Building the SSH training community
- Developing tools to enhance training in the SSH



# Key Results – Training Events & Materials

## Training Events

[Home](#) / [Training](#) / Training Events

Data Protection & GDPR

Data Stewardship

Data Citation

Data Science for SSH

Data Science for HS

Text Mining

Train-the-Trainer Bootcamps



### SSHOC Workshop: Data Management Planning and Overcoming Challenges in Social Sciences Data Sharing

**Date** Monday, 14 February, 2022 - 10:00 to Tuesday, 15 February, 2022 - 12:30

**Location** Online

**Training, Data Stewardship and RDM in theory and practice**



### SSHOC Workshop: Copyright Issues in Secondary Data Use

**Date** Monday, 24 January, 2022 - 09:30 to Tuesday, 25 January, 2022 - 12:30

**Location** Online

**Training, Data Stewardship and RDM in theory and practice**



## 28 training events

- Mostly online
- Overview of existing materials
- Creation of new materials

List of events: <https://sshopencloud.eu/training/training-events> | D6.8 <https://doi.org/10.5281/zenodo.5913544>

Materials: <https://zenodo.org/communities/sshoc/> | Recordings on the SSHOC [YouTube](#) channel

# Key Results – SSH Training Community

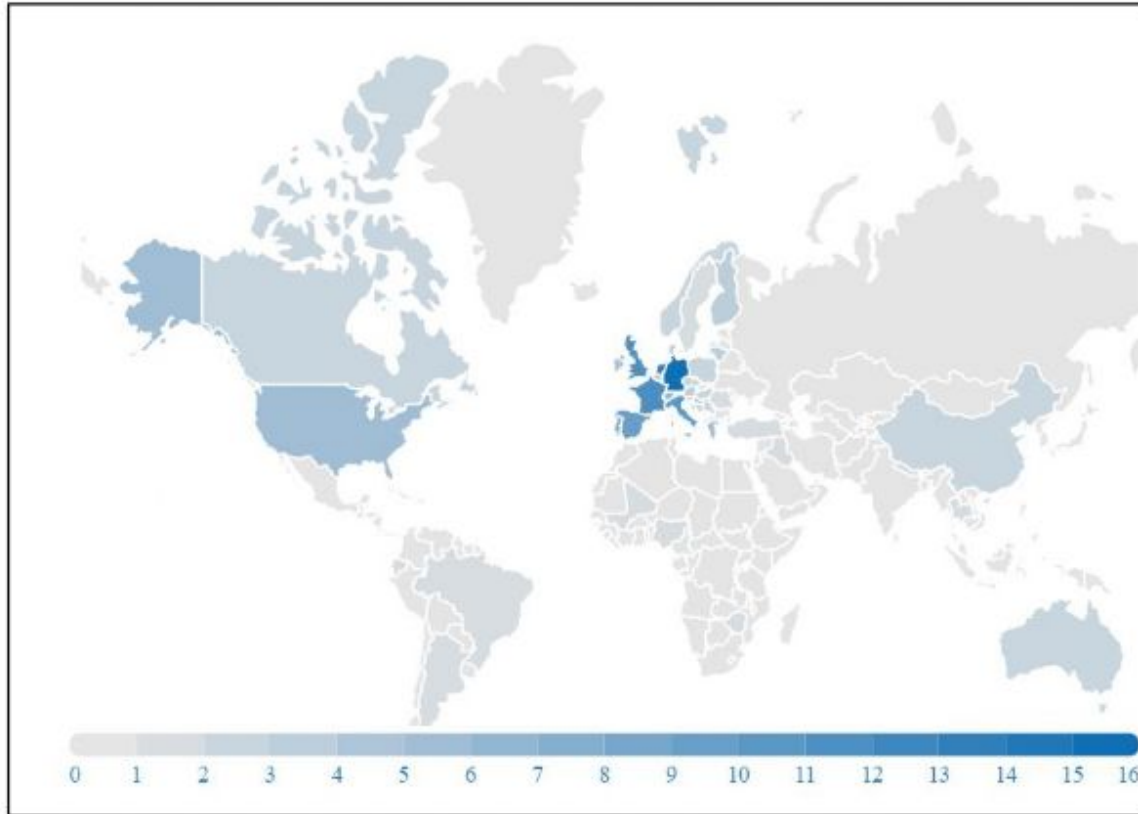
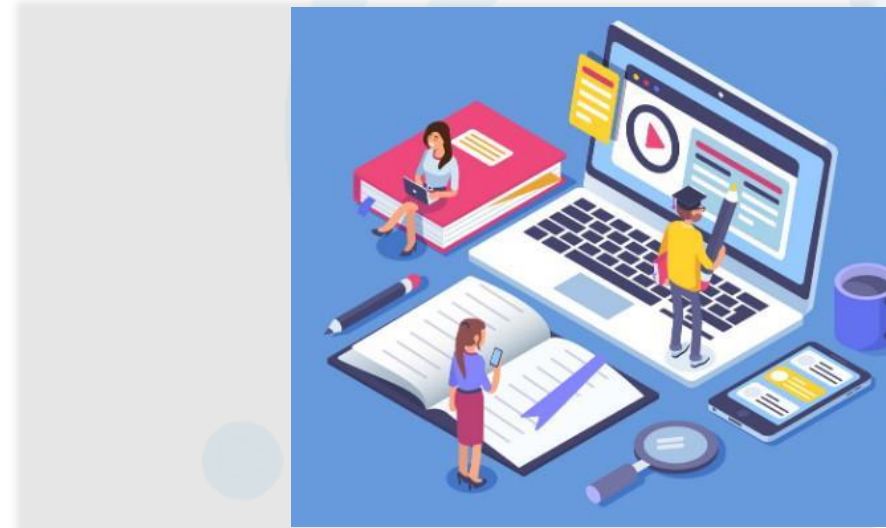


FIGURE 1: GEOGRAPHIC DISTRIBUTION OF SSH TRAINING COMMUNITY MEMBERS

<https://sshopencloud.eu/ssh-training-community> | D6.13 <https://doi.org/10.5281/zenodo.5837119>



**172** members (November 2021)

- Various SSH disciplines
- Train-the-trainer Bootcamps
- Monthly community calls
- Community mailinglist



# Key Results SSHOC Training – Tools

## SSH Training Discovery Toolkit

*inventory for trainers to find existing training materials for re-use in their own training activities*

**250+** items from **95+** sources (March 2021)

- Curated information
- Standardized metadata

<https://training-toolkit.sshopencloud.eu>

D6.11 will be on <https://zenodo.org/communities/sshoc/>

## SSH Trainers Directory

*database where trainers and experts in the field of SSH are listed*

**17** trainers (March 2022)

- Filtered by target audience, domain, language & level of training

<https://training-toolkit.sshopencloud.eu>

D6.13 <https://doi.org/10.5281/zenodo.5837119>

# FAIRification of Training Materials



*Ten simple rules for making training materials FAIR (Garcia et al 2020.)*  
<https://doi.org/10.1371/journal.pcbi.1007854>

# FAIRification of Training Materials

**Elizabeth Newbold** Developing a community approach to minimal metadata

**Ellen Leenarts** SSH Training Discovery Toolkit

**Iulianna van der Lek** CLARIN training resources



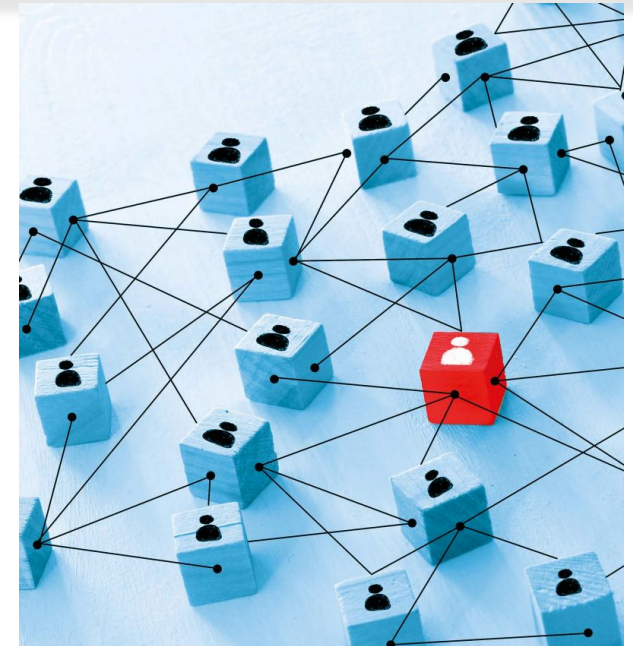


# Journey towards FAIR training materials: Training Discovery Toolkit

**Session: Deep dive: training resources  
FAIRification, community and future opportunities**

Ellen Leenarts, WP6.4 lead, DANS

**Final conference**  
7 April 2022  
Brussels



# Context

- WP 6.4 : to build a community and support the teachers and trainers in the SSH domain
  - SSH Training Community - monthly calls
  - Organising events such as train-the-trainer bootcamps
  - **Create a tool** for trainers to improve discovery of training materials for reuse.
- *Context outside SSHOC:*
  - *Workshops organised to align efforts for improving FAIRness training materials:*
    - 3-day workshop “Training in the EOSC” by DANS, EUDAT, EGI, OpenAIRE <https://doi.org/10.5281/zenodo.3894370> (need: catalogue for learning resources)
    - Others EOSC-pilot, EOSChub, FAIRSFAIR, now EOSC Future.
    - Community of Practice for training coordinators <https://www.openaire.eu/cop-training>
  - *RDA IG ETRDH: minimal metadata learning resources task group - 2020 onwards*



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<https://doi.org/10.5281/zenodo.4906004>

# Objectives

## Training Discovery Toolkit (TDT)

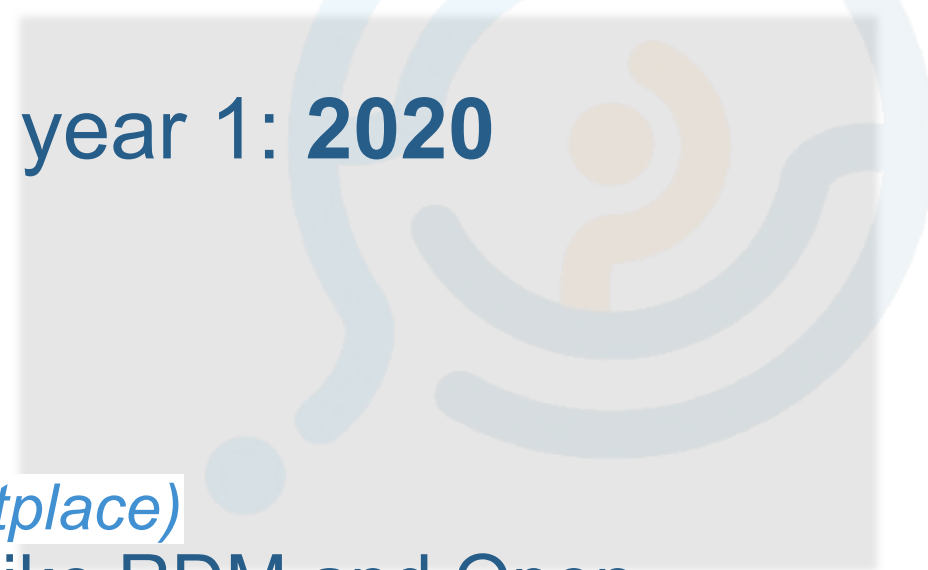
1. *Improve the **discoverability** of training resources*
2. *Create a catalogue **for trainers** that lists **good quality resources** for reuse*
3. *Support the use of training resources specific metadata*

<https://training-toolkit.sshopencloud.eu/>



# The journey of the TDT implementation - year 1: 2020

- *TDT launched April 2020 - two years ago*
  - *In collaboration with task 6.3/WP7 (SSH marketplace)*
- Training resources focus on generic topics like RDM and Open Science and topics that cross domains
- *Community feedback provided by*
  - *Members of the established SSH Training Community & training coordinators of the research infrastructures in SSH*
- *Feedback:*
  - *Look and feel of the tool (+ filtering, - About page) and*
  - *Content suggestions reusable learning resources*
- *Result: catalogue contained curated references to:*
  - *41 sources and 70 training materials*



# The journey of the TDT implementation - year 2: 2021

- *Improvements:*

- *New 'About' page to explain purpose and terminology*
- *Setup curation workflow - guidance materials, curation team and plan curation sprints*
- *Add sources and example items*

The screenshot shows the SSH OpenCluster SSH Training Discovery Toolkit website. The header includes the logo for SSH OpenCluster (Social Sciences & Humanities Resources) and the title 'SSH Training Discovery Toolkit'. Navigation links for 'About', 'Privacy policy', 'Legal notice', and 'Contact' are visible. The main content area features a search bar with the placeholder text 'Search for sources and items' and a 'Search' button. Below the search bar, the text reads: 'The SSH Training Discovery Toolkit provides an inventory of training materials relevant for the Social Sciences and Humanities. Use the search bar to discover materials or browse through the collections. The filters will help you identify your area of interest.'

The search results are displayed under the heading 'Search entities' and show 'Displaying 1 - 200 of 360'. The results are presented in a table with columns for 'Source of item', 'Title', and 'Description'. Two items are visible:

Source of item	Title	Description
FOSTER Open Sciences: Courses	A Case Report: Building communities with training and resources for Open Science trainers	To foster responsible research and innovation, research communities, institutions, and funders are shifting their practices and requirements towards Open Science.
Copyright Guide at the University of Sussex	A copyright game of snakes and ladders	The aim of the game, as with the traditional snakes and ladders, is to be the first player to reach the finish square, 100, by moving across

On the right side of the results, there are filter panels. The 'Entity type' panel shows 'Item (261)' and 'Source (99)' both selected. The 'Organisation' panel shows '4TU.ResearchData (1)' and 'Academy of Athens (1)' both unselected.

# The journey of the TDT implementation - this year: 2022

## *Most recent activities*

- *Report in deliverable 6.13 (watch SSHOC community Zenodo)*
- *Upcoming paper (by Community of Practice) describing various journeys FAIRification of training resources, not only in SSH*
- *Improvements of the metadata*
  - ◆ *Adapt metadata fields and data model (based on RDA ETRDH recommended minimal metadata)*
- *Use & publish controlled vocabularies*
- *Mapped metadata to schema.org*
  - ◆ *To share metadata for harvesting*
  - ◆ *To improve discoverability (google)*

The toolkit now contains:  
99 Sources that have examples  
on reusable training resources  
261 Items



# Challenges & Lessons learned

*A good quality catalogue is **hard work & needs SSH community***

- *Effort needed for curation*
- *Curation needs to be done by expert trainers in SSH*
- *Update with community agreed metadata*
  - *Update the datamodel - revisit content several times*
  - *Improve quality of the metadata (e.g. access conditions) compared to source*
- *Align with other catalogues and EOSC*

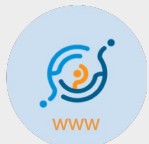
*The journey has not yet come to an end... TDT continues to be part of the SSH marketplace (part of a MoU of SSH research infrastructures) and is planning to be interoperable with the EOSC Future knowledge hub.*

*The goal will continue to be to support teachers and that resources will be more FAIR: **improving metadata & balance in effort is key***



# Thank you for your attention!

Join our community



<https://www.sshopencloud.eu>



@SSHOpenCloud



[info@shopencloud.eu](mailto:info@shopencloud.eu)



/in/shopencloud



# Final Conference

## Practical Implementation of FAIR Training Materials in the EOSC Future Project and OpenAIRE

S. Venkataraman, Training Officer, OpenAIRE,  
s.venkataraman@openaire.eu

7th April 2022  
Brussels



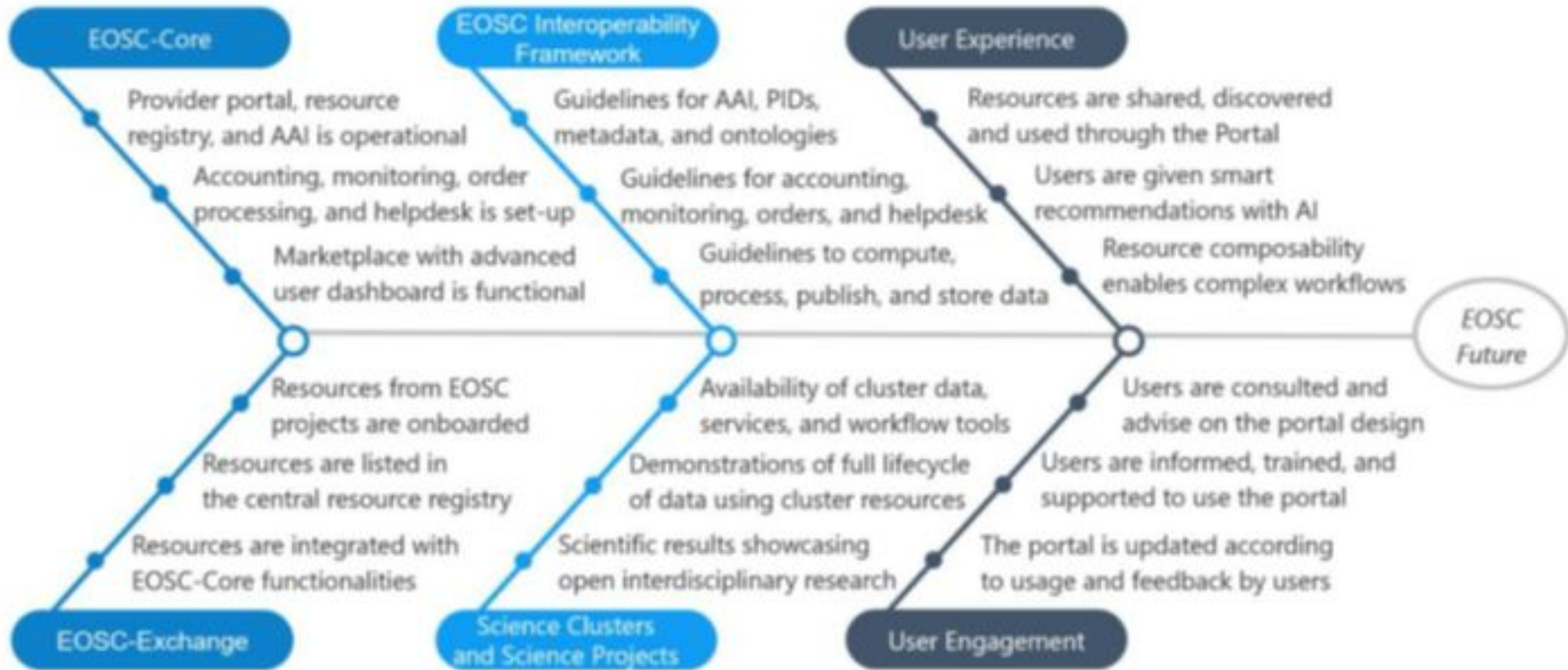
# EOSC Future Project

EOSC Future vision is centered around three key tenets:

1. the realisation of EOSC-Core and EOSC-Exchange with interoperable data and resources
2. the integration of data and resources from the Science Cluster communities into the EOSC Platform
3. the direct involvement of users in the co-design and implementation of the EOSC Platform



# EOSC Future Project



# EOSC Future Project - WP9 - Training & Skills

Providing the training support across the project and for the EOSC community by:

- Creating a training programme across different stakeholder groups
- Building a platform to host materials and provide training capacity
- Outreach to projects and communities interested in and engaging with EOSC



# EOSC Future Project - Training Catalogue

- Use the RDA minimum metadata for training resources
- Approached four pilot cases
- Adapted for our use with criteria varying for aggregated pre-existing materials vs new directly added materials
- Pragmatic approach to ensure inclusivity
- Effort to ensure FAIR by design



# ...and in OpenAIRE

Meanwhile...

- OpenAIRE is also about to launch a LMS and catalogue - OpenPlato
- We have largely adopted the RDA minimum metadata set too and are opening it up to community end-users for free use
- Also free to use for providers from OpenAIRE members and as yet not fully defined third parties



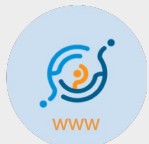
# Community of Practice of Training Coordinators - Making Training Materials FAIR TF

- Build on work published by “10 Simple Rules” paper (Garcia et al., 2020)
- Collating use cases from across different disciplines to do analysis of FAIR compliance
- Provide practical guidance



# Thank you for your attention!

Join our community



<https://www.sshopencloud.eu>



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[info@shopencloud.eu](mailto:info@shopencloud.eu)



[/in/shopencloud](https://in/shopencloud)



# Final Conference

CESSDA's path in making training materials FAIR

**Irena Vipavc Brvar,**  
CESSDA Training WG lead, CESSDA/ADP

**SSHOC Final Conference**

**7 April 2022**

Brussels



## Webinar: Harmonised data for comparative research

Date: 15 June 2020

**Video:** Comparative social science research requires comparable data across countries. This CESSDA webinar explores sources of harmonised comparative data and methods and tools for harmonising data. Hosted by Jen Buckley from the UK Data Service, the session includes two expert speakers. Professor Irina Tomescu-Dubrow discusses methodology that the Survey Data Recycling Project develops to harmonize ex-post data pooled from cross-national survey projects in the social sciences. Then, Dr Kristi Winters (GESIS) addresses how we should approach documenting data harmonisation work, including a description of CharmStats, an open-source software that enables researchers to simultaneously perform and document the process of variable coding and harmonization.

The screenshot shows a YouTube video player interface. At the top left, there is a play button icon and the text 'Harmonised data for comparative research - Webinar'. In the top right corner, there are icons for 'Watch later' and 'Share', and the CESSDA logo. The main title of the video is 'Harmonised data for comparative research' in a large white font. Below the title, the word 'Webinar' is written in a smaller blue font, followed by the date '15 June 2020, Webinar'. Three speaker portraits are displayed in a row: Dr Jen Buckley (University of Manchester), Professor Irina Tomescu-Dubrow (Institute of Philosophy and Sociology, Polish Academy of Sciences), and Dr Kristi Winters (GESIS - Leibniz-Institute for the Social Sciences). At the bottom left, there are social media links for 'cessda.eu' and '@CESSDA\_Data'. At the bottom right, there is a 'Watch on YouTube' button, the license 'Licence: CC-BY 4.0', and the DOI 'DOI: 10.5281/zenodo.3894146'. The background of the video player features a decorative pattern of blue and white dots.

- The material from the webinar ([slides and video](#)) is available for download
- Additionally, an [Information sheet](#) by Jan Buckle accompanies this CESSDA webinar and details major sources of harmonised data and provides references for those looking to harmonise existing data sources as part of a research project

## Situation

Presentations and slides were published on CESSDA training website, with only small description and linked to event pages.



# Types of events and metadata

## Main topics

- discovering and using data,
- managing research data,
- preserving data and using CESSDA's tools and services.

Webinars and workshops (slides),  
videos, information sheets,  
train-the-trainer materials

Metadata standards:

~~- [Metadata Shema from Research Data Management Training materials](#) from NIDI~~

[-RDA's Education and Training on Handling or research data IG](#) proposed **Minimal metadata for learning resources.**



# Ten rules for making training materials FAIR (Garcia et al 2020)

Before	After ( <b>done</b> / considering possible solutions)
<b>Share</b>	<b>Share</b>
Describe properly	<b>Describe properly</b>
Give unique identifier	<b>Give unique identifier</b> (Zenodo; YT?)
Register online	<b>Register online</b>
Define access rules	<b>Define access rules</b>
Use interoperable format	Use interoperable format
Mate (re)usable for trainers	<b>Mate (re)usable for trainers</b>
<b>Make usable for trainees</b>	<b>Make usable for trainees</b>
Welcome contribution	<b>Welcome contribution</b>
Keep materials up-to-date	<b>Keep materials up-to-date</b>

## Topic

- Data discovery
- Data management
- Data preservation
- Data analysis

## Audience

- Researchers
- Research support at university and research institutes
- Research libraries
- Archives and data repositories
- Trainers

## Type

All types



Search resources

Go

# Training Resources

Sorting Latest published

## Presentation: Using the statistical language R as a Geographic Information System

2021-12-22

This is a presentation from the hands-on workshop on Geographic Information Systems for social scientists with some experience in R that took place on 23 November 2021.

[Data analysis](#) [Presentation](#) [Slides](#)

## Online workshop: Using the statistical language R as a Geographic Information System

2021-12-22

This CESSDA event is a recording of the hands-on workshop on Geographic Information Systems for social scientists with some experience in R that took place on 23 November 2021.

[Data analysis](#) [Webinar](#) [Video](#)

## Presentation: CESSDA Data Archiving Guide Soft Launch

2021-11-16

The Data Archiving Guide (DAG) is a new resource developed by CESSDA and is designed to provide employees at data archives and repositories with an understanding of the work a data archive performs. The information in the DAG was collected by experts from CESSDA social science data archives reflecting the procedures and policies at their local archives.

[Data preservation](#) [Presentation](#) [Slides](#)

## Webinar: CESSDA Roadshow on Migration

2021-11-10

As the leading Consortium of European Social Science Data Archives, CESSDA® offers a wealth of resources for researchers, enabling them to use and re-use datasets and define their data management plan. The focus of the CESSDA® Roadshow on 8 October is to talk participants through the wonderful world of data, giving practical tips

# Webinar: CESSDA Roadshow on Migration

CESSDA ID: crd-2536

Published: 2021-11-10

Publisher: CESSDA

## Author(s)

Čerče Peter, Kondili Dimitra, Saji Ami, Parker Stephanie, Prandner Dimitri, Wali Ahmad, Willems Marieke, Winn Meredith

## Description

As the leading Consortium of European Social Science Data Archives, CESSDA® offers a wealth of resources for researchers, enabling them to use and re-use datasets and define their data management plan. The focus of the CESSDA® Roadshow on 8 October is to talk participants through the wonderful world of data, giving practical tips and sharing first-hand experiences with researcher and service provider viewpoints.

[More details](#)

## Objective

The overall goal is to show how data and human resources combine to help the societies we live in become more inclusive so they can thrive on diversity.

## Direct links

**Youtube URL:** <https://youtube.com/playlist?list=PLSzjTR7L6XhFFY1PW7tXCIqsS7GvQSWAH>

## Topics

[Data discovery](#)

[Data management](#)

## Keywords

[Roadshow](#) , [migration](#) , [webinar](#) , [CESSDA Data](#)

[Catalogue](#) , [Data Management Expert Guide](#) , [DMEG](#) ,  
[data](#)



### Target groups

Researchers

### Skill levels

Beginner

Intermediate

### Format

Video

### Discipline

Social Sciences

### Type

Webinar

### Persistent Identifiers (PIDs)

DOI: [10.5281/zenodo.5667951](https://doi.org/10.5281/zenodo.5667951)

### Accompanying resources

- [Presentation: CESSDA Roadshow on Migration](#)

### Part of series/collection

CESSDA Roadshows



### Licence and contact

**Licence:** Creative Commons Attribution 4.0 International Public License

**Access cost:** no

# Training Events

## Archiving Social Media Data – Challenges and Proposed Solutions

### Summary

The CESSDA webinar “Archiving Social Media Data – Challenges and Proposed Solutions” brings together experts with experience in working with social media data to discuss practical, ethical, and legal challenges in archiving these data as well as ways to address those.

### Description

The speakers are Libby Hemphill (ICPSR), Janez Štebe (Slovenian Social Sciences Data Archives), Sara D. Thomson (University of Edinburgh), Libby Bishop (GESIS), Sebastian Karcher (Qualitative Data Repository), and Oliver Watteler (GESIS). In addition to short presentations from these experts, there will be a roundtable discussion with engagement of the audience.

The slides and recording from CESSDA Webinar on Archiving Social Media Data are now available at <http://doi.org/10.5281/zenodo.3875963>.

The video is also available for viewing on CESSDA Training [YouTube](#) Channel.

### Event details

<b>Start time</b>	Thu 4 Jun 2020 03:00 CEST
<b>End time</b>	Thu 4 Jun 2020 05:00 CEST
<b>Type</b>	Online workshop
<b>Audience</b>	Archives and data repositories
<b>Language</b>	English
<b>Organiser</b>	GESIS - Leibniz-Institute for the Social Sciences;CESSDA
<b>Registration</b>	<a href="#">Registration form</a>

### Related resources

[Archiving Social Media Data: A guide for archivists and researchers](#)



# Technical elements and linkage

The application platform, on which the catalogue is built on, is based on Pimcore and Symfony, with complementary technologies such as ElasticSearch.

Link to SSH Open Market Place via API is established.  
// matching metadata



## Future

Defining new workflows for organizers, publishers and editors.

Link to event.

Sprint for updating metadata information.

What qualify as training material?

Strategy for publishing and versioning TTT materials

Shema: Work jointly on controlled vocabularies

Are this (minimal) metadata enough?



# Panel Discussion – Questions

- What do you expect to happen in this field in the near **future**?
- What are the **challenges in re-using** existing training materials?
- What is the one thing you would **recommend** to enhance re-use?



**Ricarda Braukmann**  
SSHOC / DANS



**Iulianna van der Lek**  
SSHOC / CLARIN



**Elizabeth Newbold**  
STFC



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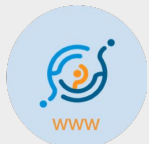
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/in/shopencloud