USE (OPEN RESEARCH) DATA IN TEACHING (UDIT)
AN OPEN ONLINE RESOURCE

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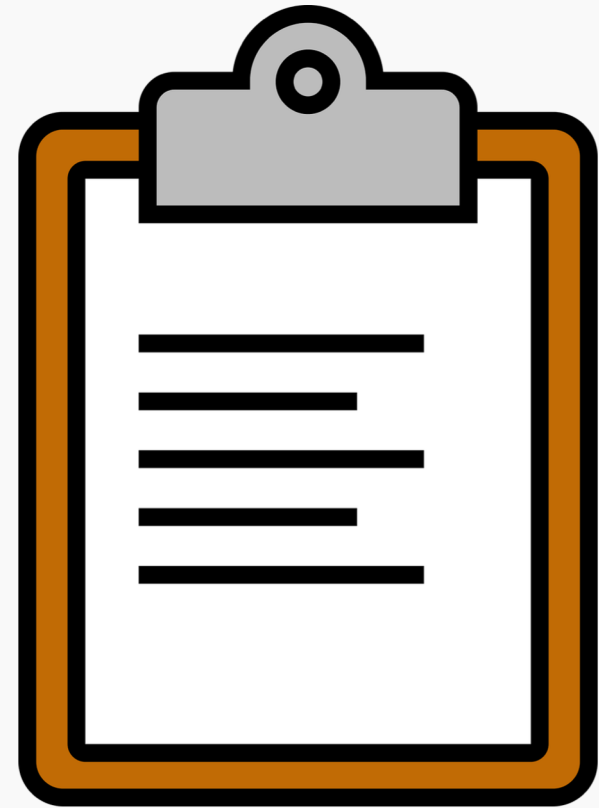Mijke Jetten (RU)
Monique Schoutsen (RU)
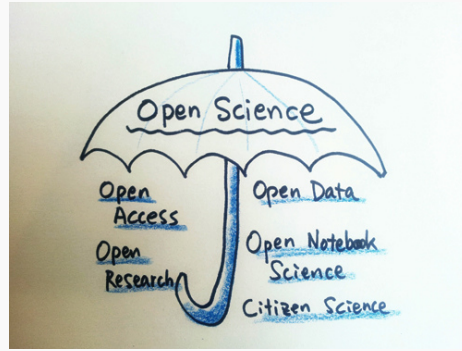
PROGRAM

Background

UDIT module

Next steps

Contribution to the module

Background

open science

Open Science
Open Access
Open Research
Open Data
Open Notebook Science
Citizen Science

OPEN DATA

Open Access
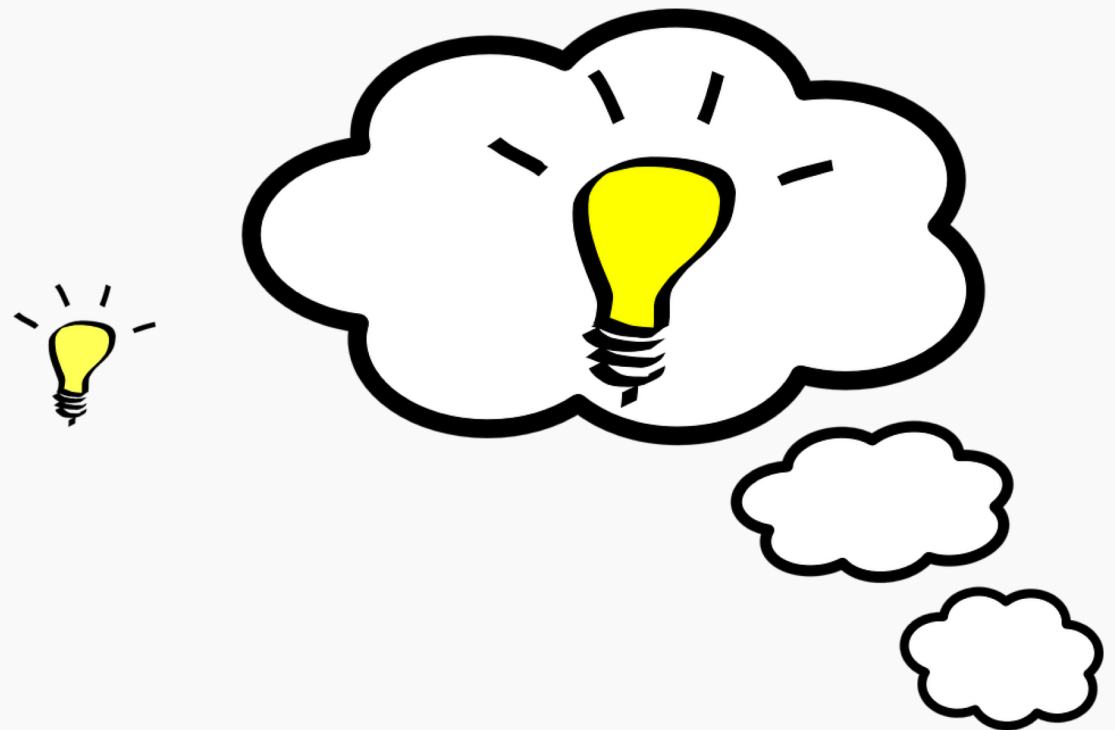
RDM

OPEN EDUCATIONAL RESOURCES

Active Learning

Wouldn't it be great to have a pool of learning activities that teachers could swim in when preparing classes?

UDIT: AN ONLINE OPEN RESOURCE MODULE

Inspiring
resources

learning
activities

good
practices

example
lesson plans

to be used
to enrich any existing research-focused teaching course

UDIT module

UDIT module

UDIT

Use Open Data in Teaching

To support higher education teachers worldwide in using open

4 members | 10 affiliated resources
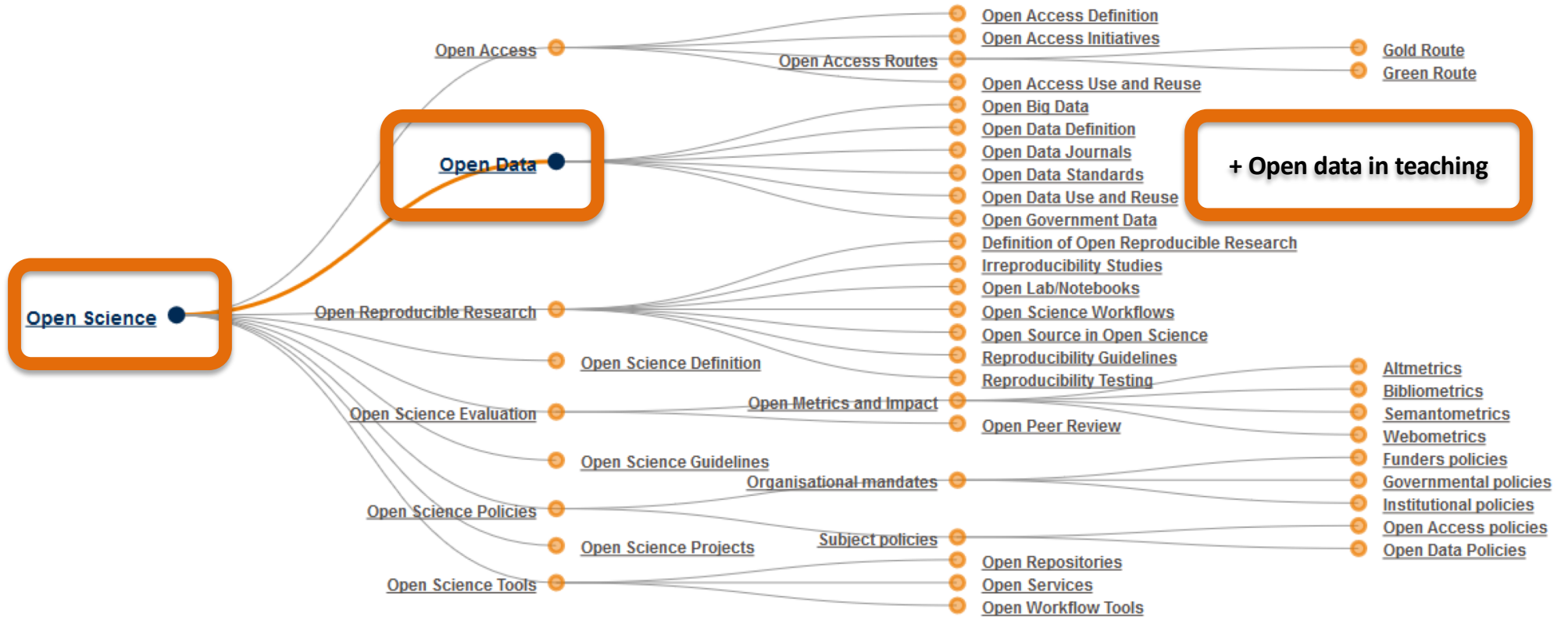
Contribute to this Group

OER Commons

UDIT website

UDIT MODULE

Open Science

- Open Access
  - Open Access Definition
  - Open Access Initiatives
  - Open Access Routes
    - Gold Route
    - Green Route
  - Open Access Use and Reuse
- **Open Data**

  + **Open data in teaching**
  - Open Big Data
  - Open Data Definition
  - Open Data Journals
  - Open Data Standards
  - Open Data Use and Reuse
  - Open Government Data
- Open Reproducible Research
  - Definition of Open Reproducible Research
  - Irreproducibility Studies
  - Open Lab/Notebooks
  - Open Science Workflows
  - Open Source in Open Science
  - Reproducibility Guidelines
  - Reproducibility Testing
- Open Science Definition
- Open Science Evaluation
  - Open Metrics and Impact
    - Altmetrics
    - Bibliometrics
    - Semantometrics
    - Webometrics
  - Open Peer Review
- Open Science Guidelines
- Open Science Policies
  - Organisational mandates
    - Funders policies
    - Governmental policies
    - Institutional policies
  - Subject policies
    - Open Access policies
    - Open Data Policies
- Open Science Projects
- Open Science Tools
  - Open Repositories
  - Open Services
  - Open Workflow Tools

UDIT MODULE

By the end of the module, you will be able to:

- explain the benefits of using open research data in teaching
- find new ideas for teaching activities and learn from existing practices
- encourage active learning using tangible activities
- help students becoming aware of open science and increase their data literacy
- help students to use open data resources in combination with disciplinary theories and models

How open data savvy are you?

What is open data?

- ○ Open data is data that anyone can access, use and share
- ○ Open data is data that is restricted to authorised people
- ○ Open data is data that isn't accessible and can't be used or shared

Open data concepts you need to be familiar with

As a researcher integrating research data in your data, you should become familiar with the fol

- + Overview: what you should know
- + The concepts of open, restricted and closed data
- + Collecting data

Part 3: Teaching principles

This module and the accompanying lesson and learning activity examples are based on the principles of **active learning, constructive alignment,** and the values of **research-based teaching.**
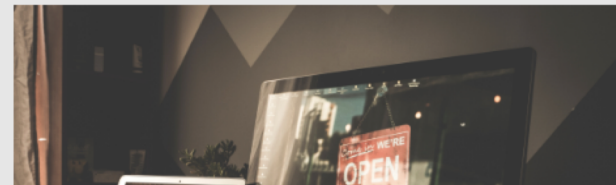
Research-based teaching

The idea that students should learn the competencies and values of scientific research is held in high

Part 4: Learning activity examples

Introduction text on how to use the examples [4a]

Open research data in teaching: a few examples

Use of open resear

Different types of data

Topic tags: Linguistics, r
syntax, language acquis
research data, data stru
documentation, data se

OER COMMONS: UDIT GROUP

Go to:

https://www.oercommons.org/groups/use-open-data-in-teaching/2965

OER WEBSITE

UDIT Module

EXPERT CONTRIBUTIONS   PROJECT   PEOPLE   SUPPORT   CONTACT

UDIT module

🏠 > UDIT MODULE

The UDIT project collaborates with FOSTER, and the goal is to include the Use Open Data in Teaching module in the FOSTER's course series Putting Open Science into Practice. This way, scholars wishing to learn about how to integrate open science in their research process, will also get a kick start on how to go about using openly available research data in their regular teaching.

🔍 To search type and press enter

Go to:

https://site.uit.no/opendatainteaching/

OER WEBSITE

Expert contributions

UDIT · HOME · UDIT MODU... · PEOPLE · SUPPORT · CONTACT

UDIT module

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UDIT module

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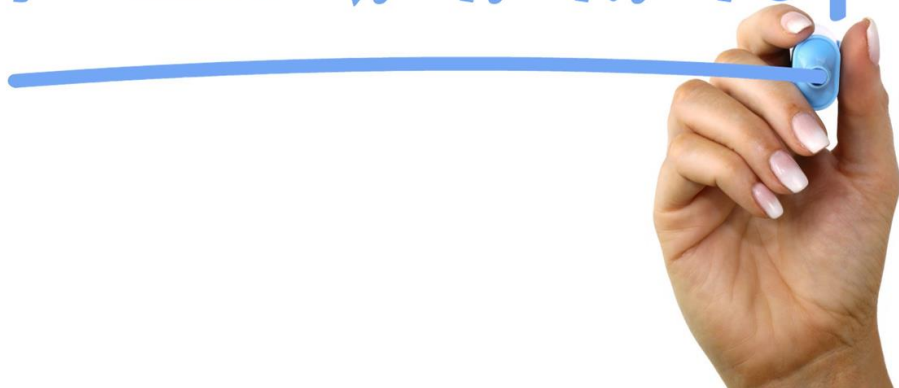🔍 To search type and press enter

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Next steps

➢ Completion of the 1st version of UDIT

➢ Promotion strategy: make sure teachers know about it

➢ Stimulation of the contributions to OER Commons

November 2018

- Skype expert meetings

January 2019

- Launch module

We would love you to contribute to the module and the project!

Who?
All experts (by self-definition), in a teaching role, in the field of open data, active learning, and data and information literacy

(data) scientist   librarian   manager   (research) teacher

researcher   data) steward   assistant   etc.

How?
- As a creator of open data resources to be included in the module and the OER commons group
- As creative mind to think along or provide feedback on the module

What do you think of the module?

- Could it be useful for your teachers?
- Could it be useful for you?

Do you have any tips to make UDIT successful?

Contact and more information

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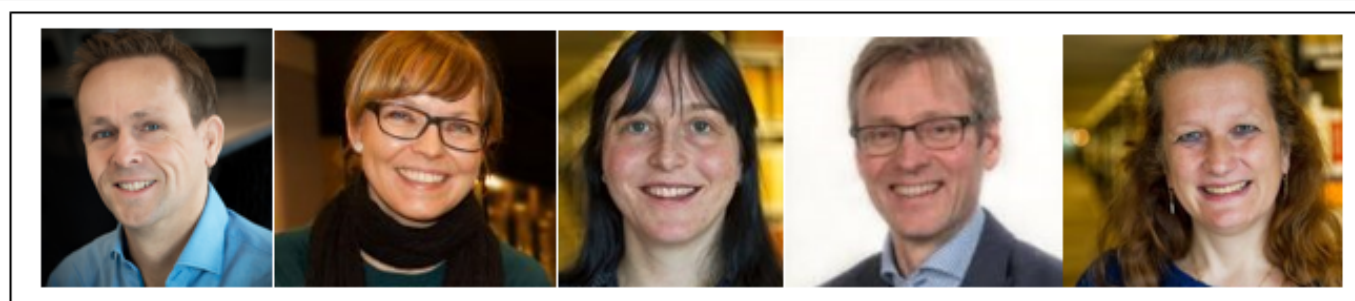
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Website UDIT: https://site.uit.no/opendatainteaching/

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Supplement: some definitions

SOME DEFINITIONS

Open science

Open Science is the practice of science in such a way that others can collaborate and contribute, where research data, lab notes and other research processes are freely available, under terms that enable reuse, redistribution and reproduction of the research and its underlying data and methods. [Source: https://www.fosteropenscience.eu]

Open data

Data that can be freely used, re-used and redistributed by anyone – subject only, at most, to the requirement to attribute and sharealike [Source: Open data Handbook]

SOME DEFINITIONS

Research Data Management

RDM

The care and maintenance of the data that is produced during the course of a research cycle. It is an integral part of the research process and helps to ensure that your data is properly organized, described, preserved, and shared. [Source: DePaulUniversity]

(Research) Data literacy

RDL

The ability to understand and use data effectively to inform decisions [Source: Mandinach @ Gummer]

The ability to read, understand, create and communicate data as information [...] data literacy focuses on the competencies involved in working with data [Source: Wikipedia]