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Open Data as Open Educational Resources

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Opening up Education

In education and elsewhere information has become increasingly digital and therefore potentially, more accessible.

We have seen the rise of *parallel* open or 'opening' movements around:

- **learning and teaching**: open educational resources and open delivery models (from OCW to OER, Open Textbooks, and lately, MOOCs)
- **research**: open access (OA) to research publications (shaking up traditional publishing models and also driving emergence of open peer review models)
- **data**: open access to government and research data (OD)

... parallel but somewhat separate?

But drives for transparency, democratisation, collaboration and the public good [interconnect these movements](#)

Meanwhile, educators are increasingly thinking about research-based and collaborative learning, 'authentic' assessment, data literacy...

The Value of Open Data

- Open data is an invaluable resource for scientific communities
- Supports and encourages more transparent research practices
- Supports scientific development and reproducibility
- Can be used to model good practices in academia for research and teaching

Where to find OD

- International agencies and organisations
 - [World Bank](#) ; [United Nations](#) ; [EU](#)
- National Governments and their agencies
 - [UKOD](#); [GermanyOD](#); [USA](#)
- Local governments
 - [Sardinia](#) ; [London](#); [Barcelona](#)
- Non-governmental organisations
 - [ODI](#); [Nesta](#); [Monithon](#)
- Academic institutions and research centres
 - [CERN](#); [ESA](#); [NASA](#)

How can OD be used in HE?

- Collaborating with researchers in real research projects
- Collaborating with students from other disciplines
- Creating scenario-based learning activities
- Collaborating with their local communities working on real problems

Open Data for Skills Development

- Development of critical skills
- Development of analytical skills
- Development of research skills
- Development of data literacy skills
- Development of teamwork skills
- Development of citizenship skills

Questions

- Are academics embedding open data in their curriculum and if so, how?
- How are students collaborating, learning and developing quantitative and qualitative research skills by using open data in the classroom?
- How are students in Higher Education benefiting from open data?

To learn more about OD and Open Education

- Open Definition <http://opendefinition.org>
- Open Data Handbook <http://opendatahandbook.org>
- Open Education Handbook
<http://education.okfn.org/handbook/>
- Figshare <http://figshare.com>
- Open Data Europe <https://open-data.europa.eu/en/data/>
- UK Open Data Portal <http://data.gov.uk>
- UK HE Data Portal <http://www.data.ac.uk/>
- Directory of Data Repositories
http://oad.simmons.edu/oadwiki/Data_repositories

