The background features a repeating pattern of light blue line-art icons. These icons include a globe with a network of nodes and connecting lines, and a smartphone displaying a similar network diagram. The icons are scattered across the entire page, creating a textured, digital atmosphere.

INNOVATING WITH OPEN KNOWLEDGE

Lorna M. Campbell, LTW

The case for Open Access & Open Knowledge

Free & open access to publicly-funded research outputs:

- Disseminates research outputs quickly & widely.
- Enables research process to operate more efficiently.
- Increases use & understanding of research by business, government, charities and the wider public.
- Fosters technology transfer & innovation.
- Provides social & economic benefits.
- Inline with Government commitment to transparency and open data.
- Contributes to the global Open Knowledge movement.

Access to Open Knowledge

Universities make research available through:

- Open Access journals
- Open Access repositories
- Pre-print repositories
- Data libraries
- Research explorer services
- Research & innovation services
- Commercial search tools



But.....

It's not easy for those outwith academia to know how to access open research outputs, even though they're freely & openly available to all.

To improve technology transfer we need to do more to disseminate Open Access research to:

- General public
- Creative individuals
- Entrepreneurs
- SMEs

Innovating with Open Knowledge Project

2016 IS Innovation Fund Project. Generously funded by Gavin McLachlan & Hugh Edmiston, steered by Melissa Highton.

- **Aim:** Create a FutureLearn MOOC.
- **Target audience:** SMEs & entrepreneurs.
- **Scope:** Provide learners with the information literacy skills to find and access free and open content produced by HE.
- **Featuring:** Case studies of SMEs and entrepreneurs who have capitalised on UoE's open research outputs.

Constraints and stumbling blocks

- Time scales were very tight.
- Had to create entire course from scratch.
- Took time to define scope and learning design of course.
- Sought to create a course *without* using MOOC team & media producers.
- Used DIY film kit instead.
- Struggled to find examples of SMEs and entrepreneurs using open research outputs.
- Scheduling interviews in tight timescales was challenging.
- Project didn't align with existing services.

Solution

- Broaden scope of case studies to include creative individuals, authors, private researchers, & independent scholars.
- Create cases studies as a series of CC licensed OER videos.
- Make resources available through Media Hopper Create.
- Build a Wordpress site to contextualise case studies & draw materials together.

Open Educational Resources (OER)

“Open educational resources (OER) are digital resources that are used in the context of teaching and learning, which have been released by the copyright holder under an open licence permitting their use or re-purposing by others.”

(University of Edinburgh Open Educational Resources Policy

<https://www.ed.ac.uk/files/atoms/files/openeducationalresourcespolicy.pdf>)

Open.Ed OER Service

- <http://open.ed.ac.uk/>



Innovating with Open Knowledge

- 12 case studies
- 48 short CC BY SA licensed videos
- Supplementary text resources and learning activities
- Media Hopper Create channel
 - <https://media.ed.ac.uk/channel/Innovating+with+Open+Knowledge/>
- Innovating with Open Knowledge website (WIP)
 - <https://openinnovation.is.ed.ac.uk/>



Case Studies

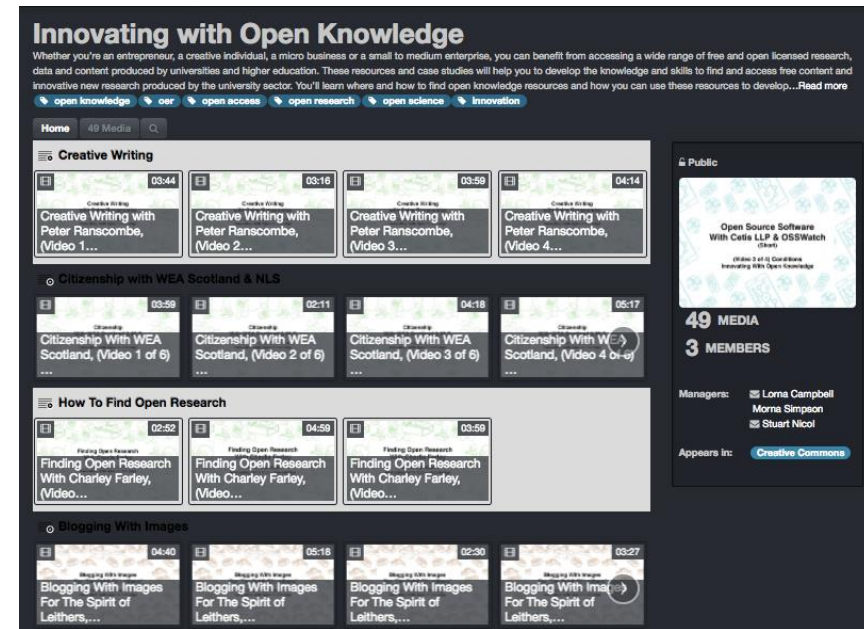
Demonstrate how entrepreneurs & creative individuals can find, use and engage with:

- Scholarly works & publications
- Open science
- Images & media
- Physical resources & maker spaces
- Data & software

Case Studies

Show how open resources & research outputs can support:

- Creative writing
- Community engagement
- Climate change research
- Citizen science
- Bioinformatics
- Drug discovery
- Visual research
- Open architecture



Case Studies

Also feature expert guidance on finding and accessing open resources from:

- Centre for Research Collections
- OER Service
- National Library of Scotland

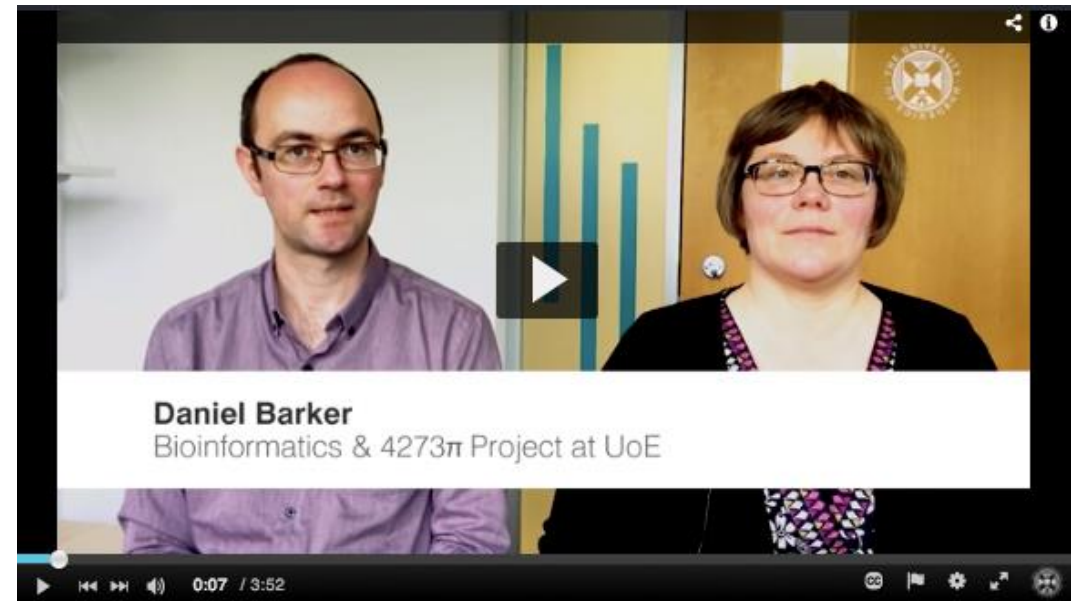


Case Studies

- Creative Writing: Writing historical fiction with Peter Ramscombe
- Citizenship: The Conscientious Objectors Project with Nick Williams at WEA Scotland
- Climate Change: Solving Climate Change with Ecometrica
- Citizen Science: Dog Life with Dylan Clements
- Bioinformatics: Bioinformatics in the Classroom with Heleen Plaisir & Daniel Barker
- Drug Discovery: Parkure with Lysimachos Zografos
- Crafts: Bookbinding with Emma Frazer
- Heritage: The Leith Improvement Scheme with Fraser Parkinson
- Maker Spaces: Ucreate with Mike Boyd
- Grand designs: The Wikihouse with Akiko Kobayashi and Duncan Bain
- Open Source Software: with Scott Wilson, Cetus LLP & OSS Watch

Case Studies

- Context
- Finding what you need
- How to use open resources
- Benefits of open resources
- Learning activities
- Search challenges



Open Educational Resources (OER)

Please take these resources and:

- Reuse
- Revise
- Remix
- Redistribute
- Retain



(The Access Compromise and the 5th R by David Wiley <https://opencontent.org/blog/archives/3221>)

Innovating with Open Knowledge

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- Project manager: Lorna M. Campbell, LTW, University of Edinburgh.
- All resources CC BY SA University of Edinburgh, unless otherwise indicated.

