Programme

• Open Access & Open Science in Institutions

From Open Access Dream to Administrative Nightmare
The ever-increasing burden of open access policy on libraries and researchers
Dr Elizabeth Gadd
• Research Policy Manager, Loughborough University

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• Head of Scholarly Communications, University of Warwick
This talk will present the findings of a twelve-year study of publisher Open Access policy changes (2001-2013). It will outline the considerable growth in policy demands relating to what, where, when and how academics might self-archive their papers against a backdrop of parallel growth in paid (gold) OA. The impact that this has had on researchers and the libraries that support them will be explored through examples from the University of Warwick. Practical considerations of implementing OA policies will be highlighted with reference to data from three surveys over six years (2011-2017) on the changing attitudes of researchers to Open Access.

The Empires of the Future are the Empires of the Mind
Defining the role of libraries in the Open Science landscape
Dr Paul Ayris
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This paper will look at the impact of Open Science on universities and research organisations. The paper will analyse the leadership role which libraries have played in supporting researchers in Open Access approaches. Building on this, the paper looks at other component parts of Open Science and suggests how libraries can continue to develop their leadership to support and work with the research community to deliver the benefits which Open approaches bring.
The Empires of the Future are the Empires of the Mind: Defining the role of libraries in the Open Science landscape

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Content

- The scope of Open Science
- Open Access
- Research Data Management
- European Open Science Cloud
- Citizen Science
- Conclusions

Plaster Relief by John Flaxman, Flaxman Gallery, UCL
The Three Major Shifts of Open Science

- How scientists collaborate to create knowledge
  » RDM, EOSC, ERA ERIC

- How scientists find meaning in knowledge
  » Ex. The International HapMap Project

- A change in the relationship Science – Society
  » OA, Citizen Science, Open Days, Pop Science
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What is Open Science?

Open Science is the movement to make scientific research, data and dissemination accessible at all levels of an enquiring society.
Open Science

a paradigm shift in the modus operandi of research and science impacting the entire scientific process

Research Cycle

- Conceptualization
- Data Gathering
- Analysis
- Review
- Publication

Characteristics

- Citizen Science
- Open code
- Pre-print
- Open Access
- Alternative Reputation Systems
- Collaborative Bibliographies
- Science Blogs
- Open Annotation
- Open Data
- Open Lab Books/Workflows
- Data Intensive
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# Gold APC payments (to December 2017)

<table>
<thead>
<tr>
<th></th>
<th>APCs since 2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCUK</td>
<td>4530</td>
</tr>
<tr>
<td>COAF</td>
<td>2495</td>
</tr>
<tr>
<td>UCL</td>
<td>3309</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>10334</strong></td>
</tr>
</tbody>
</table>

![Graph showing APC payments from April 2013 to December 2017]
The UK’s first fully Open Access University Press

56 monographs published (Dec. 17)
8 journals published (Dec. 17)
705,055 downloads (book+journals) (Dec. 17)

http://www.ucl.ac.uk/ucl-press
Textbooks

- Written by Deepak Kalaskar, Peter E M Butler, and Shadi Ghali from The Royal Free Hospital, London. The textbook offers a comprehensive overview of reconstructive plastic surgery for introductory plastic surgery and surgical science courses. June 2016
UCL Publishing model

- OA business model
- Sales via Print on Demand
- Enhanced digital interface
- Books peer reviewed before publication

Textbook activity
- Journal programme
- Publishing services offered to other universities

Organizational chart:
- Publishing Manager
  - Marketing and Distribution Manager
  - Managing Editor
  - Commissioning Editor
  - Journals Editor
  - Administrative Assistant
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5 partners
- UCL (University College London) – lead partner
- University of Barcelona
- University of Vienna
- LIBER
- ECLAC – UN Commission for Latin America and the Caribbean

Started in June 2015; ran for 24 months
€497,000 budget
100% funded
LEARN Deliverables

- Model Research Data Management Policy
- Toolkit to support implementation
- Self-assessment survey
- KPIs to measure levels of success at institutional level
- Executive Briefing (in six languages)
- 20 Recommendations on Best Practice in RDM

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European Open Science Cloud

- EU High Level Expert Group Report
- Launched on 11 October 2016
- Issues considered:
  - Infrastructures
  - Skills development
  - Reward and Recognition
  - Roles and responsibilities
  - Governance & Standards
  - Funding opportunities
- Available [here](#)
European Open Science Cloud

- Headline points:
  - Build on existing infrastructure and expertise
  - Devise Rules of Engagement
  - EU contribution to FAIR data and Open Science
  - Build links to regional Cloud(s) around the globe
  - Develop expertise
    - Half a million ‘core data scientists’ in Europe
    - 5% of total research spend should be on data stewardship
EOSC Declaration

EOSC is a process not a project

- Data Culture & FAIR Data
  - Open by default
  - Skills development
  - FAIR principles
  - Data Management Plans
  - Engagement with researchers

- Services & Architecture
  - EOSC is an infrastructure commons
  - EOSC to use existing high spec. services
  - HPC to be developed in tandem

- Governance & Funding
  - Strong Governance model, but flexible
  - 3 levels of membership – institutional, operational, advisory
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Citizen Science: What is it?

Science conveys our hopes, dreams and ambitions.

Let everybody be in!
Count every supporter!
Praise every participant!

That includes researchers, you and me!

[...] citizens actively contribute to science, either with their intellectual effort or surrounding knowledge or with their tools and resources
Citizen Science: List of ingredients

11 INGREDIENTS.
Citizen Science: Where to use?

- PHYSICS
- MATHEMATICS
- NEUROSCIENCE
- GOVERNANCE
- DIGITAL HUMANITIES

... all fields
Many hands make light work.
Many hands together make merry work.
- Jeremy Bentham (philosopher and reformer)
Citizen Science: Roles for Libraries

10 areas of opportunities

Skills development ~
Support ~ Collections ~
FAIR Data ~ Infrastructure ~
Evaluations ~
Communication ~
Recruitment ~ Marketing ~
Advocacy
Citizen Science: What Others Say

Promote the creation of appropriate tools as well as standards for interoperability, metadata, citations, anonymization and accessibility.
Citizen Science: What Others Say

recognizes citizen science as an evolving set of research methods, as well as its societal and educational benefits

recommends creating a single institutional point of contact for citizen science
Citizen Science: What Others Say

LIBER wants to increase the role of libraries in supporting citizen science.
Citizen Science: Roles for Libraries Survey

You are kindly invited!

knowledge.services/citizenscience
Challenges for engagement in Open Science

- **4-step test to engage in Open Science**
  1. Offer leadership across the organisation in Open Science approaches
  2. Identify infrastructure needed to deliver change
  3. Engage in skills development for staff
  4. Ensure that your advocacy leads to innovation
Focus on Open Science
Workshop Series in Europe

SKS in partnership with UCL and LIBER

Barcelona, Belgrade, Budapest, Dublin, Ljubljana, Rome, Vienna

Promote the concept of, values and best practices in the Open Science to European communities.

We are happy to consider other countries in which to organise such Workshops!
Review Article
Paul Ayris*, Tiberius Ignat

Defining the role of libraries in the Open Science landscape: a reflection on current European practice

https://doi.org/10.1515/opis-2018-0001
Received October 27, 2017; accepted December 23, 2017

Abstract: This collaborative paper looks at how libraries can engage with and offer leadership in the Open Science movement. It is based on case studies and the results of an EU-funded research project on Research Data Management taken from European research-led universities and their libraries. It begins by analysing three recent trends in Science, and then links component parts of the research process to aspects of Open Science. The paper then looks in detail at four areas and identifies roles for libraries: Open Access and Open Access publishing, Research Data Management, E-Infrastructures (especially the European Open Science Cloud), and Citizen Science. The paper ends in suggesting a model for how libraries, by using a 4-step test, can assess their involvement with Open Science.
Happy to answer your questions!

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