

Science 2.0: the view from LERU (League of European Research Universities)

Dr Paul Ayris

Director of UCL Library Services and UCL Copyright Officer
Chief Executive, UCL Press

Adviser to LIBER (Association of European Research Libraries) on EU
matters and Horizon 2020

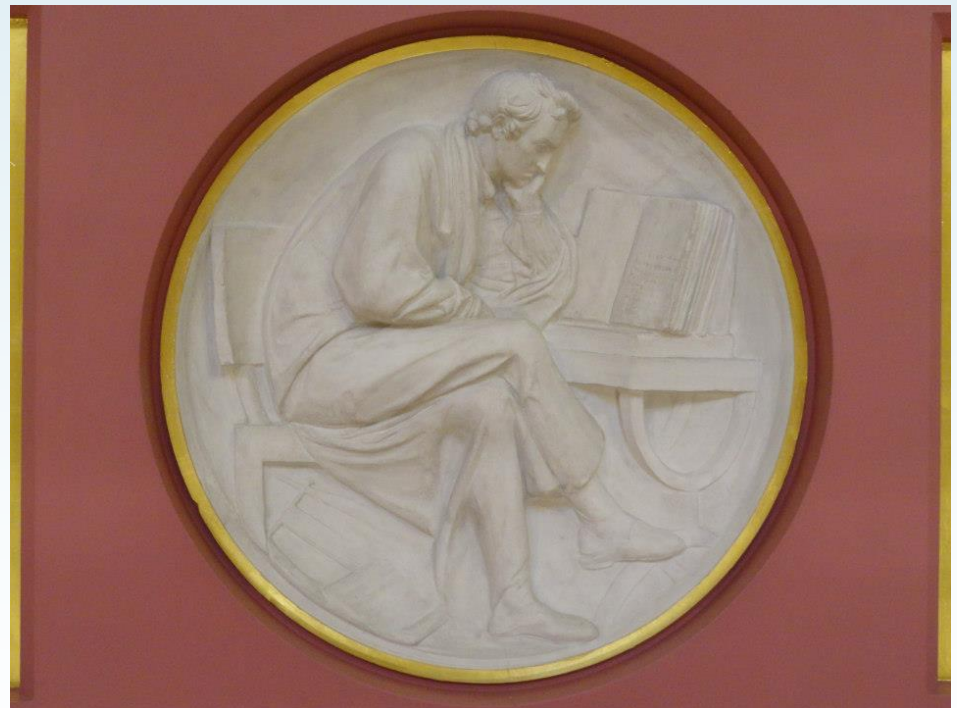
Chair of the LERU community of Chief Information Officers

e-mail: p.ayris@ucl.ac.uk



Contents

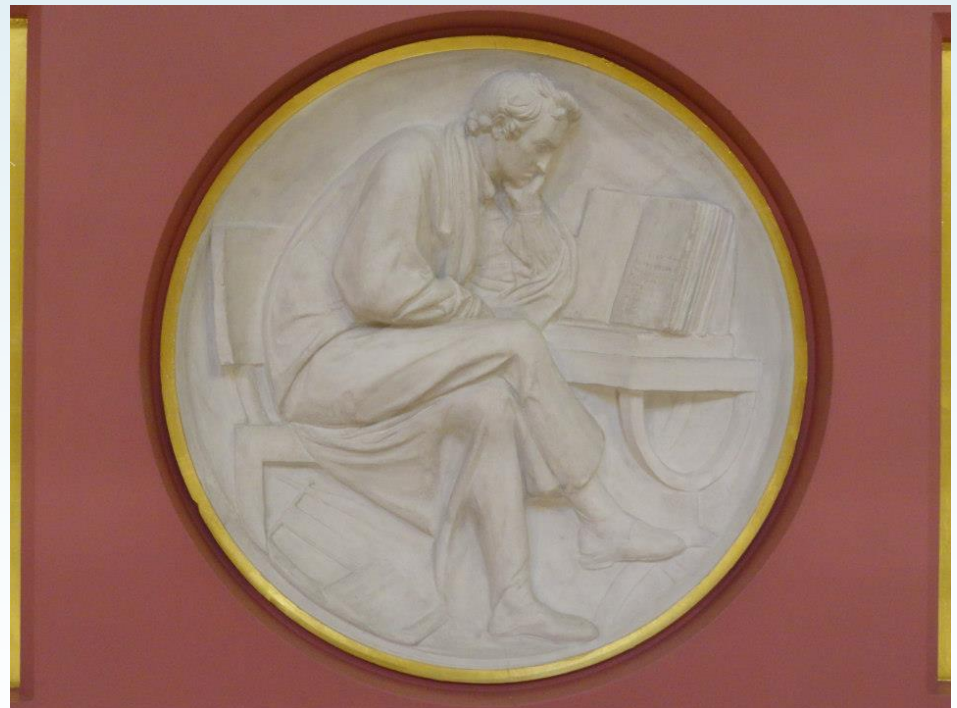
1. What is Open Scholarship?
2. Open Access to publications
3. Open data
4. Other Tools and Services
5. Conclusions



Plaster Relief by John Flaxman, Flaxman Gallery, UCL

Contents

1. What is Open Scholarship?
2. Open Access to publications
3. Open data
4. Other Tools and Services
5. Conclusions



Plaster Relief by John Flaxman, Flaxman Gallery, UCL

What is Open Scholarship?

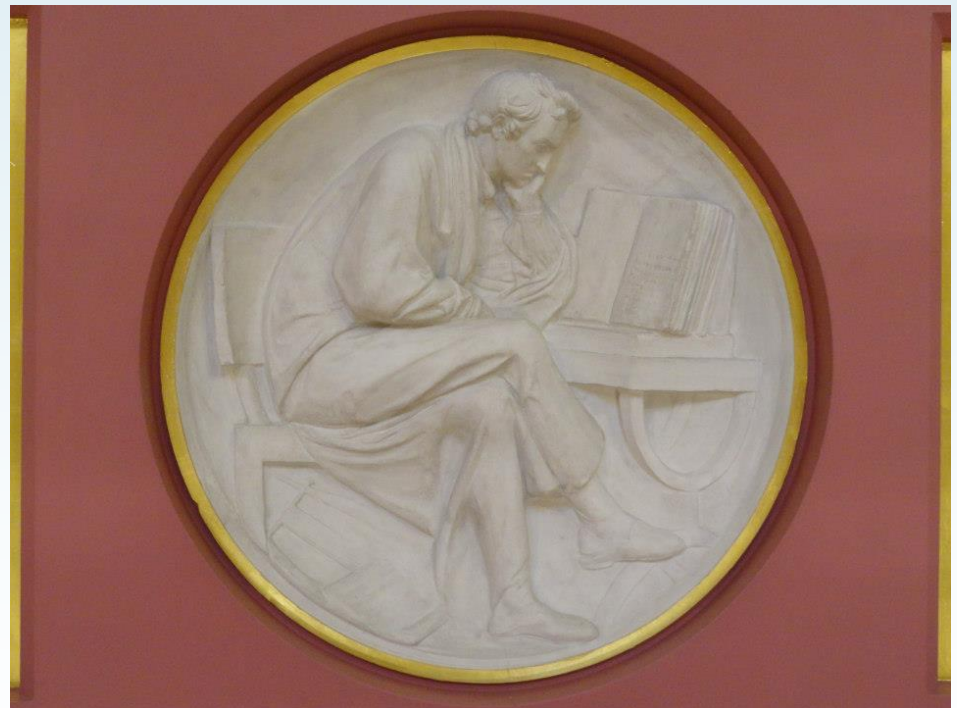
EnablingOpenScholarship



- Open Scholarship/Science 2.0 is a new framework for doing research
- 'Science 2.0' in English excludes Arts, Humanities & Social Sciences
- Needs a name change?
- Open Scholarship, rather than Science 2.0?

Contents

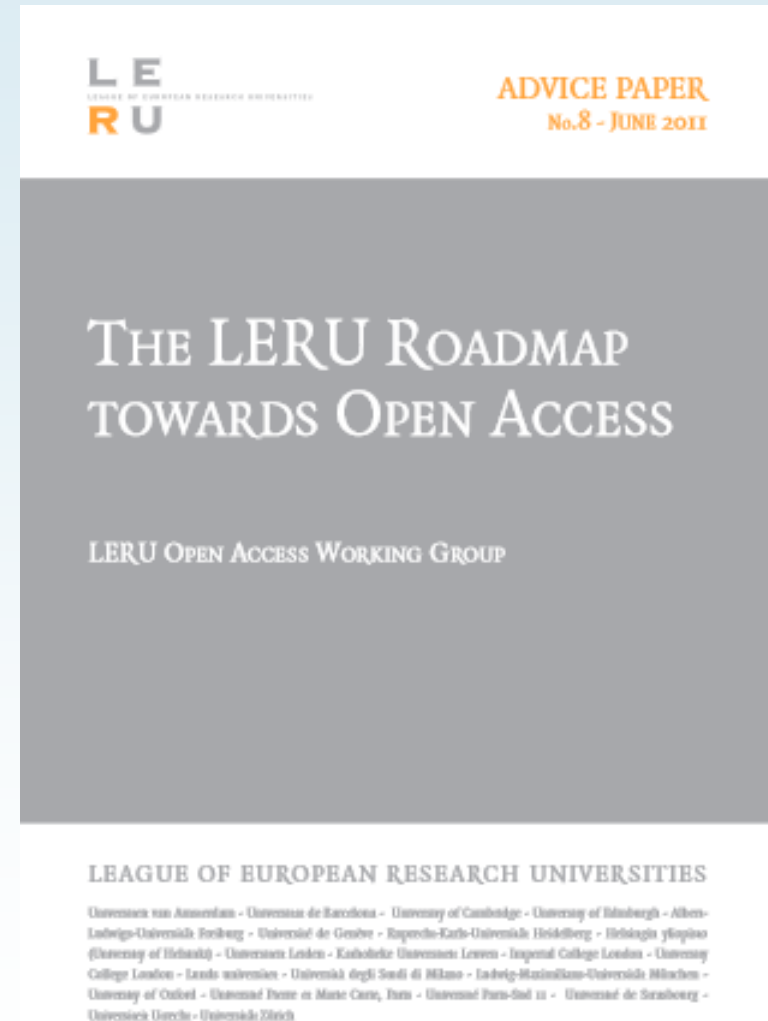
1. What is Open Scholarship?
2. Open Access to publications
3. Open data
4. Other Tools and Services
5. Conclusions



Plaster Relief by John Flaxman, Flaxman Gallery, UCL

Open Access to publications

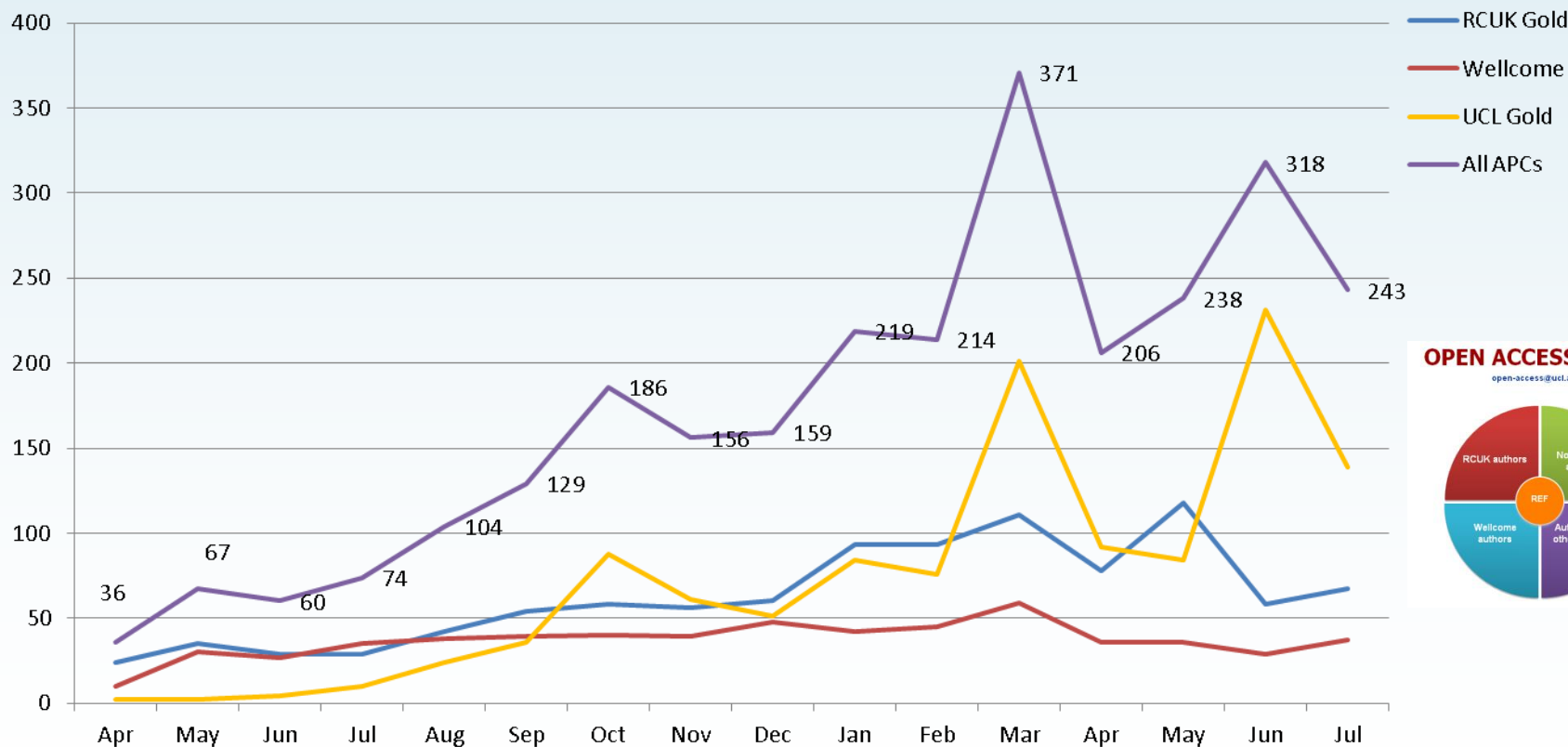
- ❑ Benefits for researchers
 - ❑ Authors gain increased visibility
 - ❑ Literature now used as data
 - ❑ This visibility and usage are new –in a subscription world, subscriptions are a barrier to access
 - ❑ Many lower-income countries report access to the literature as a barrier – despite efforts by commercial publishers
 - ❑ University's Mission is to create Knowledge and share it



All APCs

3,137 APCs processed since April 2013

RCUK: 1,362 Wellcome: 590 UCL Gold: 1,185



OPEN ACCESS at UCL
open-access@ucl.ac.uk

A pie chart illustrating the distribution of APCs by author type. The chart is divided into four quadrants: RCUK authors (top-left, red), Wellcome authors (bottom-left, blue), Non-funded authors (top-right, green), and Authors with other funding (bottom-right, purple). A central orange circle is labeled 'REF'.

The Future – Green or Gold?

Finally, we calculated the overall costs and savings to a UK university (actually, the average of the four universities in the sample for this study) of Gold and Green Open Access adopted either worldwide or unilaterally by that university. The results are presented in Chart 23.

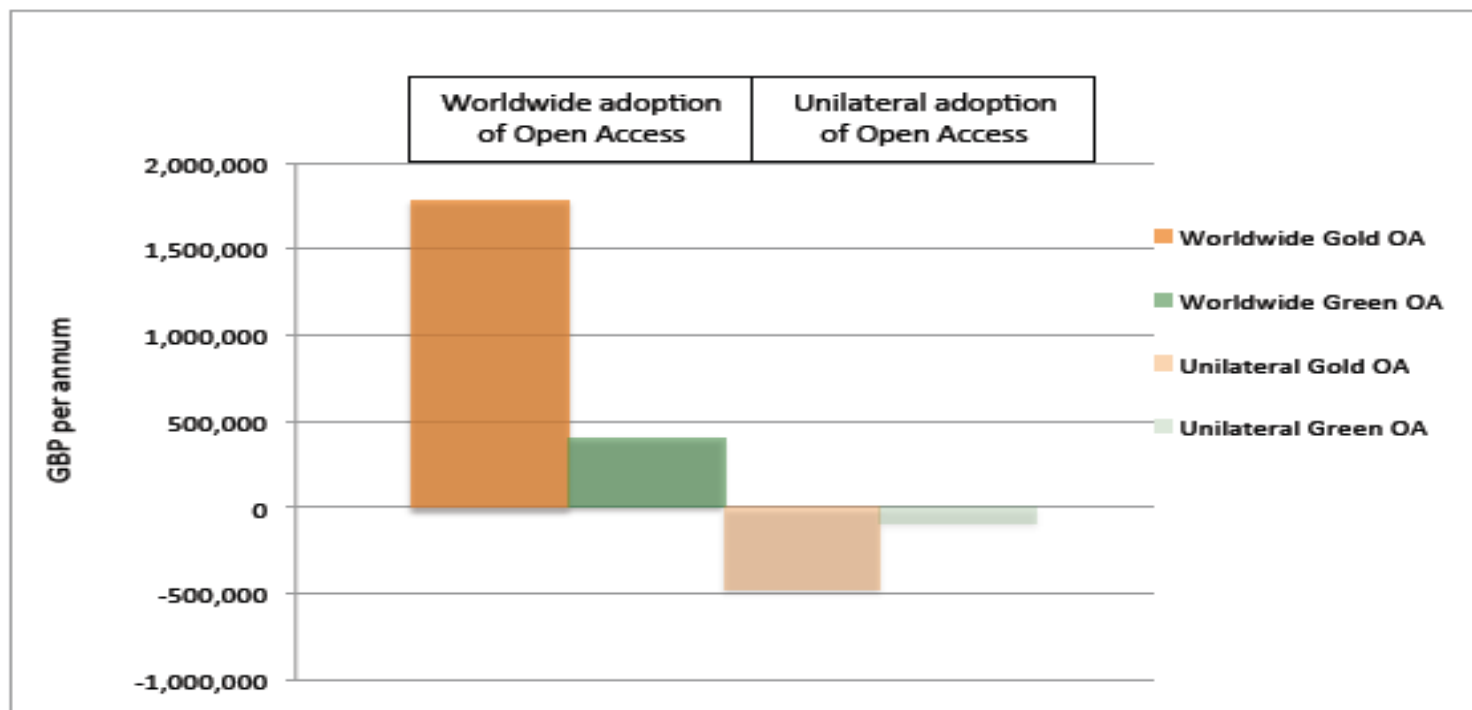
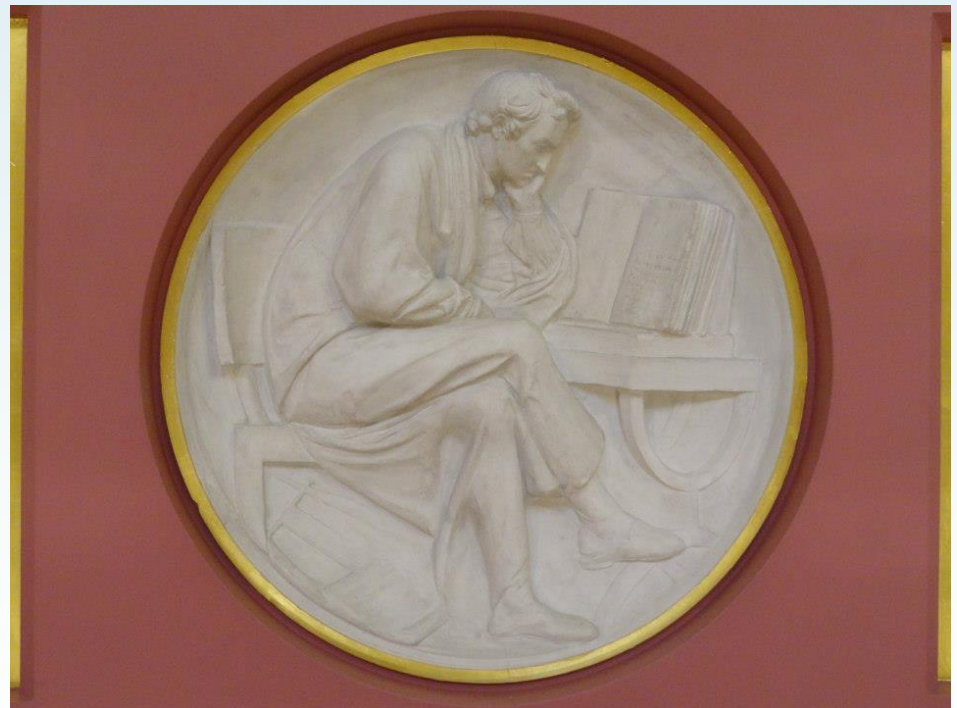


Chart 23: Cost savings to universities of OA alternatives with worldwide and unilateral adoption (calculated using an average of the sample of the four UK universities in this study)

Houghton, J., and Swan, A., *Going for Gold? The costs and benefits of Gold Open Access for UK research institutions: further economic modelling. Report to the UK Open Access Implementation Group* (2012). See <http://repository.jisc.ac.uk/610/>.

Contents

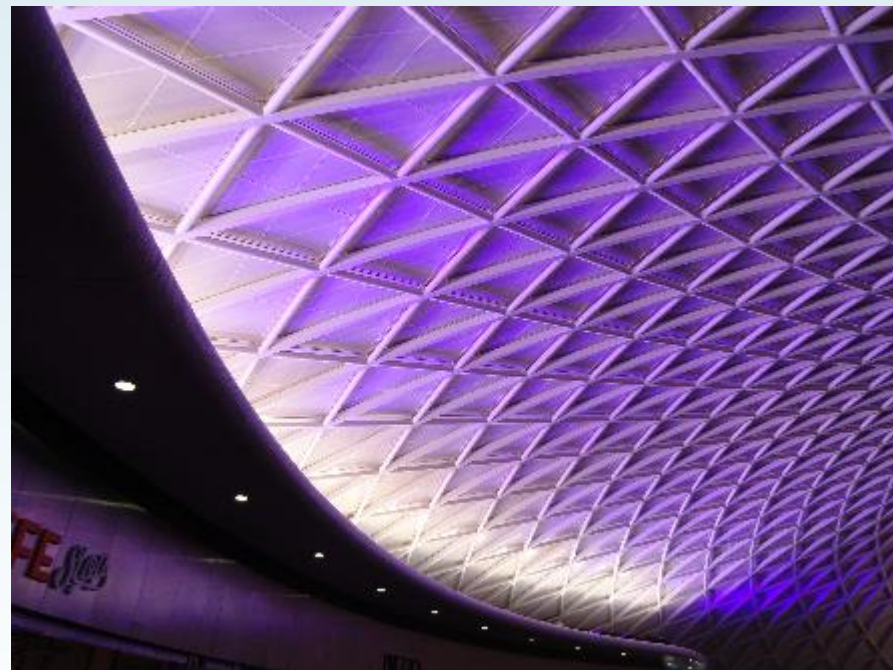
1. What is Open Scholarship?
2. Open Access to publications
3. Open data
4. Other Tools and Services
5. Conclusions



Plaster Relief by John Flaxman, Flaxman Gallery, UCL

Key Messages

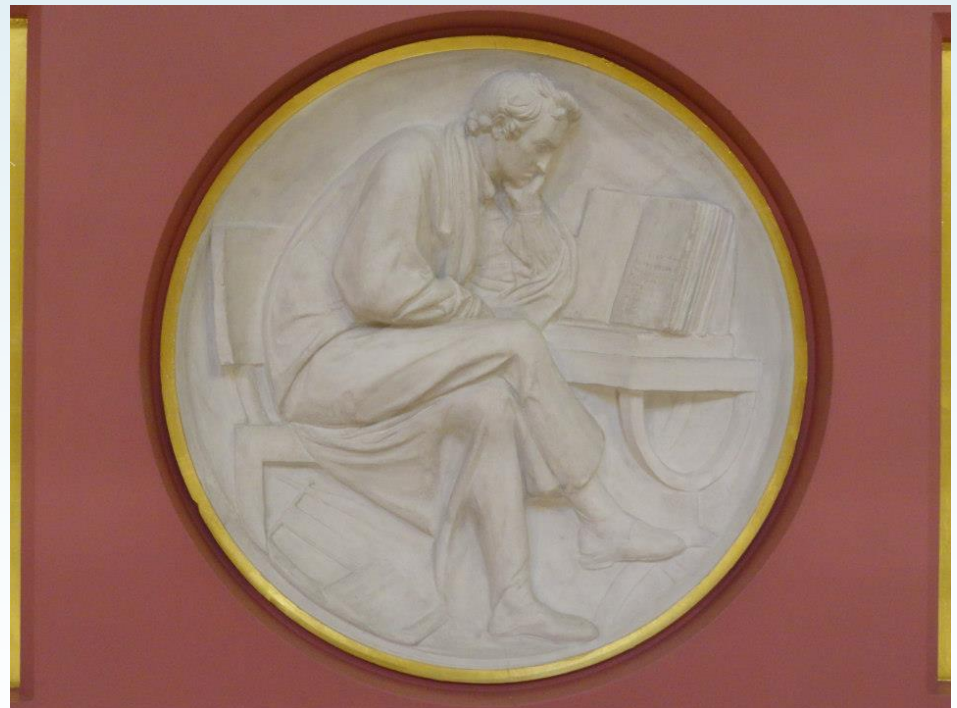
- ❑ Each LERU university needs a Research Data Management Strategy
- ❑ Researchers should have Research Data Management Plans
- ❑ LERU universities need to bring stakeholders together
- ❑ Benefits of 'open data' for sharing and re-use should be advocated and explored



King's Cross, London

Contents

1. What is Open Scholarship?
2. Open Access to publications
3. Open data
4. Other Tools and Services
5. Conclusions



Plaster Relief by John Flaxman, Flaxman Gallery, UCL

Other Tools and Services

- Described in separate paper submitted with Science 2.0 Consultation
- Issues still to be tied down
- Alternative modes of peer review
 - Which?
 - Post publication peer review, with named reviewers?
 - Not popular with academics



St Michael, by John Flaxman, UCL

Other Tools and Services

Metrics

- DORA – San Francisco Declaration on Research Evaluation
 - UCL has agreed to sign
- Altmetrics
 - Not widely understood by academic researchers

Citizen Science

- Examples in LERU universities exist
 - Will it work in all subject areas?



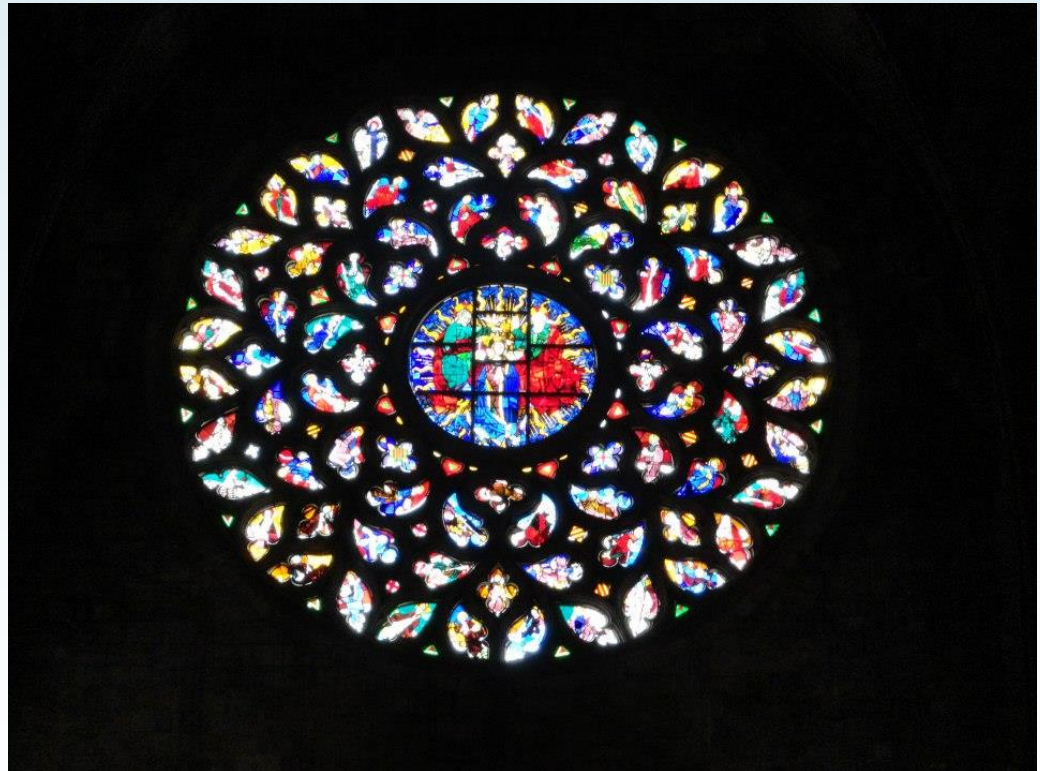
Metrics and Altmetrics



- ❑ San Francisco Declaration on Research Assessment (DORA)
 - ❑ see <http://am.ascb.org/dora/>
 - ❑ Not many universities have signed
 - ❑ DORA rejects Journal impact factor as a mark of quality
- ❑ U-Multirank not welcomed throughout Europe, certainly not in the UK
- ❑ Altmetrics seen as a generalization of [article level metrics](#),
 - ❑ alternative to the widely used journal [impact factor](#) and personal citation indices like the [h-index](#)
 - ❑ Too early for alternative approaches to win widespread support

Citizen Science

- ❑ There are many examples of crowdsourcing
- ❑ City of Barcelona has created Citizen Science Office
 - ❑ <http://www.barcelonab.cat/ca/projectes/oficina-ciencia-ciutadana/>
- ❑ Collaboration of the universities and their researchers



Santa Maria Del Mar, Barcelona

Writings of Jeremy Bentham

- ❑ Jeremy Bentham, nineteenth century utilitarian philosopher
- ❑ Main collection at UCL
- ❑ Bentham MSS being digitised
 - ❑ See <http://blogs.ucl.ac.uk/transcribe-bentham/>
- ❑ 11,140 MSS transcribed by volunteer help from across the world (17/10/14)



The Bentham Project is supported by:

The Andrew W. Mellon Foundation



Next Steps

- ❑ Open Scholarship is a new feature of the research landscape
- ❑ LERU embraces
 - ❑ New means of dissemination
 - ❑ Increased importance for research data
- ❑ Implications of other tools and services need more thought
- ❑ Change is a process, not an event



Old State House, Boston, USA