

Open Science (Science 2.0) and Research Data Management

Dr Paul Ayriss

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

Chair of the LERU community of Chief Information Officers
Adviser to the LIBER Board on Horizon 2020 and EU issues

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



Contents

- ❑ LERU's response to the Science 2.0 consultation
- ❑ OA in the UK: a view from 2015
- ❑ The Institution as Publisher
- ❑ Other Tools and Services
 - ❑ Research Evaluation and Bibliometrics
 - ❑ Citizen Science
- ❑ Research Data Management
- ❑ Conclusions



Plaster Relief by John Flaxman,
Flaxman Gallery, UCL

Contents

- LERU's response to the Science 2.0 consultation
- OA in the UK: a view from 2015
- The Institution as Publisher
- Other Tools and Services
 - Research Evaluation and Bibliometrics
 - Citizen Science
- Research Data Management
- Conclusions



Plaster Relief by John Flaxman,
Flaxman Gallery, UCL

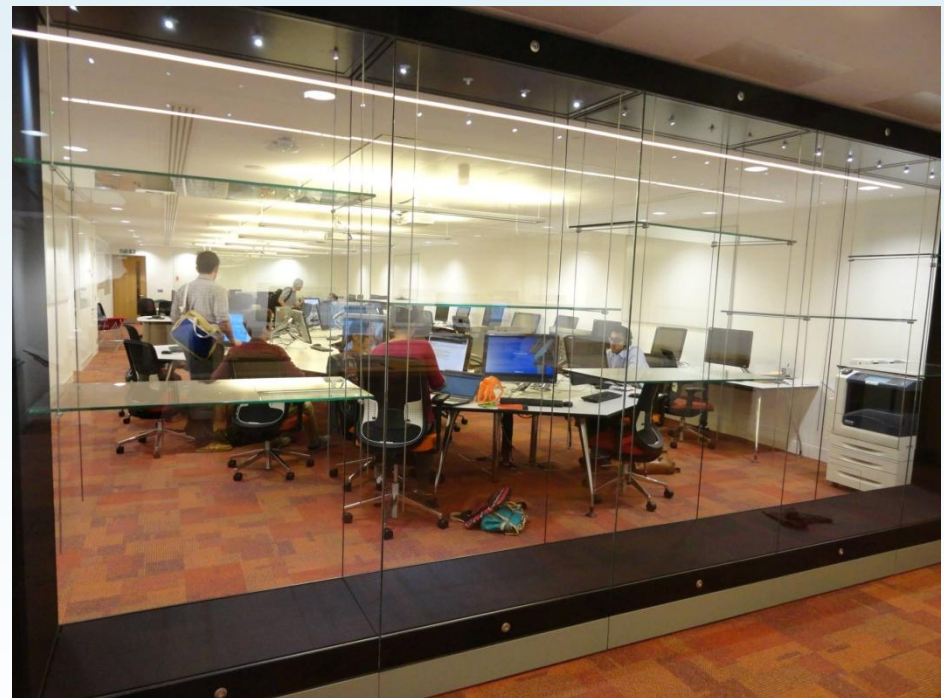
LERU's Response to the Science 2.0 consultation

- Science 2.0 is an agenda being promoted by DG Research
- Science 2.0 an unhelpful phrase in English
- Open Science, Open Research is better
- DG Research issuing a final position statement by Summer 2015



LERU's Response to the Science 2.0 consultation

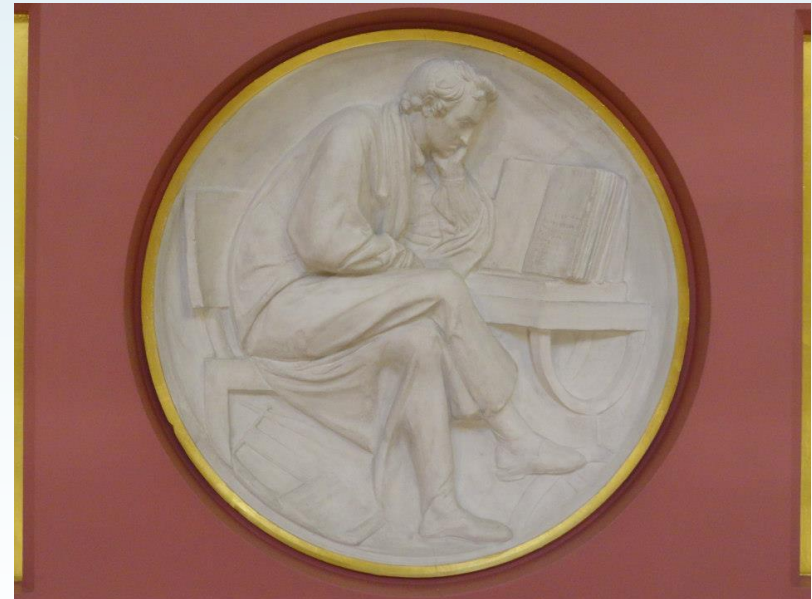
- ❑ [LERU](#) asked the Vice-Rectors (Research) to submit the LERU response
 - ❑ Ignasi Labastida
 - ❑ Paul Ayris
 - ❑ were part of the Team
- ❑ Open Access to publications and Research Data Management identified as priorities



UCL Cruciform Learning Hub

Contents

- LERU's response to the Science 2.0 consultation
- OA in the UK: a view from 2015
- The Institution as Publisher
- Other Tools and Services
 - Research Evaluation and Bibliometrics
 - Citizen Science
- Research Data Management
- Conclusions



Plaster Relief by John Flaxman,
Flaxman Gallery, UCL

National OA Policy?

- ❑ Wellcome Trust and associated charities (COAF)
 - ❑ <http://www.wellcome.ac.uk/About-us/Policy/Spotlight-issues/Open-access/Charity-open-access-fund/>
- ❑ Will provide single block grants to 36 universities to pay for Gold OA APCs resulting from research they fund

wellcome trust

Charity Open Access Fund

Arthritis Research UKbreast cancer campaign
Research that saves livesCANCER RESEARCH UKLEUKAEMIA & LYMPHOMA RESEARCH
Beating Blood CancersBritish Heart Foundationwellcome trust

Research Councils UK



- RCUK has policy on OA
 - See <http://www.rcuk.ac.uk/research/openaccess/policy/>
- Policy follows Finch Report in favouring Gold OA
 - <http://www.researchinfonet.org/wp-content/uploads/2012/06/Finch-Group-report-FINAL-VERSION.pdf>
- RCUK will pay block grants to universities for set proportions of their funded research outputs to be available as OA outputs
- Applies to journal articles and conference proceedings, **not** monographs
- Outputs need to have CC-BY licence attached

Research Councils UK



- ❑ Independent Review of the RCUK policy now published
 - ❑ See <http://www.rcuk.ac.uk/research/openaccess/2014review/>
 - ❑ Review questions whether there is a national UK OA policy which academics understand
 - ❑ Universities found it difficult to account for the first year's RCUK spend
 - ❑ Much confusion about the need for CC-BY licences – with Arts, Humanities and Social Science preferring different solution
 - ❑ Is the RCUK policy scalable to cover *all* RCUK-funded research outputs?
 - ❑ See <http://poynder.blogspot.co.uk/2015/03/ucl-vice-provost-comments-on.html> for a rejoinder to the Review

Game Changer?



- REF 2020 has set new OA policy
 - <http://www.hefce.ac.uk/whatwedo/rsrch/rinfrastruct/oa/>
- Author's peer-reviewed manuscript must be deposited in an institutional or subject repository
 - And no later than 3 months after acceptance
- Applies to journal articles and conference proceedings
- Respect embargo periods set by publishers
- Some exceptions to OA requirement allowed
- Policy not directly funded by HEFCE**

Funding for OA in the UK: Costs of Implementation for RCUK

- ❑ Research Consulting undertook a study of the costs of OA implementation
 - ❑ <http://www.researchconsulting.co.uk/wp-content/uploads/2014/11/Research-Consulting-Counting-the-Costs-of-OA-Final.pdf>
- ❑ For RCUK policy
- ❑ Article Processing charges : £11 million
- ❑ Administration : £9.2 million
 - ❑ Infrastructure, Advocacy, Management

Funding for OA in the UK: Costs of Implementation for HEFCE REF mandate

- ❑ Costs of implementation : £4-5 million
- ❑ Administration : £9.2 million
 - ❑ Infrastructure, Advocacy, Management

- ❑ Costs of Gold OA administration : £81 per article
- ❑ Costs of Green OA administration : £33 per article
- ❑ 1 FTE extra needed for every 1500 repository deposits
- ❑ 1 FTE extra needed for every 500 APCs

Double Dipping



- ❑ Countries which favour Gold OA have to pay APCs for Gold OA and journal subscriptions costs
 - ❑ Sometimes called Double Dipping
 - ❑ Better called Total Cost of Ownership
- ❑ JISC Collections has produced a set of Principles to guide negotiations
 - ❑ <https://www.jisc-collections.ac.uk/Global/News%20files%20and%20docs/Principles-for-offset-agreements.pdf>

Total Cost of Ownership

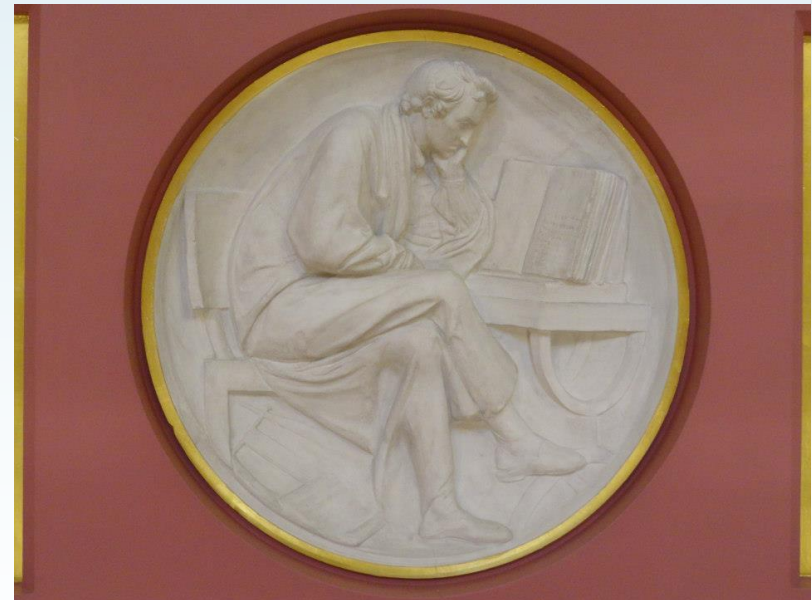


Principle 2

- Systems should ensure that publishers do not charge the same institutions twice, through the payment of subscriptions and the payment of APCs
- Solution is to implement offsets, either against the subscription price or against the cost of APCs
- UK agreement with Springer a good model
 - <http://www.jisc.ac.uk/news/springer-and-jisc-reach-agreement-31-mar-2015>

Contents

- LERU's response to the Science 2.0 consultation
- OA in the UK: a view from 2015
- The Institution as Publisher**
- Other Tools and Services
 - Research Evaluation and Bibliometrics
 - Citizen Science
- Research Data Management
- Conclusions



Plaster Relief by John Flaxman,
Flaxman Gallery, UCL

UCL Publishing model

- ❑ Journal publishing platform
 - ❑ OJS (Open Journal Systems) overlaying UCL Discovery as storage layer
 - ❑ Peer-reviewed journals
 - ❑ Run by academic Editorial Committees
- ❑ Research Monograph list being launched in 2014-15
 - ❑ 10 titles in year 1
 - ❑ Using Open Monograph Press
- ❑ Textbook infrastructure
 - ❑ Being constructed with JISC project monies



- ❑ Open Access is an opportunity, not a threat

- ❑ See <http://www.ucl.ac.uk/library/ucl-press>



UCL Publishing model

- ❑ Open Access business model
- ❑ Sales via Print on Demand/enhanced e-models
- ❑ Books will be peer reviewed before publication
- ❑ Innovative technical solutions for Monographs and Textbooks
- ❑ Open up publishing to new communities
- ❑ Global impact for the University as an outcome



A Box of Useful Knowledge
(Brougham Papers, UCL Library Services)

Contents

- LERU's response to the Science 2.0 consultation
- OA in the UK: a view from 2015
- The Institution as Publisher
- Other Tools and Services**
 - Research Evaluation and Bibliometrics
 - Citizen Science
- Research Data Management
- Conclusions



Plaster Relief by John Flaxman,
Flaxman Gallery, UCL

Other Tools and Services

- LERU Vice-Rectors happiest with
 - Open Access to Publications
 - Research Data Management
- Other issues to be tied down
- Alternative modes of peer review
 - Which?
 - Post publication peer review, with named reviewers?
 - Not popular with academics
- LERU Forum on Peer Review, 6-7 October in Amsterdam



St Michael, by John Flaxman, UCL

Other Tools and Services

❑ Metrics

❑ Altmetrics

- ❑ Not widely understood by academic researchers

❑ DORA – San Francisco Declaration on Research Evaluation

- ❑ LERU has signed
- ❑ [http://www.leru.org/index.php/public/news/not-everything-that-can-be-counted-counts-/](http://www.leru.org/index.php/public/news/not-everything-that-can-be-counted-counts/)



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

- ❑ 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.barcelonalab.cat/ca/projectes/oficina-ciencia-ciudadana/>
- ❑ Citizen Science as a concept being pursued by University of Zurich
 - ❑ Professor Daniel Wyler



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/>
- ❑ 12,883 MSS transcribed by volunteer help from across the world (17/04/15)



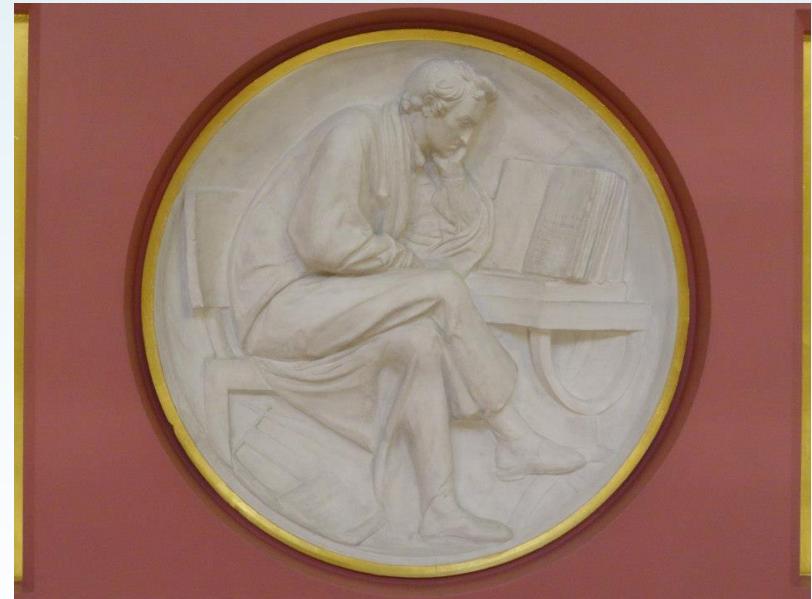
The Bentham Project is supported by:

The Andrew W. Mellon Foundation



Contents

- LERU's response to the Science 2.0 consultation
- OA in the UK: a view from 2015
- The Institution as Publisher
- Research Evaluation and Bibliometrics
- Citizen Science
- Research Data Management**
- Conclusions

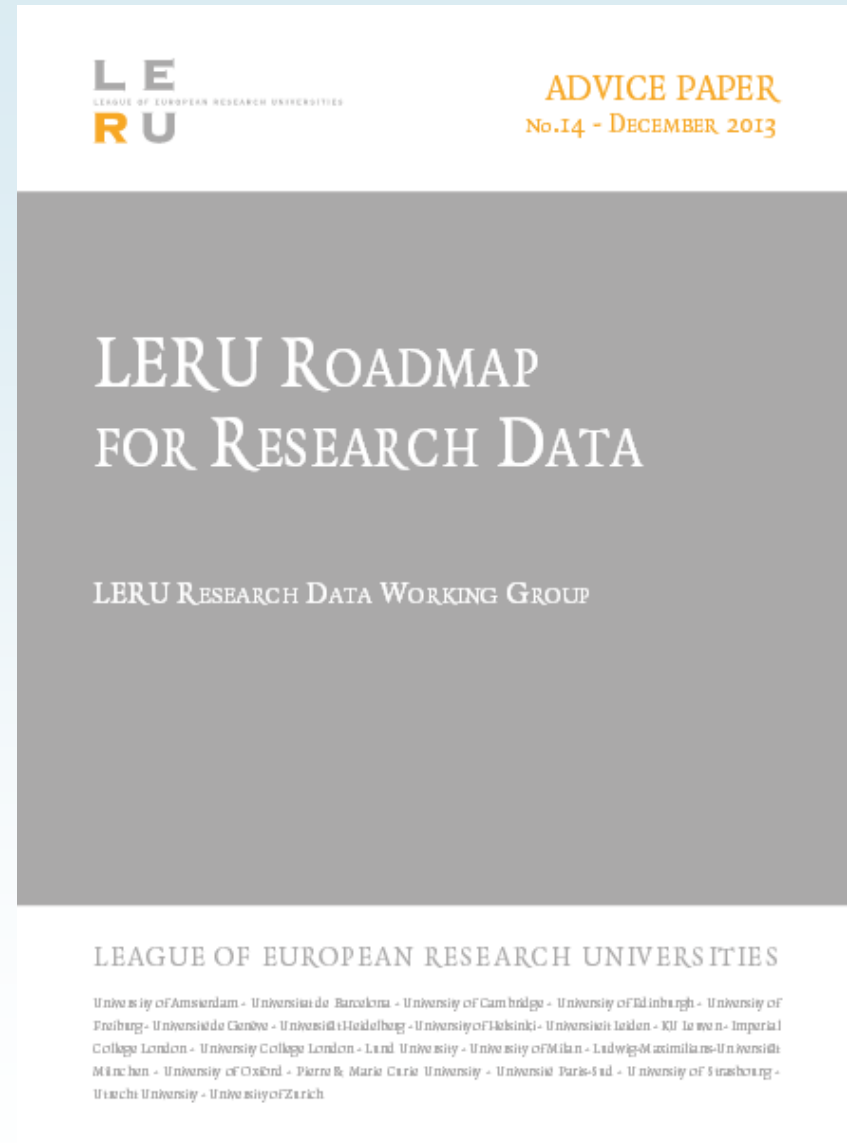


Plaster Relief by John Flaxman,
Flaxman Gallery, UCL

Science 2.0 or Open Research

- ❑ A major agenda in Europe
- ❑ LERU Roadmap plots path for universities
- ❑ ‘Data deluge’ has the potential to revolutionize how research is performed

http://www.leru.org/files/publications/AP14_LERU_Roadmap_for_Research_data_final.pdf



Contents

- LERU's response to the Science 2.0 consultation
- OA in the UK: a view from 2015
- The Institution as Publisher
- Research Evaluation and Bibliometrics
- Citizen Science
- Research Data Management
- Conclusions



Plaster Relief by John Flaxman,
Flaxman Gallery, UCL

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