Open Science (Science 2.0) and Research Data Management

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- 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
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- Conclusions
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LERU’s Response to the Science 2.0 consultation

- Science 2.0 is an agenda being promoted by DG Research
- Science 2.0 is 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

- Open Access to publications and Research Data Management identified as priorities

UCL Cruciform Learning Hub
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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/](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
RCUK has policy on OA
- See [http://www.rcuk.ac.uk/research/openaccess/policy/](http://www.rcuk.ac.uk/research/openaccess/policy/)

Policy follows Finch Report in favouring Gold OA

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
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/](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

- 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-forOffset-agreements.pdf](https://www.jisc-collections.ac.uk/Global/News%20files%20and%20docs/Principles-forOffset-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
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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

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)
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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
Other Tools and Services

- **Metrics**
  - **Altmetrics**
    - Not widely understood by academic researchers

- **DORA** – San Francisco Declaration on Research Evaluation
  - LERU has signed
Metrics and Altmetrics

- San Francisco Declaration on Research Assessment (DORA)
  - see [http://am.ascb.org/dora/](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-ciutadana/
- Citizen Science as a concept being pursued by University of Zurich
  - Professor Daniel Wyler
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/](http://blogs.ucl.ac.uk/transcribe-bentham/)
- 12,883 MSS transcribed by volunteer help from across the world (17/04/15)
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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

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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