The cultural change demanded by Open Science of institutions

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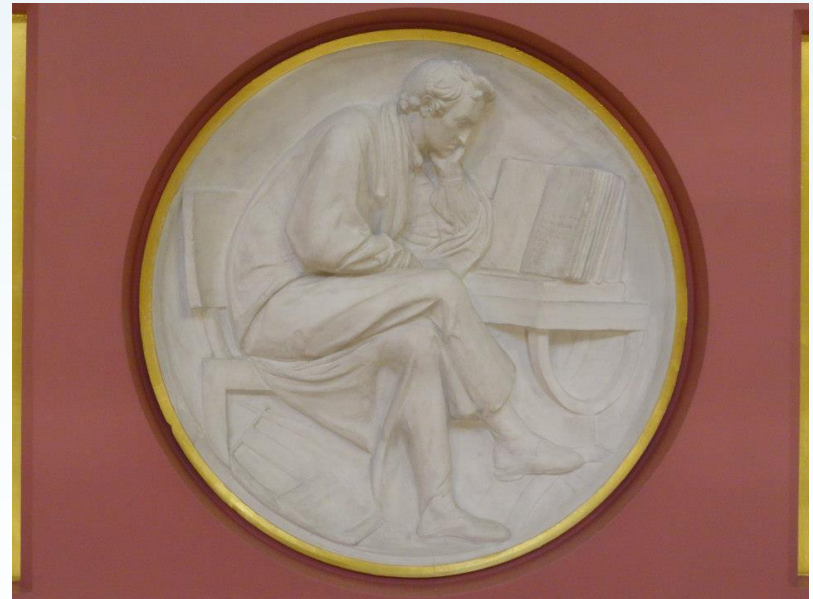
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Content

□ Open Science – What is it?

□ Cultural Change

□ Examples of change

    □ Publications

    □ Research Data

    □ Bibliometrics

□ Next steps

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European Commission: Open Science Policy Platform – 8 pillars of Open Science

Future of Scholarly Communication

EOSC (European Open Science Cloud)

FAIR Data

Skills

Research Integrity

Rewards

Altmetrics

Citizen Science
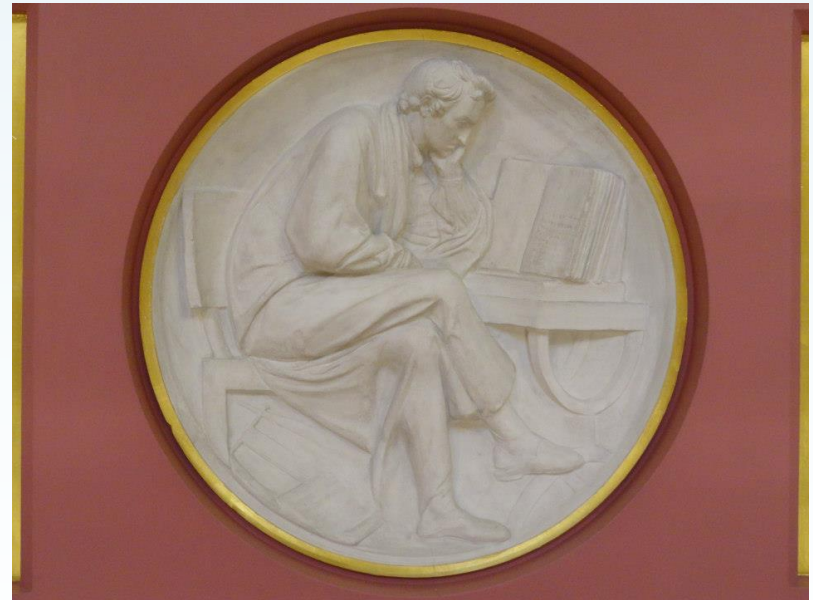
League of European Research Universities

23 leading universities pushing the frontiers of innovative research

❑ LERU has produced an Open Science Roadmap for universities

❑ Launched on 12 June 2018 at https://www.leru.org/publications/open-science-and-its-role-in-universities-a-roadmap-for-cultural-change

❑ 41 Recommendations

Content

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  - ❑ Bibliometrics
- ❑ Next steps

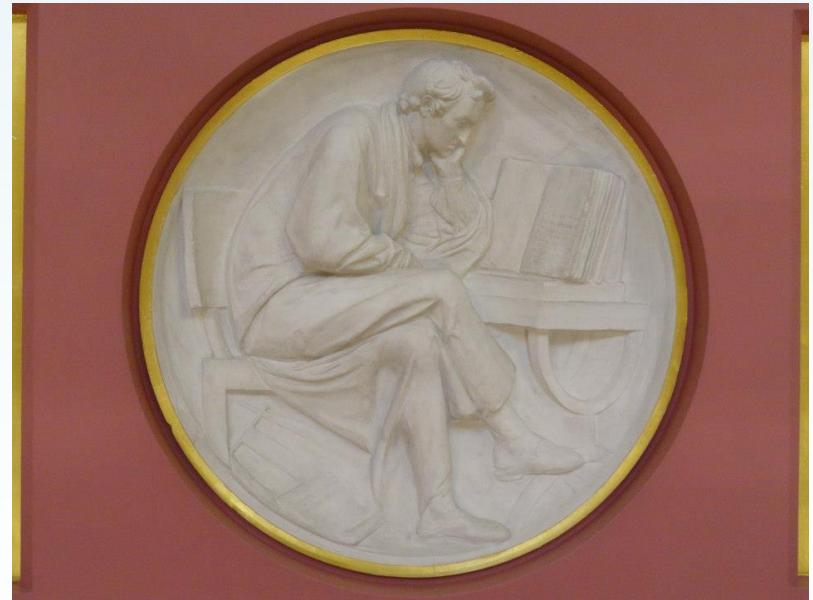Plaster Relief by John Flaxman,
Flaxman Gallery, UCL

Cultural Change

4 Enablers

Leadership, Vision and Strategy

Develop targeted measures

Implement via transparency, accountability and monitoring

Trust and confidence in a shared vision between all parties

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3 models for Plan S compliance

Change current publishing model for Hybrid publishing

Alternative Publishing Platforms

Green Open Access repositories, meeting certain strict criteria

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Benefits of an OA University Press

Taking publishing back into the university system – the university supports the entire research life cycle

Challenge the prevailing scholarly publishing model – issue of low dissemination

Support for OA to AHSS outputs, which receive less funding than STEM

Social impact: research available to the public and policy makers

Global impact: outputs reach regions in which research is unavailable or unaffordable

Motivation for academics: they want their research to be widely read

Added reputational value of a university press, through global dissemination, publicity, reviews

Consistent with Open Science agenda

Opportunities for integration of research and learning

UCL PRESS

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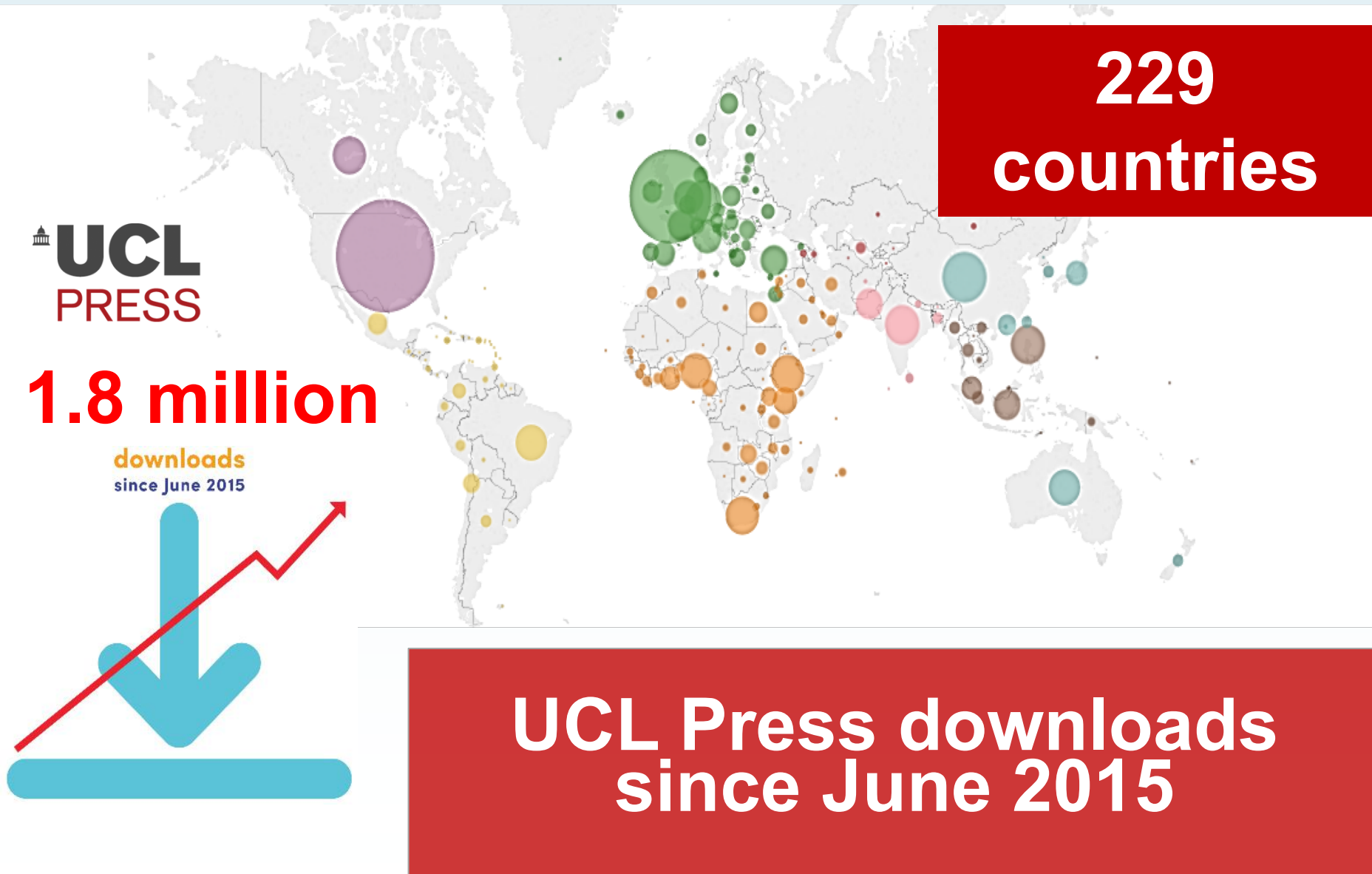Social impact: research available to the public and policy makers

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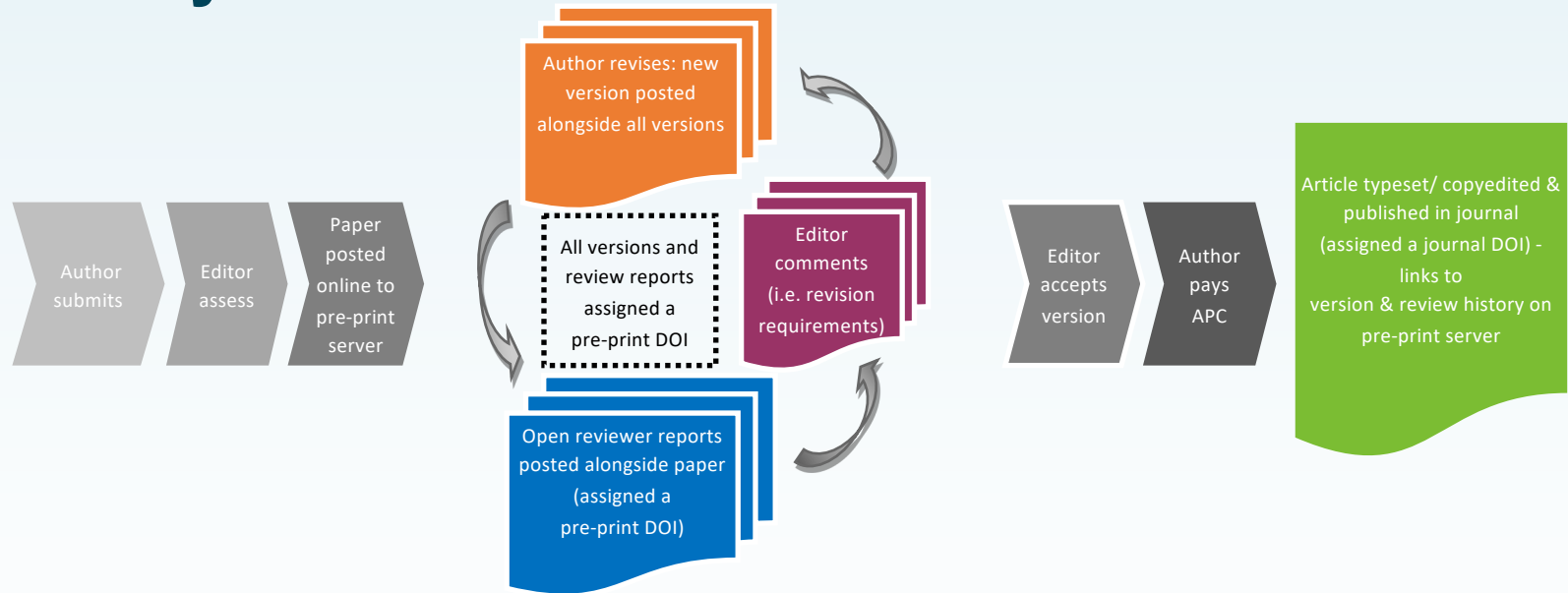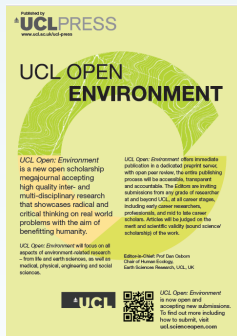Motivation for academics: they want their research to be widely read

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229 countries

1.8 million

downloads
since June 2015

UCL Press downloads since June 2015

Megajournal platform, *UCL Open,* launched 31 January 2019

☐ UCL Open: Environment - https://ucl-about.scienceopen.com/

☐ Inter-disciplinary and cross-disciplinary content

☐ Fast turn-around times being planned

Our Aims for a UCL Press Megajournal

Rapid publication

Innovative open peer review

Interdisciplinary collaboration

Reduced administration

Inclusive publishing

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UCL Research Data Repository

❑ UCL Research Data is FAIR

- ❑ Findable
- ❑ Accessible
- ❑ Interoperable
- ❑ Reusable

❑ UCL Research Data repository

❑ UCL's interface with EOSC

European Commission: Open Science Policy Platform – 8 pillars of Open Science

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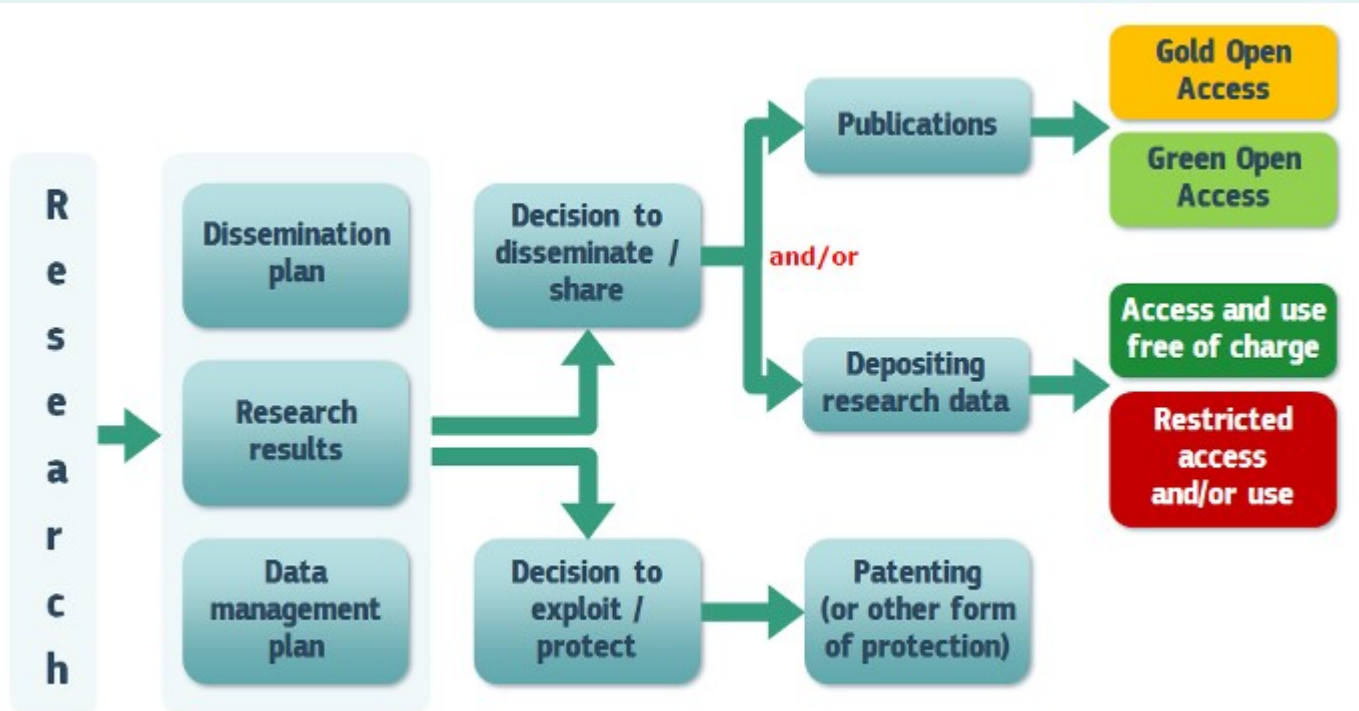
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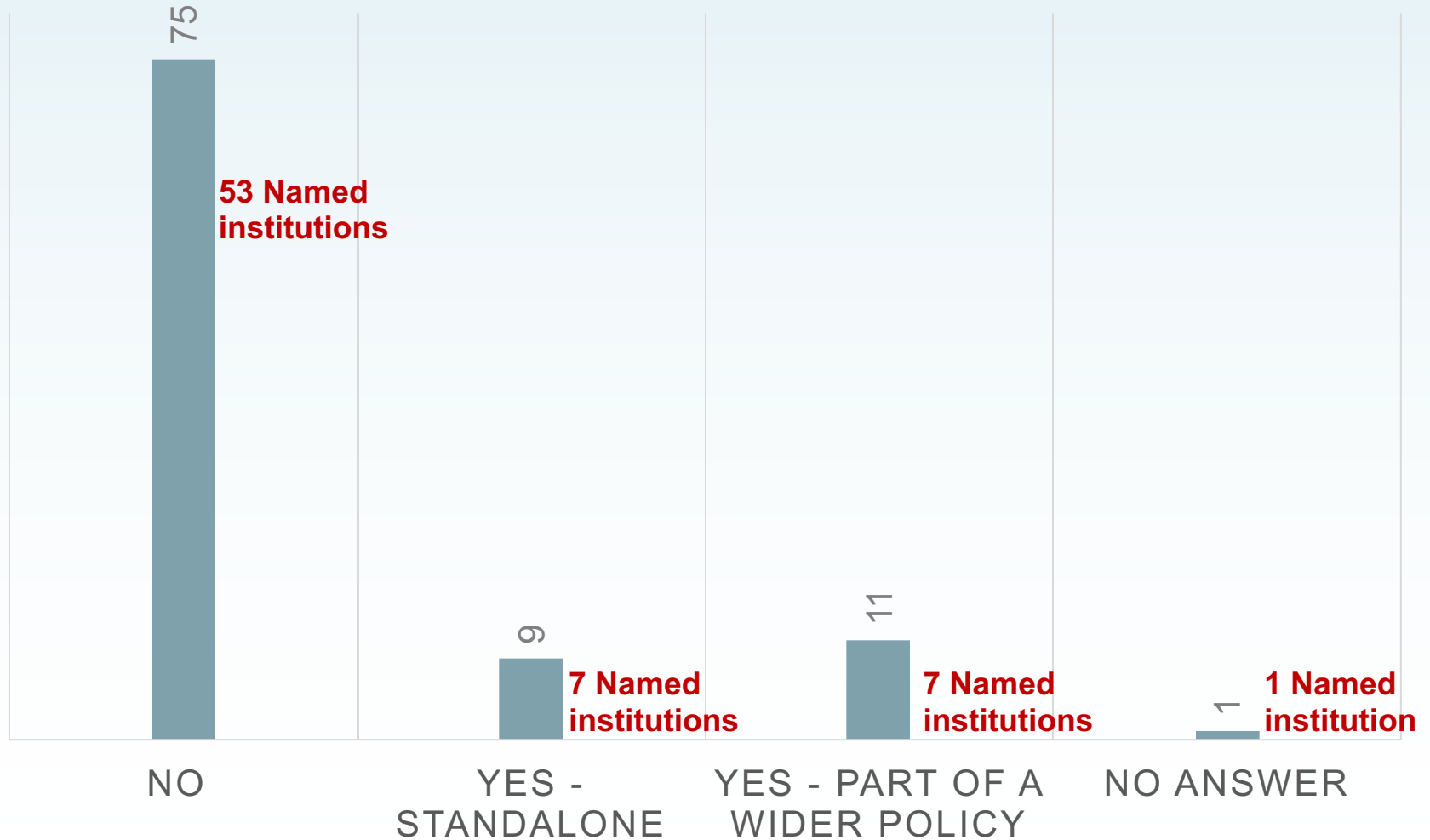
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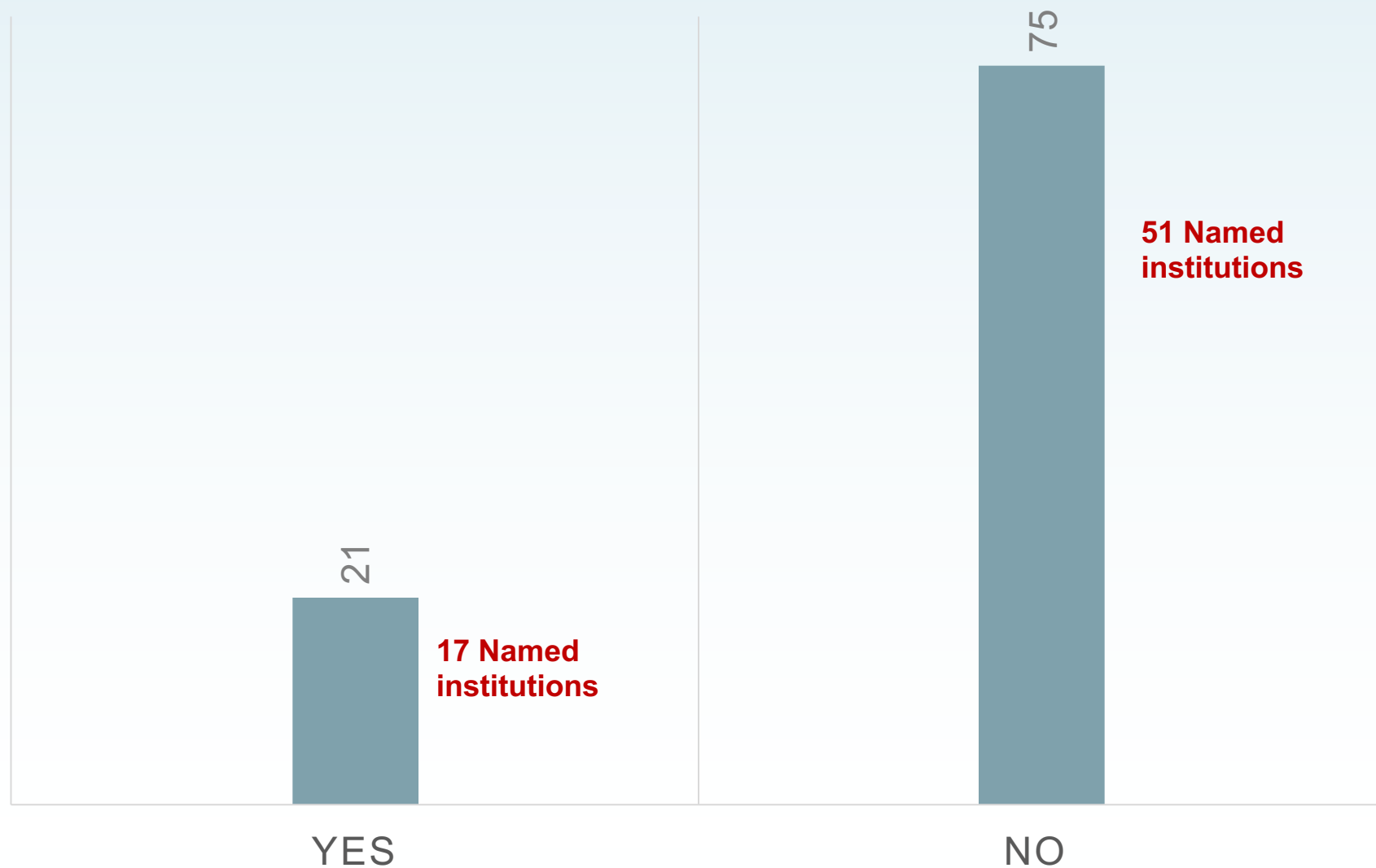
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Culture of Research Metrics in research organisations: HEFCE survey (2017)

- ❑ 14 questions
- ❑ 96 responses
  - ❑ 68 organisations named themselves
- ❑ 72 responses were from HE providers
- ❑ See http://discovery.ucl.ac.uk/10043164

- ❑ Large response rate showed this is a topic many bodies are considering
- ❑ Cultural change is needed to deliver new forms of evaluation
- ❑ Institutions see a need for guidance
- ❑ There is a wish for UK institutions to be aligned with the principles of international statements

Q1 DOES YOUR RESEARCH ORGANISATION HAVE A RESEARCH METRICS POLICY?

Bar chart data:

- **NO**: 75 — **53 Named institutions**
- **YES - STANDALONE**: 9 — **7 Named institutions**
- **YES - PART OF A WIDER POLICY**: 11 — **7 Named institutions**
- **NO ANSWER**: 1 — **1 Named institution**

Q2 HAS YOUR RESEARCH ORGANISATION SIGNED DORA?

YES — 21 — **17 Named institutions**

NO — 75 — **51 Named institutions**

Q5 IS YOUR RESEARCH ORGANISATION CONSIDERING SIGNING DORA?

- 31 — WE ARE CONSIDERING SIGNING DORA — **24 Named institutions**
- 31 — WE ARE NOT CONSIDERING SIGNING DORA — **17 Named institutions**
- 12 — DECIDED NOT TO PROCEED — **11 Named institutions**
- 22 — NO ANSWER — **16 Named institutions**
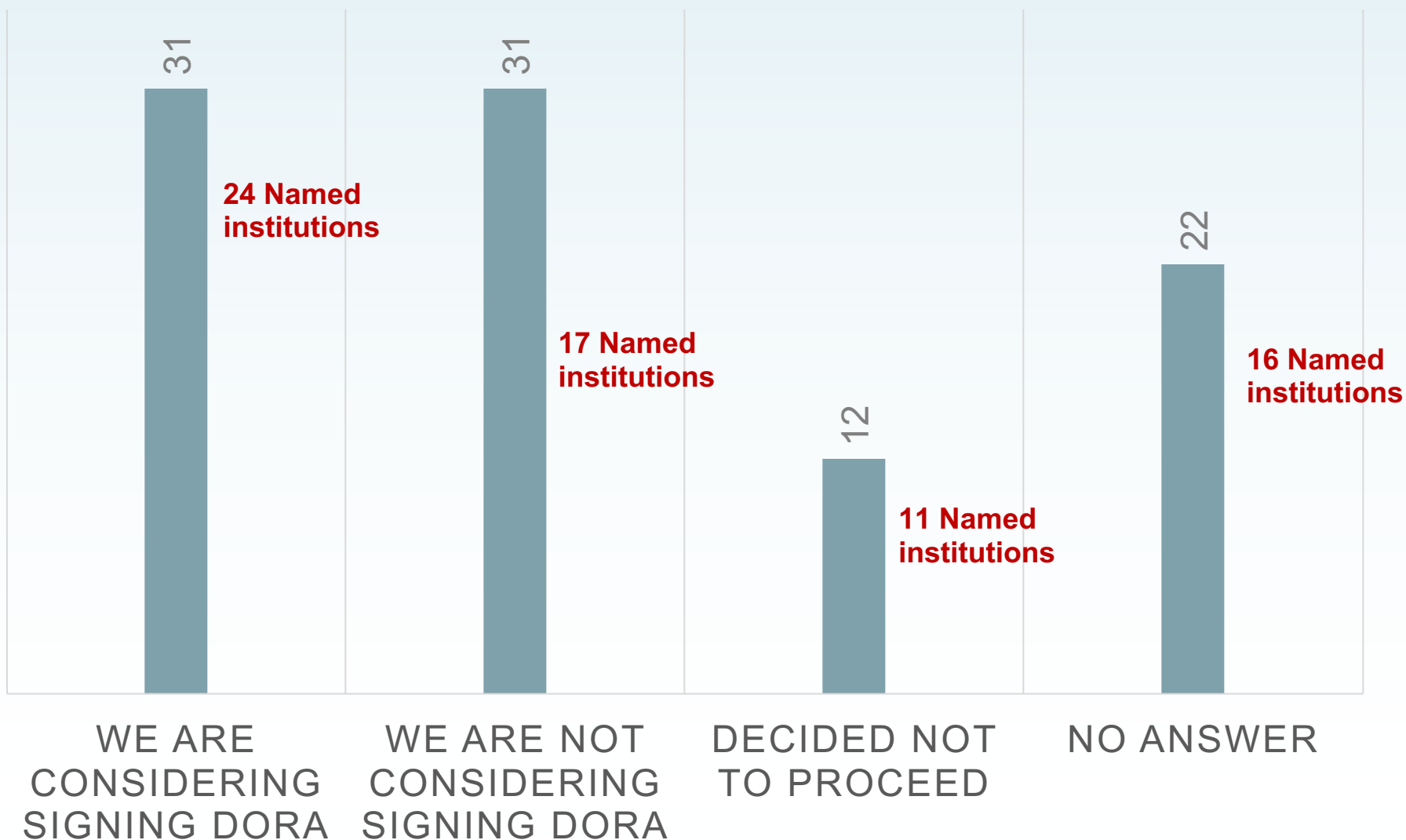
Question 6 asked for reasons for signing/not signing DORA. A wide range of answers was given and no particular reason predominated in the answers:

- The Dean of my school is metric and spreadsheet crazy
- The level to which we use metrics within the organisation has been such that we did not feel the culture we have necessitated signing DORA
- DORA is strongly supported by senior staff leading research.
- Not regarded as a key concern at this time.
- At initial discussions, we did not wish to sign up without being able to fully implement the necessary changes as they deserved more than just lip service. In discussion with current DORA signatories, the overwhelming response from institutions was that they viewed both DORA and the Leiden Manifesto as a statement of intent, aiming for a culture where they were complying, whilst knowing that it would be a journey before they fully (if ever) met those principles. With this in mind, we are now revisiting DORA as a statement of principle to aspire to.
- Signed as part of LERU in 2015

'Altmetrics'

- ❑ Universities should have Bibliometrics Policy grounded in DORA and Leiden Manifesto
- ❑ Future is to compile Best Practice for individual universities to embrace
- ❑ Use new forms of research evaluation in appointment/ appraisal / promotions processes
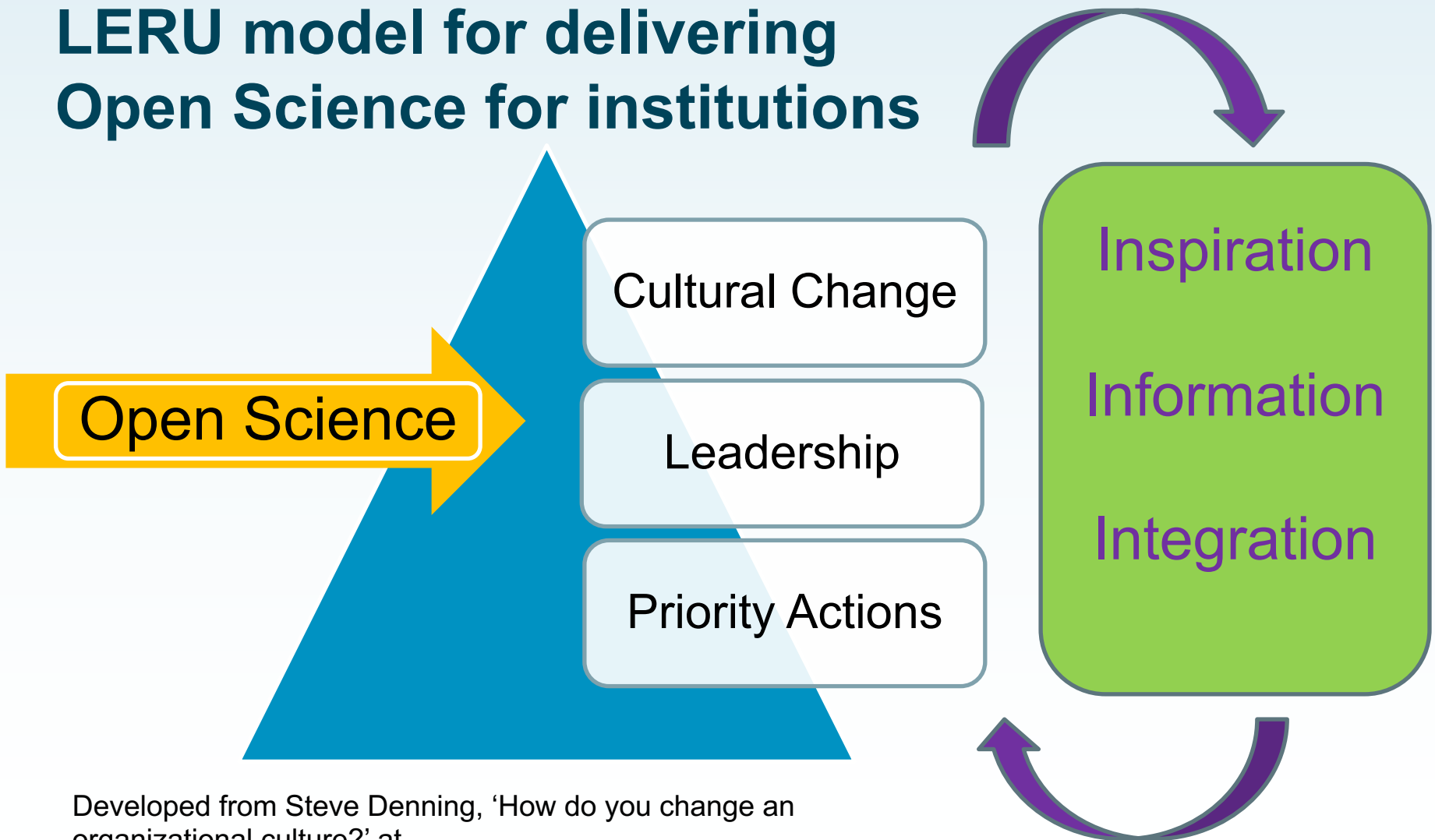
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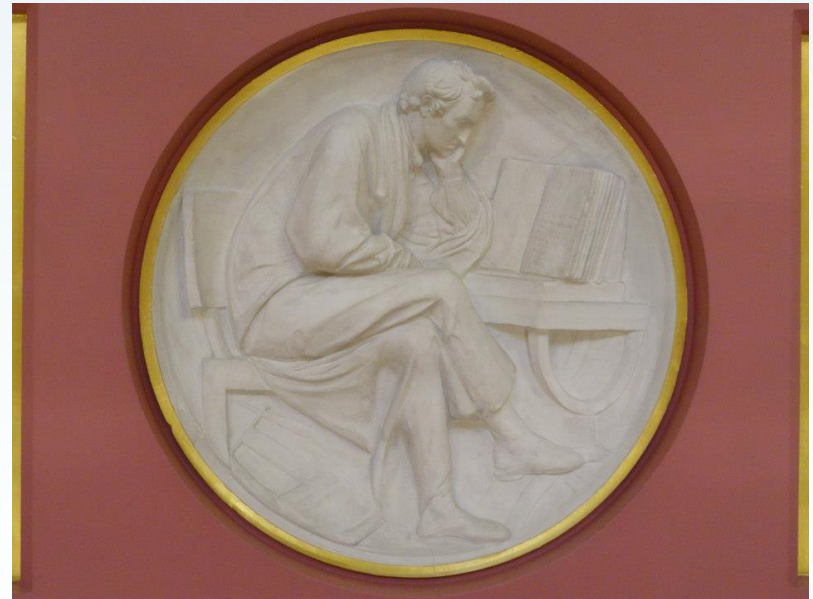
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LERU model for delivering Open Science for institutions

Open Science

Cultural Change

Leadership

Priority Actions

Inspiration

Information

Integration

Developed from Steve Denning, 'How do you change an organizational culture?' at
https://www.forbes.com/sites/stevedenning/2011/07/23/how-do-you-change-an-organizational-culture

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Helix for institutions supporting Open Science to be launched

❑ Community of Open Science supporters about to be launched, led by UCL

❑ 3-day Workshop on Open Science being held in Geneva 19-21 June 2019

❑ Registration open at https://indico.cern.ch/event/786048/

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So, now…

❑ Over to you…
❑ How do European universities make this a reality?

UCL Student Centre, run by
UCL Library Services
Opened 18/2/19

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