

We need more science in our open science

A grand challenges based research agenda



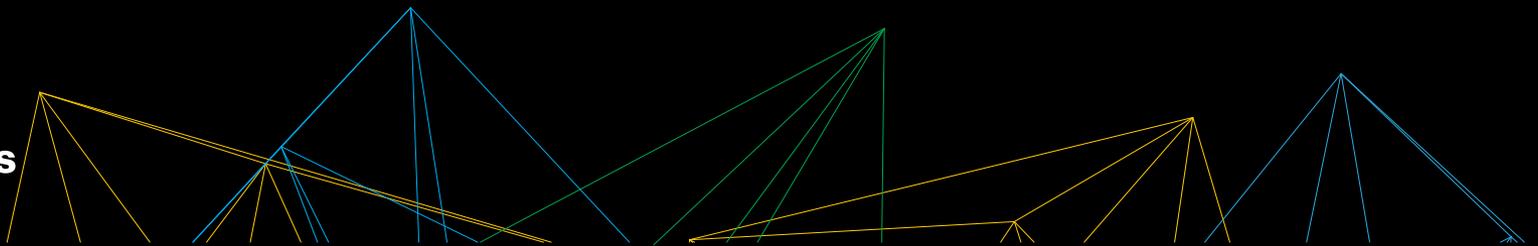
Chris Bourg
Sue Kriegsman
Micah Altman

**MIT
Libraries**

Roadmap to this session

- Call to action
- Grand challenges
- MIT Libraries, CREOS
- Community questions

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Core principles

- **Open science is good science**
- **Open science is inevitable**
- **Open science (good science) is based on evidence**

This is a call to action for research

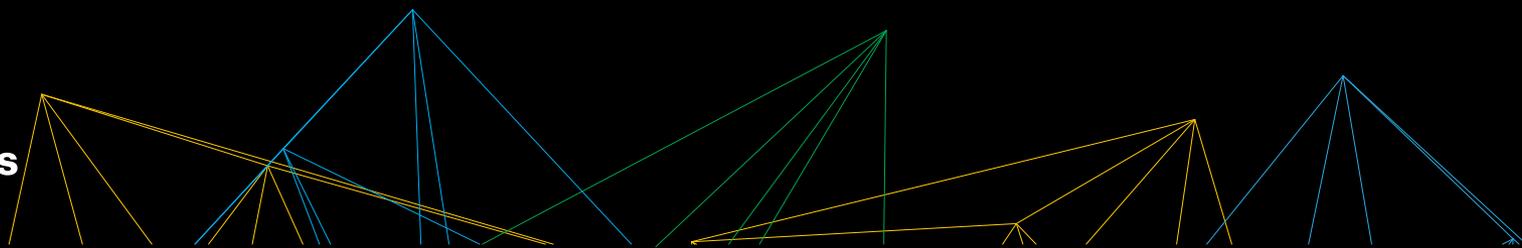
- Building an evidence base is a community activity

More together

- **Grand challenges in information science and scholarly communication underwritten by the Mellon Foundation**
 - **If we work together we can make significant headway**
 - **Combined effort can catalyze change**
 - **Create a strong value proposition**

Grandchallenges.mit.edu

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Grand challenges to **Open**

- **Challenges, threats, barriers to participation**
- **Restrictions on forms of knowledge**
- **Threats to integrity, trust, durability**
- **Threats to individual agency**
- **Incentives to equitable and open scholarship**

[Every day actions]

- **Coordinate research across communities**
- **Be an advocate**
- **Incorporate values into infrastructure and practice**
- **Institutions can develop inclusive efforts**
- **Seek new voices in the design and use of platforms**
- **Include replicable methods to support systematic inference**
- **Support programs that integrate research and practice**
- **Funders can uphold these concepts**

CREOS at MIT Libraries

- **Center for Research on Equitable and Open Scholarship**
 - **Founding Director: Chris Bourg**
 - **Deputy Director: Sue Kriegsman**
 - **Director of Research: Micah Altman**
 - **Affiliated faculty, visiting scholars, post-docs, students: TBD**

CREOS areas of research

- **Barriers and incentives to equitable and open scholarship**
- **Impacts of equitable and open scholarship**
- **Business models for equitable and open scholarship**

- **Examples**
 - **Department level plans for supporting open**
 - **Visiting scholar program**

Who's on first?

- **Jointly funded project fall 2018**
 - **Ohio State University**
 - **MIT**
 - **University of Arizona**
 - **University of California Los Angeles**
 - **University of Pittsburgh**
- **Professor Philip Cohen**
- **Sociology, University of Maryland College Park**
 - “I spent my semester as an MIT CREOS visiting scholar and it was excellent”

The results

- **Scholarly communication primer for sociology**
 - **Reviews media, policies, economic actors, recent innovations**
 - **Explains the researching and publishing eco-cycle**
 - **Economic flow of journal publishing**
 - **OA models**
 - **Pre-print repositories**
 - **Role of libraries**
- **IOTA (I Owe The Academy)**
- **SSRC/ARL meeting planning**
- **Video interviews about openness in social science**

What's the research to **open**?

- What are the assumptions that have research potential?
- What research would provide a useful evidence base?
- What evidence based research can we do together?