We need more science in our open science
A grand challenges based research agenda

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Roadmap to this session

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