Open Access Grand Challenges

Here Be Monsters

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RECODE
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Research Knowledge Sharing

- Exchanging ideas and facts is a basic tenet of research
Digital Revolution

• Is a change of technology, not intent.

• Researchers eagerly adopt new technologies that benefit them.

Taxonomy → Phylogenetics
Why is Digital Open Access Hard?

• Changing from a known academic economy to an unproven one. (change is hard)
• Now: publications = success
  – We all know how to “win”
• Future: multiple valid academic outputs
  – Publications, data, software…
Here Be Monsters
The New Research Economy:

• Infrastructure: Make it technically possible to share and attribute multiple academic contributions.
  – Infrastructure and tools to support discovery, attribution, and access to data and software.
  – Citations and metrics for data and software, as well as publications

• Social Change: Updated Incentives
  – Tenure and Promotions Committees (Carrots)
  – Funder Expectations (Sticks)
Leap of Faith

Pioneer or Dinner?