



# The Rise of Funders

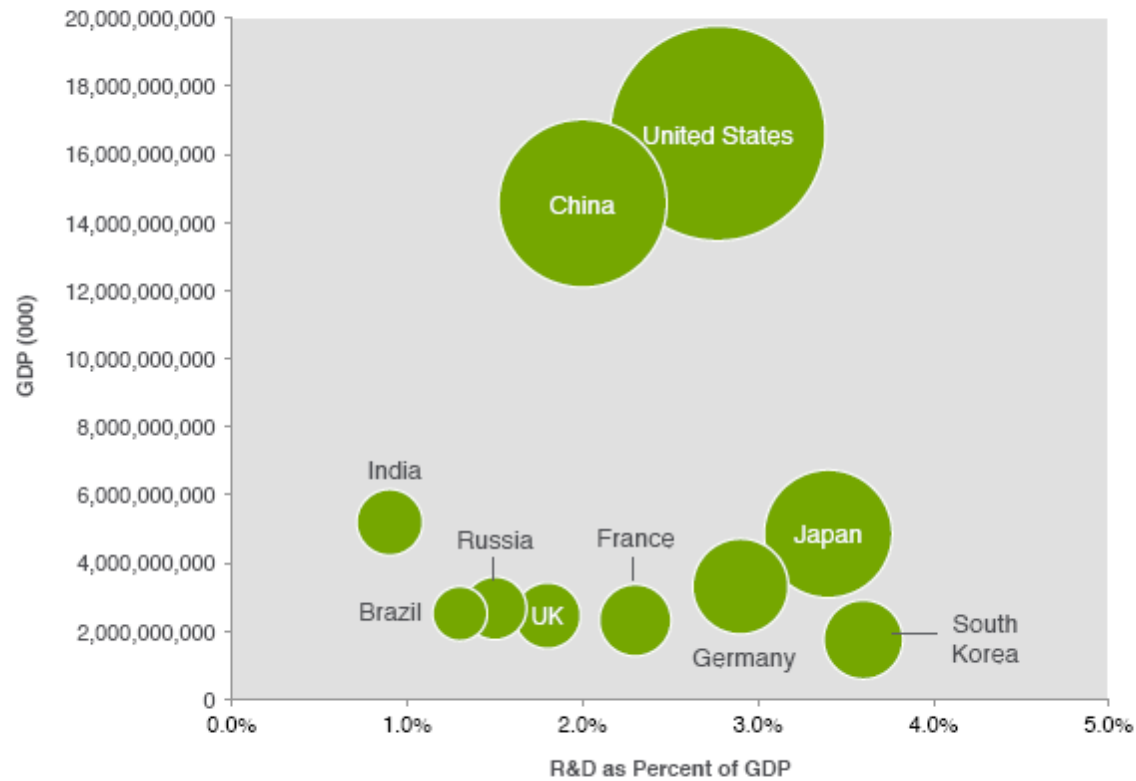
The Changing Shape of Science Publishing



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# Government funding: Research and Development as a % of R&D

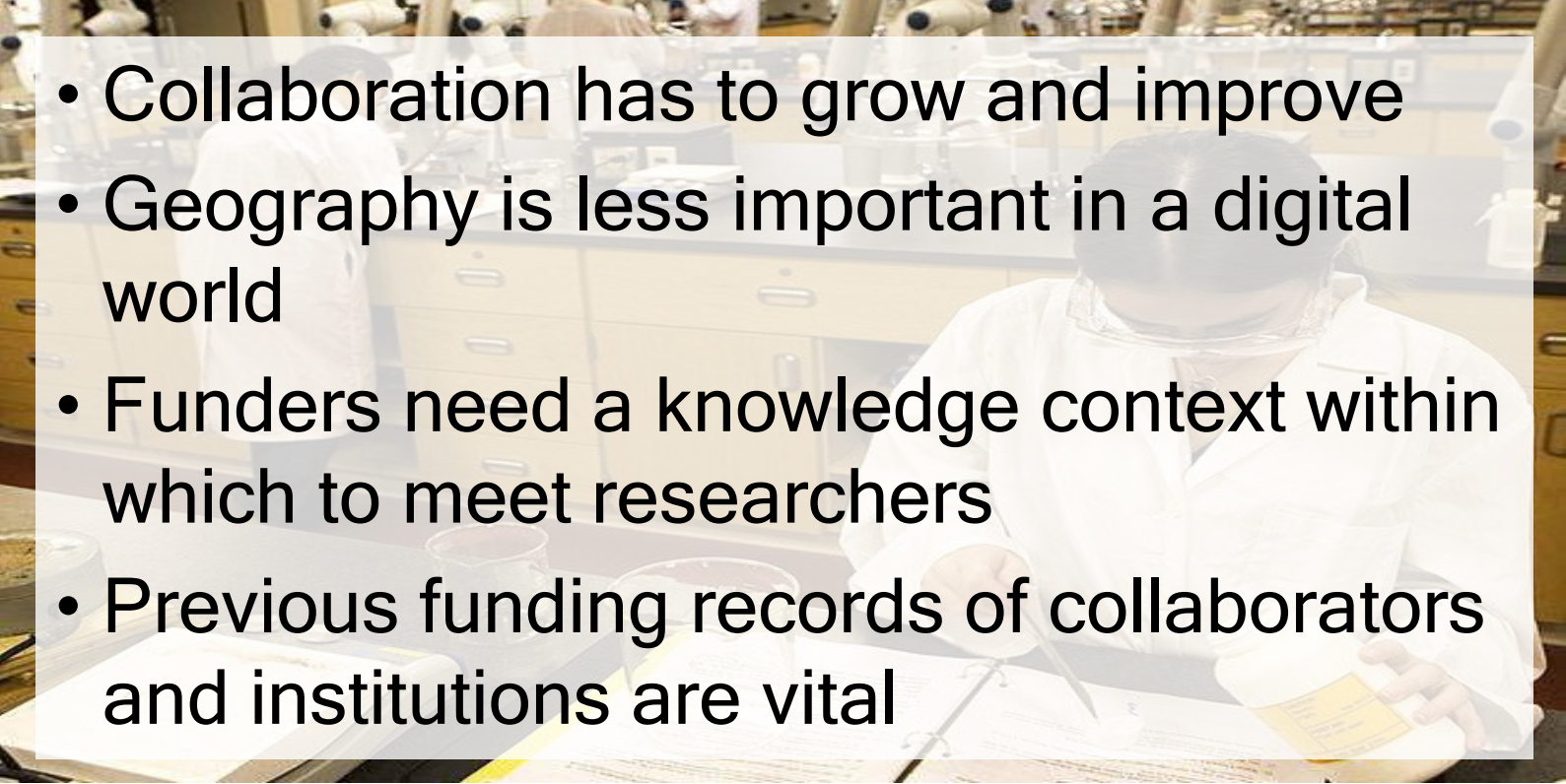


Source: R&D Magazine

# A Changing World...

- Technology change in a searchable digital world
- Pressure on the sustainability of life on the planet
- Innovation and discovery grow in importance
- Private and public funding increases to meet demand
- The need for scrutiny questions traditional roles
- Scrutiny needs comparability and accessibility

# Research goes Interdisciplinary

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- Collaboration has to grow and improve
  - Geography is less important in a digital world
  - Funders need a knowledge context within which to meet researchers
  - Previous funding records of collaborators and institutions are vital

**Who is funding what?  
Uber Research: Dimensions**

# Peer Review

- More important at the input/proposal stage than at output/ article stage?
- Pressure on project selection tightens (recession, volume, lab space)
- More Science... creates More Science
- Greater cost realism - FEC (full economic cost) calculation
- Proposal peer review gets more valuable still as pressure increases on institutions.

# Funding

- Funder now has to be more hands on - does progress reporting and ethical due diligence become open and part of the scholarly communications system
- Flagging problems. Duty to Science or breach of confidence?
- Mapping rivals and duplications - competition v ethical positioning?
- Funding people not projects? Less grant proposals and more salaries = faster results (NIS, HHMI)

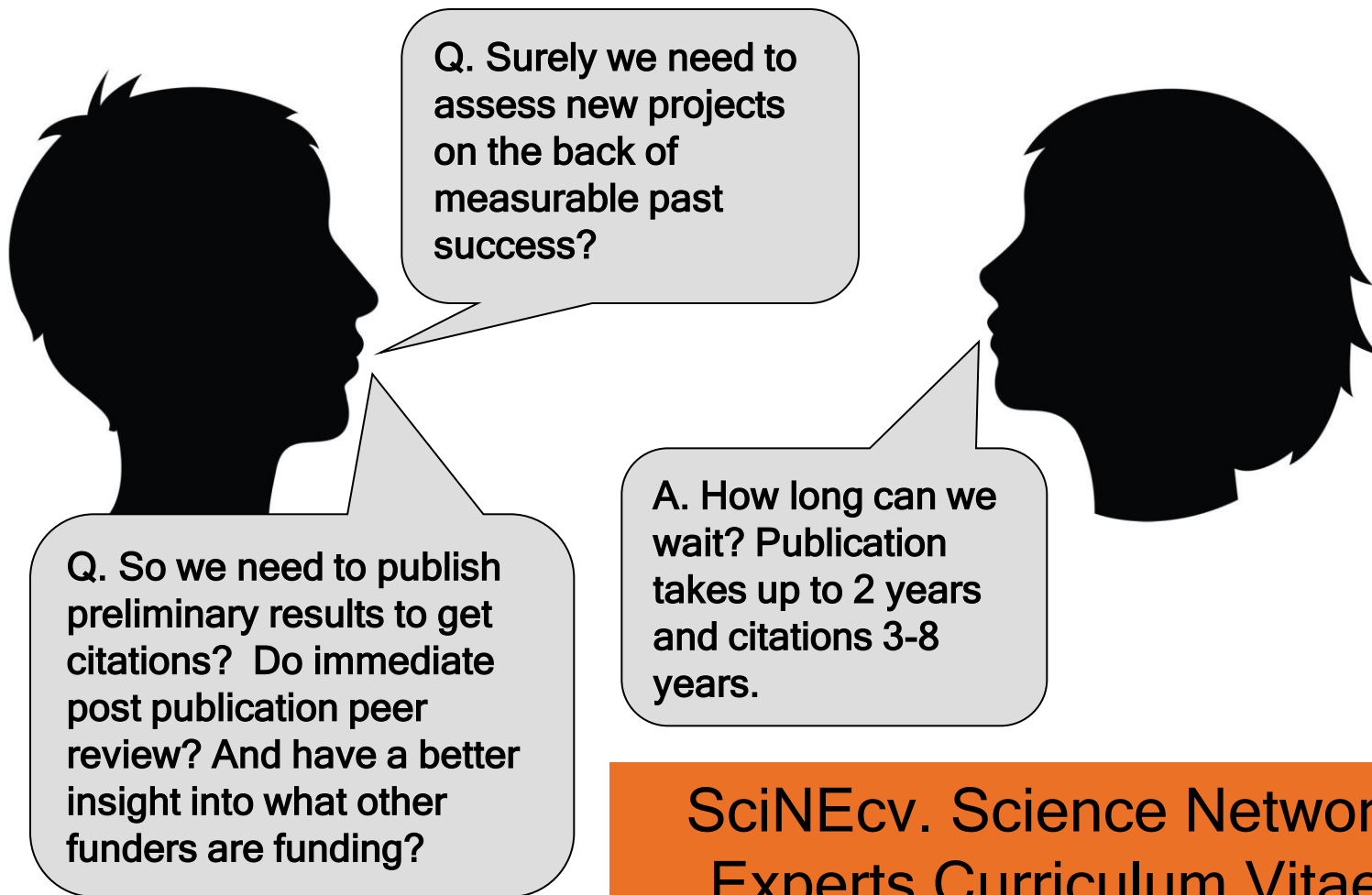
Standards: the lack of metadata consistency and classification still inhibits accurate description of funders, institutions, researchers.

FundRef

# Open Access

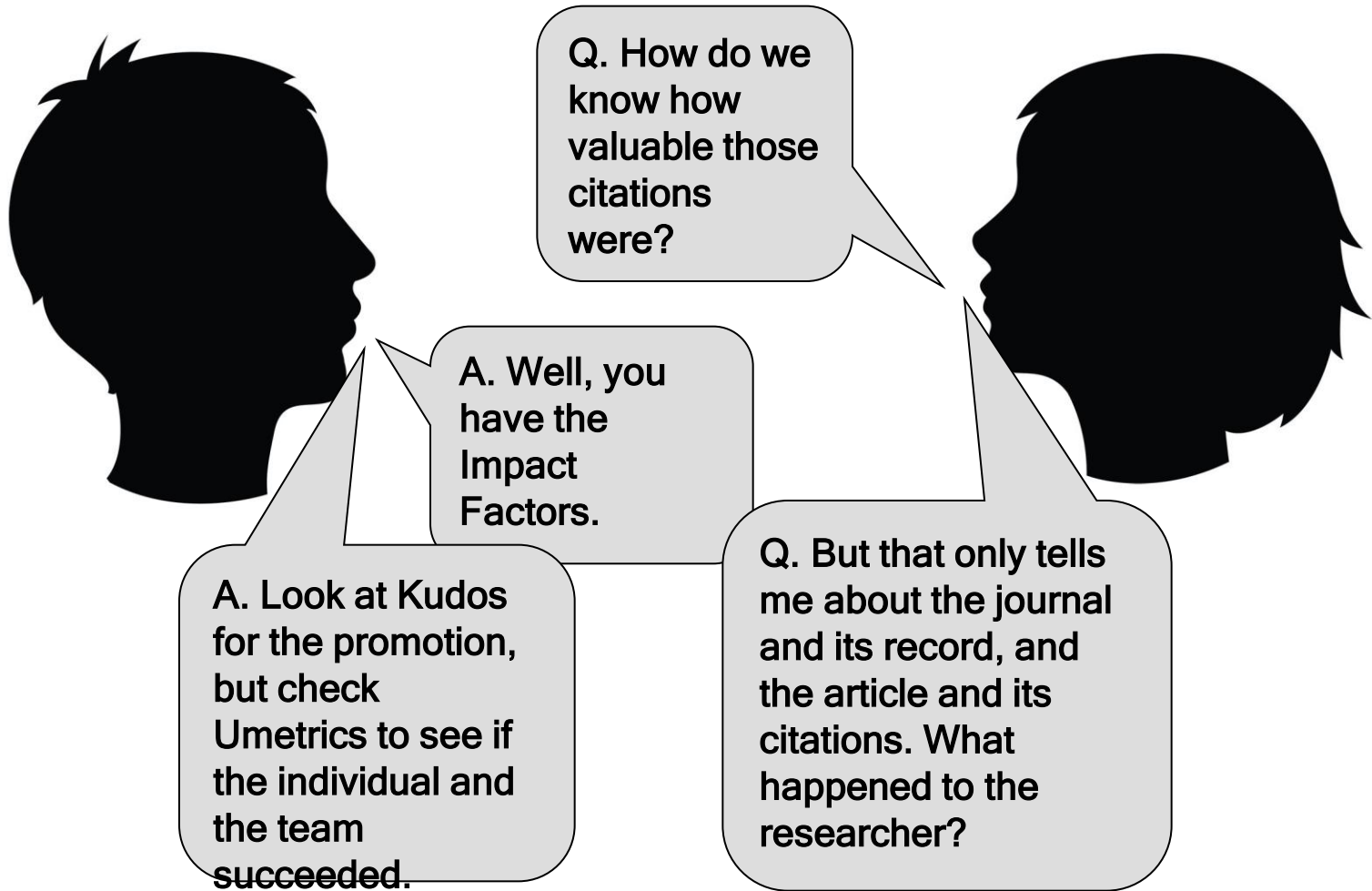
- Now 184 sources on Sherpa/Juliet
- Embargo periods are still very various: will they diminish?
- Will OA become established for interim or provisional findings?
- Open Data Access. Subject to peer review? Will Dryad and figshare become the model?

# Metrics and Grant Awards





# Impact



# And Now...

- There is a market need to get these various data together and make them consistent and interoperable - especially Sherpa, Orcid, the CRedIT taxonomy, UberResearch
- Create an impact factor for funders along the lines of SciVal or Web of Science
- Create a standard classification service for funders and institutions to enable them to have full data visibility across the funding process
- OR some current funders could do it for themselves -and become publishers as well in the process

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