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3rd Annual UNT Open Access Symposium: Concluding Remarks.

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**3RD ANNUAL SYMPOSIUM ON OPEN ACCESS:
CONCLUDING REMARKS**

UNIVERSITY OF NORTH TEXAS

21 MAY 2012

Brian E. C. Schottlaender
The Audrey Geisel University Librarian

WHAT I HEARD

DATA PRESERVATION

- **The key reason for preservation is re-use
=> in fact, preservation IS re-use.
[Choudhury]**
- **"Without a deep, rigorous exploration
and investigation of preservation, we
run the risk of incomplete data
management." [Choudhury]**

DATA RE-USE

- **Science is being transformed from something you observe in real time into something you accumulate over time and analyze later [Gutman]**
- **Data archives are central to astronomy today => no longer "second-class science" [Hanisch]**
- **Facilitating research with data isn't just about more data => it's about effective use of data [Droegemeier]**

DATA AGGREGATION

- **Data increasingly need to integrate with other kinds of data [Gutman]**
- **Science is being transformed from something you observe in real time into something you accumulate over time and analyze later [Gutman]**
- **The challenges associated with integrating heterogeneous data [and they are] are non-trivial. [Renear]**

ATTRIBUTION CITATION PUBLICATION

- **EZID => helps generate citations, with which you can get credit [Kunze]**
- **Working to enrich data sharing and publishing infrastructure [Hanisch]**
- **Need a system--and more importantly, a philosophy--for giving credit to faculty for generating, maintaining, and provisioning data [Droegemeier]**

DATA ECOLOGY

- **Preservation and reuse of data for scholarship is a mosaic of partnerships and roles [Gutman]**
- **We need to both cooperate AND specialize [Gutman]**
- **Objective: insert themselves into the scientist's workflow [Strasser]**
- **NSB: Broad array of stakeholders [Griffiths]**

**W / thanks to
McKenzie Smith**

Curation Ecology: technology view

1. **Storage layer**
iRODS, S3, Palimpsest
2. **Data management layer**
IRs, ICPSR, UK Data Archive
3. **Linking (or Semantic) layer**
SFX, Semantic Web
4. **Discovery layer**
Google/Google Scholar, ICPSR UI
5. **Delivery layer**
content interaction tools, e.g. Ajax widgets like MIT Exhibit
6. **Social layer**
myGrid/Taverna, Kepler, VREs, VIVO

Curation Ecology: functional view

1. **Storage layer**
Bit-level persistence
2. **Data management layer**
Metadata, policies, preservation strategies
3. **Linking (or Semantic) layer**
Identifiers, RDF, ORE encoding
4. **Discovery layer**
Library catalogs, Web search engines, federated search
5. **Delivery layer**
ebook readers, visualization tools, streaming media servers, security and ethics
6. **Social layer**
collaboration tools, social networking tools, VLEs and VREs
7. **Business layer**
cost recovery, legal/policy frameworks, virtual organizations

Curation Ecology: organizational view

1. **Research Groups (individual faculty, labs, Labs and Centers)**
knowledge producers/consumers (social layer)
2. **Professional Societies**
knowledge aggregators (linking layer)
3. **Data Centers**
system, data storage expertise (storage, data management layers)
4. **Libraries and archives**
content/data management, data linking expertise (data management layer)
5. **Businesses (Publishers, IT companies)**
discovery, delivery layers
6. **Universities, Funders**
business, policy layers

- **Curation Ecology: data view**
 - eScience
 - Data-driven research (experimental data)
 - Data-intensive research (hybrid data)
[Griffin]

EXPECTATION-SETTING/ STOCK-TAKING

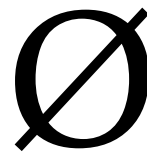
- **... a deep, rigorous exploration and investigation of preservation [Choudhury]**
- **The challenges associated with integrating heterogeneous data [and they are] are non-trivial. [Choudhury]**
- **... we need to know a lot more than we do now about all aspects of data creation and management. [Renear]**

**WHAT I
DIDN'T HEAR
MUCH ABOUT**

PEER REVIEW

- **How is quality assured and who determines it? [Droegemeier]**
- **“Tread softly on the question of data quality.” [Hanisch]**

DISCOVERY and DELIVERY



DATA GOVERNANCE

- **Global Research Council just organized
=> G20 + OECD [Droegemeier]**
- **Key questions ...**
 - **Who owns it and when, and who decides?
[Droegemeier]**

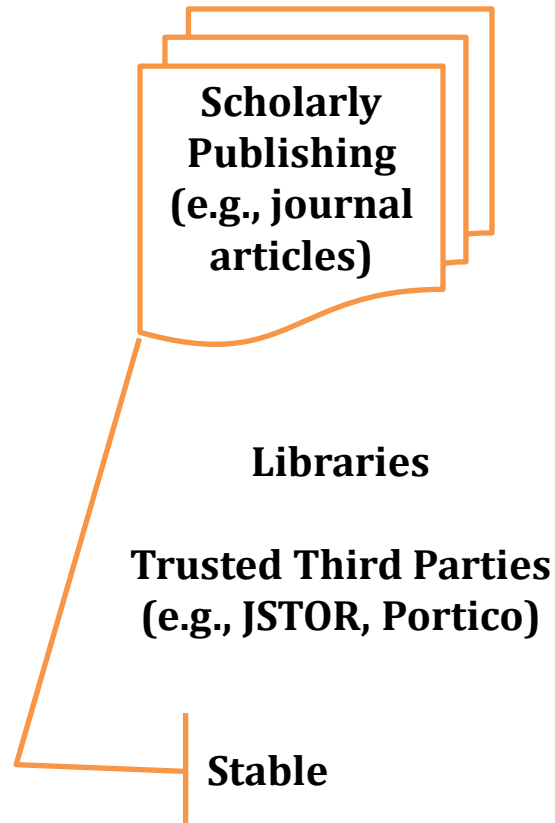
[There's trouble in Whoville ...]

EXHORTATIONS TO LIBRARIANS

- **"When you don't have subscriptions, what've you got? What do you do?" [Gutman]**
- **Librarians/Archivists/Curators: "How do I organize and manage data to help students and faculty answer their research questions, and do so going into the future?" [Gutman]**
- **Priority for support by libraries, by data type (low to high):**
 - **eScience simulation data**
 - **Experimental data 1 (automated collection/preparation)**
 - **Experimental data 2 (human involvement)**
 - **Higher-order computed data objects [Griffin]**
- **Libraries can lead the effort to create new models for scholarly communication [Griffin]**

- **It's your [i.e., librarians'] responsibility to get the word out about the tools available to scientists. [Hulsey]**
- **Librarians need to become comfortable with data [Griffiths]**
- **... a deep, rigorous exploration and investigation of preservation [Choudhury]**
- **... we need to know a lot more than we do now about all aspects of data creation and management. [Renear]**

“THE SCHOLARLY RECORD”



"THE SCHOLARLY RECORD"

"Scholarly" =
Scholarly & Scientific

Infrastructures
largely
self-contained

Scholarly Raw
Material
(e.g., archives,
data)

Archives
Data Centers
[Some in Libraries; Some Not]

Less Stable

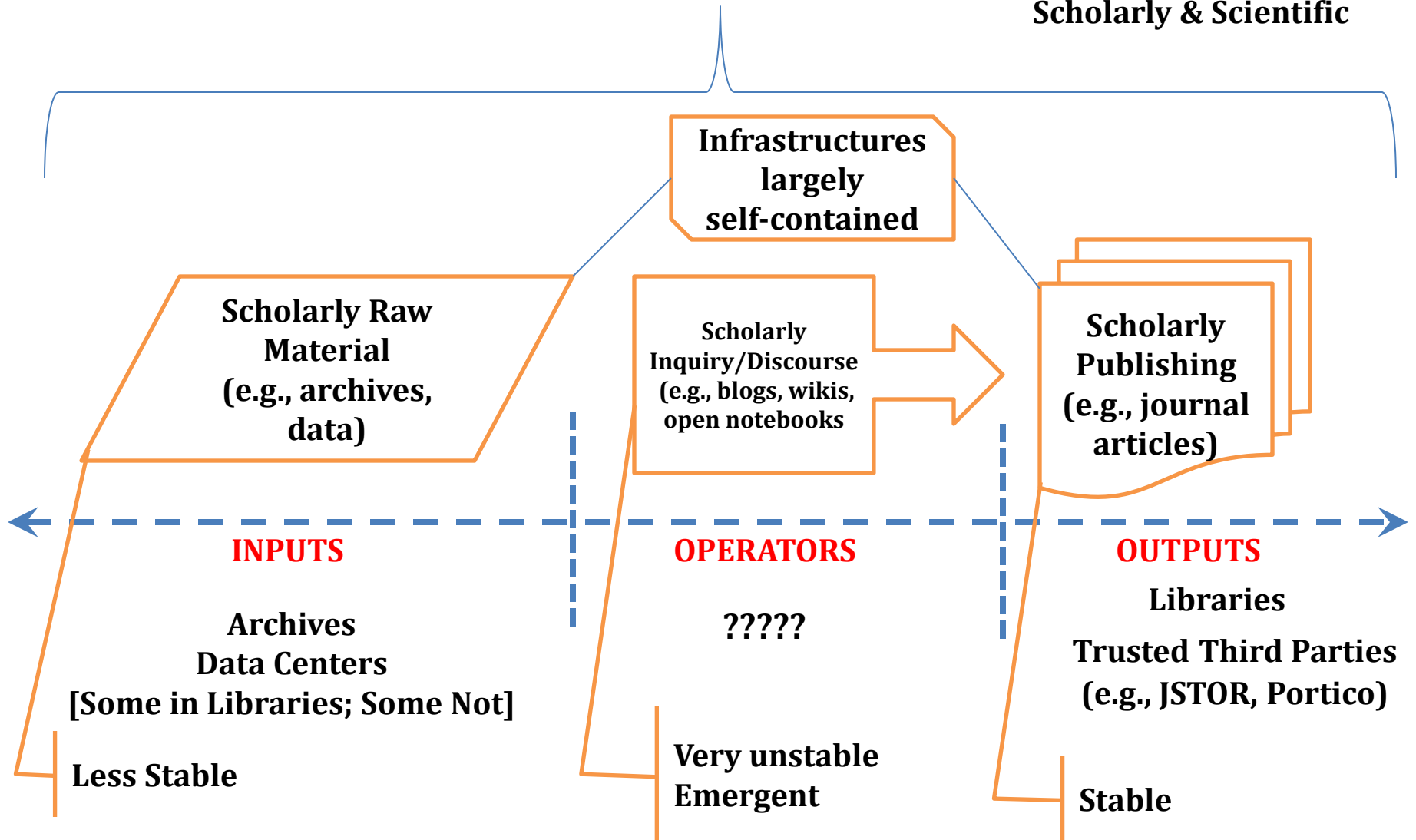
Scholarly
Publishing
(e.g., journal
articles)

Libraries
Trusted Third Parties
(e.g., JSTOR, Portico)

Stable

"THE SCHOLARLY RECORD"

"Scholarly" =
Scholarly & Scientific



THANK YOU

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