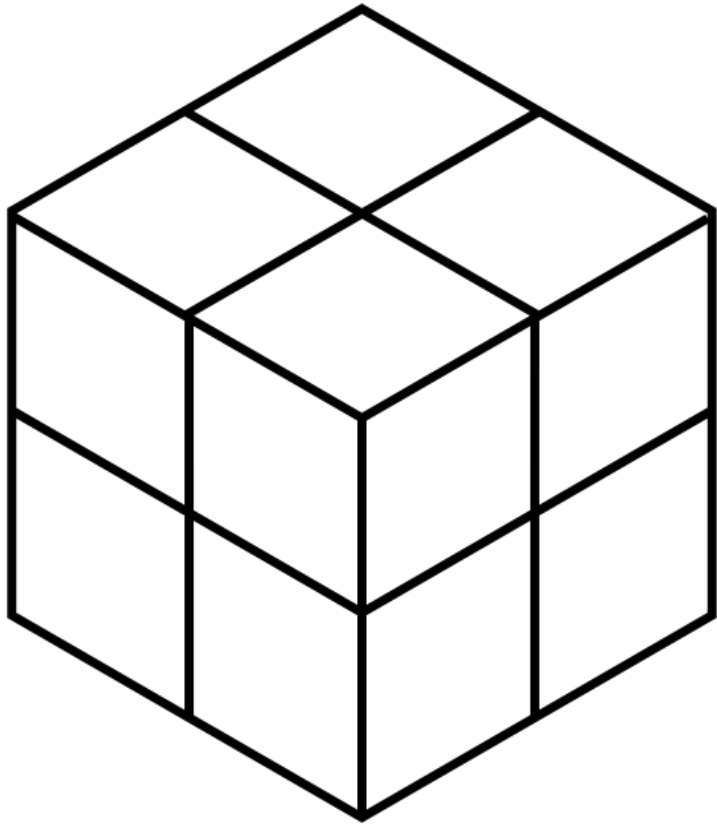




community standards for **3D data** preservation



An IMLS funded project



What we mean by Digital 3D Data

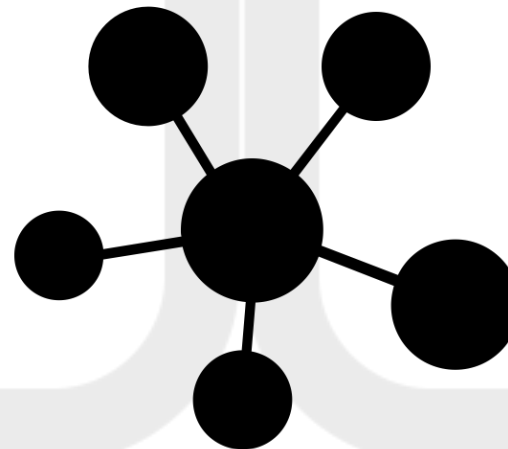
- Mathematical representation of an object in three dimensions.
- The model can be solid (volumetric) or surface
- Based on reality or generated from source material
- Models are often iterative
- Data can encompass many parts aside from a derivate you might encounter (e.g., stl file for printing)

3D Data Boom

- Equipment is improved
- More cost effective
- Models produced are better

Data Curation Priorities

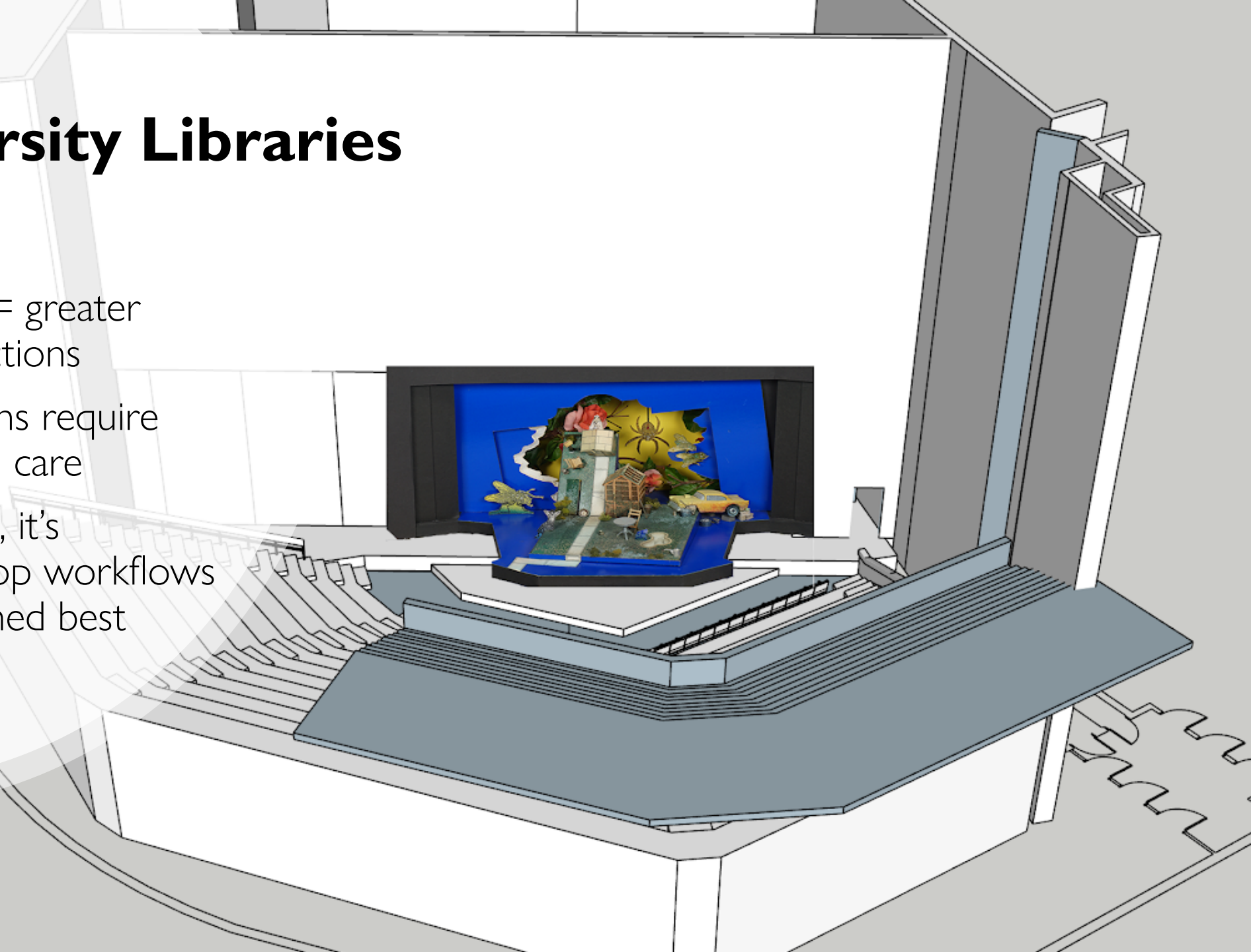
- Institutions begin prioritizing data curation as part of the mission
- 2/3 of ARL libraries are developing data curation services (ARL SPEC Kit 354)
- Curation includes the selection, management, sharing, and preservation



In the University Libraries

Data we create:

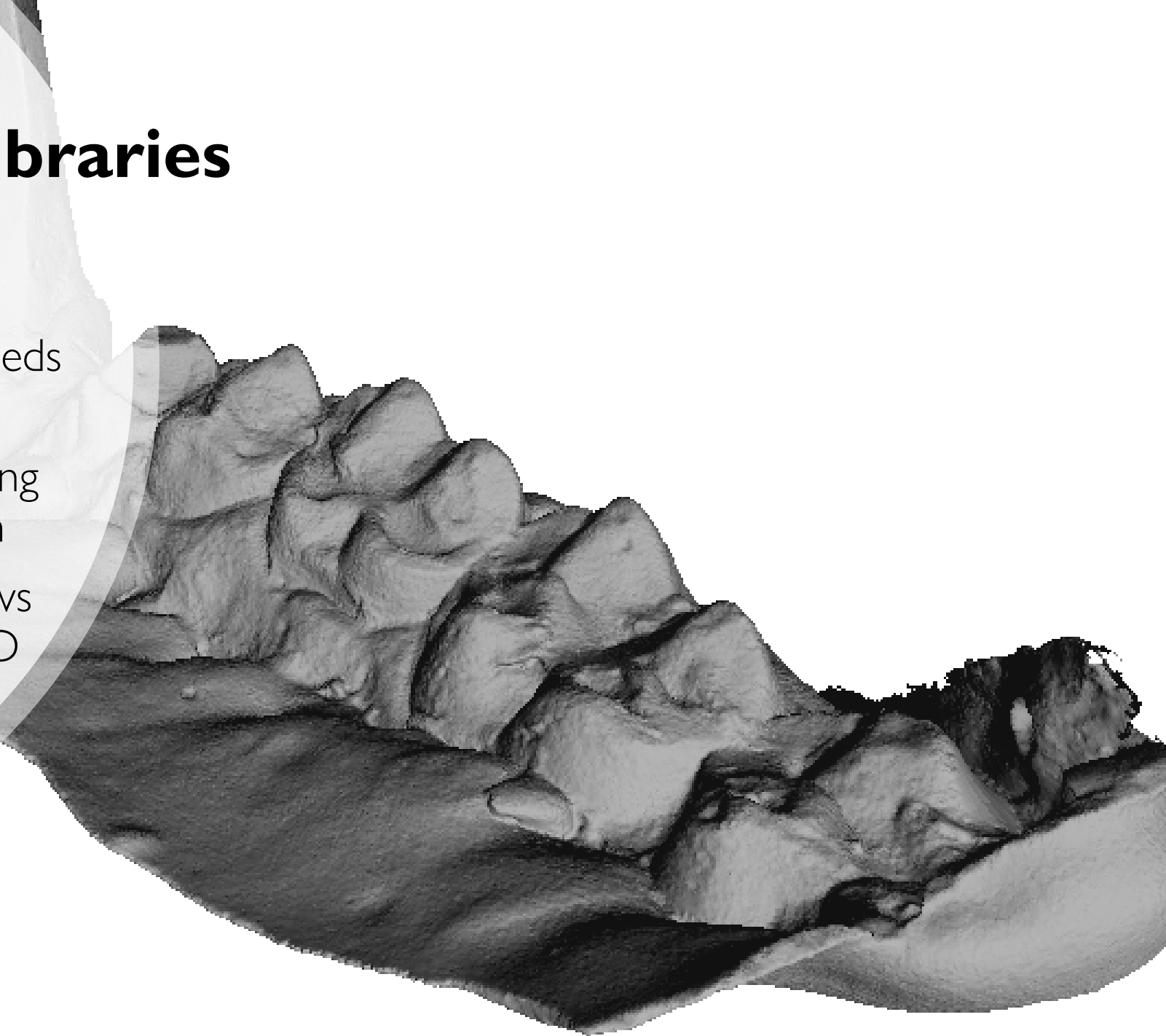
- 3D virtual exhibits = greater access to our collections
- Digital 3D collections require knowledge, skill and care
- As will other media, it's important to develop workflows that follow established best practices



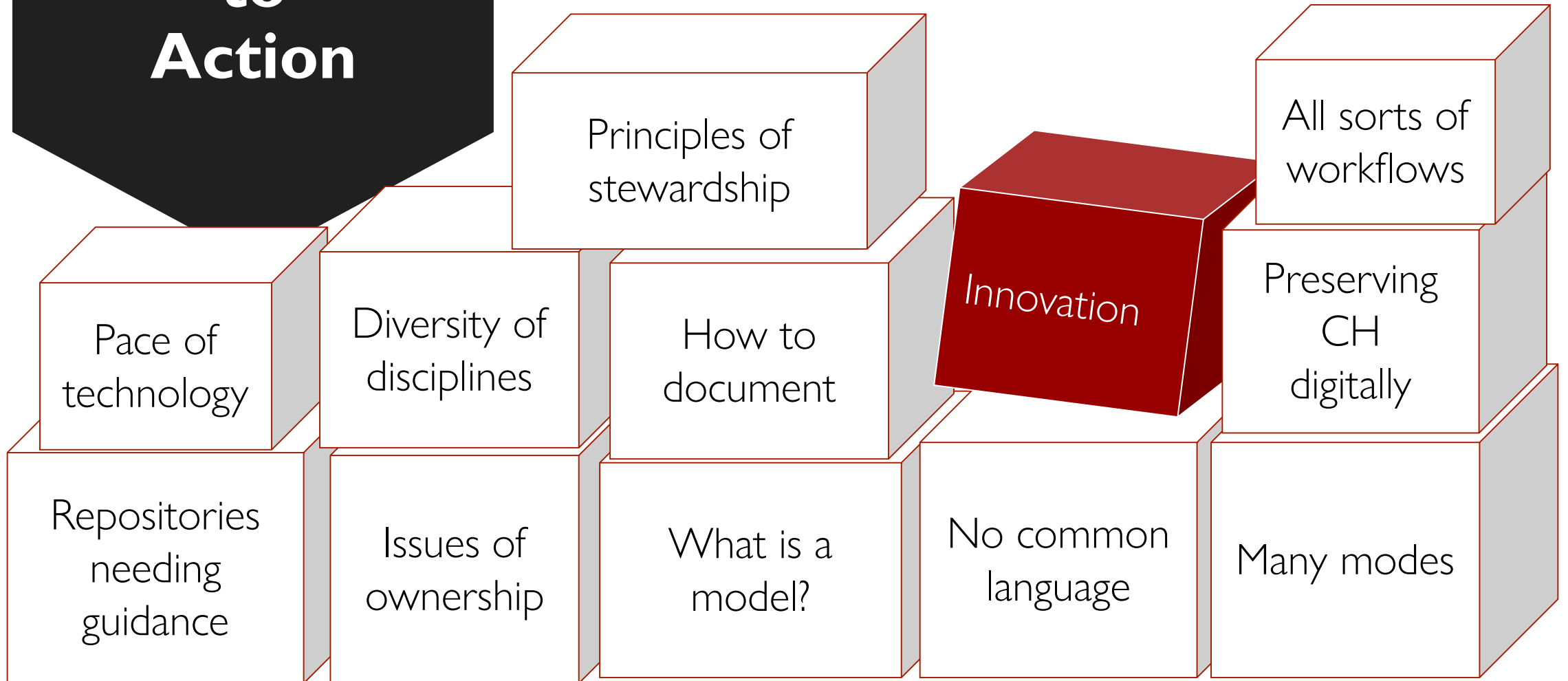
In the University Libraries

Data we curate:

- We must meet the curation needs of our researchers
- Researchers are increasingly using 3D data which require curation
- Current data curation workflows cannot address all aspects of 3D data curation



Prelude to Action





community standards
for **3D data** preservation

CS3DP Project

Jennifer Moore, Washington University in St. Louis Libraries

Hannah Scates Kettler, University of Iowa Libraries Digital Scholarship & Publishing Studio

Adam Rountrey, University of Michigan Museum of Paleontology & UMORF

Survey of the Community

- 72% do not use best practices (BP) or standards
- Of this group, 69% said it was because they were unaware of any
- Those who use BP largely developed them in-house
- 85% of all respondents want to develop standards & best practices as a community



community standards
for **3D data** preservation

Not Using Standards



Collaboratively Build Standards





community standards
for **3D data** preservation

Other Funded Projects

- **Lib3DVR** - Exploring ways in which 3D data projects and products might be addressed in libraries
- **Building for Tomorrow** - Exploring standards for architectural data
- **Data Curation Network** - Creating a network of data curators to share curation expertise for complex data types

CS3DP Trajectory



community standards
for **3D data** preservation

Best Practices

Management

Metadata

Copyright
Ownership

Access
Discovery

Stakeholders

Rights

Format

Preservation Intervention Points

Good | Better | Best

Paradata/Metadata/Documentation

Glossary



community standards
for **3D data** preservation



community standards
for **3D data** preservation

Metadata

- Metadata implications by stakeholder
- Defining categories
- Identifying fields in categories
- Recommendations within Digital Asset Lifecycle
- Recommendation for structural relationships
- Good/better/best metadata



community standards
for **3D data** preservation

Management

- 3D Repository Requirements
- Cost models
- Format definition
- Size constraints
- Platforms
- Creator view on repos
- Creator view on data longevity
- What's in a SIP
- Retention policy



community standards
for **3D data** preservation

Best Practices for Preservation

- Creator Focused
- Good/better/best
- DPLC
- OAIS/TDR complaint guidelines for 3D
- Preservation Intervention Point (PIP)
- Recommendations based on implementation level
- Flexible, high-level preservation framework for 3D
- Case studies



community standards
for **3D data** preservation

Rights and Ownership

- General background
- Analyze categories of 3D data to determine rights/ownership issues
- Review court opinions relevant to 3D Data
- Outline fair use in 3D
- Contractual restrictions
- Ethical guidelines
- Case Studies as examples



community standards
for **3D data** preservation

Access/Discoverability

- Audiences for 3D data
- Data requirements
- How users discover 3D Data and underlying sources
- How are users USING 3D Data
- Evaluate impact of digital divide



community standards
for **3D data** preservation

Glossary

What do we mean when we say:

- Model
- Metadata
- Paradata
- VR
- Platform
-

Can we come to agreement?



community standards
for **3D data** preservation



cs3dp.org



Apply for funding to support efforts attempting to implement recommendations
Or
Set up non-profit organizations



community standards
for **3D data** preservation

Thank you!

Questions:

Jennifer Moore

j.moore@wustl.edu



community standards
for **3D data** preservation