

Preservation, Access,
and Reuse:
Advancing 3D and VR
Strategy in the Research
Library



Overview and Goals

01

Form holistic knowledge from normally siloed areas of 3D/VR

02

Develop best practices to support 3D/VR throughout the research lifecycle

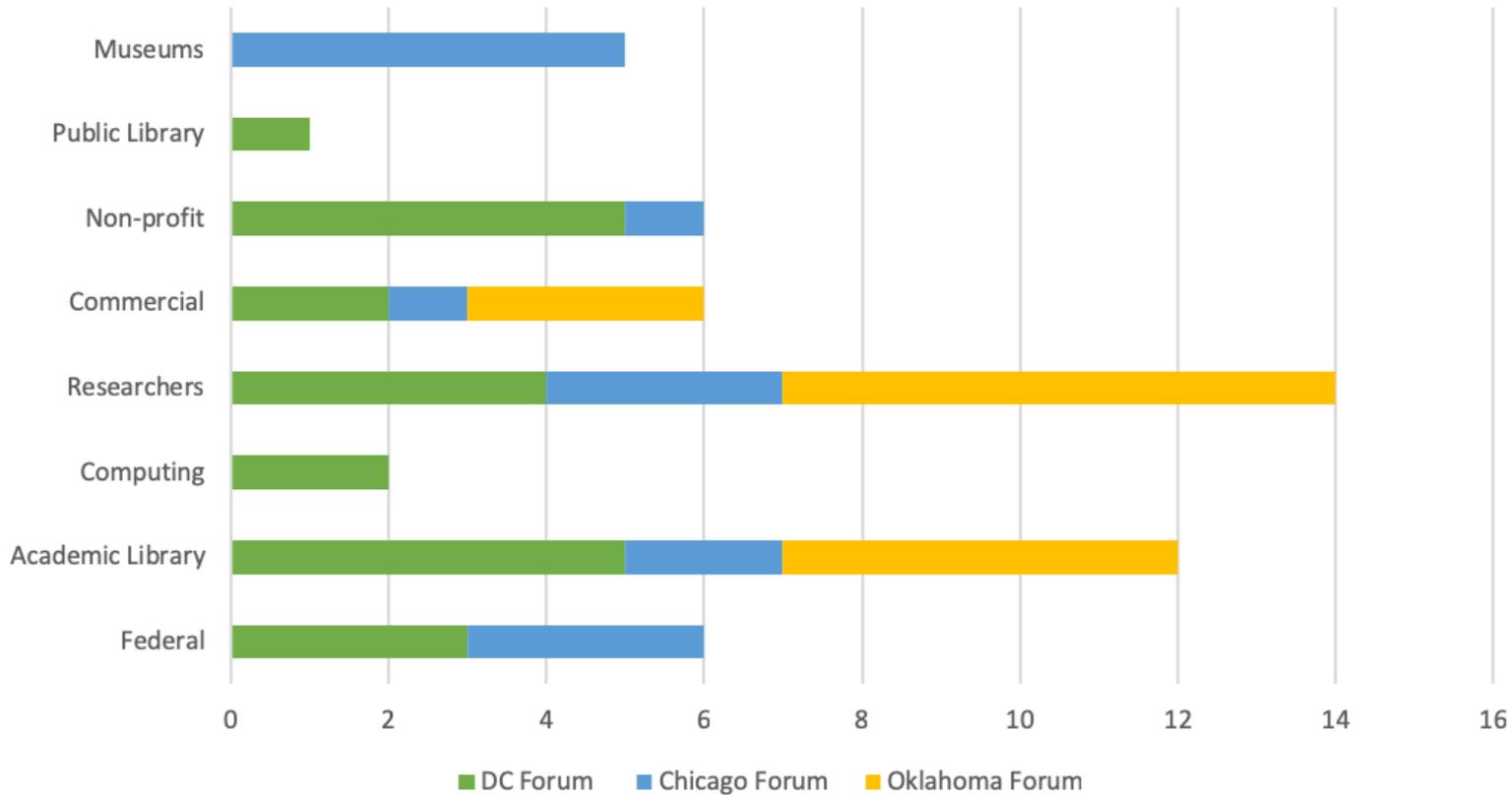
03

Establish guidelines that can serve multiple research contexts and use cases that libraries may need to support as researchers increasingly adopt 3D/VR as a research tool.

04

Develop strategies that libraries can use for creating policies and workflows for providing 3D/VR related research services.

LIB3DVR Forum Participants



Participants



■ Social and Behavioral Sciences

■ Physical Sciences and Mathematics

■ Life Sciences

■ Arts & Humanities

■ Engineering

■ Architecture

High Level Overview of Forums

Washington DC Forum: 3D/VR Content Creation and Publishing: 3D scanning and modeling. Storage, access, and management. Integration of 3D data into existing research and scholarly communication services. Metadata requirements

Oklahoma Forum: 3D/VR Visualization and Analysis: 3D/VR tools, Using VR to support other library services, human centered issues of 3D/VR technology use. Modifying/repurposing 3D models

Chicago Forum: 3D/VR Repository Practices and Standards: National Repository and Preservation Efforts. 3D/VR repository policies and practices. Implications for different levels of library support. Implications for existing digital preservation models and practices



Forum 1

Content Creation and Publishing



Forum 1
Concerns

**Program Planning
and Resources for
Reuse**

**Cost, Value, and
Challenges of
CT/volumetric
capture**

**Resources for
storage, access, and
management**

**Research Data
Quality**

**Citation Practices
and Indexing**

**Existing
Infrastructures,
Practices, and
Cultures**

**“Evolving”
Licensing
Agreements**

**Respecting Cultural
Protocols**

**Unclear Legal
Status of 3D Data**

Forum 1 Findings



**Providing Sustainable
Archiving Infrastructure**



**Archiving and Describing
3D/VR**



**Providing Tools to
Researchers**



Forum 2

3D/VR Visualization and Analysis

Forum 2 Findings



**Good documentation
practices**



Ethics & Licensing



**Transparency &
reproducibility**



Forum 3

3D/VR Repository Practices and Standards

Forum 3 Findings



Searchability



Ownership & security



**Streaming & download
capacity**



Intellectual Property



Building Rome on a Cloudless Day



Fig. 1. Example models of our method from Rome (left) and Berlin (right) computed in less than 24 hrs from subsets of photo collections of 2.9 million and 2.8 million images respectively.



tinyurl.com/y2e6l4bv

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