Florida State University Libraries

2016

Collections Cubed Survey Instrument (2015)

Richard J Urban



Introduction/Consent

Welcome to the Collections Cubed 2015 Survey of 3D Technologies for Scientific and Cultural Heritage



Print Ready Model of the Lincoln life mask by Clark Mills Courtesy SmithsonianX3D collection. http://3d.si.edu

Recent advances in the technologies needed to scan, publish, and physically render objects in three dimensions (3D) are now within reach of many scientific and cultural heritage organizations. The Collections Cubed project (#collections3D) seeks to understand how these new technologies are being adopted and used by libraries, archives, and museums in pursuit of their missions. The following survey will inquire about your organization's current and/or planned future use of 3D technologies (digitization, publication, and printing). It is intended to be answered by individuals who are knowledgeable about these technologies.

Informed Consent

I have been informed that Dr. Richard J. Urban from the School of Information at Florida State University is conducting a research project to understand the adoption and use of 3D technologies by libraries, archives, and museums in pursuit of their missions.

I understand that my participation is totally voluntary and that I may stop participation at anytime. I understand there are no risks or discomforts if I agree to participate in this study. I understand that participating in this research means completing a short, online survey that should take approximately 15-20 minutes of my time. Submitting personally identifying information is optional, and volunteered information will be kept confidential, to the extent allowed by law. Survey data will be kept in a secure location accessible only to the researchers, and will be destroyed by January 1, 2018.

If I have questions about my rights as a participant in this research, or if I feel I have been placed at risk, I can contact Dr. Richard J. Urban at (850) 778-3559, or the Chair of the Human Subjects Committee, Institutional Review Board, through the Office of the Vice President for Research at Florida State University at (850) 6448633 or by email at phaire@mailer.fsu.edu. Additional information on human subjects can be found at the Office of Research Human Subjects Committee home page located at http://research.fsu.edu/humansubjects/

By continuing to the next page, I am stating that I have read and understand this consent form, and I freely, voluntarily, and without element of force or coercion consent to participate in this study. I understand this consent may be withdrawn at any time without prejudice or penalty, and that I have the right to ask and have answered any inquiry concerning the study.

Organization Information

In this first section of the surv your organization.	ey, please provide us with some background information on
Please provide some basic ir	nformation about your organization:
Organization Name	
Website URL	
What type best describes you	ur organization?
Archive	□Museum
Library	Other. Please describe.
You selected archive in the p organization?	revious question. What type of archive best describes your
College and university archives	Museum archive
OCorporate archives	OSpecial collections
OGovernment archives	Other. Please describe:
OHistorical society	

organization?	what type of library best describes your
OAcademic library	OSchool library
OArt library, visual resources, or museum library	Special library or collection
OCorporate library	Other. Please describe:
You selected museum in the previous question organization?	on. What type of museum best describes your
OAntropology/Ethnographic museum	OHistorical society
OAquarium/Botanic garden/Zoo	Natural history/science museum
OArt museum	National park
OChildren's museum	Science/technology center
OHistoric house/site	Other. Please describe.
How many full-time employees comprise you	r organization (FTE)?
O Less than 5	
O 6-10	
O 11-25	
O 26-75	
O 76-150	
O 151 - 250	
O 251 - 500	
O 501 - 1,000	
O 1,001 - 1,500	
O More than 1,500	
What is your annual budget?	

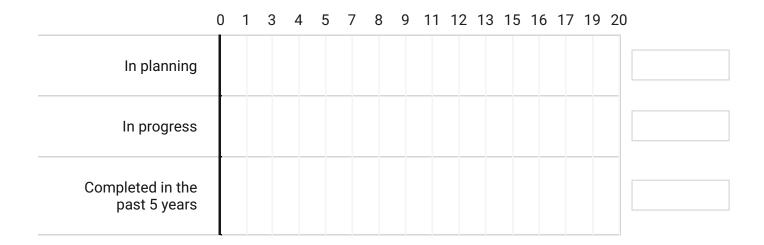
O Less than \$250,000

Please provide a brief description of the type and size of your collections.	
O More than \$25,000,000	
\$10,000,001 - 25,000,000	
\$5,000,000 - 10,000,000	
\$1,000,000 - 5,000,000	
O \$750,001 - 1,000,000	
O \$500,001 - 750,000	
O \$250,000 - 500,000	

3D Digitization Practices

In this section of the survey, please tell us a little bit about projects that your organization has undertaken to digitize your collections in order to create 3D representations of them.

Please indicate the number of 3D digitization projects you have in each of the following stages:



What types of resources have been the focus of your digitization efforts? Please provide approximate numbers of items digitized.

0	3-dimensional artifacts (sculptures, histo	oric artifacts,material culture,paintings, etc.)	
0	3-dimensional naturefacts (natural science specimens, fossils, geologic specimens, etc.)		
0	historic/archeological sites and structures (geographic features, buildings, monuments, etc.)		
0	Plans, drawings, or other 2D resources ((architectural drawings, engineering drawings, conceptua	
rt, et	0.)		
0	Other		
		_/,	
/hich	of the following digitization method	ds have you used? Please check all that apply.	
CAE	D/3D modeling	Photogrammetry (e.g. 123DCatch, etc.)	
Cor	tact scanning	Structured-light scanning (e.g. Microsoft Kinect)	
Computed Tomography (CT) scanning		☐ 3D models derived from digitized 2D resources	
		Other. Please Describe.	
Las	er surface scan - long range (e.g.		
puls	se/phase scanners used for structures, sels, archeological sites and monuments,		
etc.			
		//	
	er surface scan - short range (e.g. handheld	d	
	ixed laser scanners for smaller movable ects)		
11 ₂	file formants our read to the first terms.		
	=	zed 3D collections at your organization? These nany file formats available, please feel free to	
	le others that are not included here).	· ·	
).3ds	s (Autodesk 3D studio)	☐.iges (initial graphics exchange specification)	
	ii/text	□.skp (sketchup)	
obj. ((wavefront object)	step (standard for the exchange of product data)	
vlq. [(polygon file format)	.vrml (virtual reality markup language)	

	Other. Please describe.	
.pdf (3D PDF)		
.stl (stereolithograph)		
What kind of software does your organizati resources?	on use to create or manipulate 3D digital	
□123D	☐ MeshLab	
□AutoCAD	OpenSCAD	
AutoDesk	Rhino	
	Other. Please describe.	
Blender		
	//	
FreeCAD		
Provide a brief description of the rationale f collections been the focus of your work?	for your 3D digitization efforts. Why have these	
	//	

How are 3D digitization projects funded at your organization? (e.g. internal operating expenses, soft-funded grants, etc.)

	ike for your organization? Please provide a brief and methods used at your organization. (e.g. steps quality control, etc.)
ccess to 3D Resources	
In this section of the survey, please tell us digitization projects to internal and extern	how you provide access to the results of your 3D al audiences.
How does your organization provide acce	ess to 3D digital resoruces?
☐ Limited access to select internal users	☐ Public access via the Internet
	Other. Please describe.
Limited access to select external audiences (researchers, other museums, consortia, etc.)	(i.e.

What technologies does your organization use to store and manage 3D resources for internal audiences or limited access to external audiences. (i.e. file systems, digital asset management, databases, collection management systems, etc.)

What technologies the Internet or for	s does your organiza public audiences. (i	ation use to provi i.e. content mana	de public access gement systems	to 3D collections via s, 3D viewers, etc.)
Please provide UR	L(s) for any collection	ons of 3D resourc	ces published via	the Internet
URL 1				
URL 2				
URL 3				
URL 4				
Click to write the c	question text			
URL 5				
URL 6				
URL 7				
URL 8				

What metadata standards does your organization use to describe 3D resources?

☐ Darwin Core	MARC	
☐ Dublin Core	□MODS	
☐ Europeana Data Model (EDM)	□VRACore	
☐ Locally defined metadata	☐ Other	
What kinds of intellectual proper	rty licenses govern the use of published 3D resources?	
☐ All rights reserved	Locally defined Terms of Use (provide a URL if possible)	
☐ Creative Commons	Other licensing framework (e.g. BSD, GPL, MIT, etc.)	
☐ Public Domain		
Which printers (manufacturers)	does your organization use?	
☐ 3D Systems	Stratasys	
LulzBot	Zcorp	
☐ MakerBot	□None	
	Other. Please describe.	
RepRap		
If your organization uses 3D prir	nters, which audiences have access to them?	
☐ Internal audiences		
Patrons and visitors		
□ None		
Other audiences. Please describe	<u>ə</u> .	

se of	3D Digitization Resources
	is section of the survey, please tell us about how 3D resources are used to support your inization's mission.
	cribe how 3D resources are used to support your mission (e.g. curatorial, education, arch, etc.)
	is your organization evaluating the use of 3D resources by internal and external ences?

Conclusion

What barriers or challenges has your organization encountered while creating, publishing, or using 3D resources?

		, publication, and use of 3D resources? g individuals or organizations, etc.)
Are there other library, archiv aspirational examples? (plea		
_	-	d/or participate in interviews about my ept confidential and participation is
First Name		
Last name		
email		