









Overview

Communicating heritage

- Setting up a desktop studio
- Photogrammetry workflow
- Software processing
- Metadata and Archiving
- Making Digital Galleries
- Social Archiving and Social Media





What are the benefits of digitising movable heritage

- Easy to share, disseminate and access remotely
- Be in more than one place at a time
- Provides a record of the state of the artefact at that given time
- Use for promotion of the museum and unique heritage
- Digital representation can be modified
 - Non-destructive
 - Adding colour
 - Reconstructing shape

Type of Media

- Photograph
- 3D Model
- Video
- Preserving to former state
- Mixed media

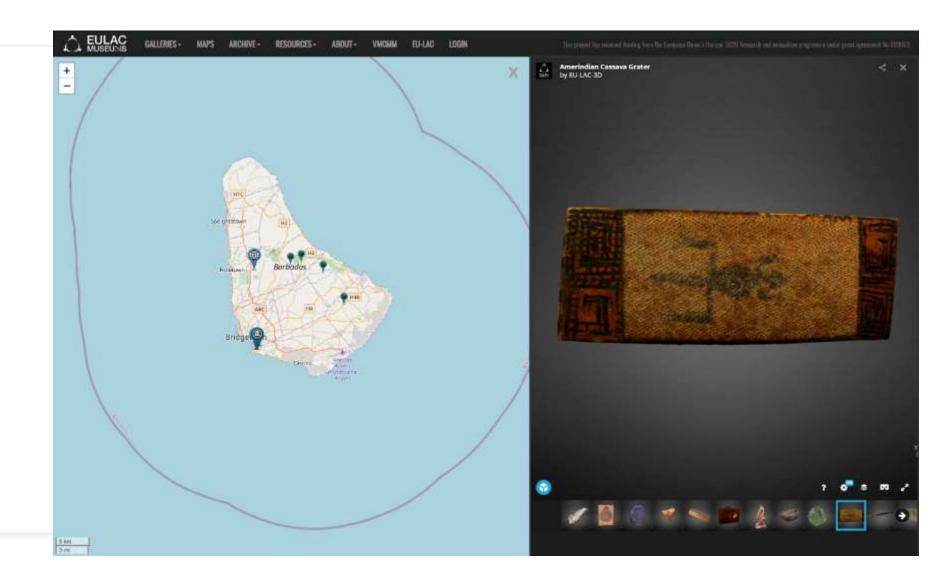






Context

- Timeline
- Мар
- Gallery
- Scene



Engagement

- Metadata
- Linear
- Gallery
- Interactive





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- Camera /mobile phone
- Tripod
- Clicker
- Turntable
- Lightbox
- Lights



Desktop Studio

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Photogrammetry Workflow

- ObjectSelection
- Camera set up
- Shoot photos
- Process photos

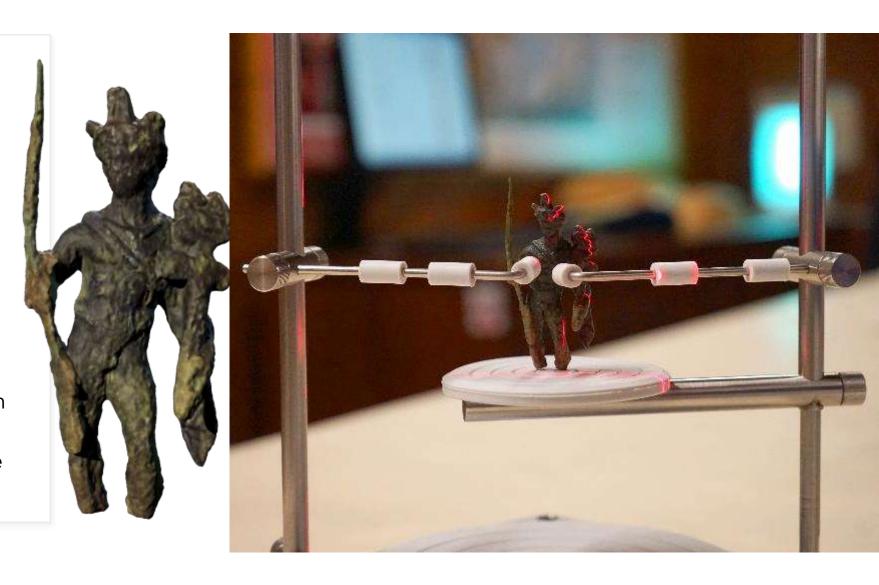


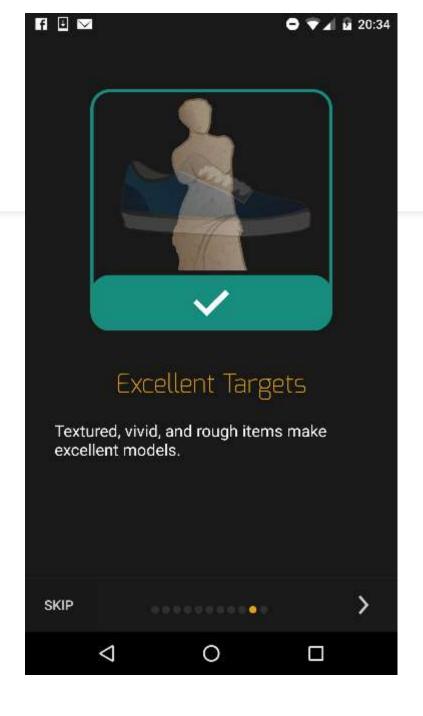


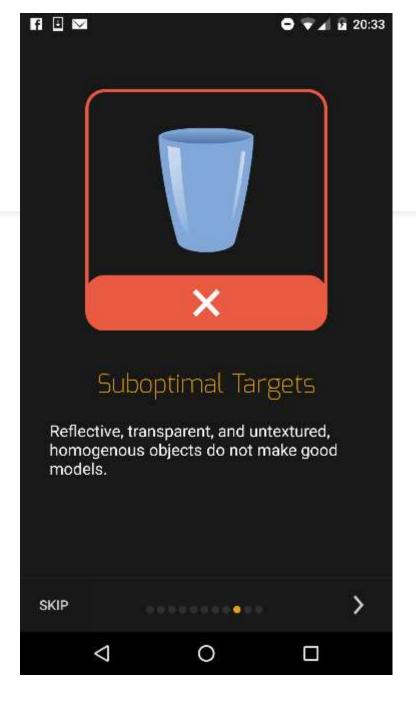
Artefact Selection

Artefact selection

- Digitises well
 - Matte surfaces
 - Fixed position
 - Little occlusions
 - Appropriate Size
 - Features
 - Robust
- Digitises with more difficulty
 - Highly reflective, moving parts, featureless
- Start with easy objects, can build to more difficult objects with more practice and successes





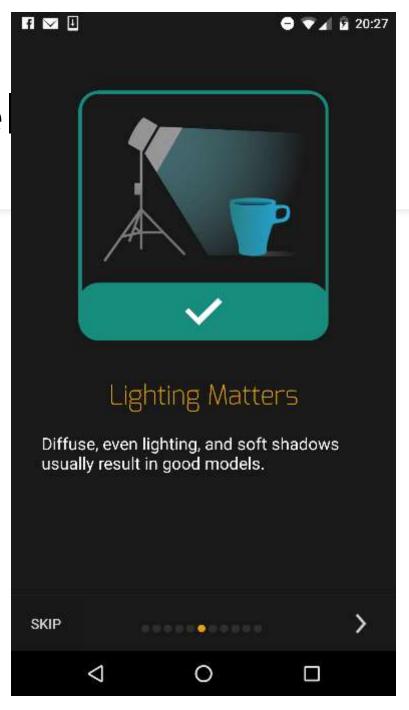


- Soft Flat Lighting
- Camera on fixed manual settings
 - Mobile phone (Pro settings Android, 3rd party app IOS -ProCam6, VSCO)
 - Narrow aperture (higher f-number, f/)
 - Low ISO
 - Long exposure
 - Fixed white balance
- Use a tripod for stability



Camera Set Up

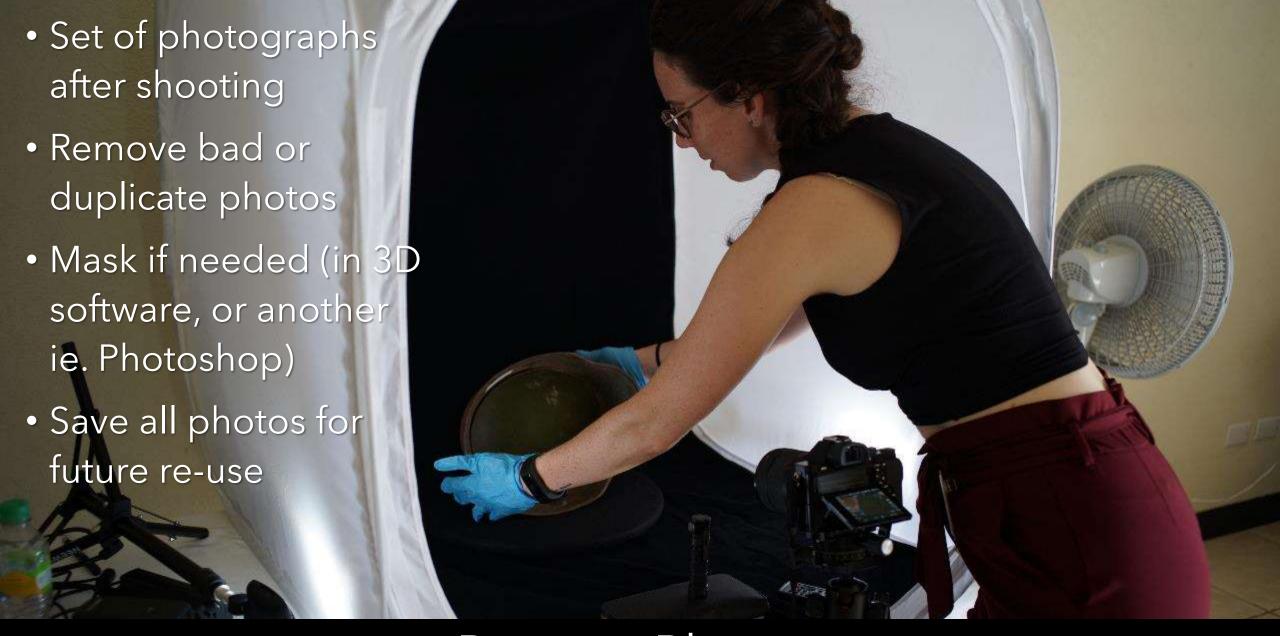
Se







Shoot



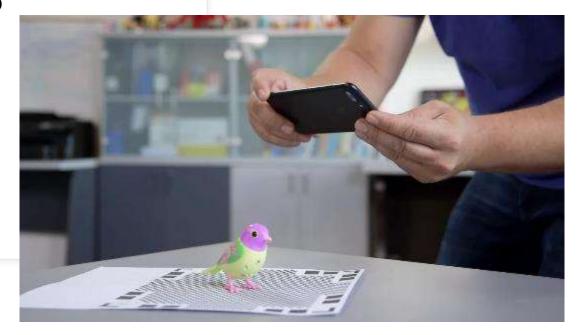
Process Photos

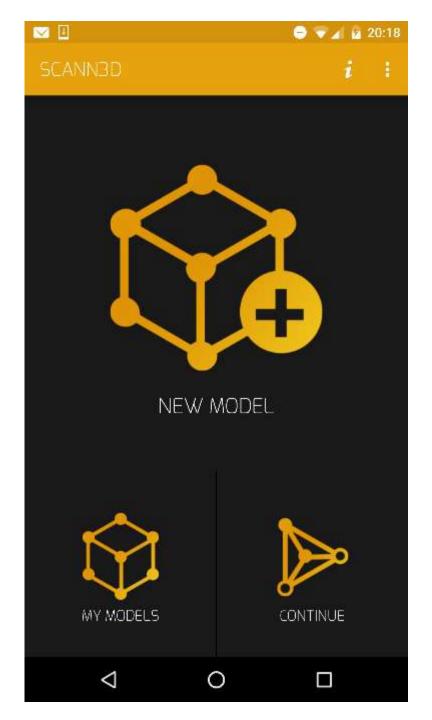


3D Scanning Mobile Apps

- Trnio
- Qlone
- Scandy Pro
- Sony 3D Creator

• SCANN3D





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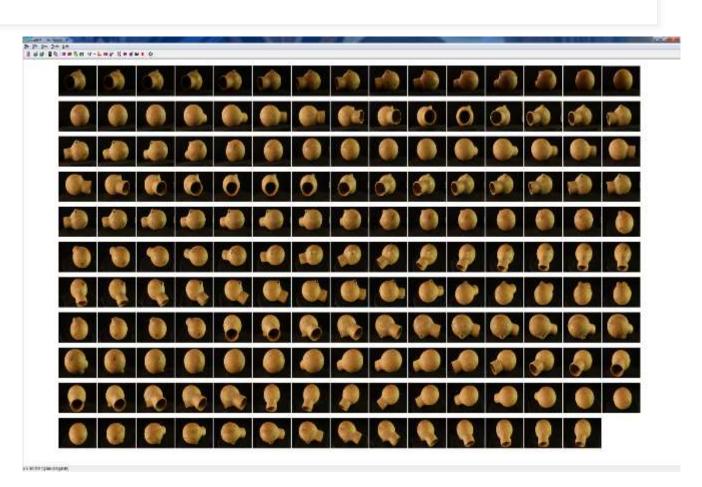
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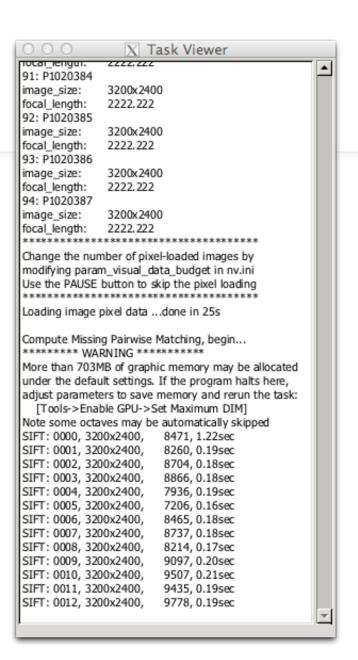
Processing: artefacts with Visual SFM & Meshlab

- Download Select and import pictures
- Remove bad pictures
- Ensure complete coverage and overlap
- 60-100 should be plenty, depending on object structure
- Lower resolution images (1280*980) may work better



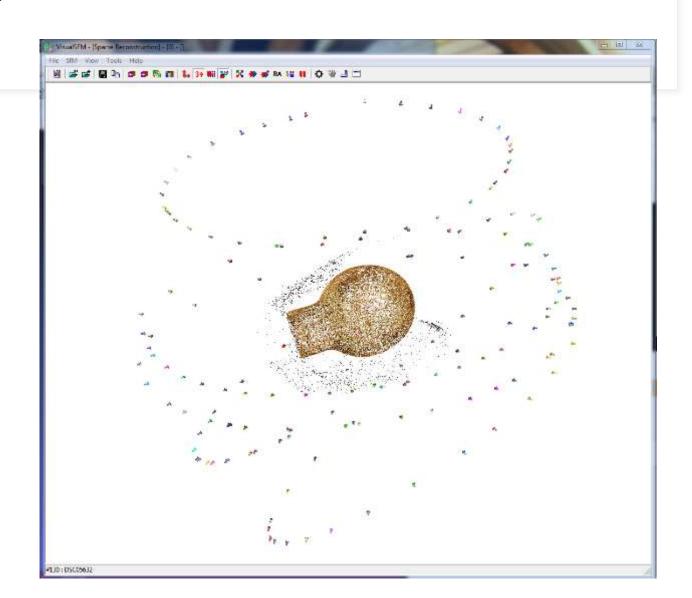
Processing: artefacts with Visual SFM and Meshlab

- Sift and match
- Create a Sparse points cloud
 - Check and remove bad camera locations
- Create a Dense points cloud



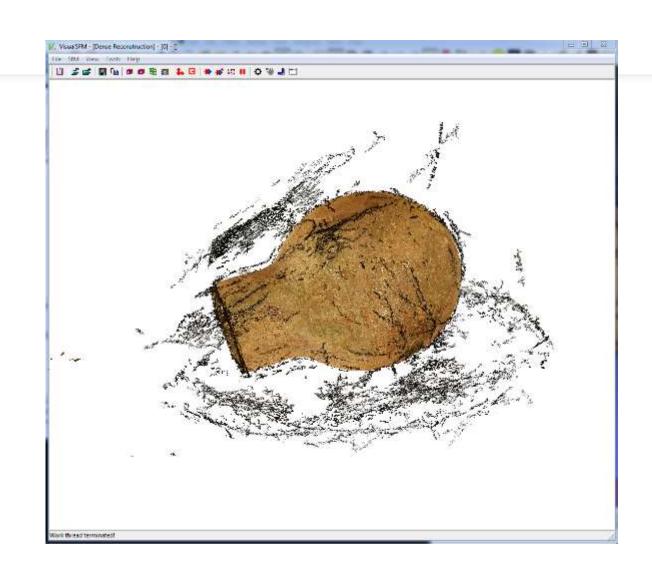
Processing artefacts

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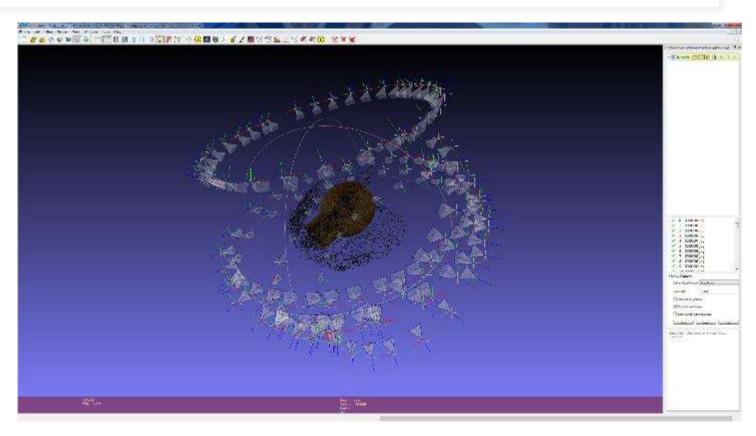


Processing artefacts

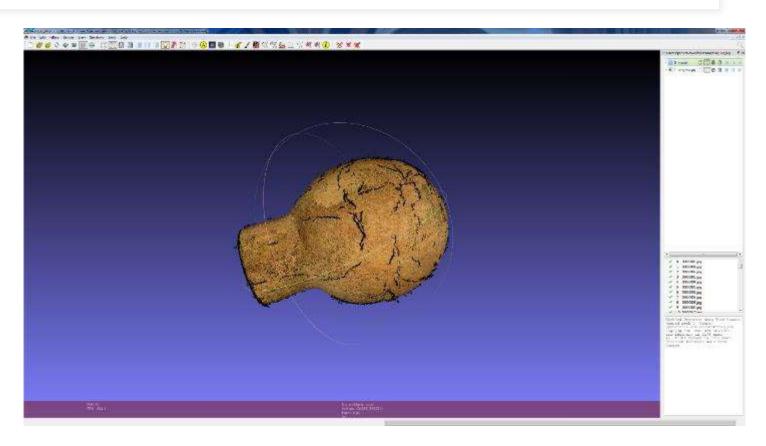
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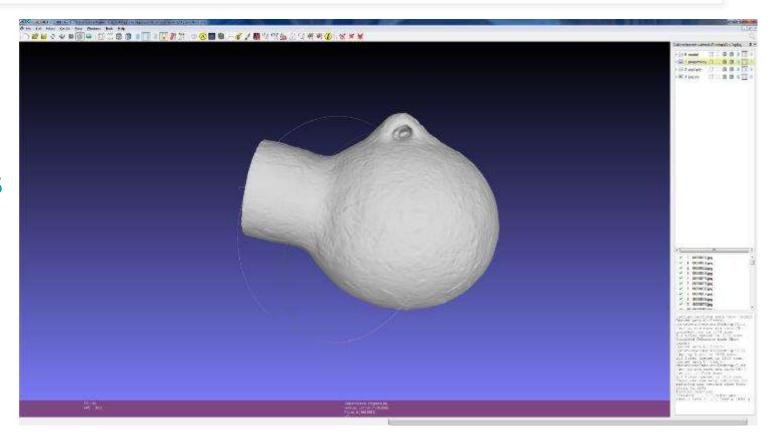
- Import points clouds into meshlab
- Delete unwanted points
- Create mesh from points
- Clean up mesh
- Apply textures
- Export model



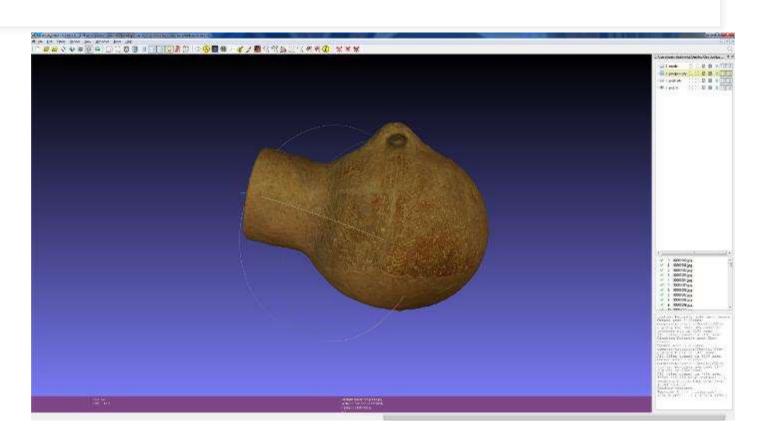
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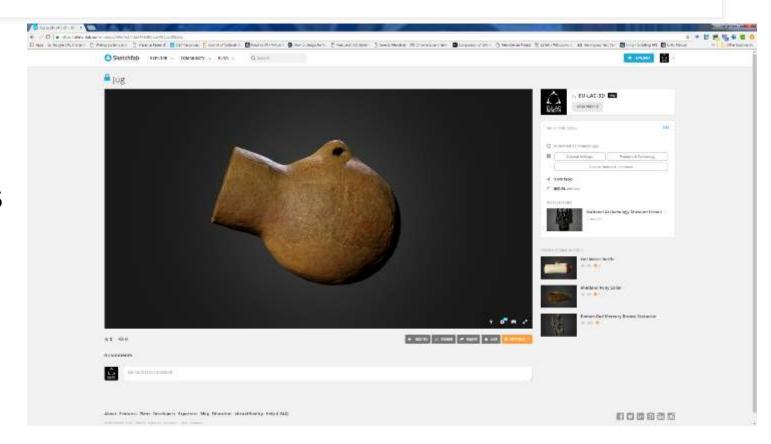
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Metadata

- metadata
- 'mɛtədeɪtə/
- noun
- noun: meta-data
- a set of data that describes and gives information about other data.

- Contains relevant information
- Easy to enter/make
- Provide context
- Provides meaning
- Make the data discoverable
- Consistent with open standards



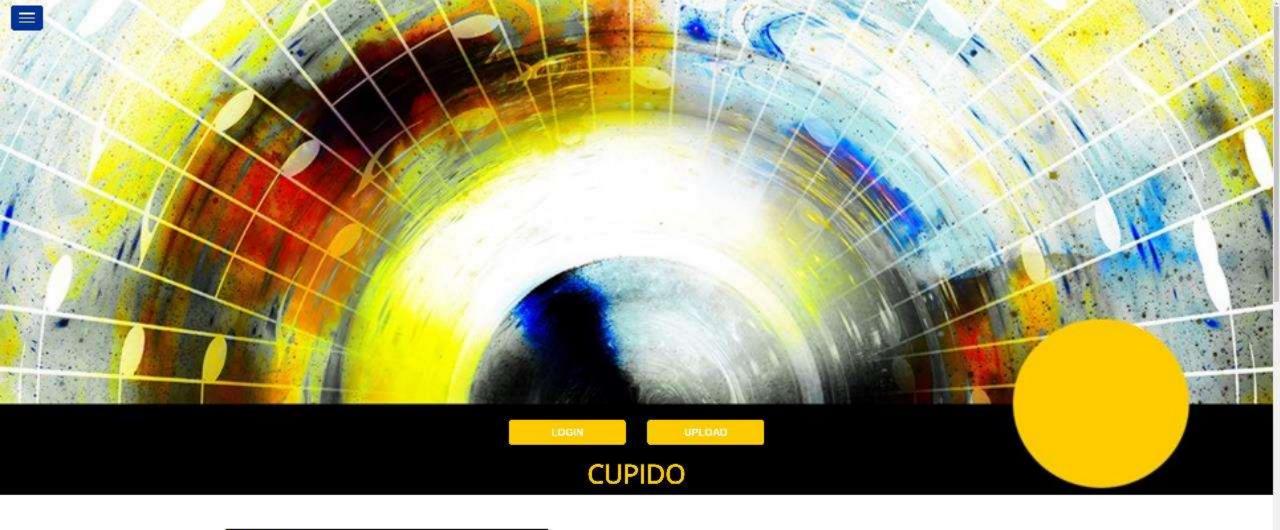
Requirements



Interpretation

Dublin Core Meta Data Initiative

- http://dublincore.org/
- http://dublincore.org/documents/dces/
- ISO Standard 15836:2009 of February 2009 [ISO15836]
- ANSI/NISO Standard Z39.85-2012 of February 2013 [NISOZ3985]
- IETF RFC 5013 of August 2007 [RFC5013]



EXHIBITS

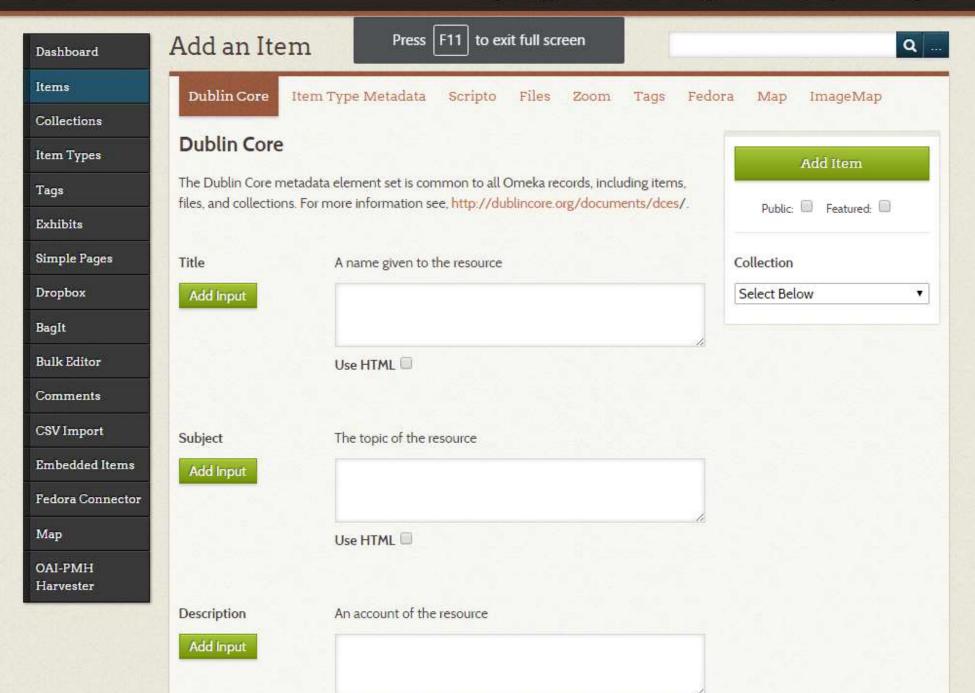




Movable Heritage Upload Form

Form Type	Movable Heritage								
Name:	Name								
Media:	Biscuit Box ▼		Primary Media:	Biscuit Box		•			
		Add Media			Refresh List				
Subject:	Culture					•			
Tags:									
Description:	Description								
Maker/Creator:	Person, Organizatio	n or Culture	Creation Date:	Dale or Era ol	Date or Era of Creation				
Material:	The material the obj	ect is made of							
Source:	Information source								
References:	References								
Size:	width	height	depth	cm	~				
Language:	English								
Location:	GI GI		Current:	Latitude Latitude	Longitude				
100	Karistiko Arquert		Find:	Latitude	Longitude				

Find: C Latitude Longitude Longitude



Item Types

EU-LAC Plugins Appearance Users Settings Welcome, Super User Log Out

Dashboard	Add to Ton							
Items Add an Item Type								
Collections	Type Name	Description	Total Items					
Item Types	Text Edit	A resource consisting primarily of words for reading. Examples include books, letters, dissertations, poems, newspapers, articles, archives of mailing lists. Note that facsimiles or images of texts are still	0					
Tags	Lait	of the genre Text.						
Exhibits	Moving Image	A series of visual representations imparting an impression of motion when shown in succession.	0					
Simple Pages	Edit	Examples include animations, movies, television programs, videos, zoetropes, or visual output from a simulation.						
Dropbox	Oral History	A resource containing historical information obtained in interviews with persons having firsthand	0					
BagIt	Edit	knowledge.						
Bulk Editor	Sound Edit	A resource primarily intended to be heard. Examples include a music playback file format, an audio compact disc, and recorded speech or sounds.	0					
Comments	Still Image	A static visual representation. Examples include paintings, drawings, graphic designs, plans and	0					
CSV Import	Edit	maps. Recommended best practice is to assign the type Text to images of textual materials.						
Embedded Items	Website Edit	A resource comprising of a web page or web pages and all related assets (such as images, sound and video files, etc.).	0					
Fedora Connector	Event	A non-persistent, time-based occurrence. Metadata for an event provides descriptive information	0					
Map	Edit	that is the basis for discovery of the purpose, location, duration, and responsible agents associated with an event. Examples include an exhibition, webcast, conference, workshop, open day,						

Archiving

- Archive high definition model
- Where possible include original photographs
 - This will future proof the artefact and enable it to be used in future platforms
 - Use for 2D digital collections
- Make accessible through upload:
 - SketchFab
- Include metadata in particular location

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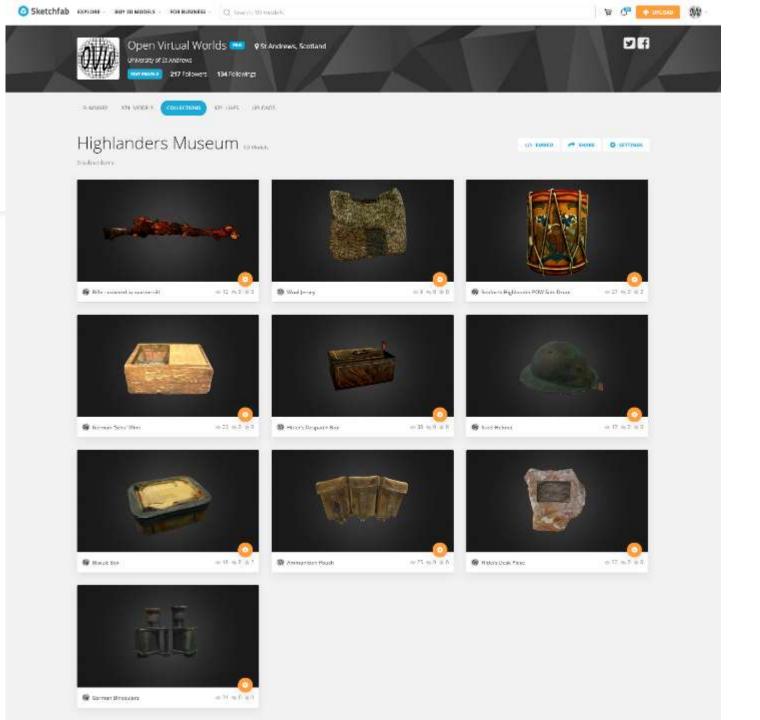
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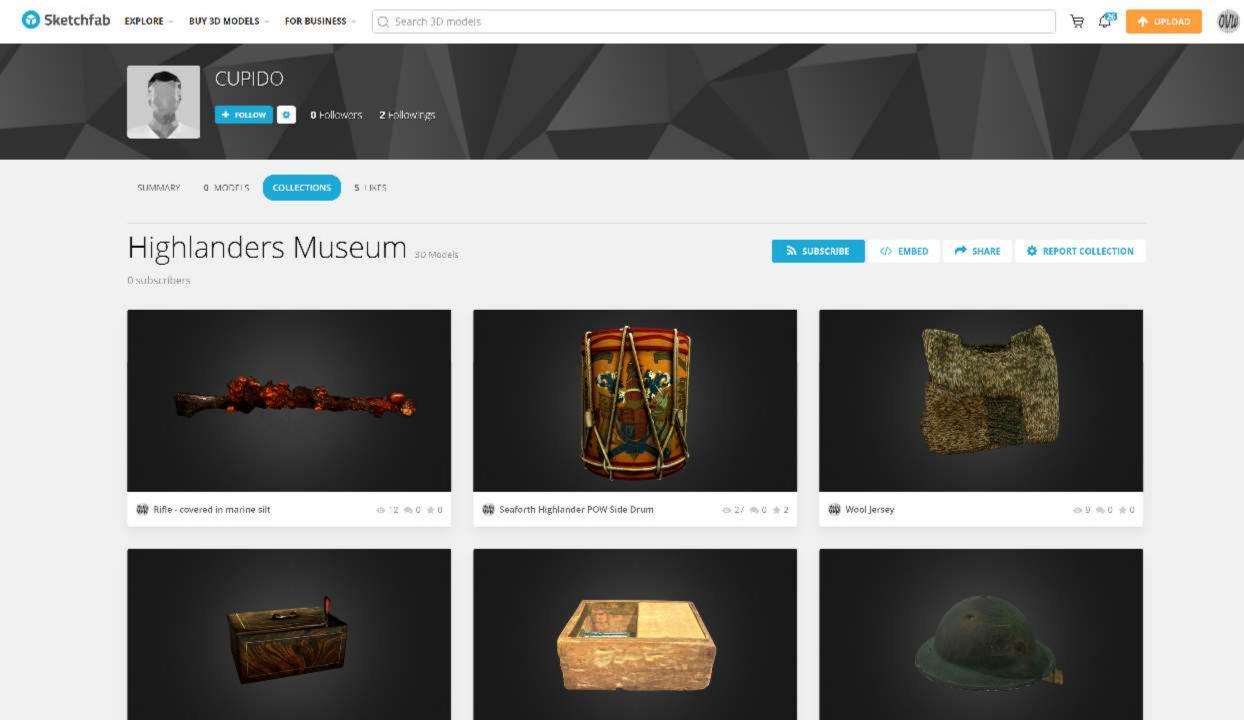




Exhibits

- Virtual
 - Artefact Galleries
 - Virtual Reality
 - Museum without walls
 - Wiki
- Physical
 - 3D Printing







Sketchfab EXPLORE -

SUMMARY

BUY 3D MODELS - FOR BUSINESS

Q Search 3D models





207 MODELS

144 LIKES

UPLCADS

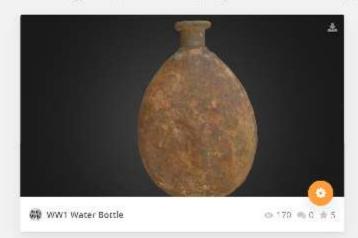
Taigh Chearsabhagh Museum and Arts Centre Scotland 30 Models



0 subscribers

Taigh Chearsabhagh Museum & Arts Centre is the arts and heritage centre for the Uists. Throughout the year we have visual art exhibitions, poetry and literary events, traditional music events and small festivals. We host world class contemporary art exhibitions, we have an award winning museum, we work with local and international artists, academics and writers. We also have a strong and growing specialism in film.

Taigh Chearsabhagh sits on the solid rock overlooking the tidal bay that is Lochmaddy (Loch nam Madadh - the Loch of the Dogs), Our organisation is community focused, offering a stimulating and dynamic cultural programme of activities all year round for the people of Uist and visitors. We are proud of our reputation as a haven for visitors and creative practitioners.

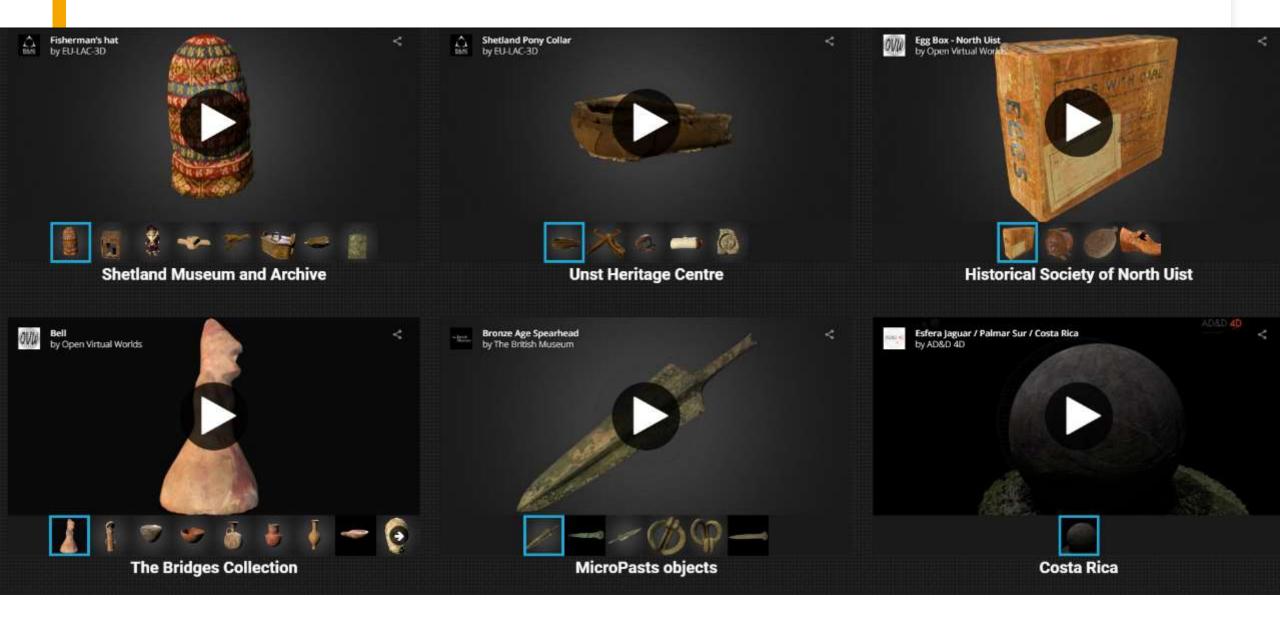




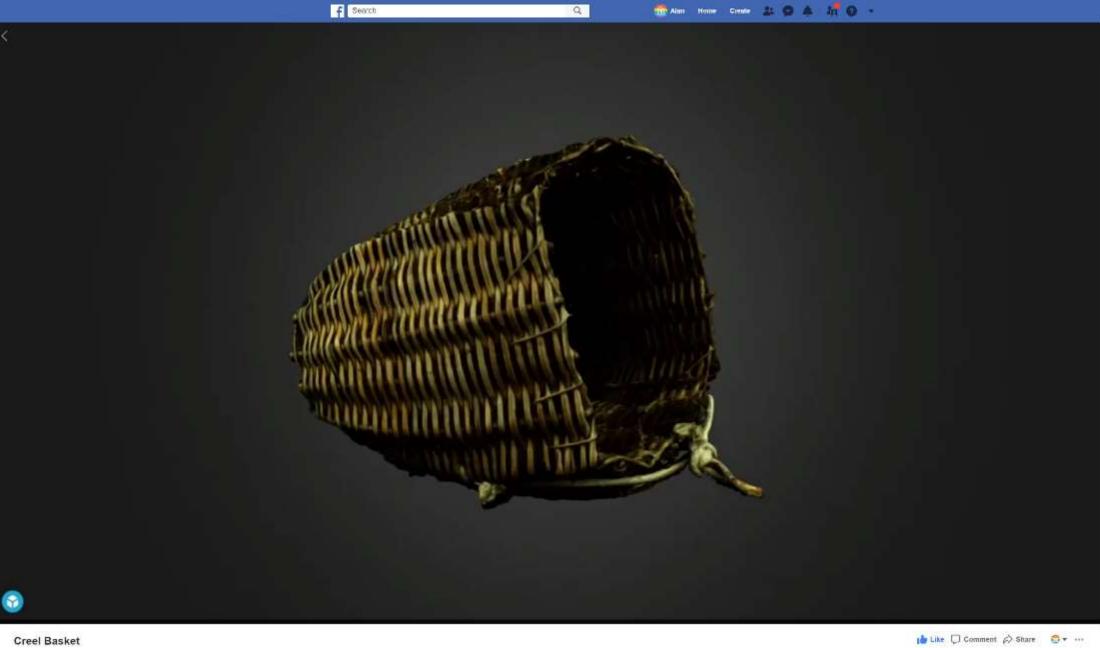




Artefact Galleries









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Search























Barbados Museum & Historical Society - St Michael, Barbados

24 videos · 488 views · Last updated on 23 Apr 2020











EU-LAC MUSEUMS in 3D





Gibbs Face

EU-LAC MUSEUMS in 3D



Giant South American Snail shell

EU-LAC MUSEUMS in 3D



"Margaret's Head" by Karl Broodhagen terracotta bust

EU-LAC MUSEUMS in 3D



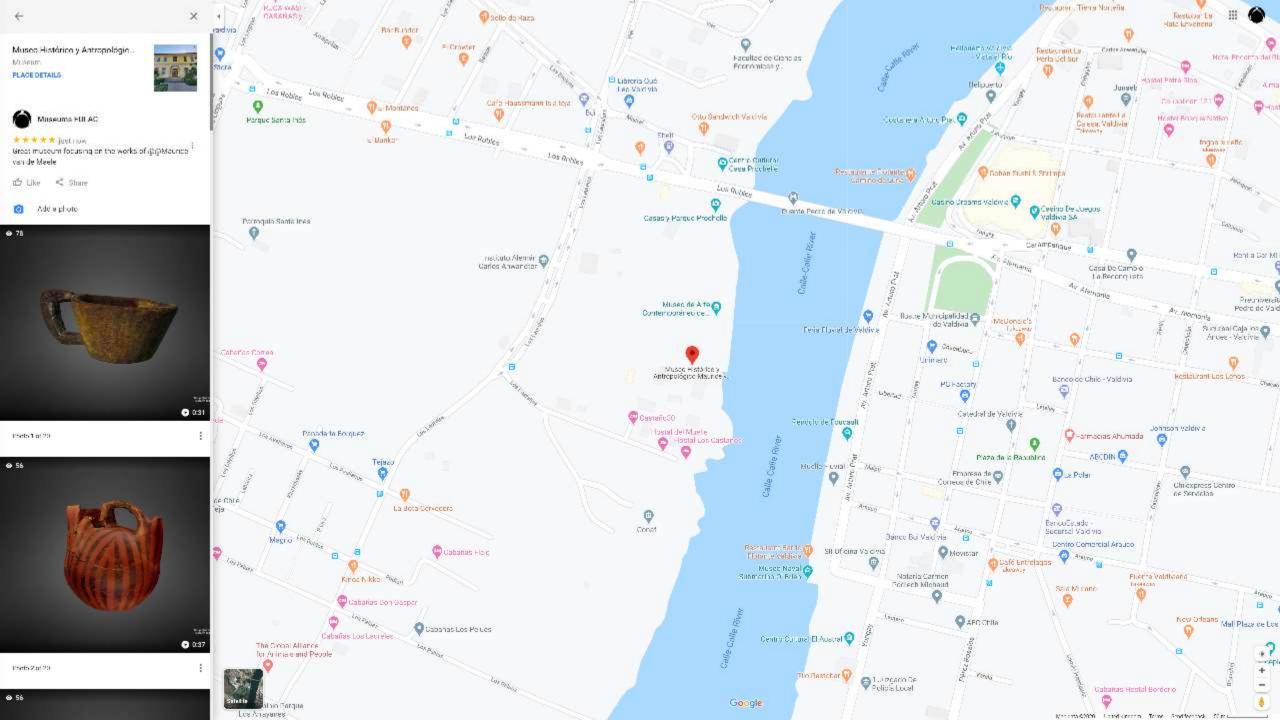
Toothkey / Turnkey

EU-LAC MUSEUMS in 3D

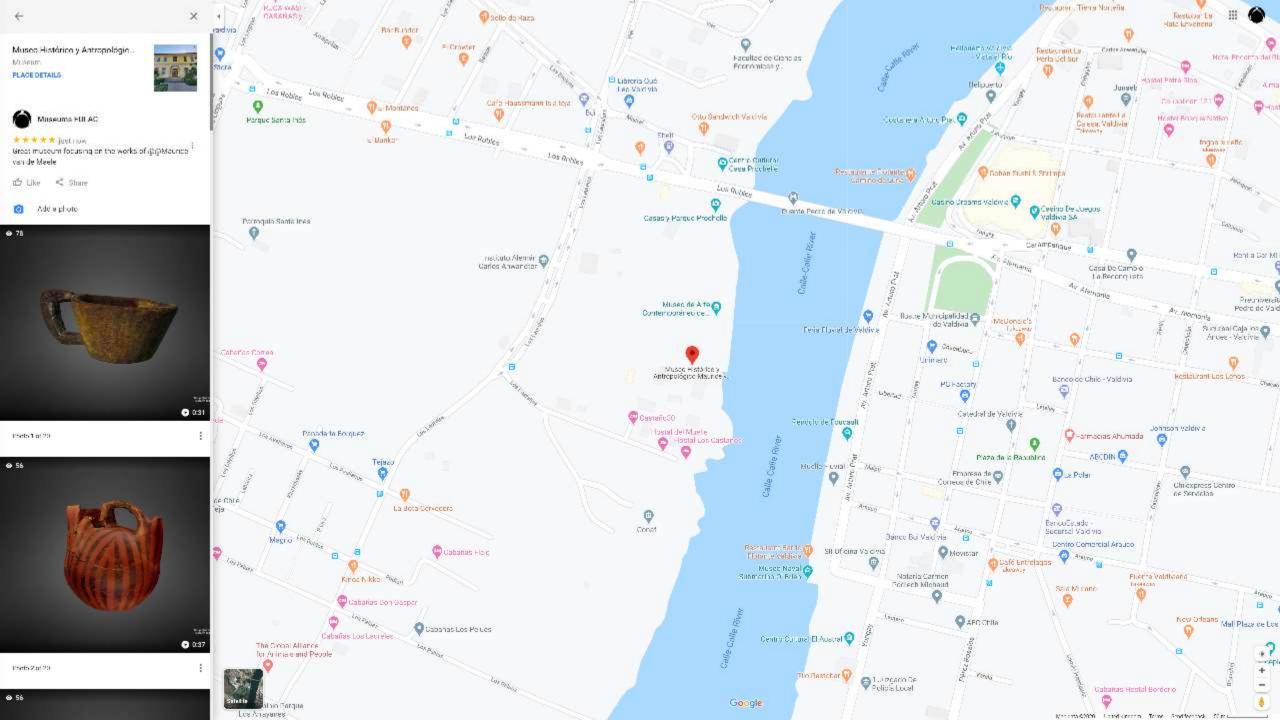


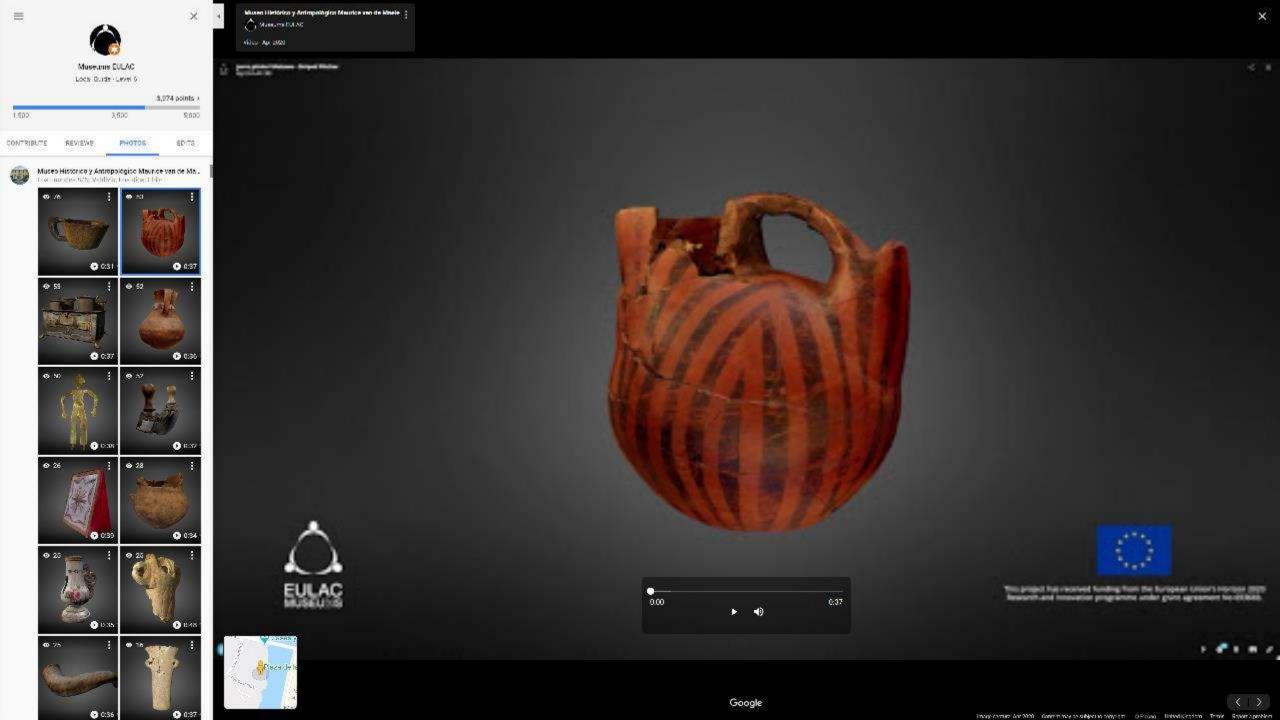
"Barbara" by Karl Broodhagen Terracotta bust

EU-LAC MUSEUMS in 3D











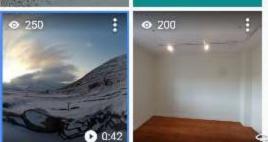






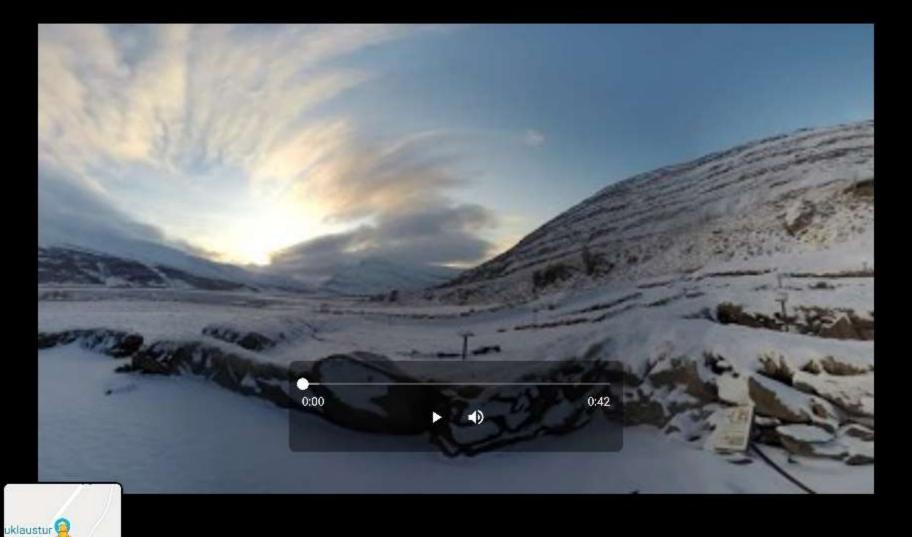








Clausturkaffi 🕡



X

Virtual Museums

