

RIVEEL3D Team
AVL @ NCSA
VELab @ CYI

Project Coordinators
Georgios Artoloulous (CYI)
AJ Christensen (NCSA)
Donna Cox NCSA

Design Researchers
Colter Wehmeier
Kajetan Haas



AR interface
for Clowder

Documentation
Reconstruction
Commentary
Simulation

Clowder

assets

unity

wikar

rendering/interaction



scene creation / analysis

VR

iOS



mobile viewing

AR



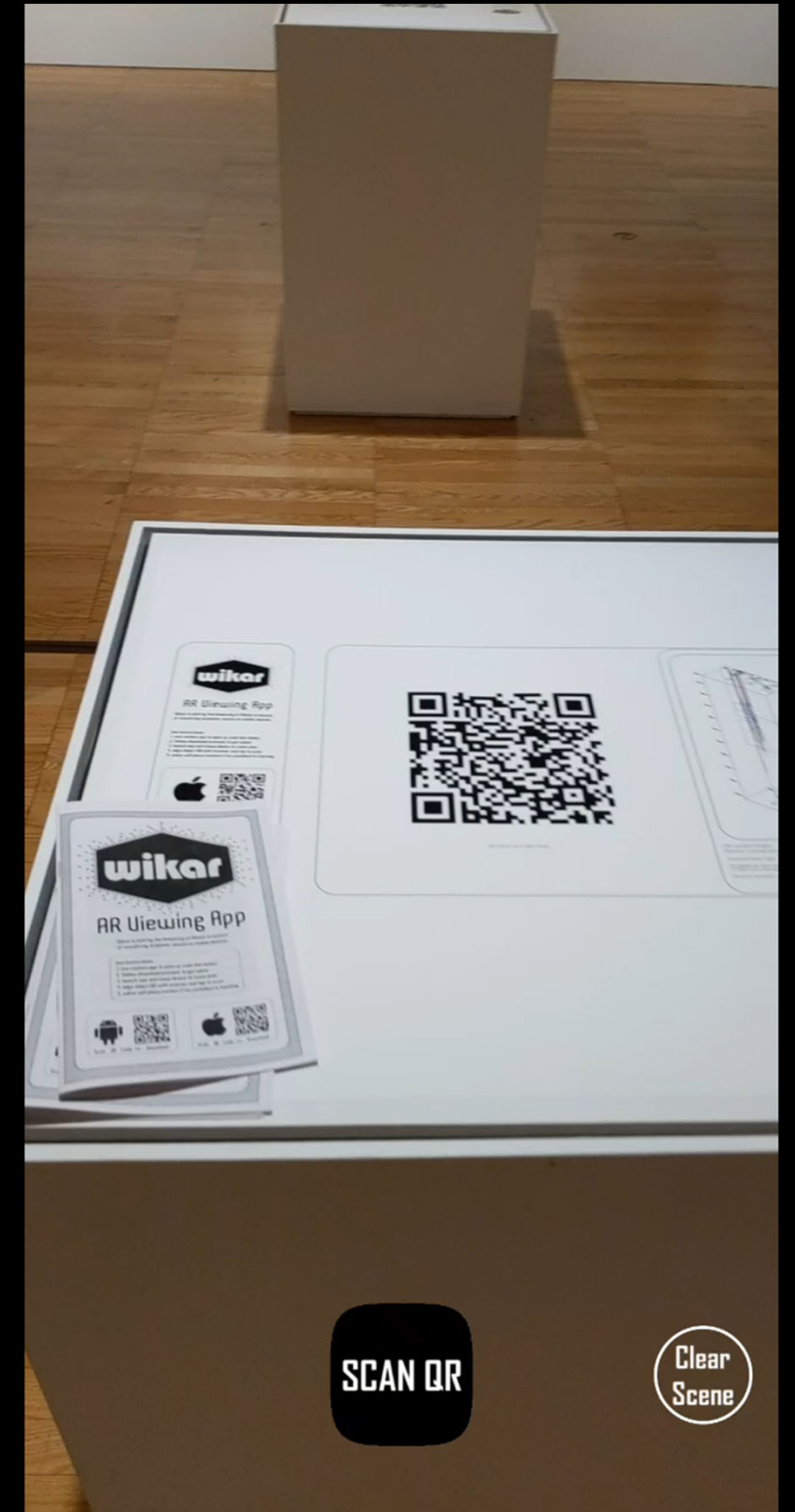
scene/asset previews

WEB

Krannert Art Museum | Faculty Show 2019 | Stephen Cartwright Datavis Collaboration



Krannert Art Museum | Faculty Show 2019 | Stephen Cartwright Datavis Collaboration



NCSA Room 2103 Demo



Unity Metadata on Clowder

Clowder AR Test... / AR_2103 / ToaBachIntervie...

ToaBachInterview.JPG

Tao of Bach Interview Winter, 2015



Metadata

Extracted by unity on Sep 11, 2019

R3D_Transform:

Position:

X: -0.073

Y: 1.437

Z: -1.734

Rotation:

W: 0.3421172

X: 0

Y: 0.9396573

Z: 0

Scale:

X: 1

Y: 1

Z: 1

R3D_Photo:

CameraPosition:

X: -0.431677

Y: 1.491776

Z: -1.493373

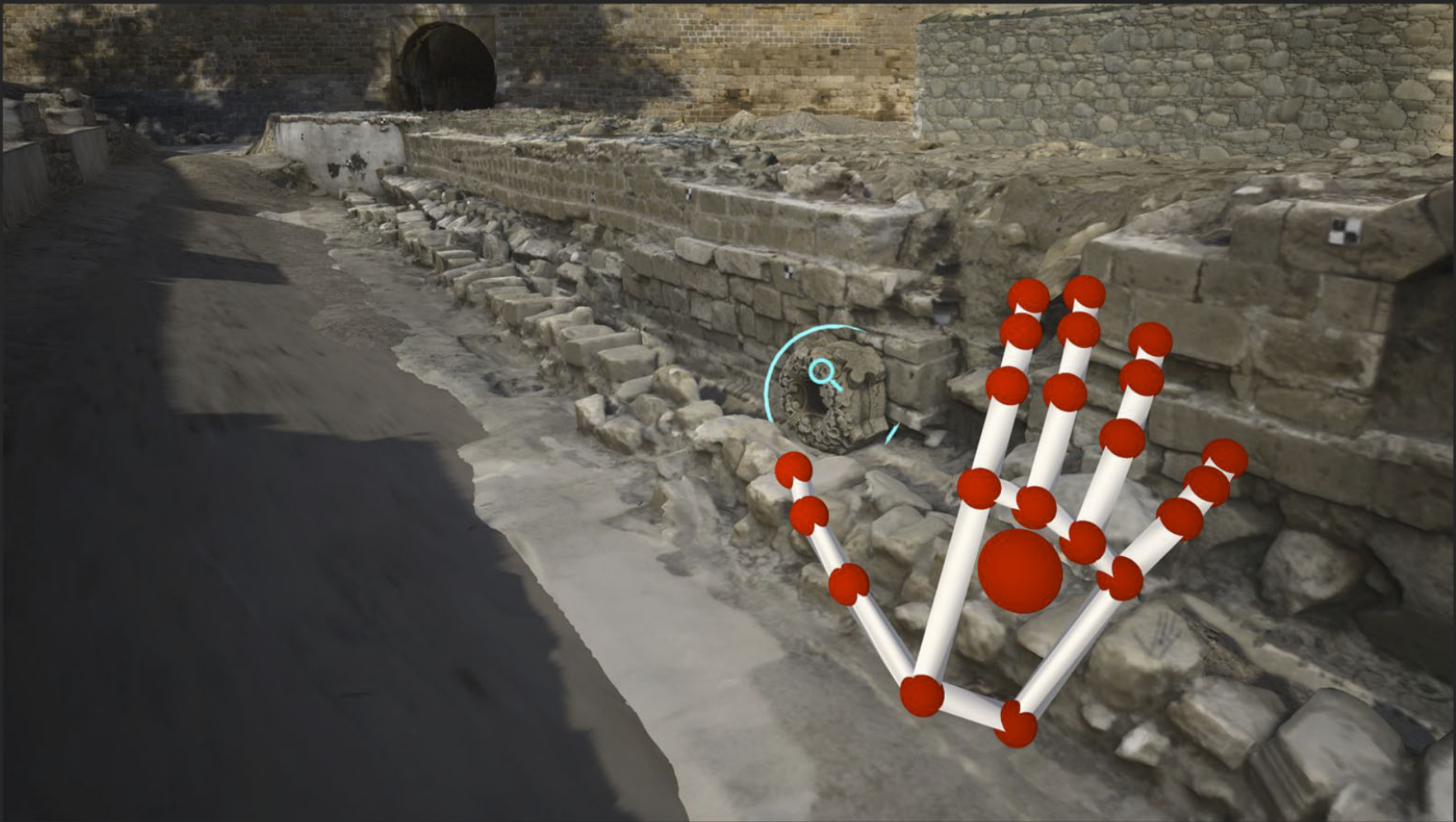
CameraRotation:

W: 0.4557488

X: 0.01224582

Y: 0.889699

Z: -0.02405795



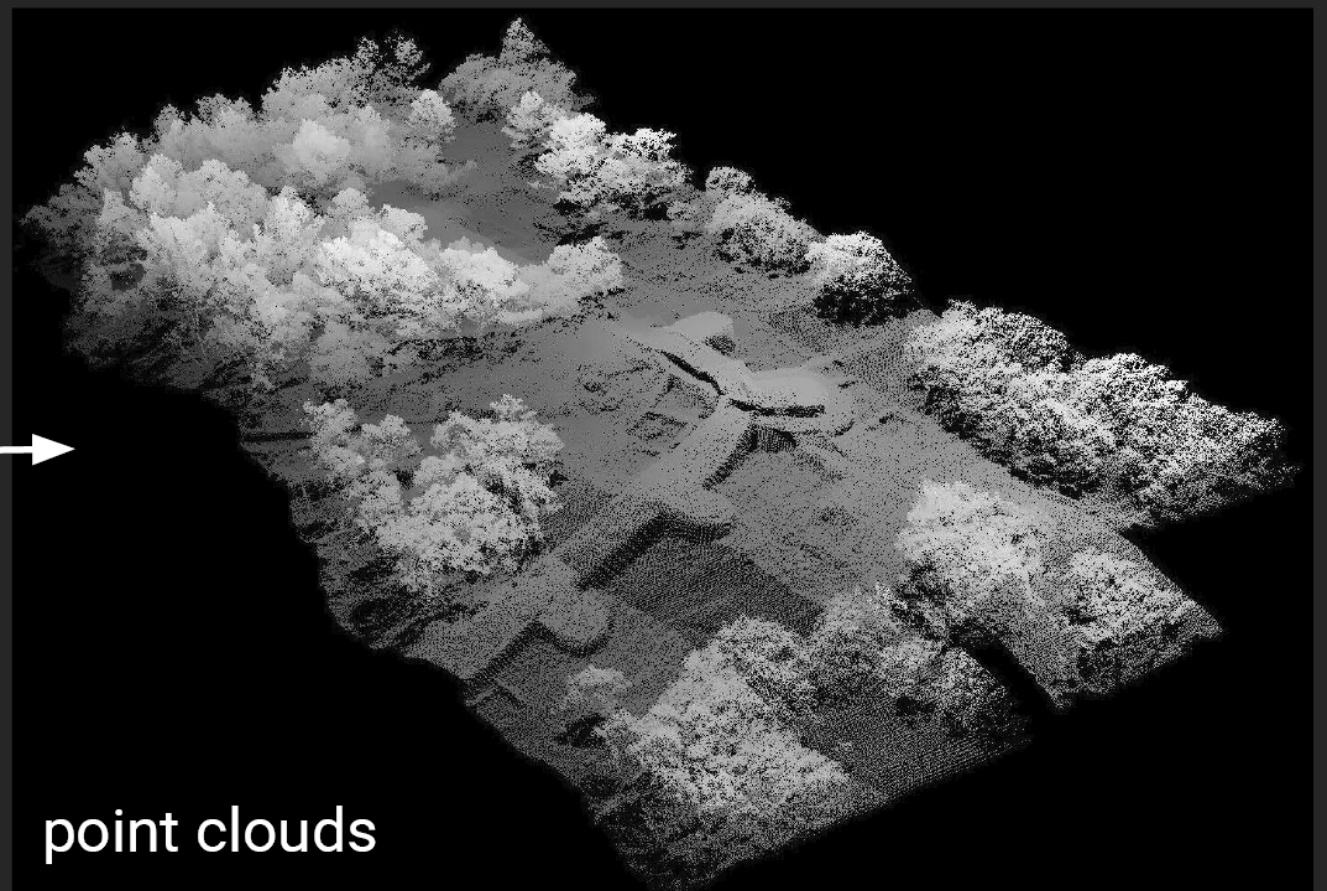
oculus rift + leap motion
Circa Fall, 2016



htc vive
Circa Spring, 2016



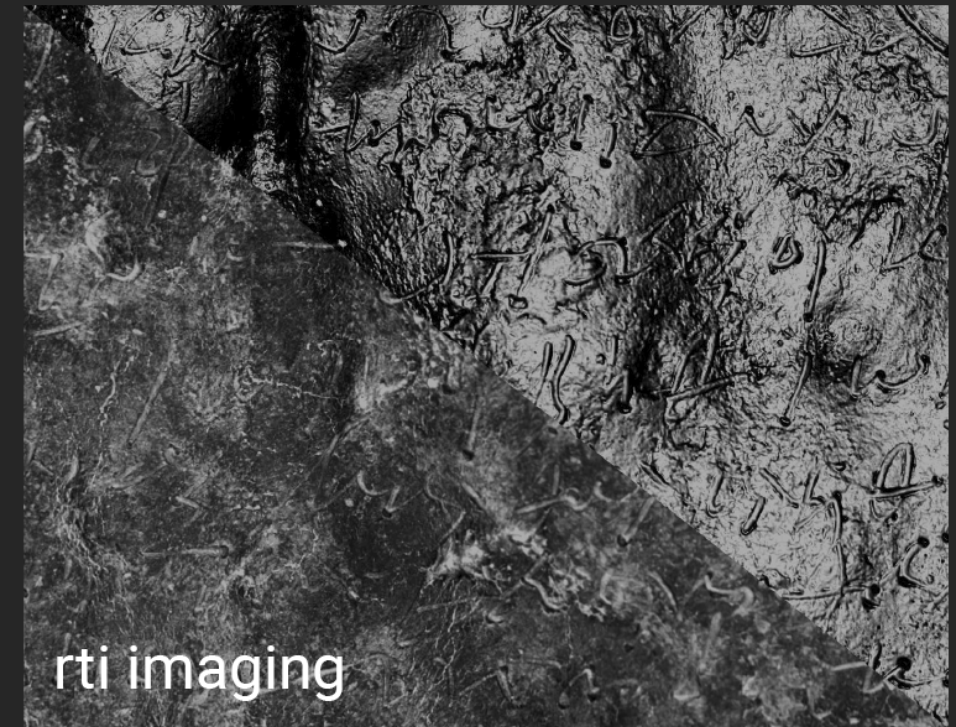
laser scanner



point clouds



spherical panoramas

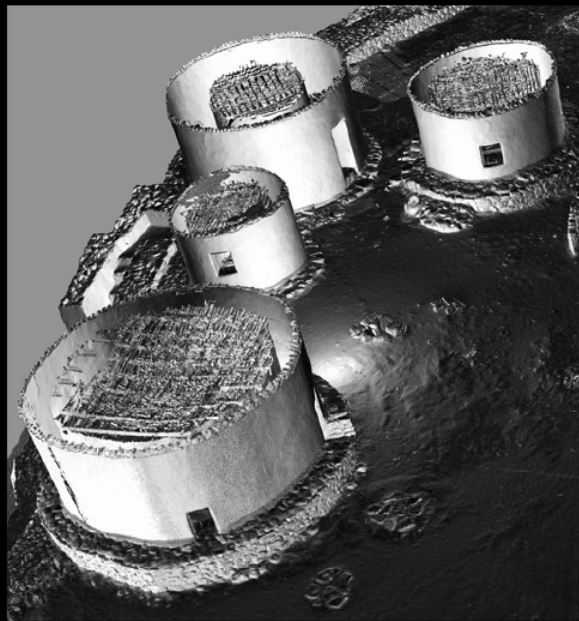


rti imaging



Paphos Gate Historical Reconstruction (1960s)

(2017)

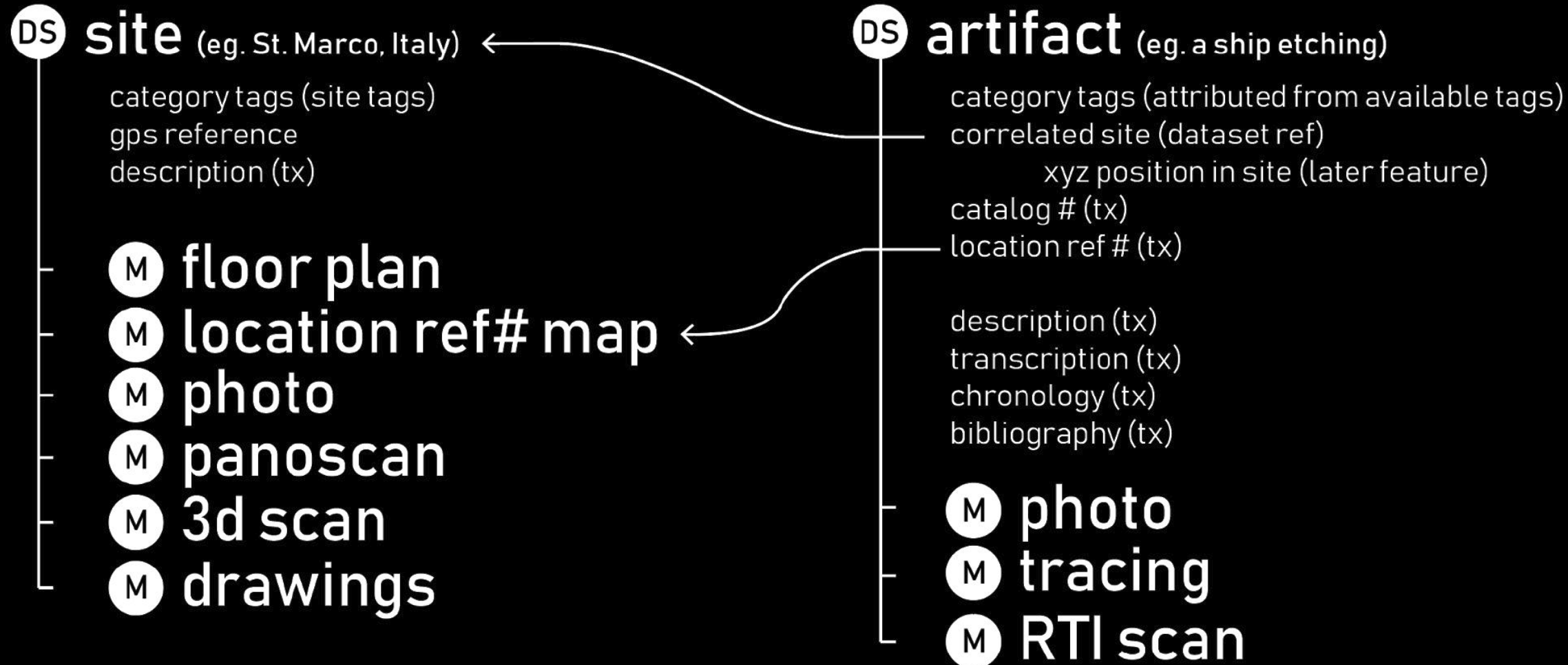


Khirokitia Scanning, Reconstruction, and Simulation Data

Clowder Space: Artifact Database Ontology

DS DATASET

M MEDIA OBJECT



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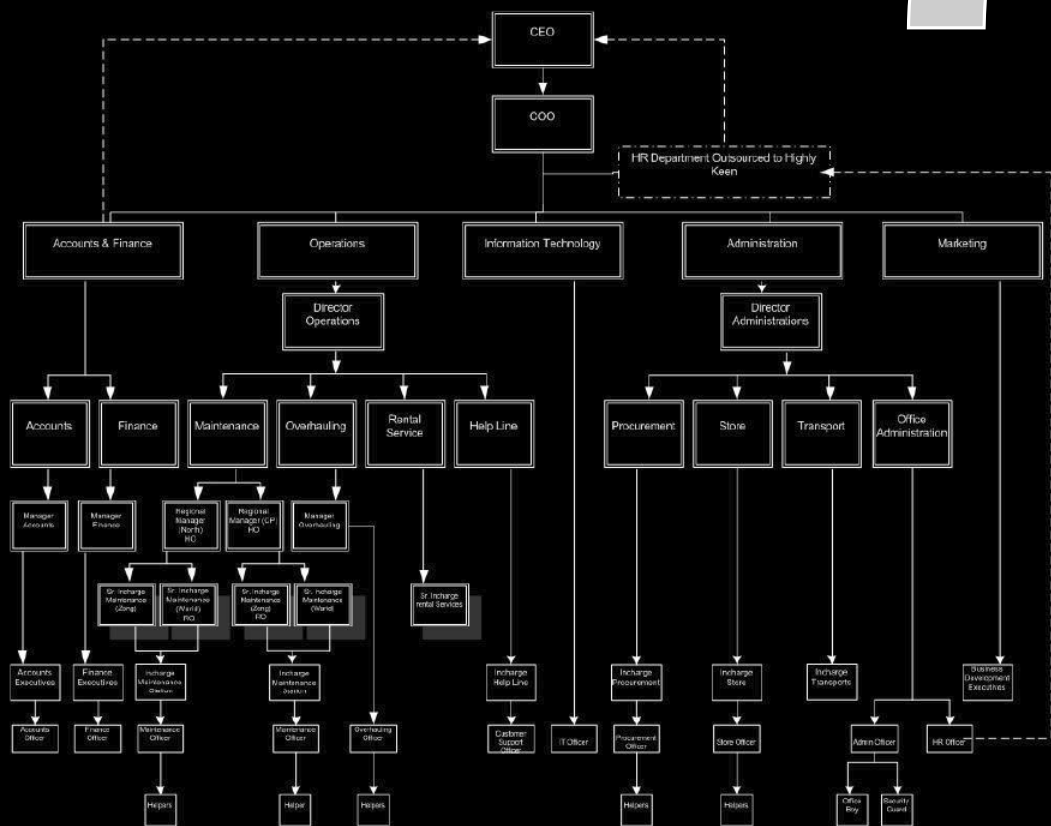
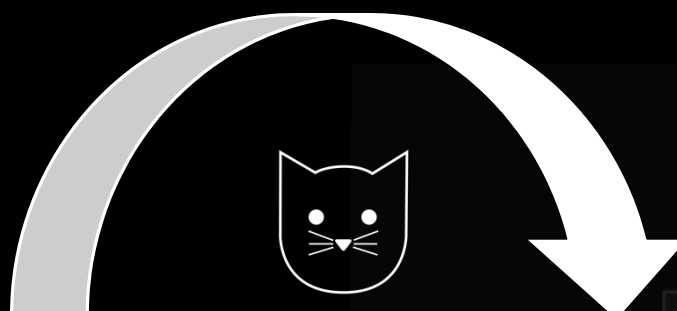
AR

HTML

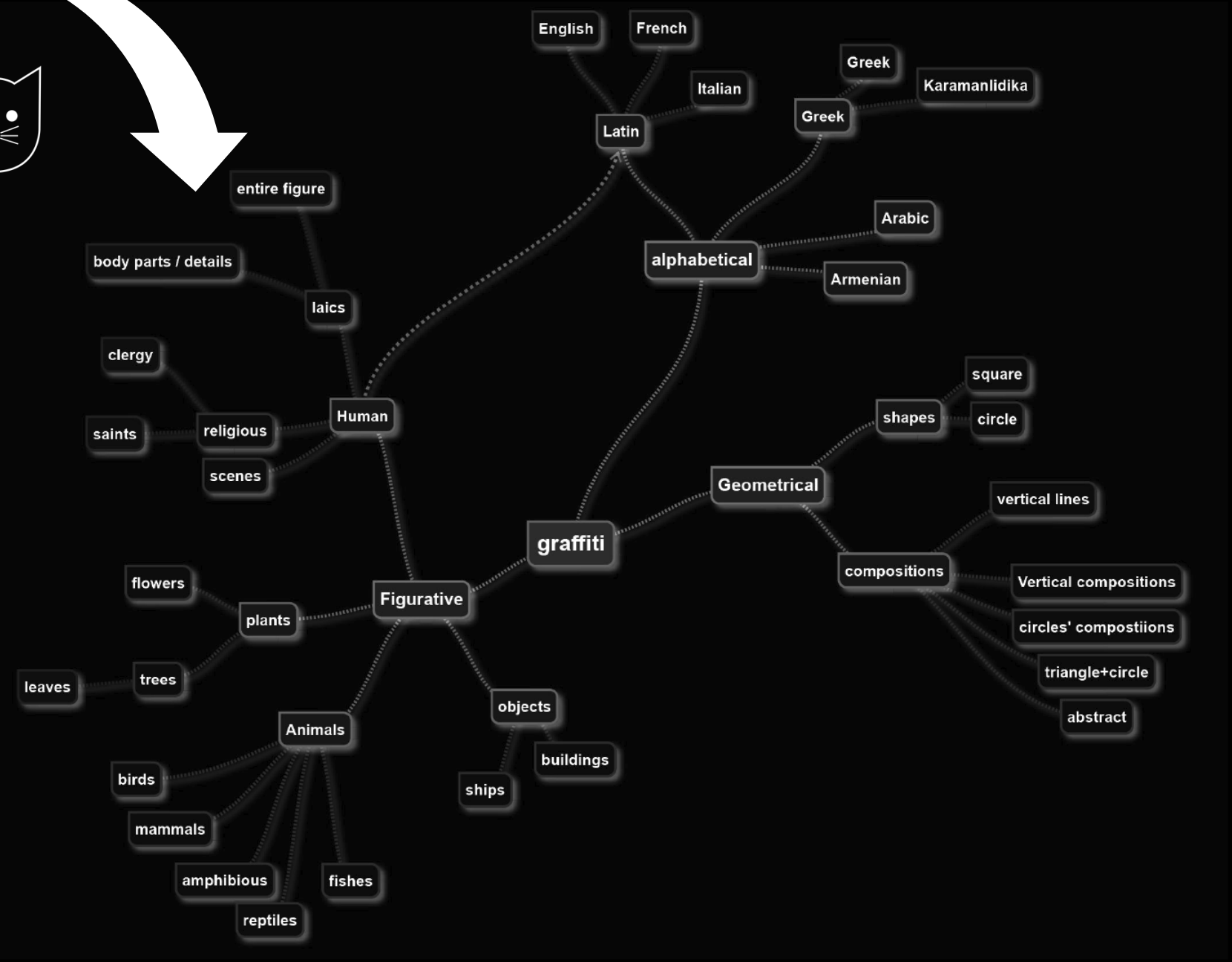


scene/asset previews

WEB



Hierarchical Model (Traditional)



Nonlinear Model (Hypertext + Tagging)

Clowder
Feature

Dataset
Search via
GPS
Coordinates



Nicosia,
Cyprus



Public
Clowder
Datasets



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