

Dr. Hashem Khreis, German Protestant Institute of Archaeology (GPIA)



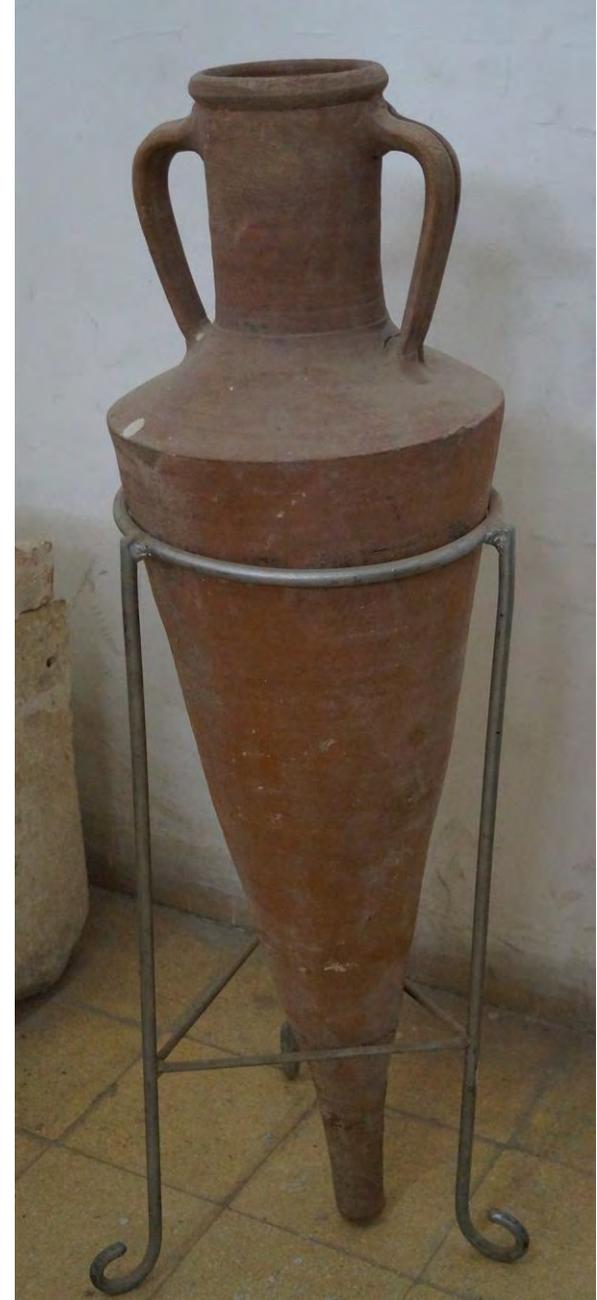
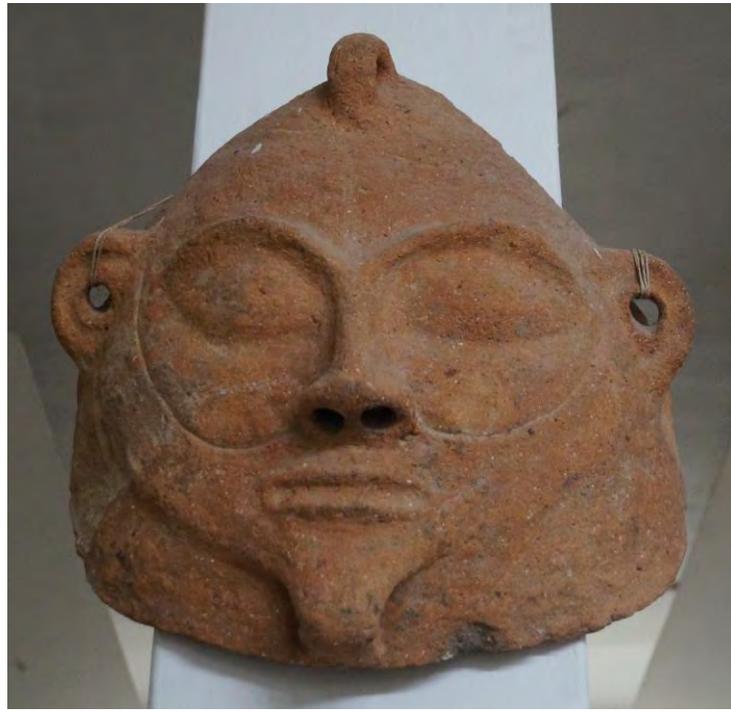
GERDA HENKEL STIFTUNG

Department of Antiquities



Archaeological Objects

carrying information about ancient life



Co-operation



Department of Antiquities of Jordan



German Protestant Institute of Archaeology



Gerda Henkel Foundation, Germany

GERDA HENKEL STIFTUNG

Dr. Munthir Jamhawi for the DoA and Dr. des. Katharina Schmidt for the GPIA



Project Tasks

- ❖ Creation of an archaeological database for the museum-management and scientific research
- ❖ Registration and description of the archaeological objects
- ❖ Photographing of each object and 3D-digitizing of selected objects
- ❖ Conservation of endangered archaeological objects
- ❖ Management of storage facilities and equipment of a conservation laboratory
- ❖ Establishment of a risk-preparedness plan
- ❖ Training of DoA's staff



Jordan Archaeological Museum

Goals and Focus

Long-term maintainability

High usability

The screenshot shows the 'Add new Object' form in the DOJAM system. The header includes the DOJAM logo and 'HÖME' link. A navigation bar contains tabs for STORAGE, ACQUISITION, PROVENANCE, MATERIAL, DECORATION/INSCRIPTION, MEASUREMENTS, AUTHENTICITY, and PRESERVATION/CONSERVATION. The 'storage' tab is active, displaying a table of fields and their values. A 'confirm' button is visible at the bottom left.

storage	
edit	
museum	JAM
inv. number	J.328-1
other inv. number	undetermined
number of objects	1
place of storage	hall A
place of storage specified	free-standing

J.328-1	
location	free-standing
material	vitreous material
material specifieds	glass
kind of object	architectural element
kind of object specified	tesserae

CONFIRM

Database - Maintainability

- No proprietary software / formats
- Well known and mature technologies

Server

Debian

Application

Database

Ruby on Rails

PostgreSQL



Ruby on Rails

Actively developed since 2005

Top ten web application
framework

PostgreSQL

Actively developed since 1996

Second most common (Open Source)
database system

Debian

Actively developed since 1993

One of the most popular server
system

Database Usability

Guide the user, only show what is needed

Avoid free-text, use lists where possible

Add new Object

confirm

STORAGE

ACQUISITION

PROVENANCE

MATERIAL

DECORATION/INSCRIPTION

MEASUREMENTS

AUTHENTICITY

PRESERVATION/CONSERVATION

DATING/REMARKS/LITERATURE

IMAGES

storage

[edit](#)

museum	JAM
inv. number	J.6077-1
other inv. number	undetermined
number of objects	1
place of storage	hall A
place of storage specified	showcase A7

J.6077-1

location	showcase A7
material	ceramic
material specifieds	undetermined
kind of object	vessel
kind of object specified	undetermined

CONFIRM

Add new Object

confirm

STORAGE

ACQUISITION

PROVENANCE

MATERIAL

DECORATION/INSCRIPTION

MEASUREMENTS

AUTHENTICITY

PRESERVATION/CONSERVATION

DATING/REMARKS/LITERATURE

IMAGES

acquisition

[edit](#)

kind of acquisition undetermined

delivered by institution

name of deliverer DoA

acquisition date 1957-12-24

no. of acquisition undetermined

document

J.6077-1

location showcase A7

material ceramic

material undetermined

specifieds

kind of object vessel

kind of object undetermined

specified

CONFIRM

Add new Object

confirm

[STORAGE](#)

[ACQUISITION](#)

[PROVENANCE](#)

[MATERIAL](#)

[DECORATION/INSCRIPTION](#)

[MEASUREMENTS](#)

[AUTHENTICITY](#)

[PRESERVATION/CONSERVATION](#)

[DATING/REMARKS/LITERATURE](#)

[IMAGES](#)

provenance

[edit](#)

site name	`Amman/Citadel
other site name	Amman, `Ammān, Rabbath-Ammon, Rabbat-Ammon, Philadelphia, Jabal al-Qal`a, al Qal`a
site number (MEGA)	2682
site number (expedition)	undetermined
coordinates (MEGA)	31.95273 lat; 35.93402 long
kind of site	undetermined; undetermined
finding context	undetermined
remarks	undetermined

J.6077-1

location	showcase A7
material	ceramic
material specifieds	undetermined
kind of object	vessel
kind of object specified	undetermined

CONFIRM

Add new Object

confirm

STORAGE

ACQUISITION

PROVENANCE

MATERIAL

DECORATION/INSCRIPTION

MEASUREMENTS

AUTHENTICITY

PRESERVATION/CONSERVATION

DATING/REMARKS/LITERATURE

IMAGES

material

[edit](#)

material	ceramic(undetermined)
	ceramic(undetermined)
kind of object	vessel (undetermined)
colors	beige
production technique	undetermined

J.6077-1

location	showcase A7
material	ceramic
material specifieds	undetermined
kind of object	vessel
kind of object specified	undetermined

CONFIRM

Add new Object

confirm

STORAGE

ACQUISITION

PROVENANCE

MATERIAL

DECORATION/INSCRIPTION

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PRESERVATION/CONSERVATION

DATING/REMARKS/LITERATURE

IMAGES

decoration/inscription

[edit](#)

style	geometrical
technique	undetermined
color	undetermined
Munsell color	undetermined
letters of inscription	none
language of inscription	none
inscription text	none
inscription translation	none

J.6077-1

location	showcase A7
material	ceramic
material specifieds	undetermined
kind of object	vessel
kind of object specified	undetermined

CONFIRM

Add new Object

confirm

STORAGE

ACQUISITION

PROVENANCE

MATERIAL

DECORATION/INSCRIPTION

MEASUREMENTS

AUTHENTICITY

PRESERVATION/CONSERVATION

DATING/REMARKS/LITERATURE

IMAGES

measurements

[edit](#)

max. length	undetermined
max. width	undetermined
height	13.8
opening dm	9.3
bottom dm	5.8
max. dm	14.2
weight (gram)	493.15

J.6077-1

location	showcase A7
material	ceramic
material specifieds	undetermined
kind of object	vessel
kind of object specified	undetermined

CONFIRM

Add new Object

confirm

<u>STORAGE</u>	<u>ACQUISITION</u>	<u>PROVENANCE</u>	<u>MATERIAL</u>	<u>DECORATION/INSCRIPTION</u>	<u>MEASUREMENTS</u>	<u>AUTHENTICITY</u>	<u>PRESERVATION/CONSERVATION</u>
<u>DATING/REMARKS/LITERATURE</u>		<u>IMAGES</u>					

authenticity

[edit](#)

authenticity archaeological object

priority undetermined

priority determined by Jutta Häser

J.6077-1

location showcase A7

material ceramic

material specifieds undetermined

kind of object vessel

kind of object specified undetermined

CONFIRM

Add new Object

confirm

STORAGE

ACQUISITION

PROVENANCE

MATERIAL

DECORATION/INSCRIPTION

MEASUREMENTS

AUTHENTICITY

PRESERVATION/CONSERVATION

DATING/REMARKS/LITERATURE

IMAGES

preservation/conservation

[edit](#)

preservation (material)	discolored
preservation (object)	undetermined
conservation	Restored.
conservation needed	no
cleaning needed	no

J.6077-1

location	showcase A7
material	ceramic
material specifieds	undetermined
kind of object	vessel
kind of object specified	undetermined

CONFIRM

Add new Object

confirm

[STORAGE](#)

[ACQUISITION](#)

[PROVENANCE](#)

[MATERIAL](#)

[DECORATION/INSCRIPTION](#)

[MEASUREMENTS](#)

[AUTHENTICITY](#)

[PRESERVATION/CONSERVATION](#)

[DATING/REMARKS/LITERATURE](#)

[IMAGES](#)

dating/remarks/literature

[edit](#)

period	Middle Bronze II (1950-1550 BC)
millennium	2nd mill. BC
years	1950 BC - 1750 BC
centuries	20th cent. BC - 18th cent. BC
remarks	Painted terracotta vase with flaring neck, funnel-shape mouth, everted rim outwards, ovoid body, ring-shape base and loop handle (Jericho vase?)
literature	

J.6077-1

location	showcase A7
material	ceramic
material specifieds	undetermined
kind of object	vessel
kind of object specified	undetermined

CONFIRM

Add new Object

confirm

STORAGE

ACQUISITION

PROVENANCE

MATERIAL

DECORATION/INSCRIPTION

MEASUREMENTS

AUTHENTICITY

PRESERVATION/CONSERVATION

DATING/REMARKS/LITERATURE

IMAGES

images

[edit](#)

main image

other images

J.6077-1

location showcase A7

material ceramic

material undetermined

specifieds

kind of object vessel

kind of object undetermined
specified

CONFIRM

Database Usability

- Avoid long lists by using smart lists

add new object

kind of object

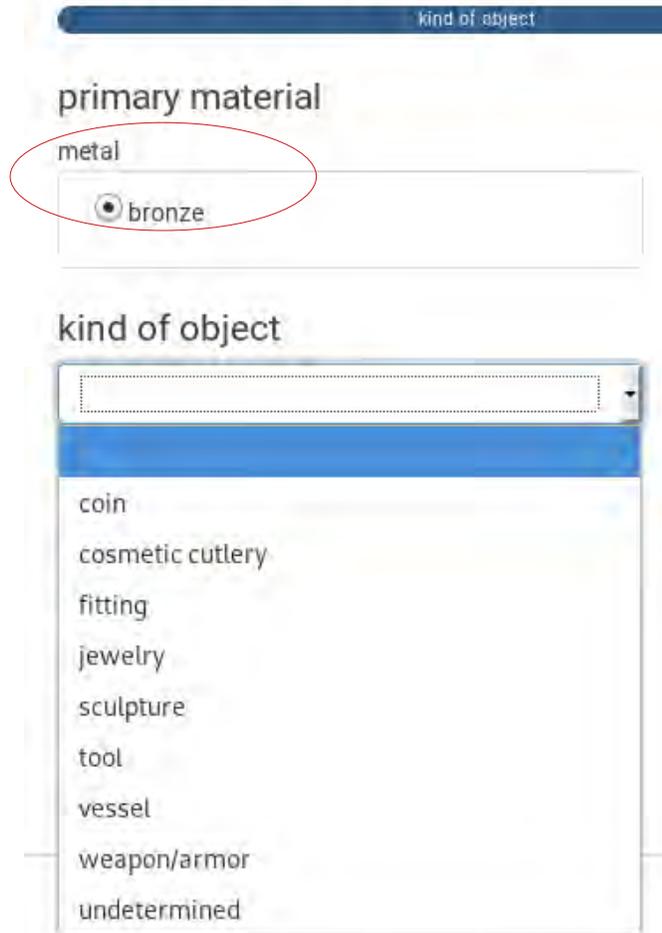
primary material

metal

bronze

kind of object

coin
cosmetic cutlery
fitting
jewelry
sculpture
tool
vessel
weapon/armor
undetermined



add new object

kind of object

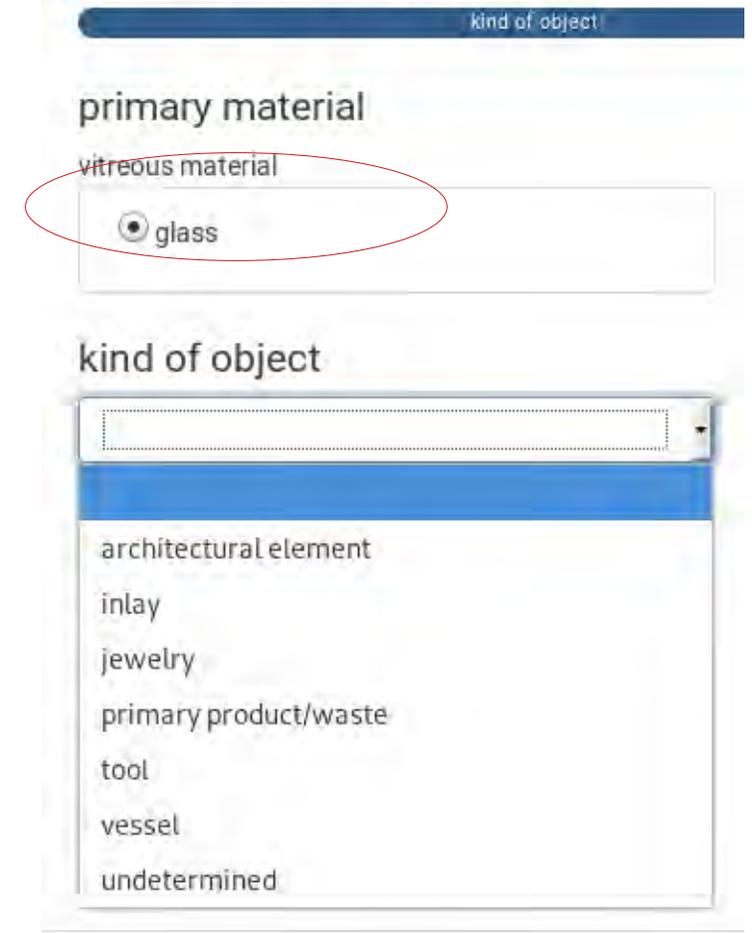
primary material

vitreous material

glass

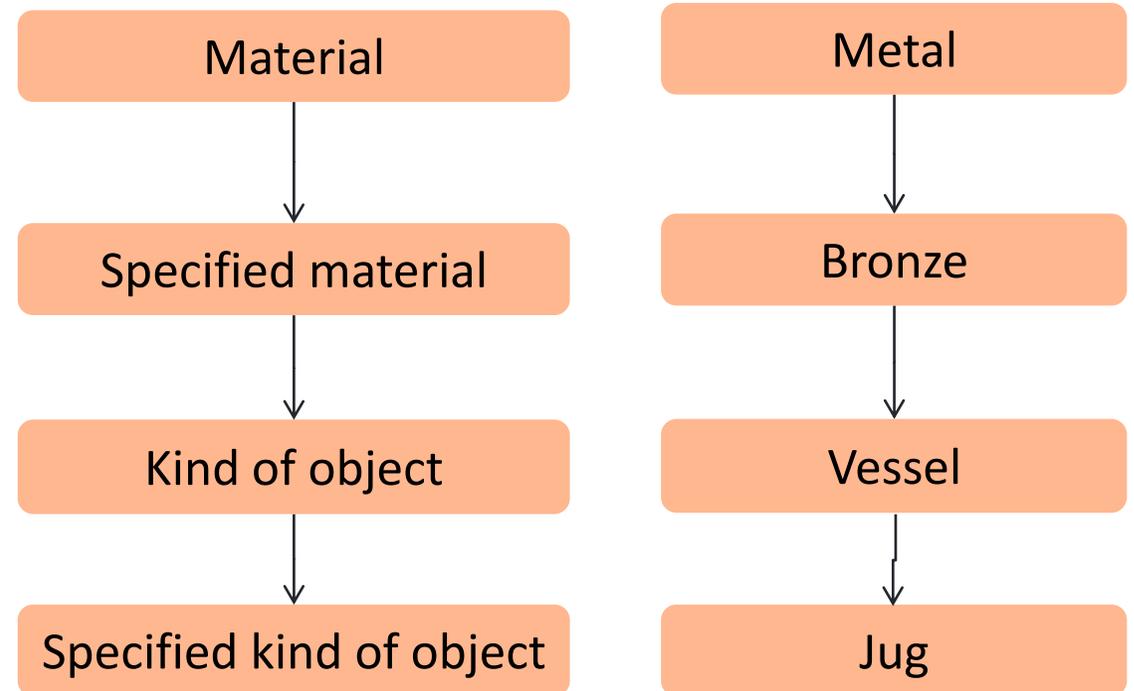
kind of object

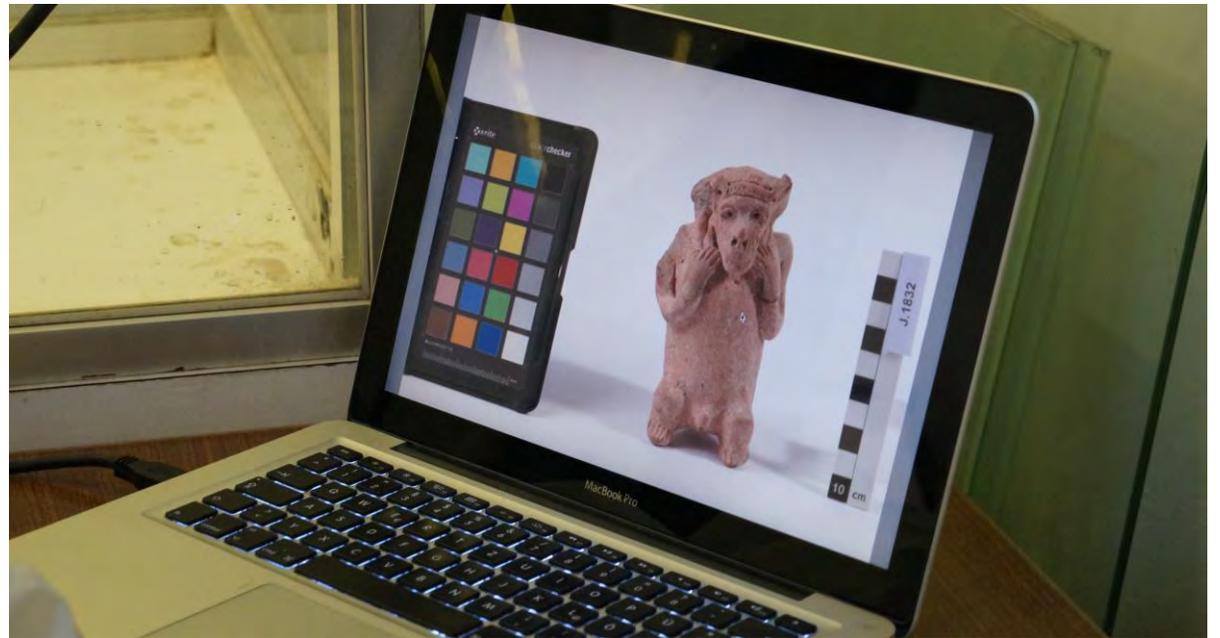
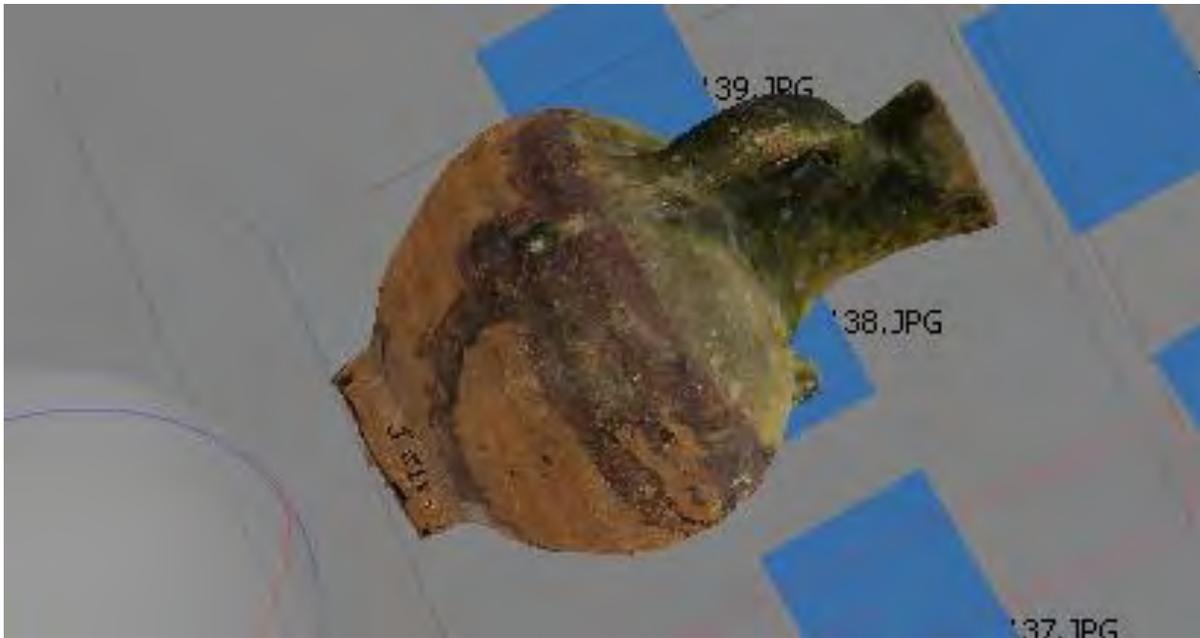
architectural element
inlay
jewelry
primary product/waste
tool
vessel
undetermined



Database Design

- So-called materialized path qualifies each entry





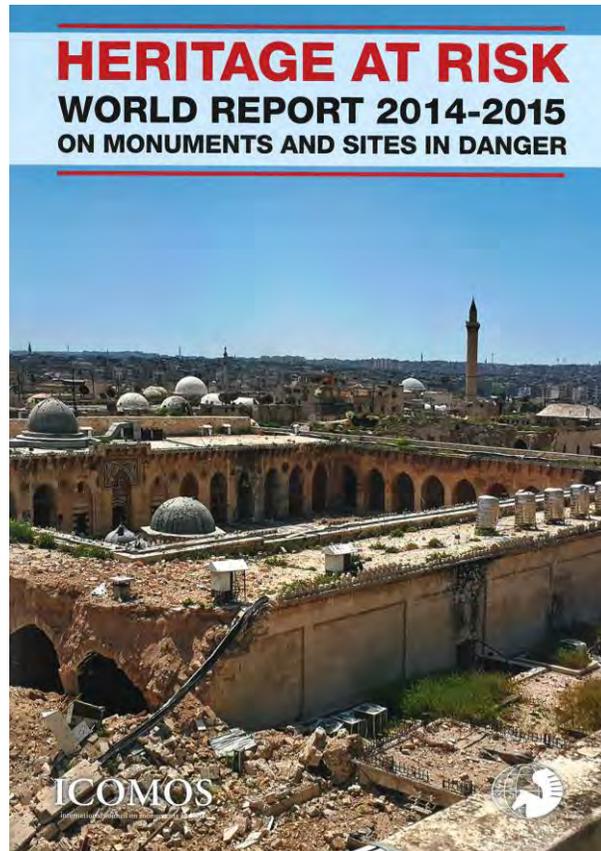






Heritage at Risk

Establishment of a risk-preparedness plan





Training of Staff

GERDA HENKEL STIFTUNG

FUNDING INITIATIVE PATRIMONIES

L.I.S.A. DAS WISSENSCHAFTSPORTAL
DER GERDA HENKEL STIFTUNG

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