

ONTOLOGY - HUACA ARCO IRIS

ARTEFACT: HUACA

SPACES:

- **BASE SURFACE** (ground)

- **TEMENOS**

Family (ID)	Type (ID)	Instance	Type of data	links
Free space	Interior space	Dimension (area)	number	-> Base surface
		Material	text	
Walls	Wall NE	Dimension (Height, Thickness)	number	
	Wall NW	Material	text	
	Wall SE	Construction period	text	
	Wall SW	Historical Data (documentation)	Text – external files (e.g. pdf)	
		Technical Data (documentation)	Text – external files (e.g. pdf)	
		Photos	images	
		External Surface (ID Type)	ID number	-> Bas-relief
		Internal Surface (ID Type)	ID number	-> Bas-relief
		Upper Closure (ID Type)	ID number	
		Lower Closure (ID Type)	ID number	-> Base surface
	Lateral Closure (ID Type)	ID number	-> Main Entrance	
Bas-reliefs	Name bas-relief	ID of surface (ID type)	ID number	-> Conservation cover
		Material	text	
		Depiction	Text-photos	
		Period	text	
		Historical Data (documentation)	Text – external files (e.g. pdf)	
	Photos	images		
Conservation cover	Name bas-relief	ID bas-relief (ID family-type)	ID number	
		Material	text	
		Period	text	
		Historical Data (documentation)	Text – external files (e.g. pdf)	
		Photos	images	
Main Entrance	Name of entrance	ID lateral closure (walls)	ID number	
		Dimension	text	-> Base surface

- STORAGES

Family (ID)	Type (ID)	Instance	Type of data	links
-------------	-----------	----------	--------------	-------

Free space	Interior space	Dimension (area)	number	-> Base surface
		Material	text	

Walls	Wall NE	Dimension (Height,Thickness)	number	
	Wall NW1 + NW2	Material	text	
	Wall SE	Construction period	text	
	Wall North West	Material	text	
	Wall South West	Historical data (documentation)	text	
	Partition walls	Technical data (documentation)	text	
		Photos	images	
		External surface (ID type)	ID number	-> Bas-relief
		Internal surface (ID Type)	ID number	
		Upper closure (ID Type)	ID number	
		Lower closure	ID number	-> Base surface

Bas-reliefs	Name bas-relief	ID of surface (ID type)	ID number	
		Material	text	
		Depiction	Text-photos	
		Period	text	
		Historical Data (documentation)	Text – external files (e.g. pdf)	
		Photos	images	

- SACRED PLACE:

- STEPPED PYRAMID

Family	Type	Instance	Type of data	Links
Stepped Pyramid	Block first step	Dimension (Height,Thickness)	numbers	
	Block second step	Material	text	
	Support wall SE (corner)	Construction period	text	
	Support wall NE (corner)	Technical data (documentation)	text	
		Photos	images	
		Containment wall NE	ID number	
		Containment wall NW	ID number	
		Containment wall SE	ID number	
		Containment wall SW	ID number	
		Upper closure (flat surface)	ID number	
		Lower closure	ID number	-> Base surface

- RAMPS

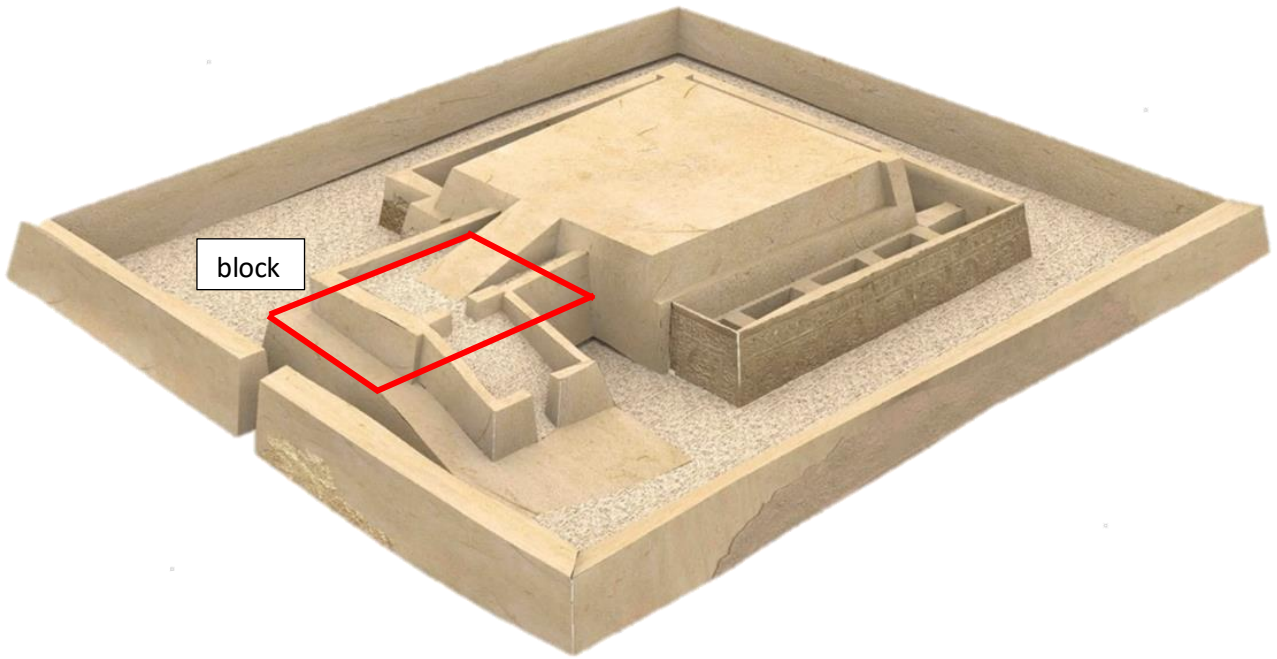
Ramps	First ramp	Dimension (Height, length and width)	numbers	
	Block (see figure below)	Slope	numbers	
	Second ramp	Material	text	
		Construction period	text	

		Technical data (documentation)	text	
		Photos	Images	
		Containment wall NE (ID block)	ID Number	-> Bas-relief
		Flat surface (ID block)	ID Number	
		Lower closure (first ramp and block)	ID Number	-> Base surface

Walls	Wall SE (1st ramp)	Dimension (Height,Thickness)	number	
	Wall NW (1st ramp)	Material	text	
	Wall SW 1 + SW 2 (1st ramp)	Construction period	text	
	Wall SW 1 + SW 2 (block)	Material	text	
	Wall NW (block)	Historical data (documentation)	text	
	Wall NE (block)	Technical data (documentation)	text	
		Photos	images	
		Lateral closure	ID number	-> Bas-relief
		Lower closure	ID number	-> First ramp or Block

Entrances	Entrance (1st ramp)	Dimension (Height and Width)		
	Entrance (block)	ID lateral closure (walls)		
		ID upper closure (surface of ramp or block)		-> First ramp or Block

Bas-reliefs	Name bas-relief	ID of surface (ID type)	ID number	
		Material	text	
		Depiction	Text-photos	
		Period	text	
		Historical Data (documentation)	Text – external files (e.g. pdf)	
		Photos	images	



From Google Maps



NOTES:

How to manage ID codes?

Decide how to allocate the codes that identify the family-type of each architectural unit.

e.g. wall family ID - wall type ID north

external surface will contain as information ID family-type of the reference wall.

Is there a cataloguing of cultural heritage by any Peruvian authority? How are cultural assets identified? It could be useful to understand how to classify the huaca and its elements.

How can links between different families be managed? e.g. wall - bas-relief

The bas-relief will have its own ID code and will be realised three-dimensionally in the form of a " veil " that rests on the surface of the wall.

As an instance it will carry the ID code (family-type) of the wall surface containing it.

THE CODE IS CONSTRUCTED AS A TREE, COMPOSING THE IDS UP TO THE DETAILED ID.

As a further classification it is possible to make families (type and instance) of non-constructive units such as: **degradation, interventions**. Families that can be linked to the families of building units that characterise them.

We can define another ID, connected with the architectural elements