

Characteristics of Islamic architecture in Cairo; reusing historic buildings

online facilitator course

1st Oct.

Naoko Fukami

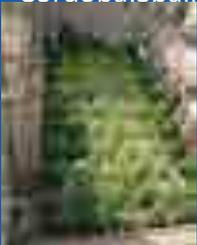
today's agenda

- History of Islamic Architecture
 - Global architectural culture
 - Geometry-Muqarnas;
- Special features of Cairo's monument
 - Napoleon's map, Hala
 - Value of historic buildings along street
 - Sultan Hasan; Sabil Kuttab



By climate
By modernity

Cordoba, Spain



Istanbul, Turkey



Solhat, Russia



Bukhara, Uzbekistan



Xiang, China



Tokyo, Japan



Qayrawan, Tunisia



Damascus, Syria



Isfahan, Iran



Turfan, China



Fes, Morocco



Chesa, Ghana

Cairo, Egypt



Medina, Saudi Arabia



Lahore, Pakistan

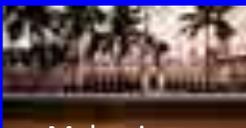


Gaur, India



Telok Manok, Thai

Kuala Lumpur, Malaysia



Malindi, Tanzania



Demak, Indonesia



Marree, Australia

Limitation of Globalism

Climate of mid-latitude arid regions → the birthplace of Islam.



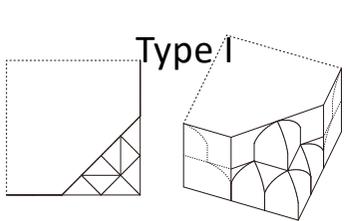


Chagatay Ursu; wooden double dome at Sarai?



11c.	Kharraqan Gonbad-I Qabus	Double dome for weight reduction Conical roof with inner dome
1350's	Cairo	Sultaniyeh Stone
1367	Isfahan	Sultan Bakht Agha Brick
1370	Kunya Urgench	Turabek Khanum Conical Roof?
1385	Samarqand	Shirin Bika Agha Brick
1390's	Timurid Empire	Double Dome Brick
15c.	Kiev	Double Dome wood
16c.	Moscow	Double Dome wood

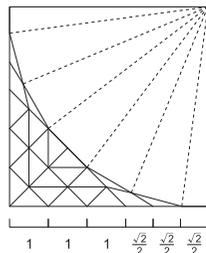
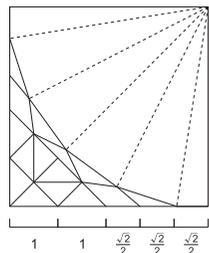
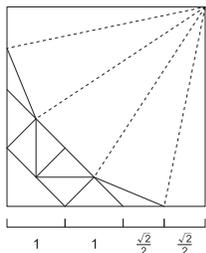




type II-a

type II-b

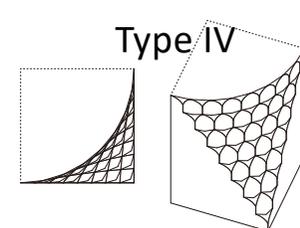
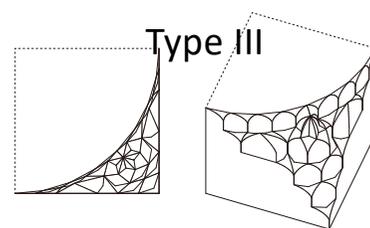
type II-c



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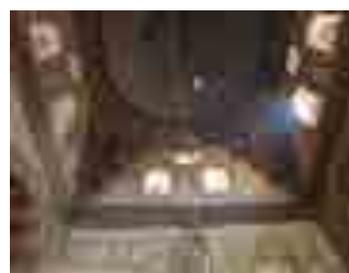
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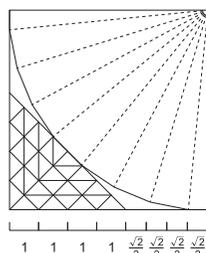
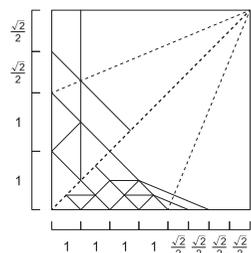
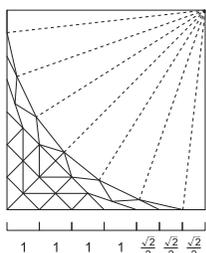
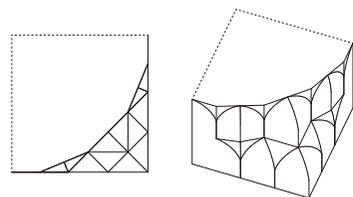


Type III

Type IV



Type II



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1
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1 1 1 1 $\frac{\sqrt{2}}{2}$ $\frac{\sqrt{2}}{2}$ $\frac{\sqrt{2}}{2}$ $\frac{\sqrt{2}}{2}$

type II-d

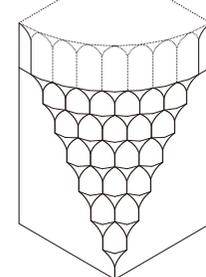
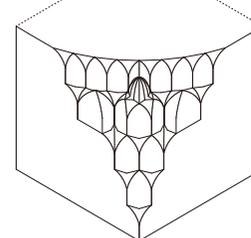
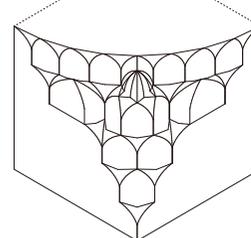
type II-e

type II-f

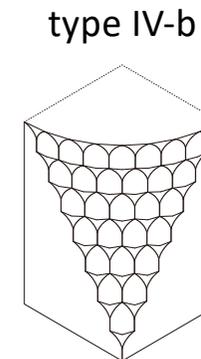
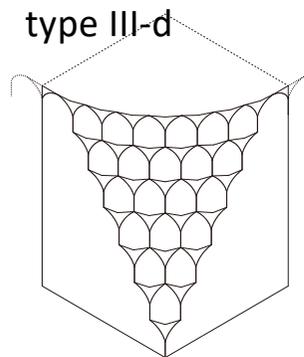
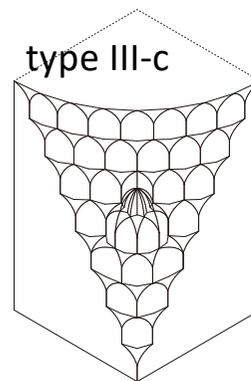
type III-a

type III-b

type IV-a



	I		II						III				IV		
	a	b	a	b	c	d	e	f	a	b	c	d	a	b	
1 st : 1050–1239	9	2													11
2 nd : 1240–1319		1	6	3	9	1	1								21
3 rd : 1320–1369		1	5	8			3	2	12	1				1	33
4 th : 1370–1409			2				2		1	2	4				11
5 th : 1410–1459			3				2		10		1	3	4		23
6 th : 1460–1520					1		2	2	1	3	2	3	2	11	27
Total	9	4	16	11	10	1	10	4	24	6	7	6	6	12	126



type III-c

type III-d

type IV-b

Mamluk Stone Muqarnas; polar coordination A to Khorazm to Turan in 1370s-1390s

Mamluk Stone Muqarnas; polar coordination B to Yazd, Aq-Qoyunlu, Tabriz in 1450s





V	102 E-6	Bâb el-Foutouh	باب الفتوح
V	96 E-6	Sekket Bâb el-Foutouh	سكة باب الفتوح
V	95 E-6	Souq el-Haddâdyn 鉄	سوق الحدادين
VII	315 G-6	El-Sebâtyeh 編み込み職人	السيباتيه
VII	310 G-6	Souq el-Khorounfech アーティチョーク	سوق الخرنفش
VII	281 H-6	Khott beyn el-Qasreyn	خط بين القصرين
VII	277 H-6	El-Soukkâryeh 砂糖商	السكراريه
VII	246 I-6	Souq Gouhargyeh 宝石商	سوق جوهرجيه
VII	232 I-K-6	El-Echrofyeh	الأشرفيه
VII	173 K-6	Souq el-Ghoury et (Souq el-A'qadyn el-Belady) 絹紐商	سوق الغوري
VIII	304 K-4-6	Sekket el-soultân el-Ghoury	سكة السلطان الغوري
VIII	258 M-6	El-Monâkhlyeh 篩職人	المناخله
VIII	257 M-6	El-Soukkaryeh 砂糖商	السكريه
VIII	249 M-6	Bâb Zoueyleh	باب زويله



• Advantages as an urban heritage asset.



Extensive historical material (textual and iconographic)



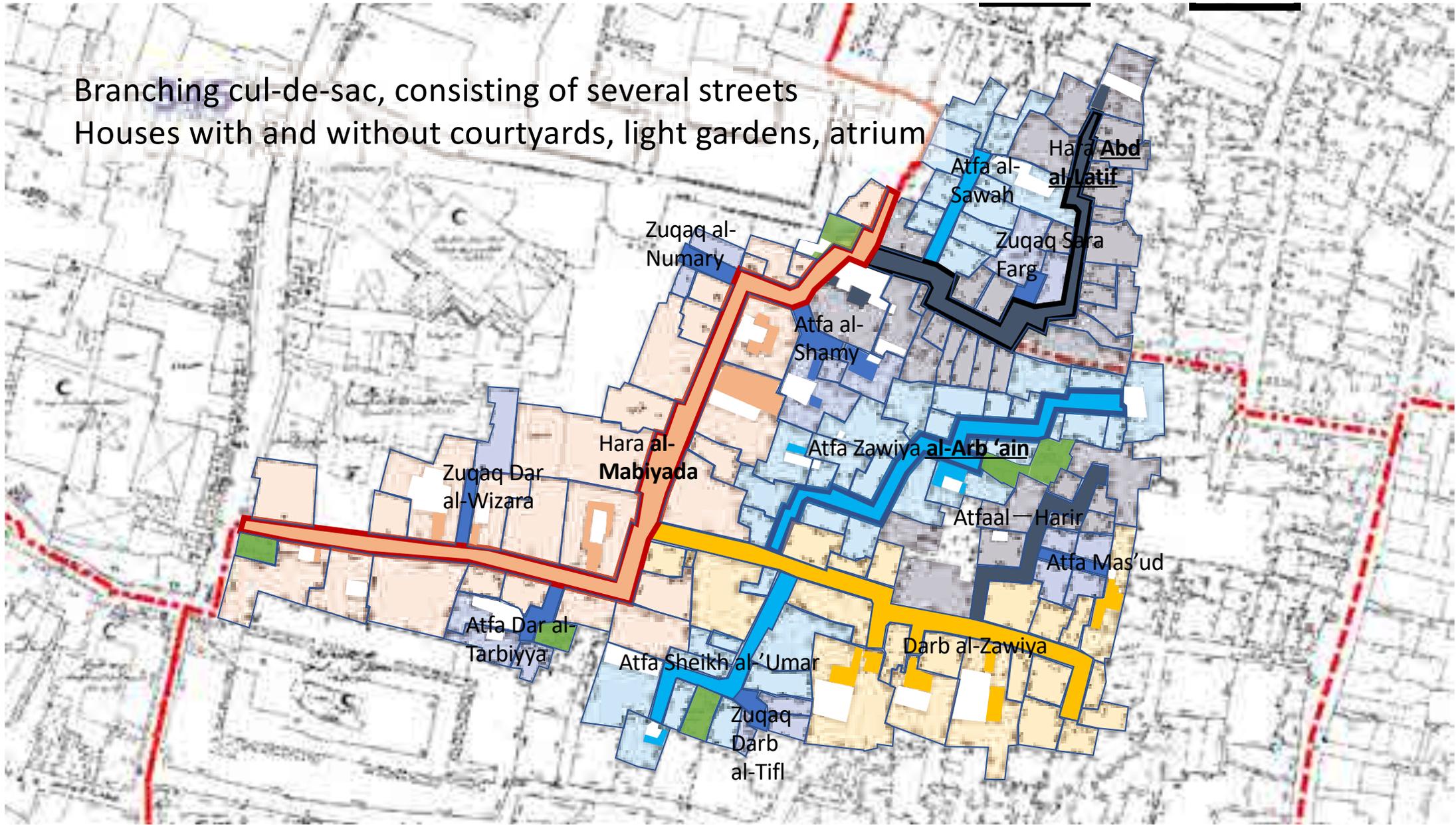


Know the traditional urban tissue as well as the historic buildings.



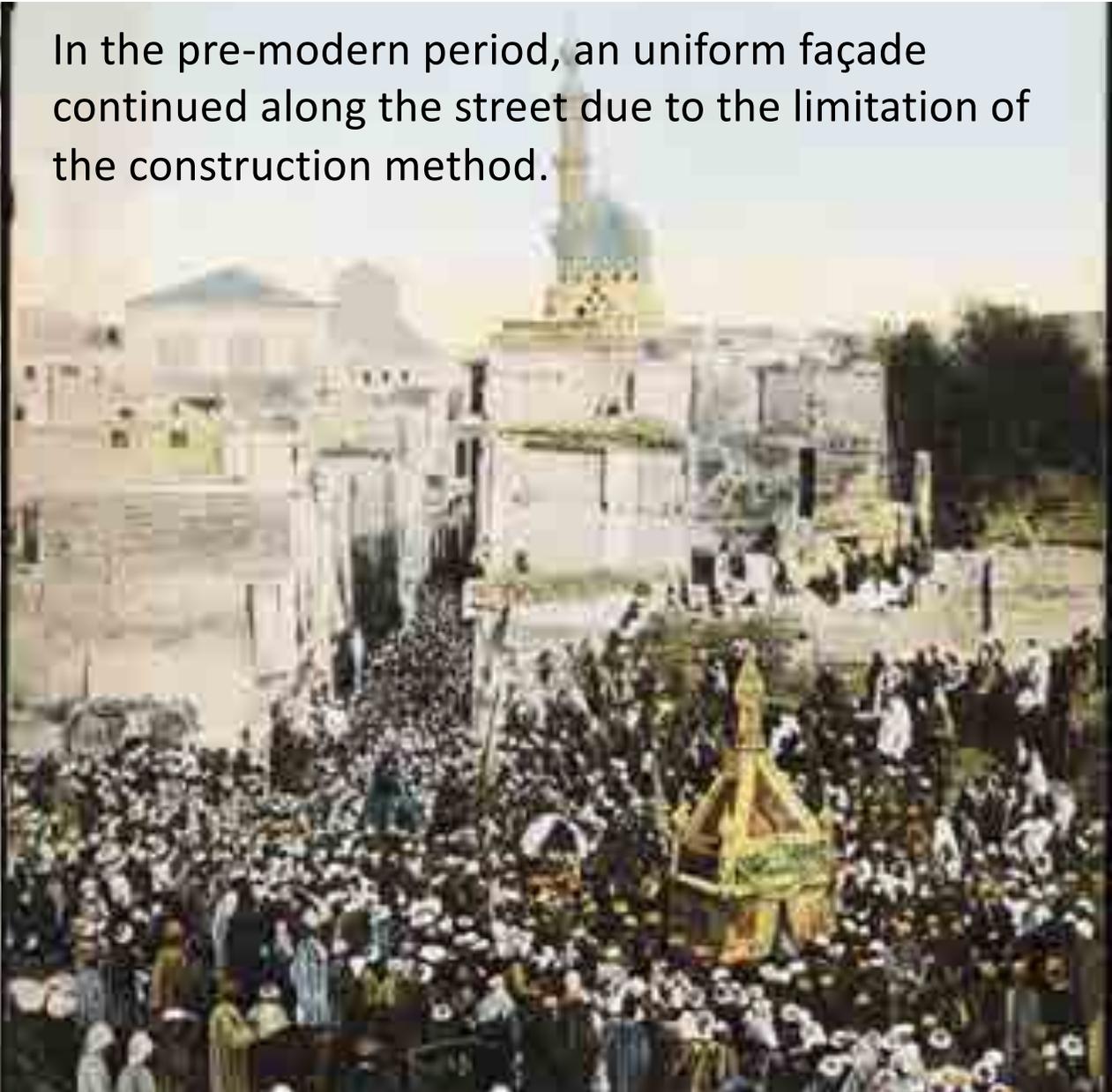
VII	<u>292G-5</u>	Derb el-Mabyadah	درب المبيضة
VII	<u>121G-4</u>	A'tfet A'bd el-Lâtyf	عطفة عبد اللطيف
VII	<u>119G-4</u>	Derb el-Arba'yn	درب الأربعين

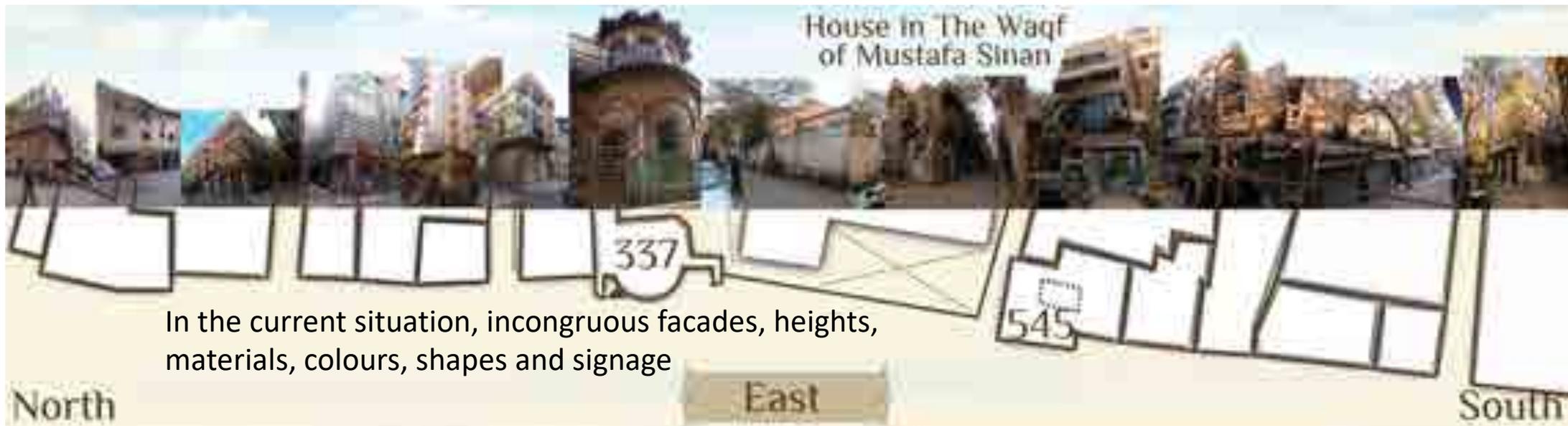
Branching cul-de-sac, consisting of several streets
Houses with and without courtyards, light gardens, atrium





In the pre-modern period, an uniform façade continued along the street due to the limitation of the construction method.





مقترح تطوير شارع القزازين شرقا



الوجهه المقترحة لشارع القزازين بعد تحسينها وتطويرها لتناسب مع طابع المنطقة

الحالة المتدهورة لمبانى شارع القزازين

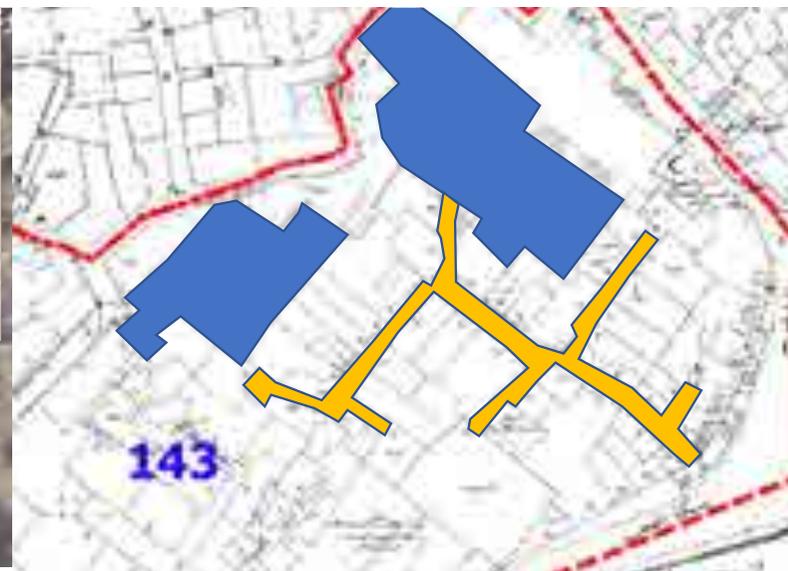
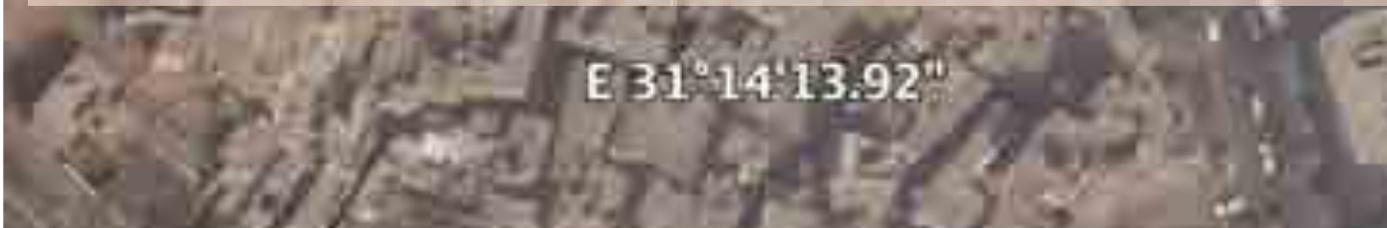


تطوير منطقة الحسين - مرحلة التخطيط المبدئى - اصدار (ب) - يوليو 2021

Prof. Salah Zaki's plan for landscape preservation in Gamaleiyya

Along with landscape conservation, there is a need to improve the infrastructure of the neighbourhoods, accommodate modern systems such as cars and rubbish, and consider how people from various income layers live in the area.

Informal and irregular residential areas were cleared in Saieda Zeinab and modern residential areas were created. In Darb Labbana, in the area of the World Heritage Core Zone, similarly irregular residential areas were cleared. What type of housing and urban tissues will be built here? Does a uniform modern residential area really belong in a historic district?



Diversity is drawn from history. Harmony with a certain range is different from uniformity.



Early Islam

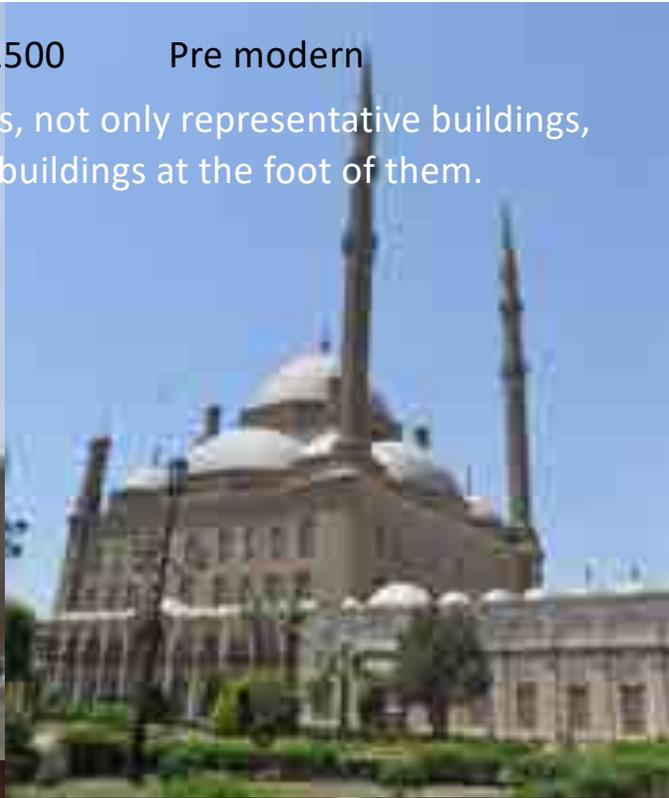
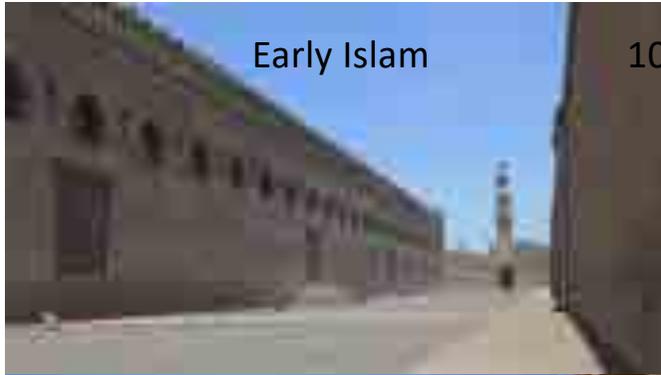
1000

medieval

1500

Pre modern

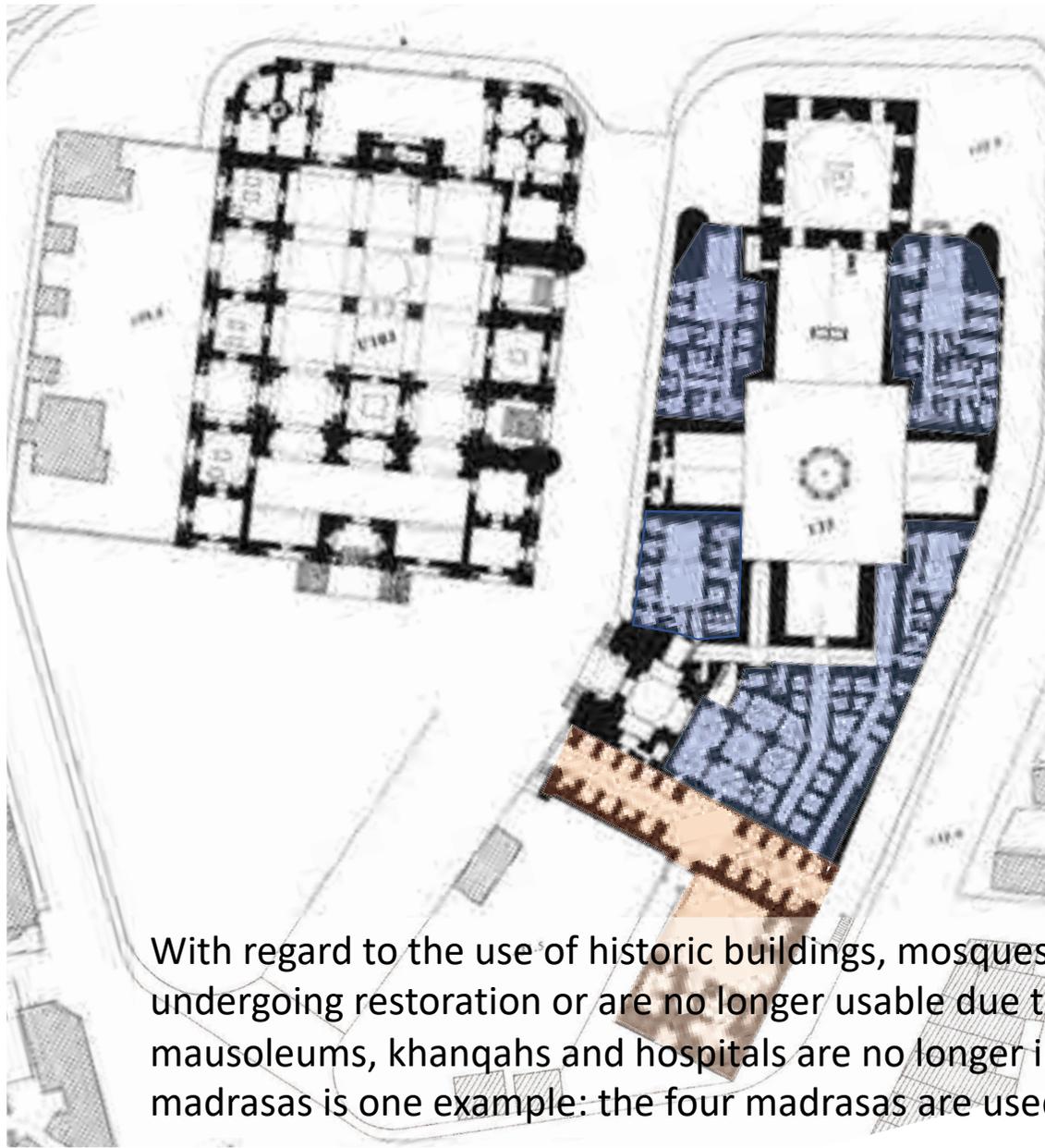
Numerous historic buildings, not only representative buildings, but also a large number of buildings at the foot of them.



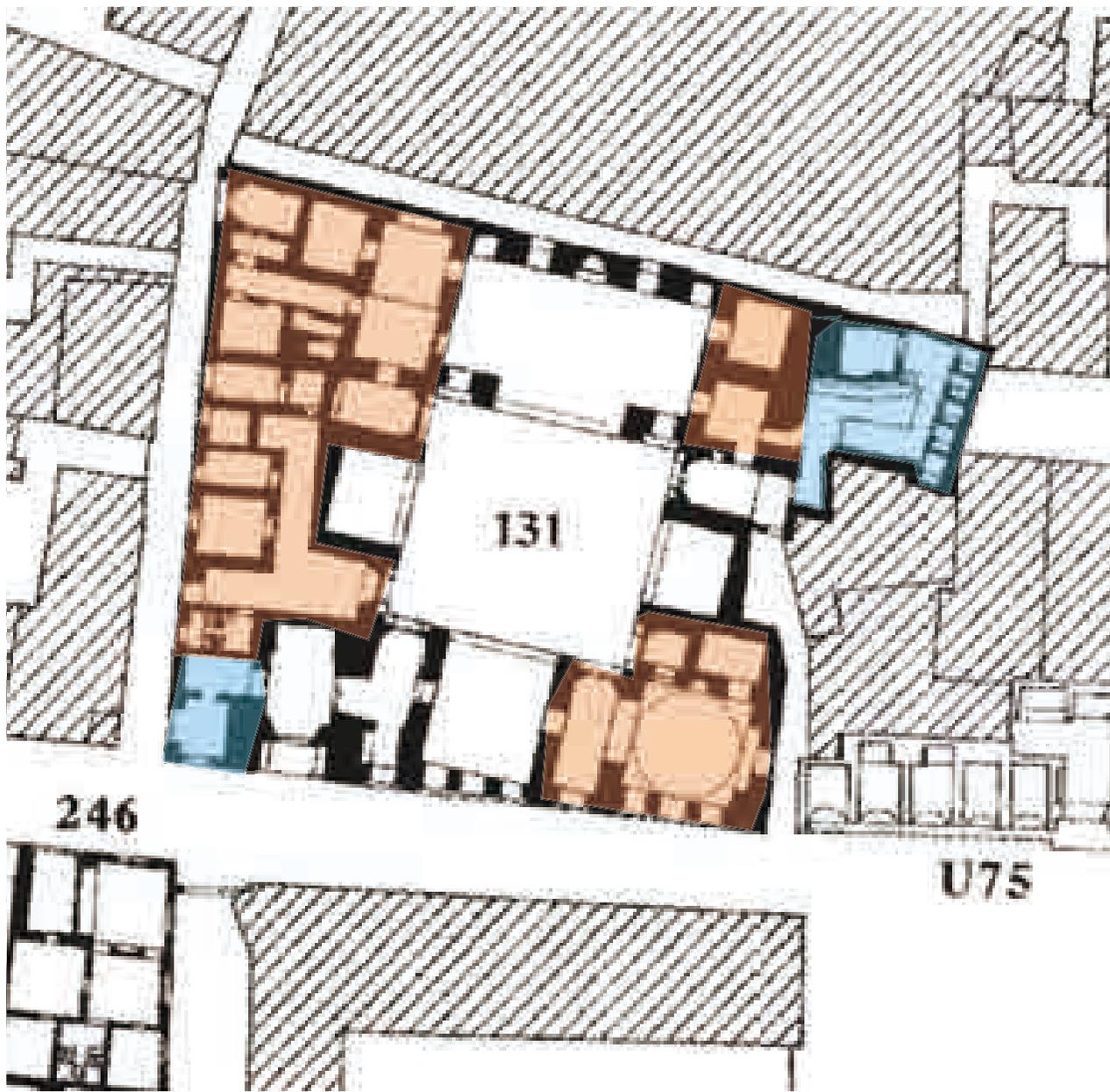
From the viewpoint of the history of Islamic Architecture

<https://qalawun.aa-ken.jp/vrtour/>





With regard to the use of historic buildings, mosques are often used for daily prayer. Some mosques are undergoing restoration or are no longer usable due to damage, though. However, many madrasas, mausoleums, khanqahs and hospitals are no longer in use due to changes in function. Sultan Hasan's madrasas is one example: the four madrasas are used for events, but are usually locked.

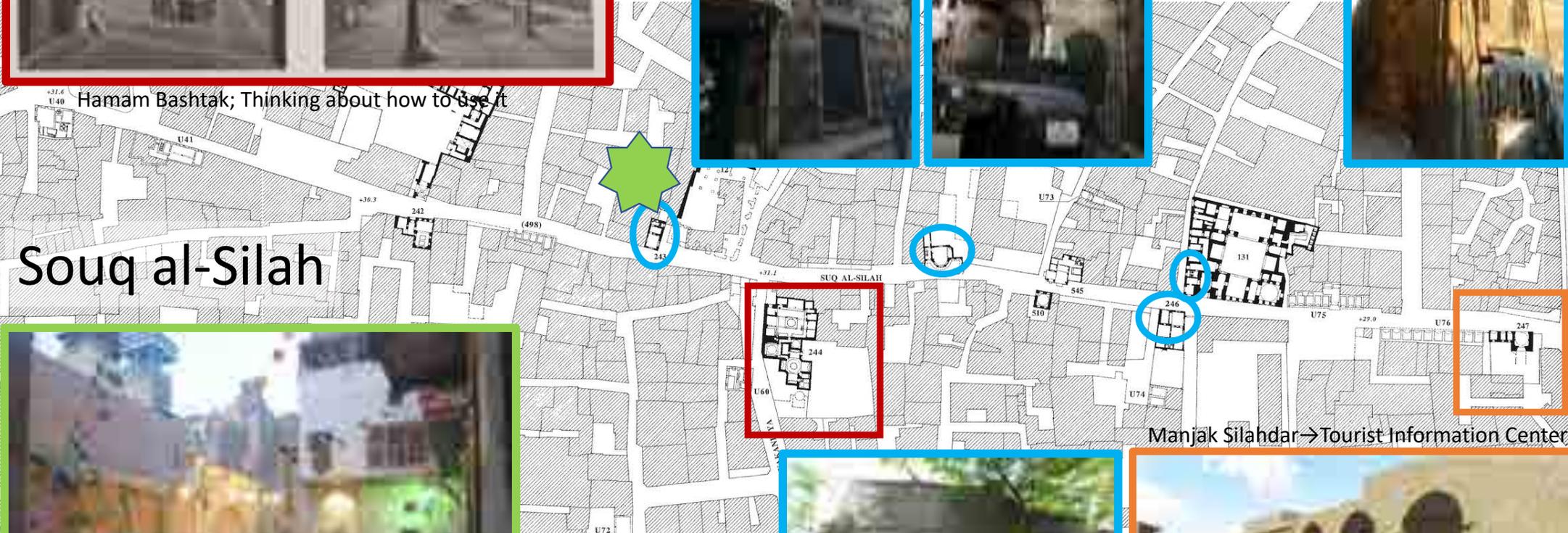




Hamam Bashtak; Thinking about how to use it



4 Sabil Kuttab
To negotiate the
function with
neighbours



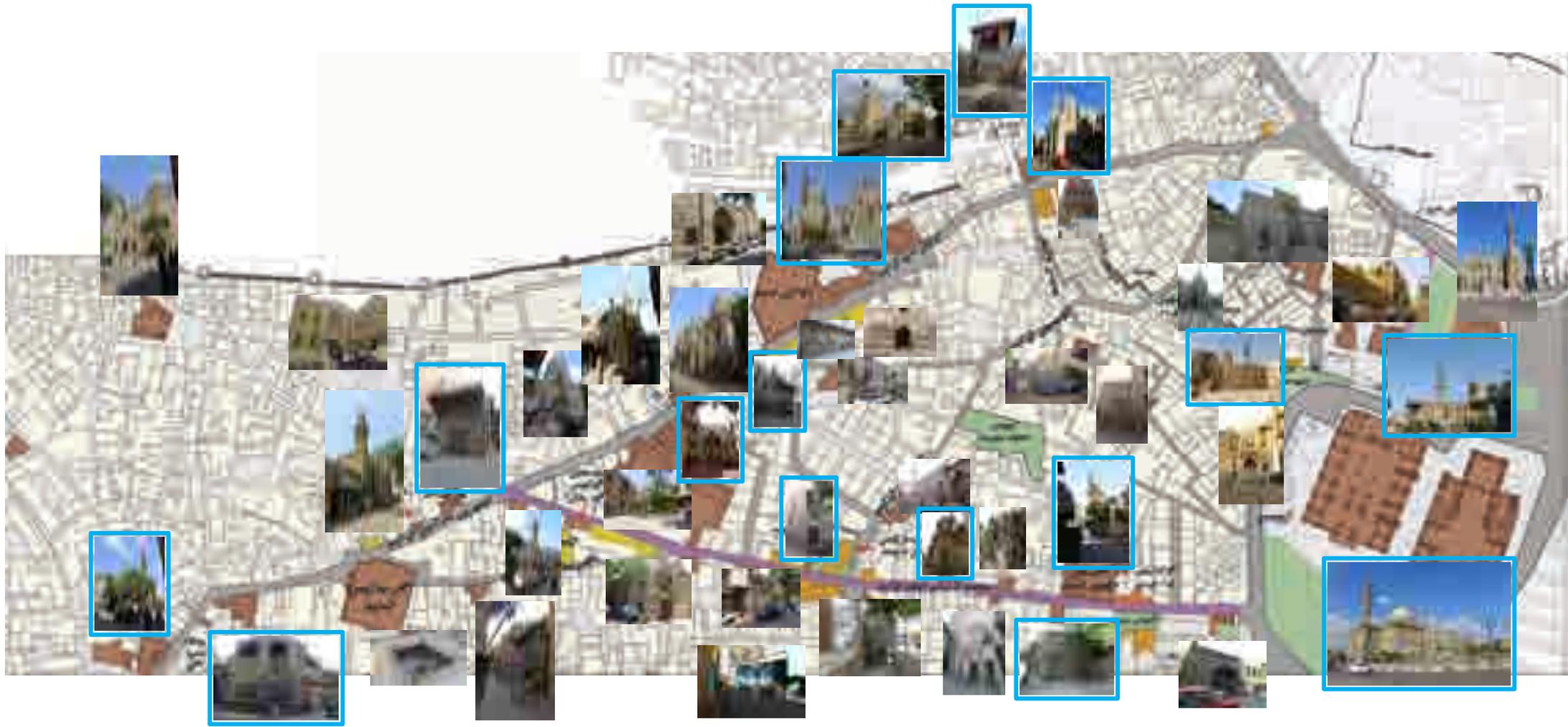
Souq al-Silah



Bayt Yakan; Toyota
Foundation May 2016 –
Apr. 2018. 29 workshops
as an opportunity to build
community, a place for
everyone



Manjak Silahdar → Tourist Information Center



Make use of unused historical buildings.

In particular, the Sabil has been replaced by the installation of a water supply system.

The idea of using an underground cistern in addition to the GF and 1st floor was conceived at a residents' workshop.

- History of Islamic Architecture;
Global architectural culture
Geometry-Muqarnas
- Special features of Cairo's monument
Napoleon's map → Urban Tissue; Hala
Value of historic buildings along → street, landscape preservation
Sultan Hasan, Sabil Kuttab → reusing historic building

Underground cisterns at Sabil Kuttab are used as emergency water tanks.

Modern technology may be used to store drinking water or to store water for planting or for use as water in case of fire.

Underground structures as a historic resource remain under-recognised. For example, channels for drainage could be considered for some modern use.

Reusing historic monument

- Residents' opinion through the series of workshops

Landscape conservation

- It will be merit for tourism, though in the relation of residents' daily lives, what do they think?

What is the value of history?

- Thinking historical values in contemporary life and sustainability for the future.

The role of facilitators

- Communicate clearly to residents

- Useful information for residents to become more familiar with their heritage

Uniform residential planning

- In my opinion, there is a slightly different way of thinking, which is not in keeping with the historic town.
- There is a need to listen to residents' views.