A ROUNDTABLE WORKSHOP

THE EIGHT SITE AND SERVICES / CORE HOUSE DEMONSTRATION PROJECTS OF THE ’70s

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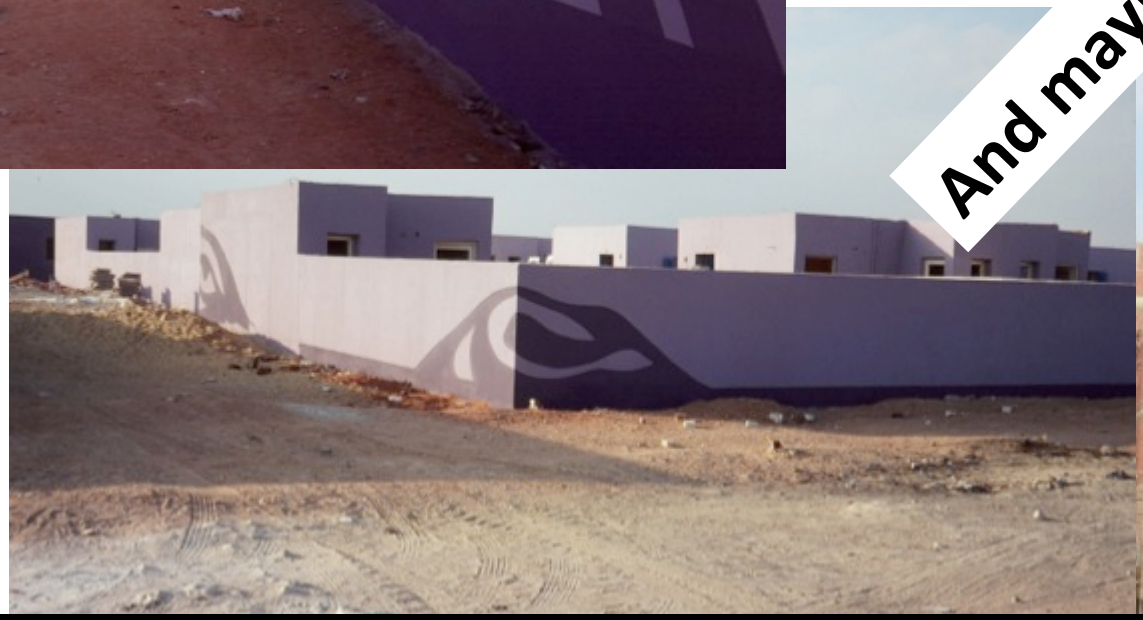
GATHERING DATA WHEN ACCESS IS DIFFICULT – EXPERIMENTING WITH GOOGLE EARTH AS SURROGATE

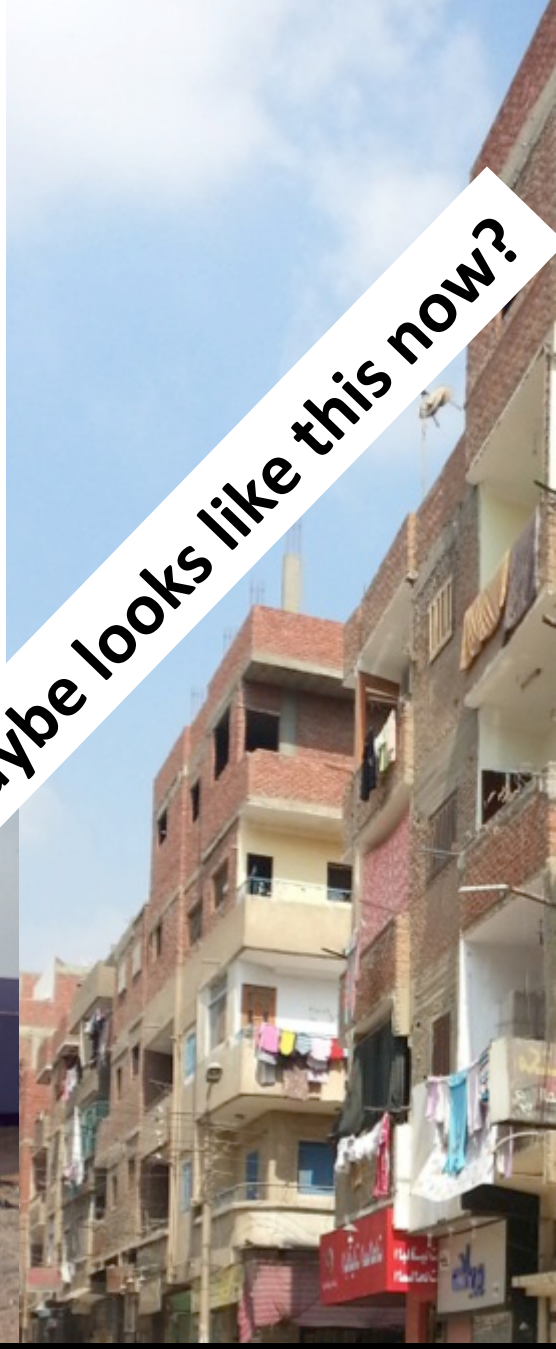
A Seminar at Cairo University in 1979 documented eight demonstration projects testing new housing strategies

WHAT HAPPENED TO THE PROJECTS 35+ YEARS AFTER? WHAT LESSONS CAN THEY TEACH US?

Which project started like this?



And maybe looks like this now?



And what can we learn from this?

HOW CAN WE FIND OUT?

- *Standard surveys* with detailed family interviews and *house to house assessment* ideal

BUT

- Not a good time considering the situation
- Substantial preparation, trained survey team, financial resources necessary to be credible

NEEDS CONSIDERABLE LEAD TIME

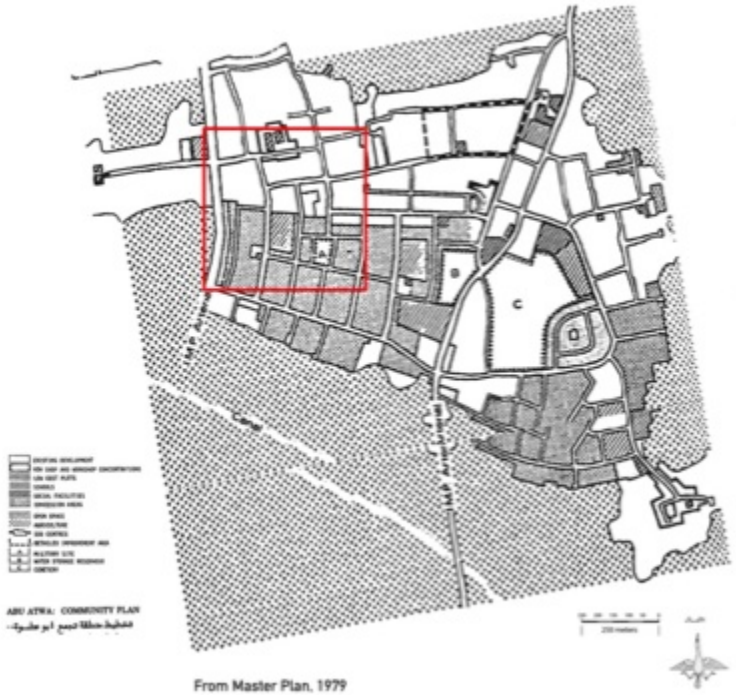
BUT STILL….
CAN WE FIND SOMETHING USEFUL QUICKLY?

Population continues to explode and cannot wait!!!!

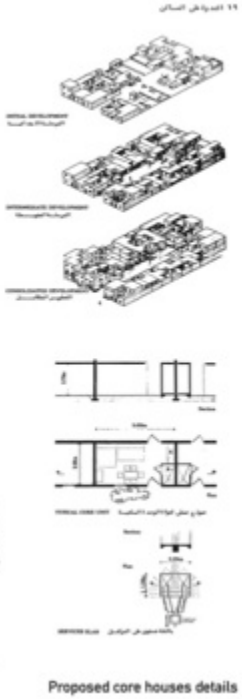
Introduction to the Eight Projects

- Ismailia
- Suez City
- Assiut
- Sadat City New Town
- 10th of Ramadan New Town
- Helwan Housing Project
- Port Said

ISMAILIA DEMONSTRATION PROJECT/ ABU ATWA



From Master Plan, 1979

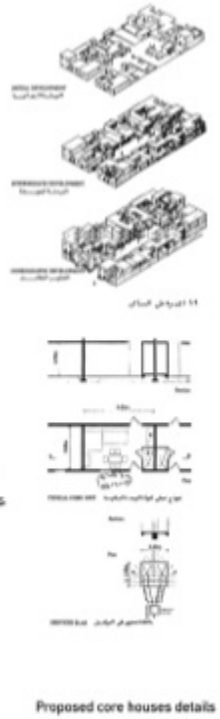


Proposed core houses details

Google/Bing Image, 2014

ISMAILIA DEMONSTRATION PROJECT/ EL HEKR

From Master Plan, 1979



Proposed core houses details

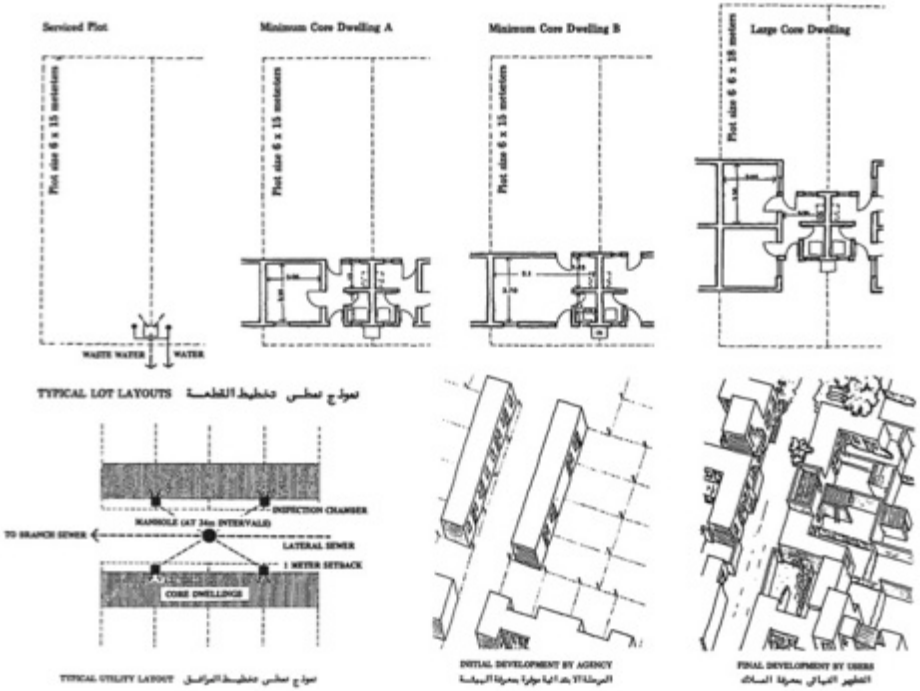
Hai Al- Salam during the 1980s

Thanks to Forbes Davidson and Mariam AbdelAzim

Hai Al- Salam Today

Thanks to Forbes Davidson, Mariam Abdel Azeem

SUEZ DEMONSTRATION PROJECT/ CABANON

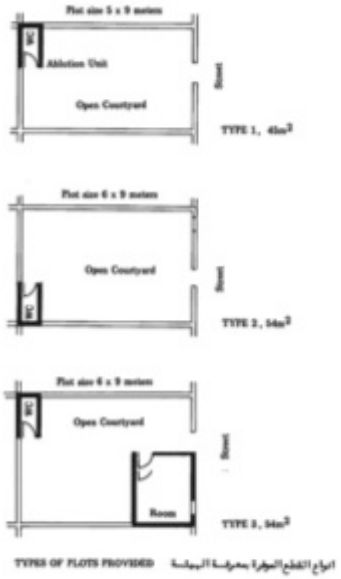


Proposed core houses details. 1979

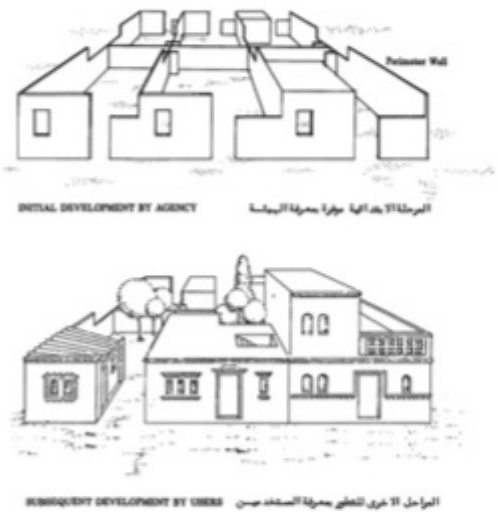
Google/Bing Image. 2014

From Master Plan. 1979

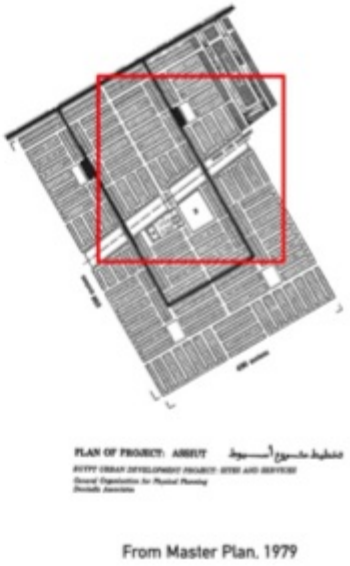
ASSIUT HOUSING PROJECT



Proposed core houses details, 1979

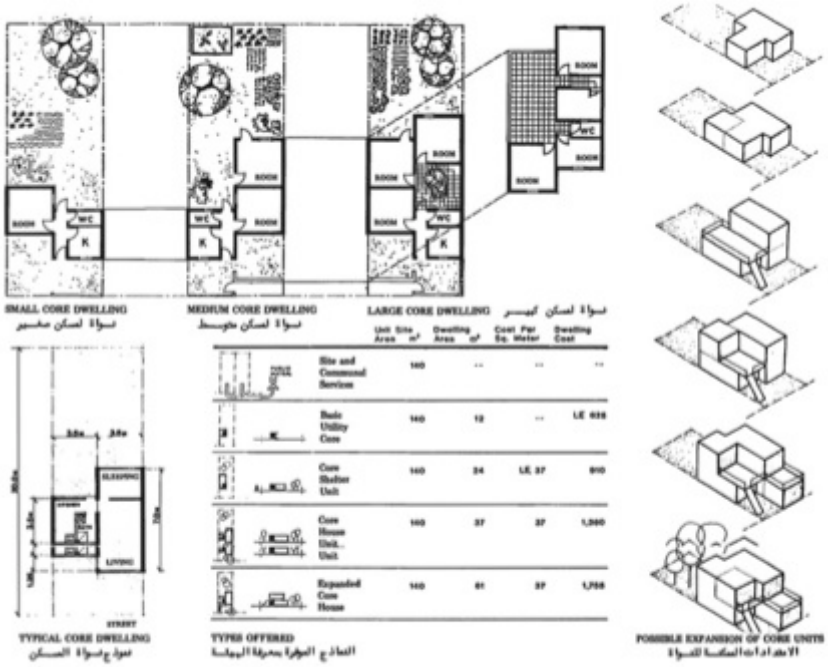


Google/Bing Image, 2014



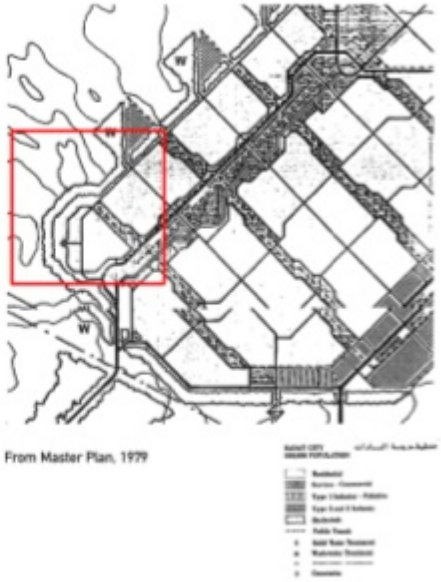
From Master Plan, 1979

SADAT CITY CORE HOUSING PROJECT



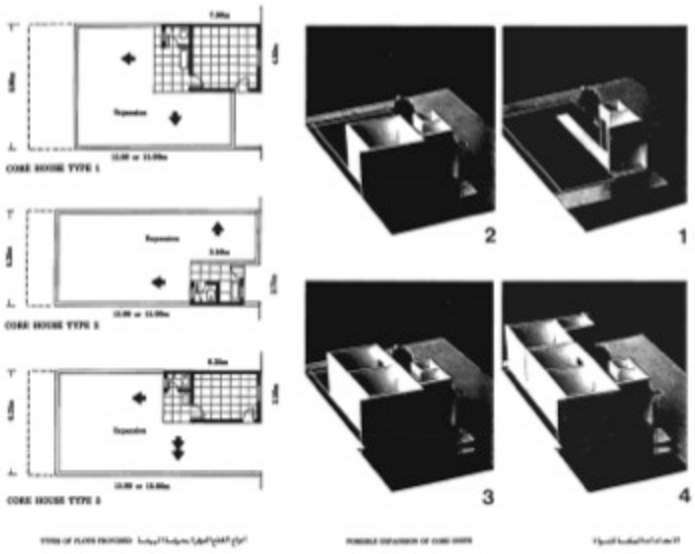
Proposed core houses details, 1979

Google/Bing Image, 2014



From Master Plan, 1979

10TH OF RAMADAN CORE HOUSING PROJECT

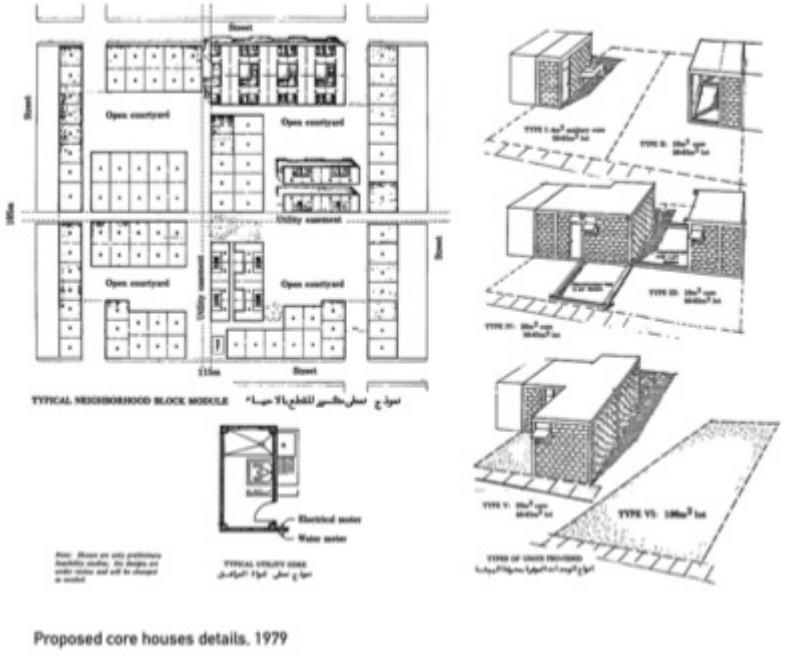


Proposed core houses details. 1979

Google/Bing Image. 2014

From Master Plan, 1979

HELWAN CITY HOUSING PROJECT

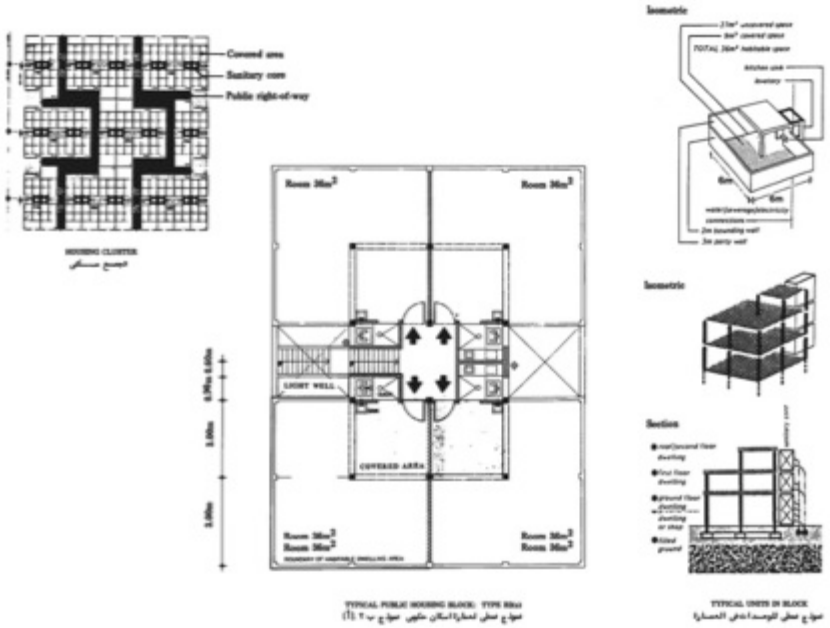


Proposed core houses details, 1979

Google/Bing Image, 2014

From Master Plan, 1979

PORT SAID DEMONSTRATION PROJECT/ CABANON



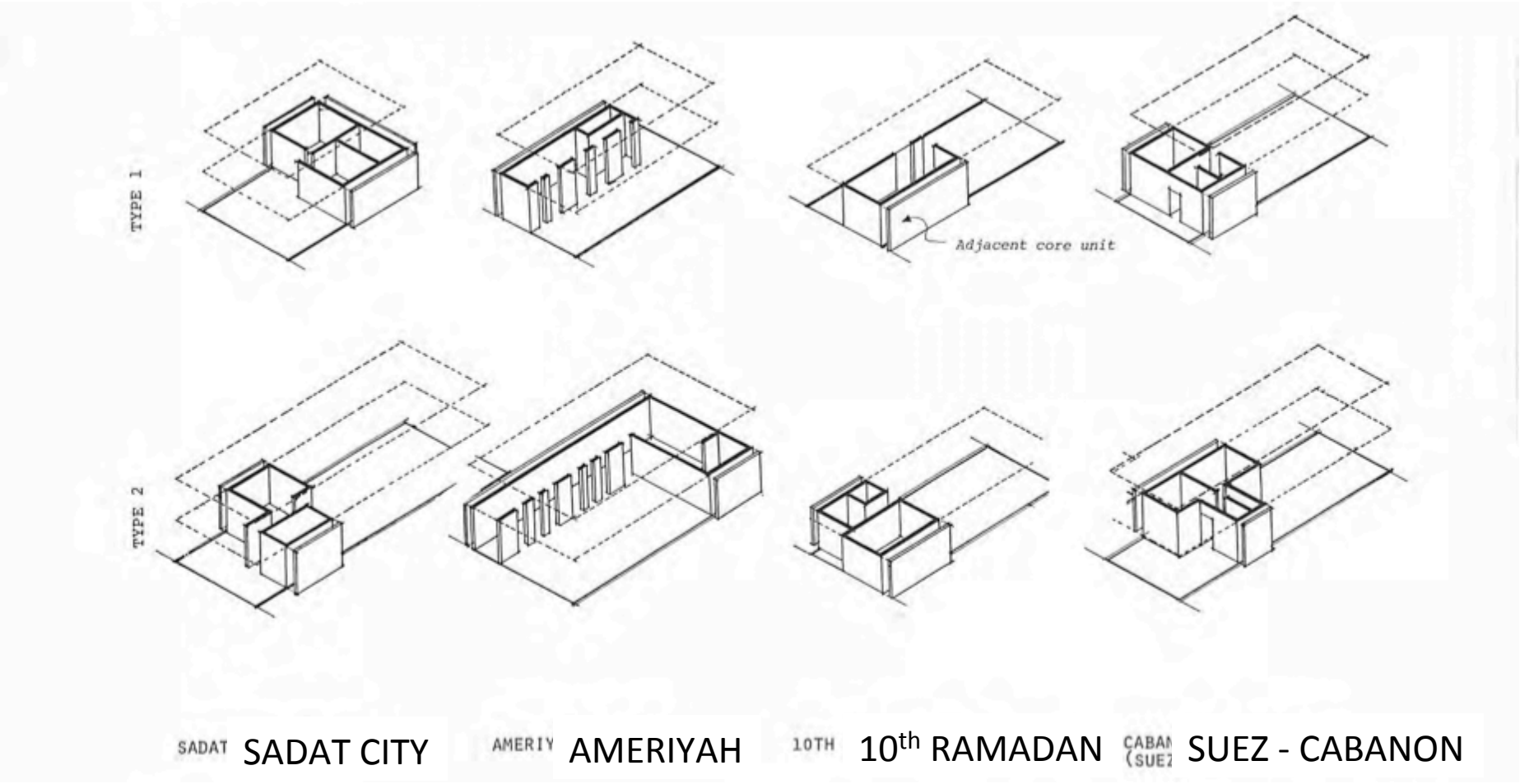
Proposed core houses details, 1979

* best guess location

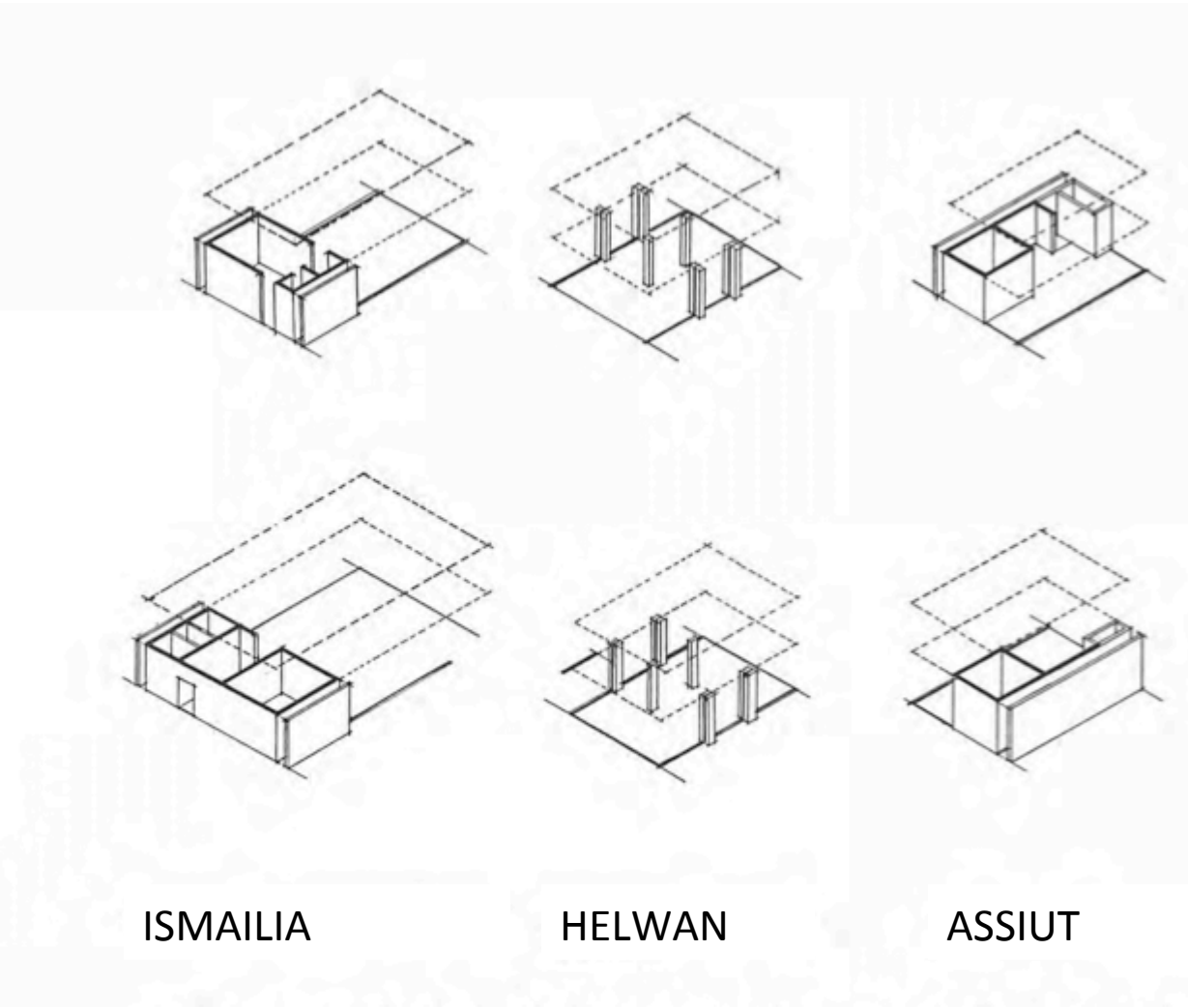
Google/Bing Image, 2014

From Master Plan, 1979

Summary of Core Units



From research by Dr. Zakia Shafie



ISMAILIA HELWAN ASSIUT

From research by Dr. Zakia Shafie

We experimented with Google Earth/Bing for a Quick Understanding of the Situation

Easy to do, inexpensive, repeatable

Can do it remotely

Has built-in tools (measurement of areas, lines, etc)

BUT

Is the quality good enough for useful data?

What are the limits to the type of data that you can get?

Which project started like this?

And maybe looks like this now?

And what can we learn from this?

METHODOLOGY

- Located project site from Google images
- Selected 500m x 500m reference sample
- Expanded sample to large scale
- Selected illustrative block to test
- Determined basic data from sample image

HELWAN CITY HOUSING PROJECT

Google/Bing Image, 2014

Using data from the block in the representative segment please complete the following table

1	What is the TOTAL NUMBER OF LOTS in the study block? What is the TOTAL AREA of the study block?	Total Number				Total Area (Hectares)			Observations
2	What is the approximate SIZE OF THE LOTS in the study area? Please consider variations in size.	Smallest		Typical		Largest			Observations
		Size (sq. mts.)	Number	Size (sq. mts.)	Number	Size (sq. mts.)	Number		
3	What is the approximate NUMBER OF UNBUILT LOTS and estimate the PERCENTAGE	Number				Percentage of Total (%)			Observations
4	What is the approximate NUMBER OF LOTS UNDER CONSTRUCTION and estimate the PERCENTAGE.	Number				Percentage of Total (%)			Observations
5	What is the approximate NUMBER OF LOTS WITH COMPLETED BUILDINGS and estimate the PERCENTAGE.	Number				Percentage of Total (%)			Observations
6	What is the approximate HEIGHT OF THE BUILDINGS in the study block? Please consider variations in size.	Lowest		Typical		Highest			Observations
		Height (stories)	Number	Height (stories)	Number	Height (stories)	Number		
7	Estimated POPULATION DENSITY in study block assuming 4 h. people per story.	People per hectare							Observations
8	Estimated POPULATION DENSITY AT FULL DEVELOPMENT (All per unit in block developed to typical height)	People per hectare							Observations

		Yes	No	Partially	Observations
9	Was the project BUILT AS PLANNED?				
		Yes	No	Partially	Observations
10	Could you obtain USEFUL DATA through this method?				

Your Turn!

Examine selected block photo and fill in data table.

Datasheet for roundtable workshop

Using data from the block in the representative segment please complete the following table

1	What is the **TOTAL NUMBER OF LOTS** in the study block? What is the **TOTAL AREA** of the study block?	**Total Number**				**Total Area (Hectares)**			**Observations**
2	What is the approximate **SIZE OF THE LOTS** in the study area? Please consider variations in size.	**Smallest**		**Typical**		**Largest**			**Observations**
		Size (sq. mts.)	*Number*	*Size (sq. mts.)*	*Number*	*Size (sq. mts.)*	*Number*		
3	What is the approximate **NUMBER OF UNBUILT LOTS** and estimate the **PERCENTAGE.**	**Number**				**Percentage of Total (%)**			**Observations**
4	What is the approximate **NUMBER OF LOTS UNDER CONSTRUCTION** and estimate the **PERCENTAGE.**	**Number**				**Percentage of Total (%)**			**Observations**
5	What is the approximate **NUMBER OF LOTS WITH COMPLETED BUILDINGS** and estimate the **PERCENTAGE.**	**Number**				**Percentage of Total (%)**			**Observations**
6	What is the approximate **HEIGHT OF THE BUILDINGS** in the study block? Please consider variations in size.	**Lowest**		**Typical**		**Highest**			**Observations**
		Height (stories)	*Number*	*Height (stories)*	*Number*	*Height (stories)*	*Number*		
7	Estimated **POPULATION DENSITY** in study block assuming 4.4. people per story.	**People per hectare**							**Observations**
8	Estimated **POPULATION DENSITY AT FULL DEVELOPMENT** (All parcels in block developed to typical height)	**People per hectare**							**Observations**

YOUR TURN!

9	Was the project **BUILT AS PLANNED**?	**Yes**	**No**	**Partially**	**Observations**
10	Could you obtain **USEFUL DATA** through this method?	**Yes**	**No**	**Partially**	**Observations**

YOUR TURN!

YOUR TURN!

What data can you find from Google images?

DATA NEEDED/ WANTED	Very Easy	Easy	Neutral	Hard	Very Hard
Lot boundaries					
Lot sizes					
Lot area					
Built/Unbuilt					
Under Construction/ Finished					
Number of stories (shadow)					

YOUR TURN!

Can you find more data from Google images?

Some things are difficult if not impossible to see from aerial views

Thanks to Forbes Davidson, Mariam Abdel Azeem

What ALTERNATIVES to Google could you use?

PHYSICAL DATA FULL AREA	Very Easy	Easy	Neutral	Hard	Very Hard
Aerial photographs					
Drones					

YOUR TURN!

What ALTERNATIVES to Google could you use?

PHYSICAL DATA TRANSECT VIEWS	Very Easy	Easy	Neutral	Hard	Very Hard
Google street views?					
Drive-through/ walk through					
Drone fly-through					

YOUR TURN!

What ALTERNATIVES to Google could you use?

SOCIAL/ PROCESS DATA	Very Easy	Easy	Neutral	Hard	Very Hard
Individual interviews					
Cell phone responses					
Mail in surveys					
Photo essays					

YOUR TURN!

REFLECTIONS

The opportunity to actually survey the 8 demonstration projects may be at hand!

If you get MUCH FUNDING, which methods would you choose to find information? (ex: Gates Foundation?)

If you get LITTLE FUNDING, which methods would you choose to find information? (ex: Current academic resources, volunteer students, etc.)

YOUR TURN!

SPONSIVE URBANISM
INFORMAL AREAS

REGIONAL AGENDA FOR HABITAT III
BER, 2014 - Cairo
PONSIVE URBANISM
NFORMAL AREAS
المناطق اللارسمية