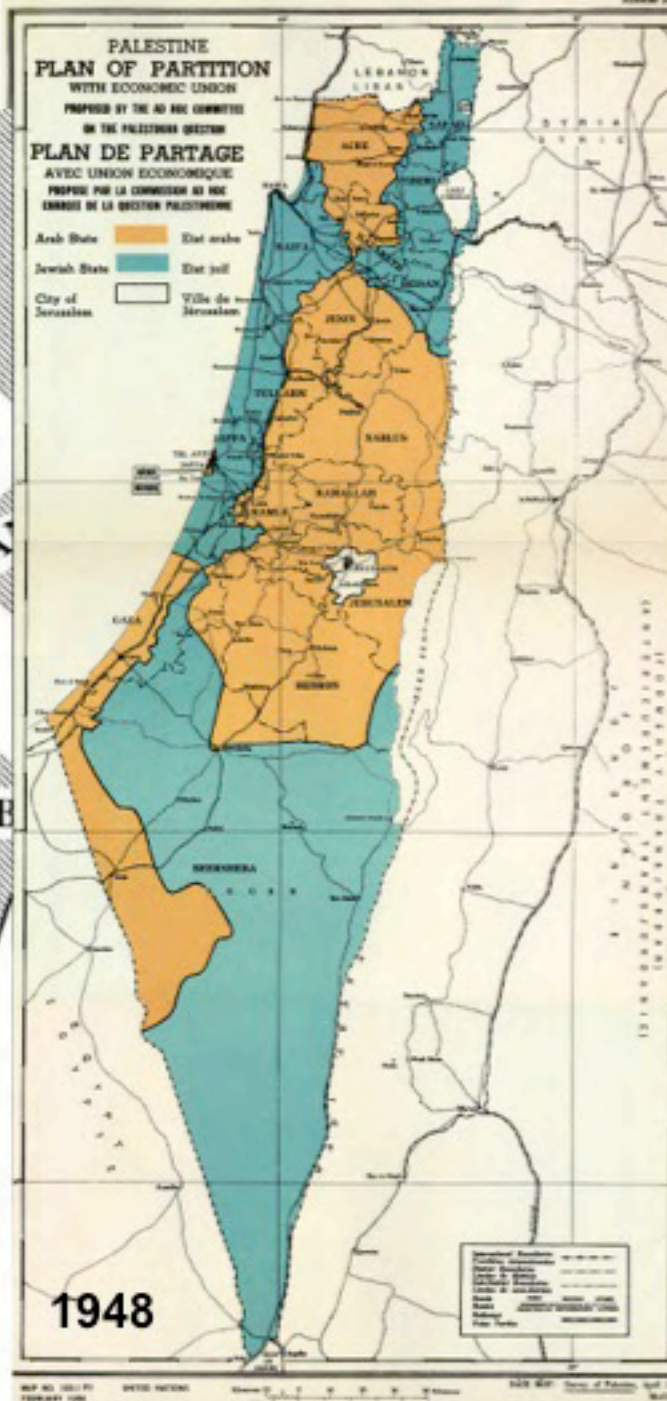


NAHR EL-BARED
Lebanon - 2007/2008



1. CONTEXT





Number of refugees

1948 → 800'000

2005 → 4'200'000

1'200'000 in the camps











2. Nahr El-Bared / The Conflict (May 22nd to September 4th, 2007)





1951



2005



2007



Before the conflict – July 2005



After the conflict – August 2007













3. The RECONSTRUCTION



The vision of the government



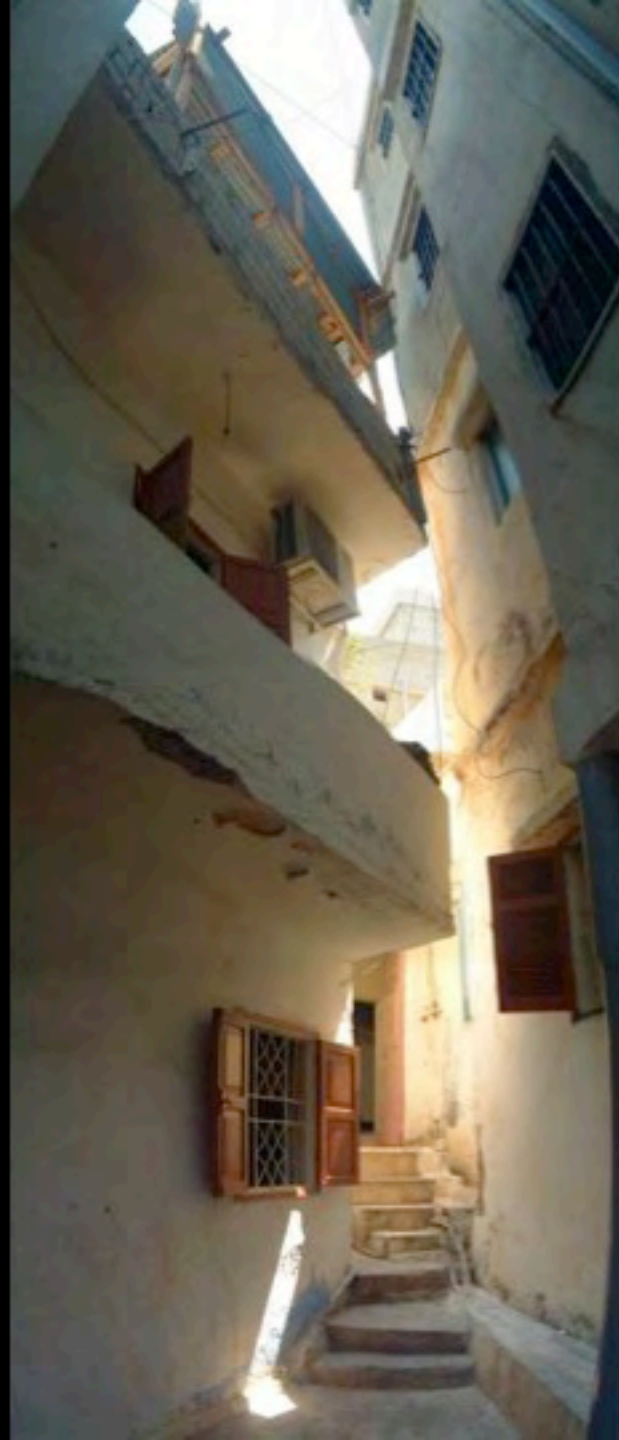
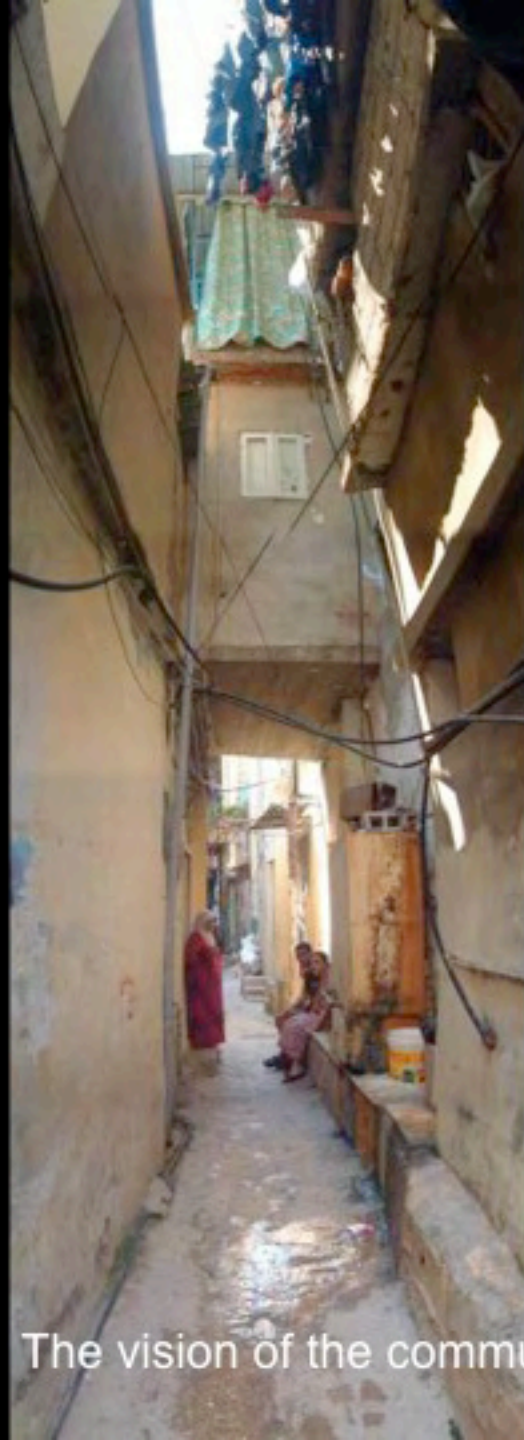
Conquest



Toluca / Mexico

The vision of the architects





The vision of the community

The participatory approach



Adaptation

The References





The Principles

■ Maintain

- Landmarks (mosqs, kindergartens, schools, clubs, NGOs)
- Economic fabric (souks, workshops)
- Urban pattern (alleys, main circulation)
- Building typologies (one family per building, possible vertical extension).

■ Improve

- Living spaces
- Light
- Ventilation
- Access
- Public spaces

■ Compensate affected families from losses due to the conflict.

■ Permit the return of all displaced to their original pre-destruction owned areas.

The situation in September 2007



The Reconstitution of the city



Landmarks



Legend:
Red: Building Footprints
Black: Street Network
Green: Open Space
Yellow: Water Bodies
Blue: Transportation Infrastructure
Grey: Other Landmarks

North of Barred
Space Typology in ALL CAMP
Scale: 1:10000/1400

Situation before destruction







The urban principle



NAHR EL-BARED
Palestine Refugee Camp
Lebanon

-  main distribution roads 4 to 6 meters wide
-  internal streets 2 to 3 meters wide
-  mosques
-  community buildings (kindergartens, clubs)
-  open spaces
-  main commercial zone (ground floor)
-  NEW CAMP
buildings to be rebuilt as before conflict
-  OLD CAMP
new urban master plan

0m 50 100 200

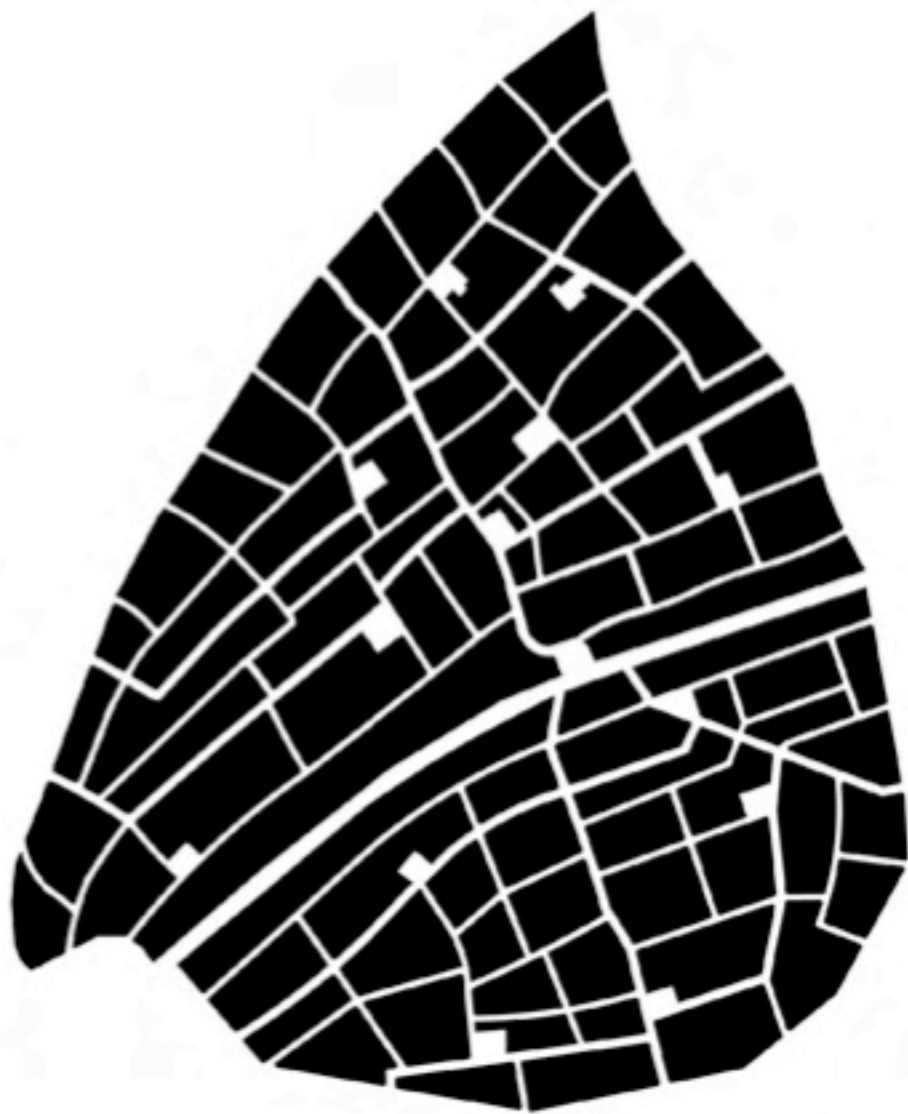
November 2007



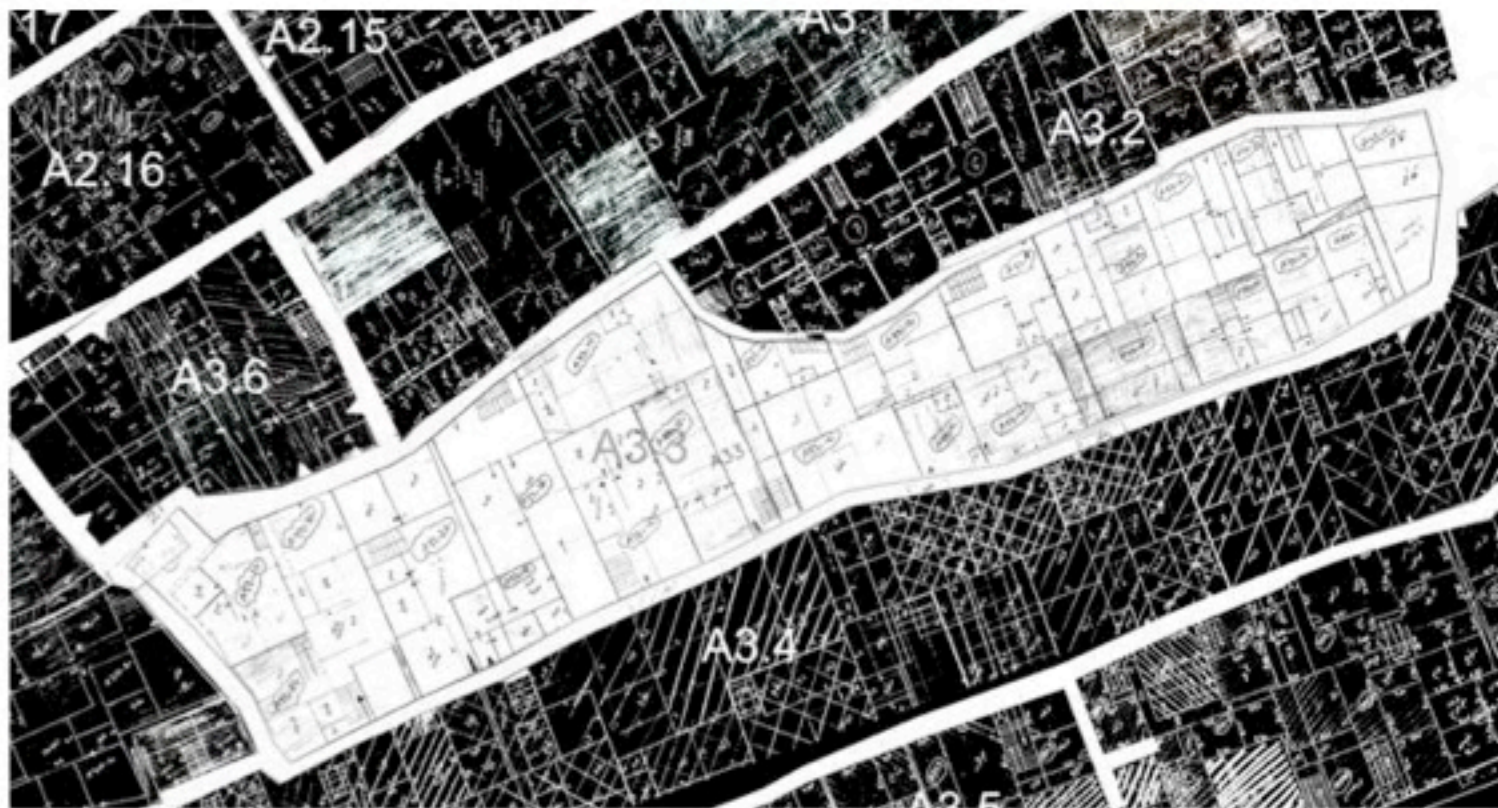
Before



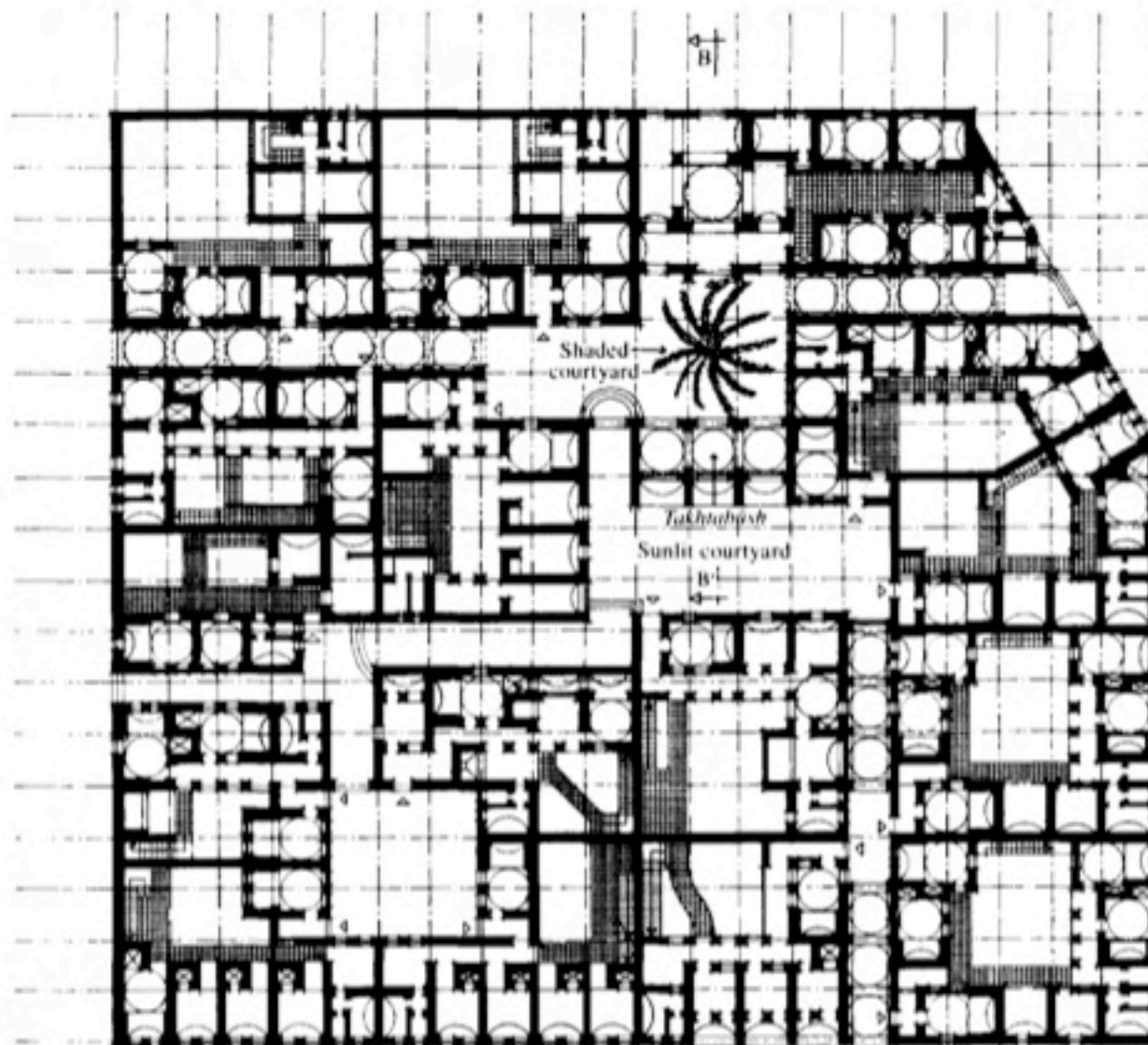
After



The Houses



The Reference



H.Fathy / Cairo

The Principles

- Main road 12 m wide
- Secondary roads minimum 4.5 m wide
- Minimal block dimension 3'000 m²
- No extension of the camp area

Apartments

Dimensions	Living room	14 m ²
	Bedroom	14 m ²
	Kitchen	10 m ²
	Bathroom	5 m ²

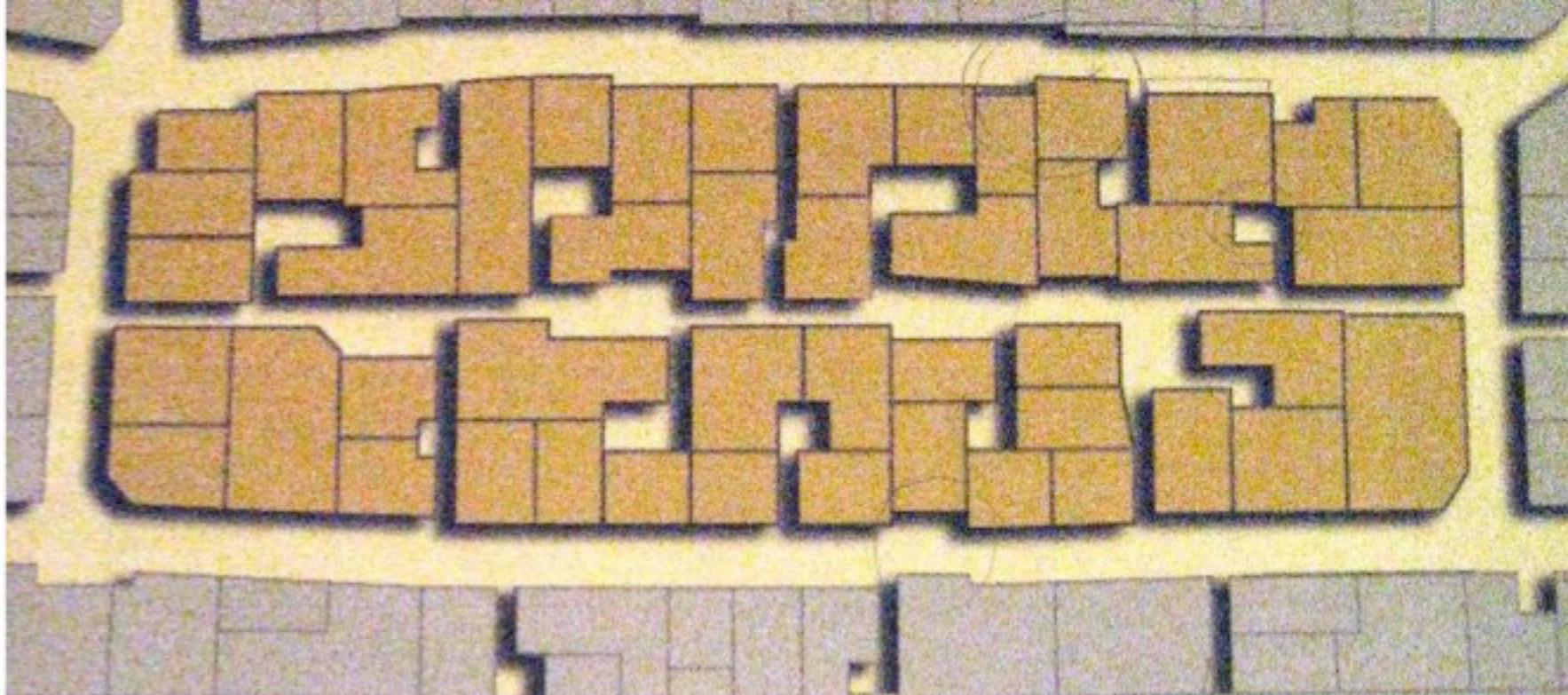
*25% of the surface for construction and circulation
12 m² of private external space per unit*

Units:

1 – 2 persons	1 bdrm + kitchen + bathroom	43 m
3 – 4 persons	2 bdrm + kitchen + bathroom	57 m ²
5 – 7 persons	3 bdrm + kitchen + bathroom	71 m ²
8 +	4 bdrm + kitchen + bathroom	85 m ²

The Survey



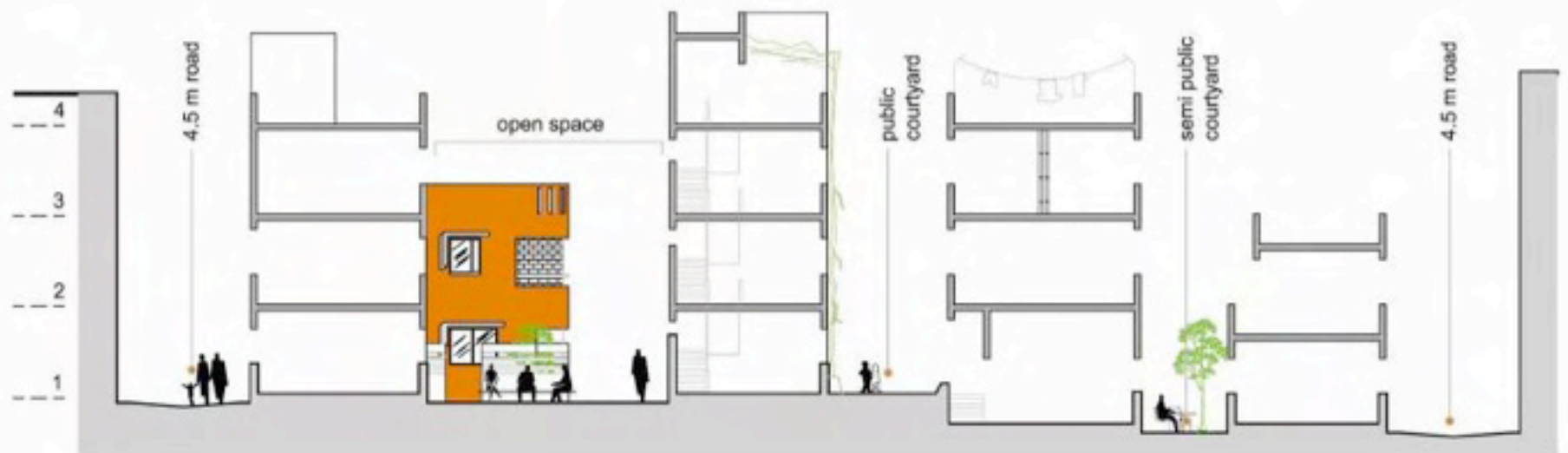


Before



After





Communication with the community



Communication with the partners



Reconstruction of Jenine – West Bank



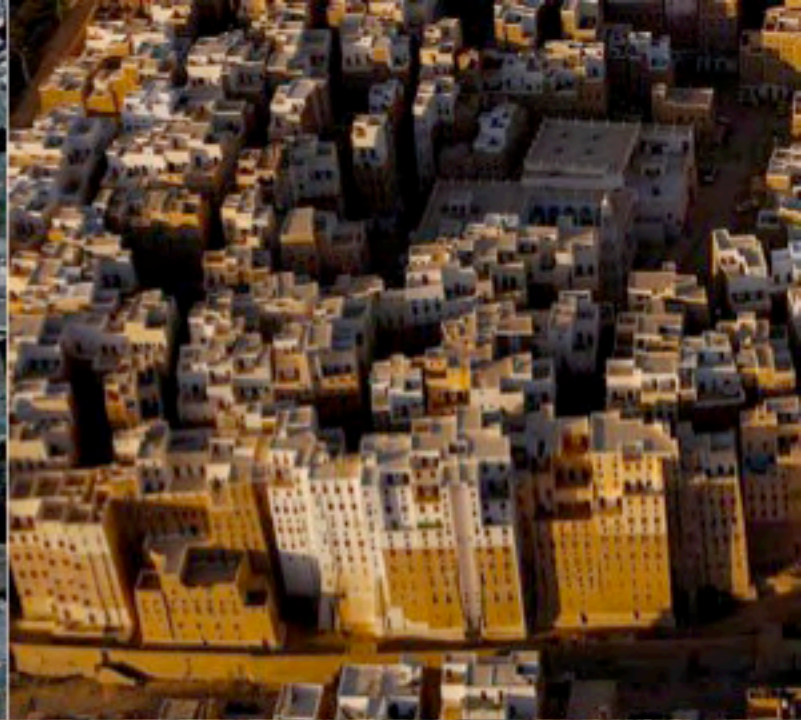
Aranya community housing Indore / Inde





Caracas / Venezuela





The rich builds and then lives
The poor lives and then builds