

An-Najah National University Faculty of Engineering Urban Planning Department

Graduation Project 2 " Urban Transportation Planning for Jenin City"

Dr. Zahraa Zawawi Dr. Ali Abdelhamid Eng. Salah Shakhshir

Jamal Abdelhadi

Table of Contents

Study Area Diagnosis

Jenin City Roads Diagnosis

Analysis & Strategic Planning

Planning Preparation & Detailed Planning

B . E. Thinney

A CONTRACTOR OF

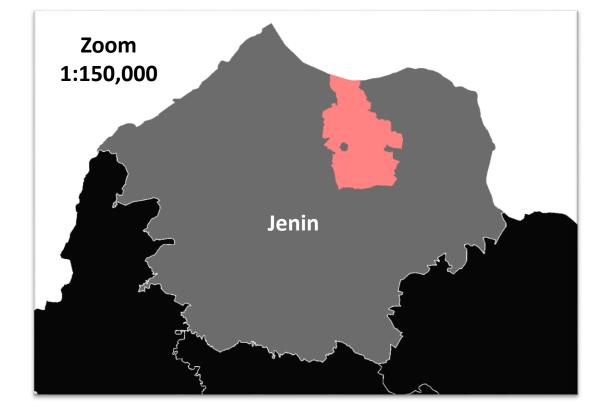
Conclusion & Recommendations

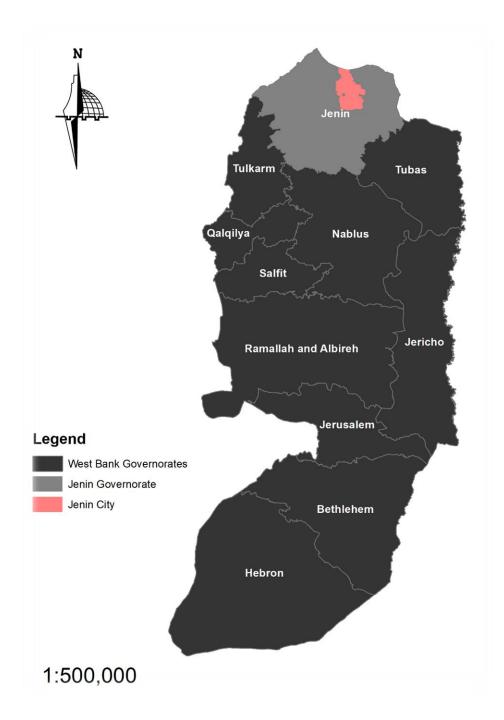
Study Area Diagnosis

Jenin city importance: "Why Je

Jenin city for the project'

Jenin governorate & city location according to other West Bank governorates

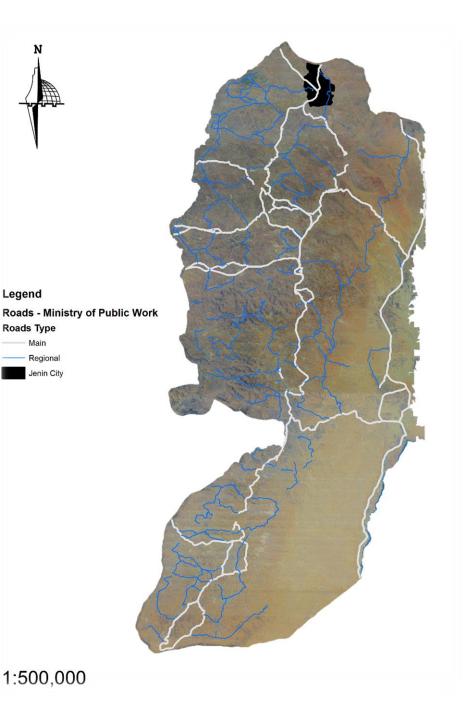




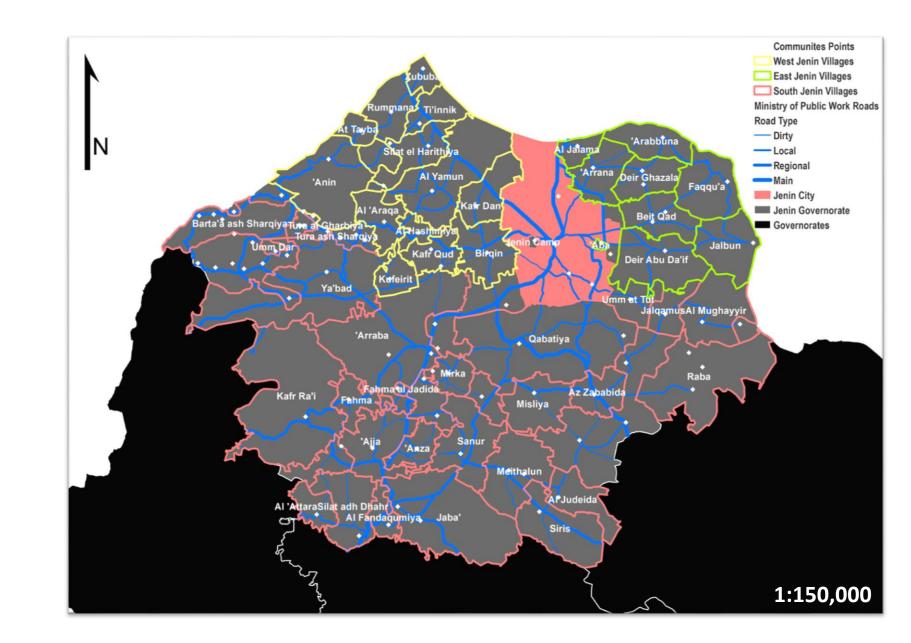
West bank governorates connected by main and regional roads " Jenin City location "

There is a main road linking Jenin city with Nablus city This is a positive point for the governorate, where it is easy to reach the regional center for the northern West Bank

Note: This Classification by Ministry of Public Work

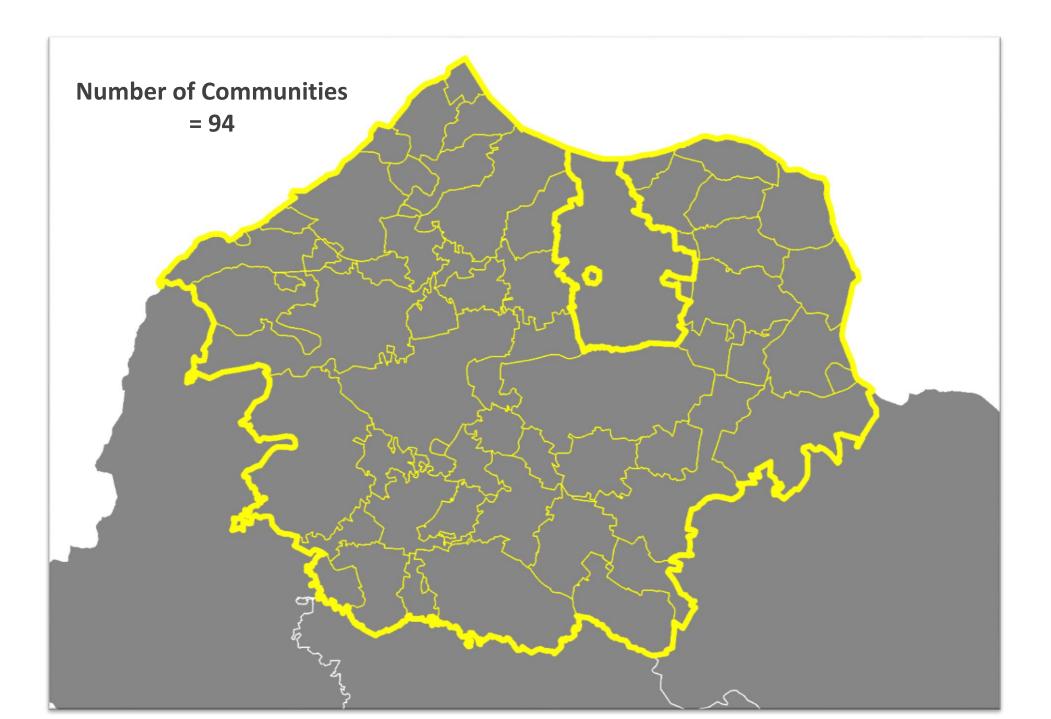


Communities that connected to Jenin city

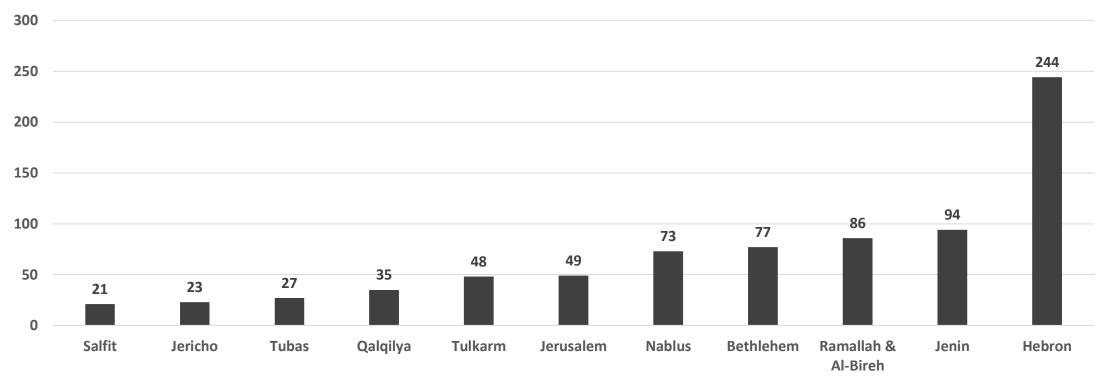


Why Jenin City for the Project

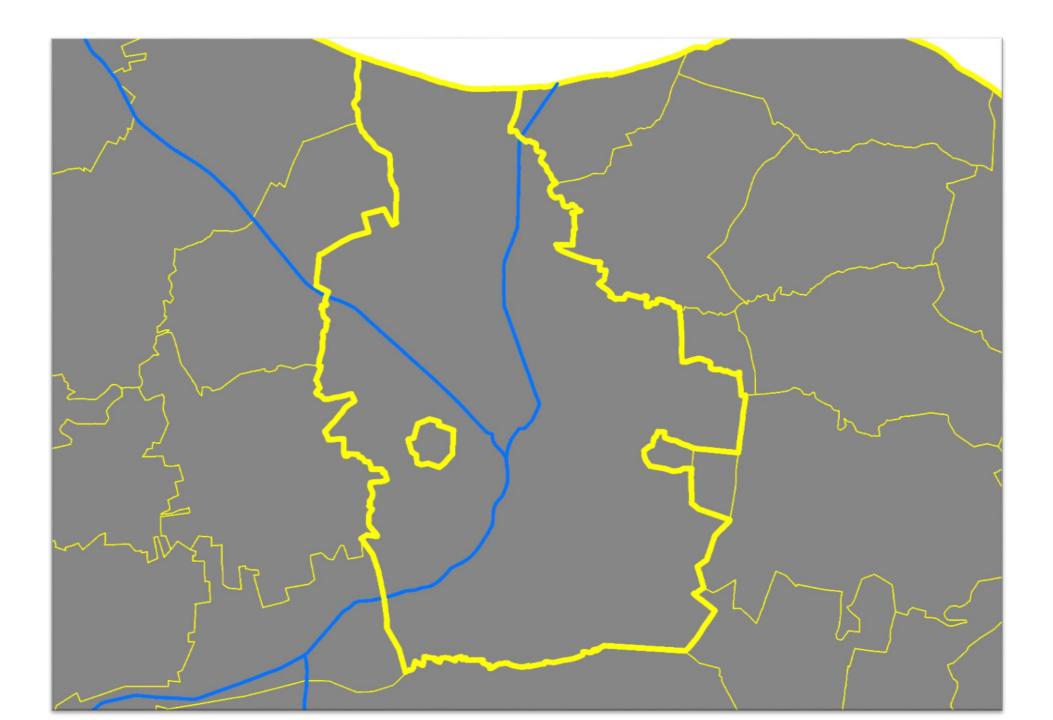
The Importance of The Geographical Location of The City of Jenin

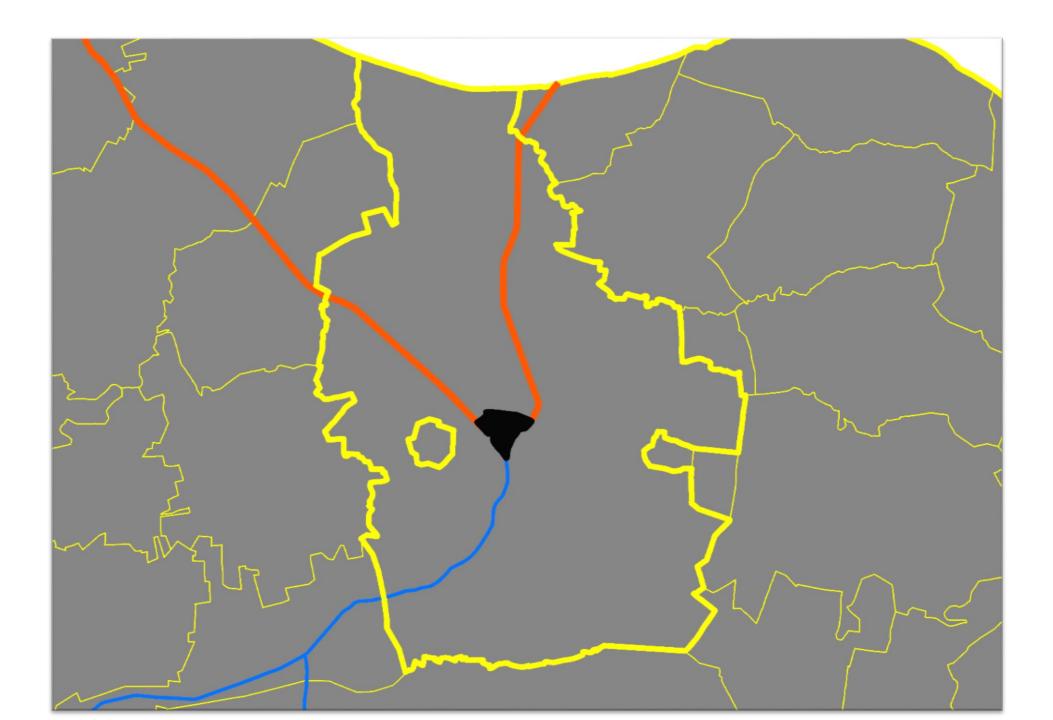


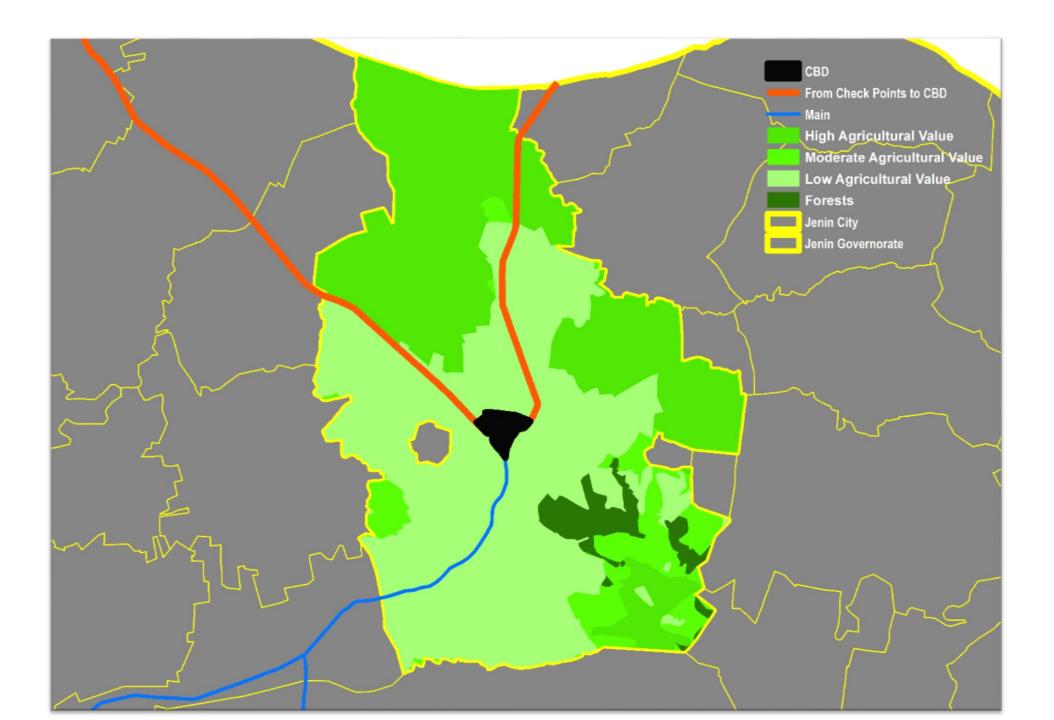
Number of Communities



Number of Villages



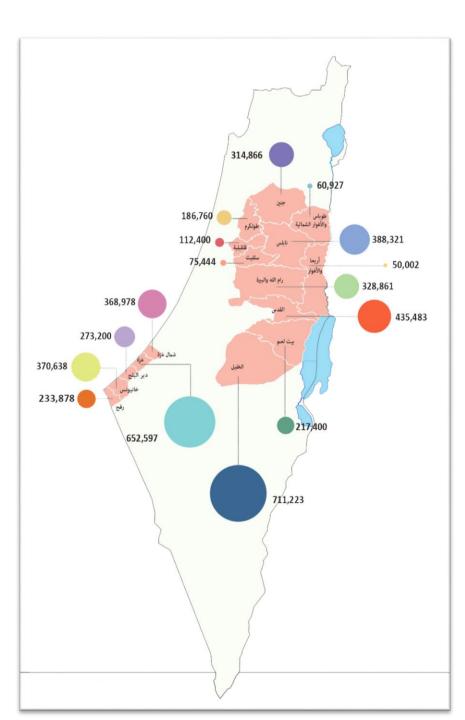




Population Density and Construction is increasing dramatically

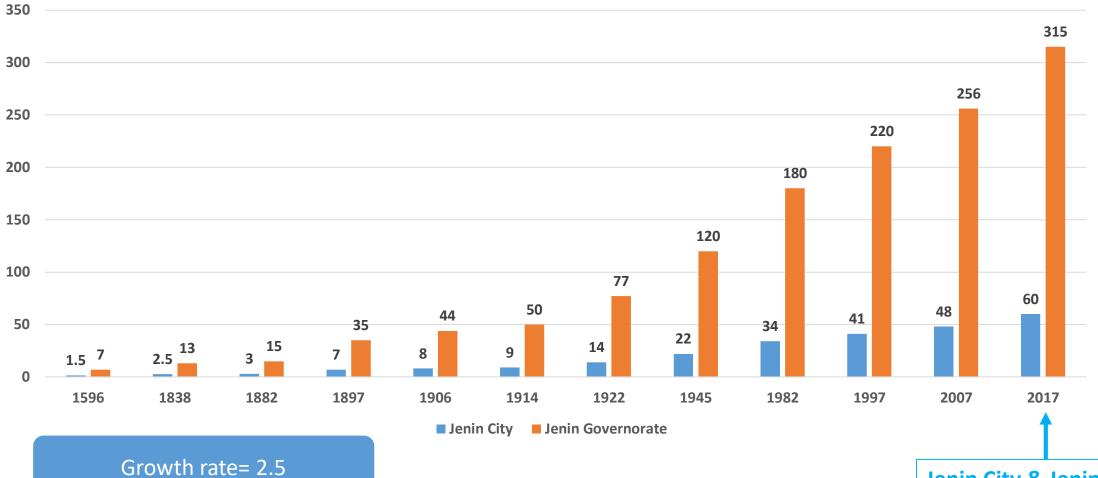
Urban Sprawl of Jenin City





Fourth highest governorate in terms of population after Hebron, Jerusalem and Nablus





Jenin City & Jenin Camp

Al-Sibat (Old Town) 1800

Same with the state

1.1

1000

West Neighborhood 1920

10000

ARD I

Vell'Y .. Q. P.

No. of the second

Think on the

- - -

Jenin Camp 1948

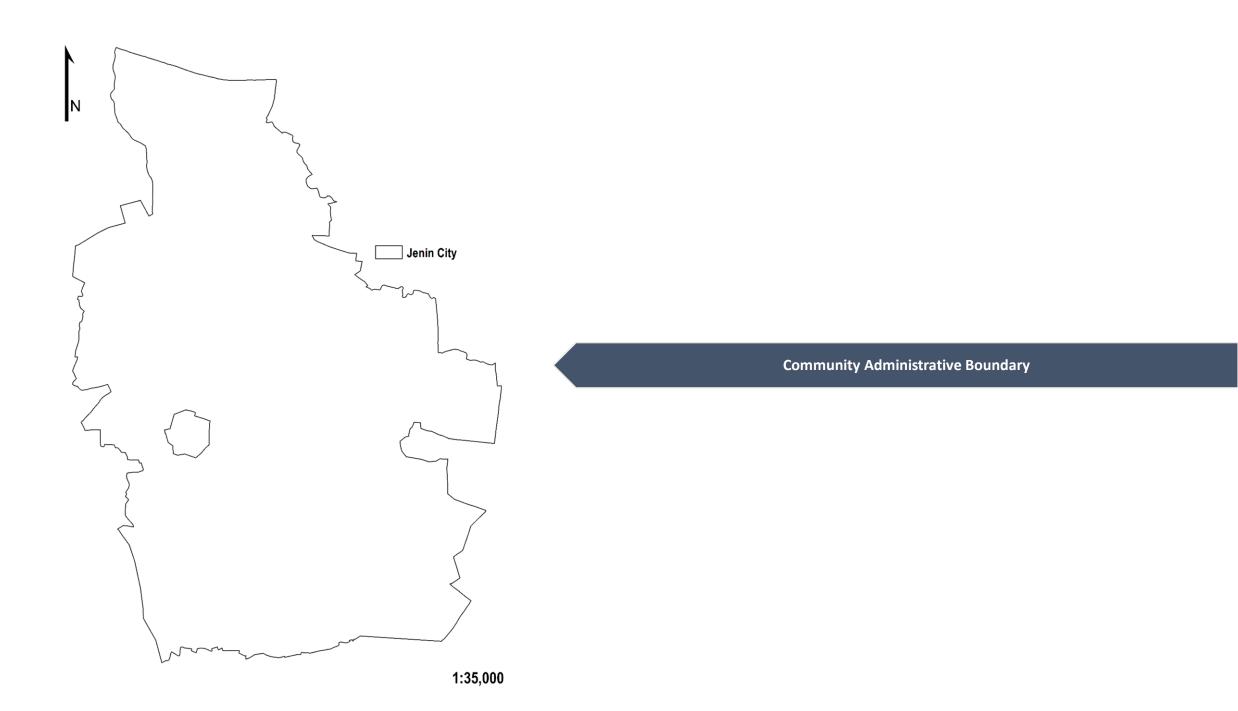
East Neighborhood 1950

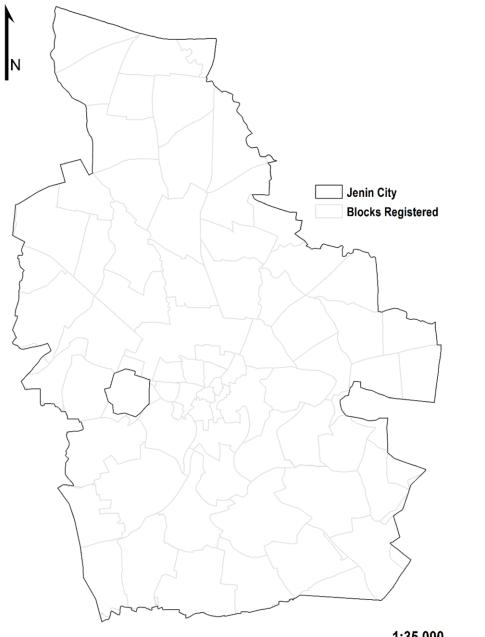
German Neighborhood & Wad Burqin 1960

Al-Zahra Neighborhood & Al-Bsatin Neighborhood

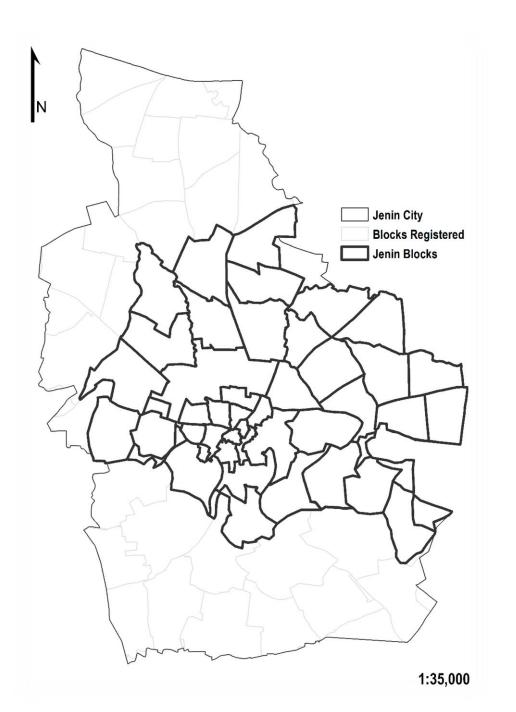
Kharouba Neighborhood & Aljabriat Neighborhood & Al-Switat Neighborhood & Sabah Al-khair Neighborhood

Qabatya Blocks & 3 Main Roads Sprawl

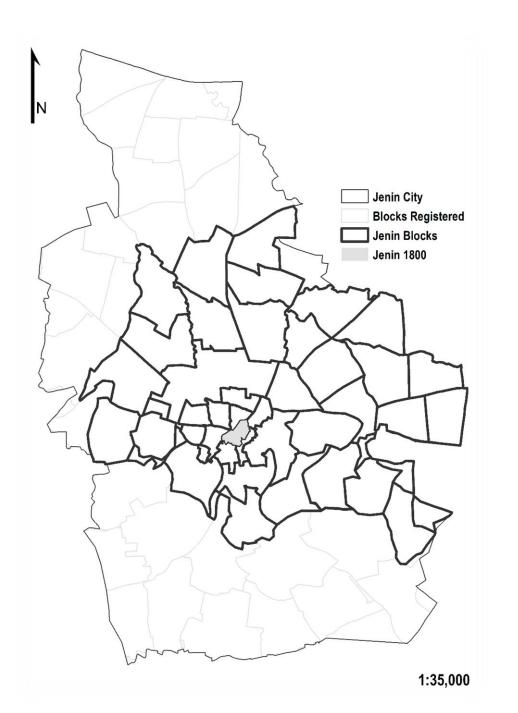




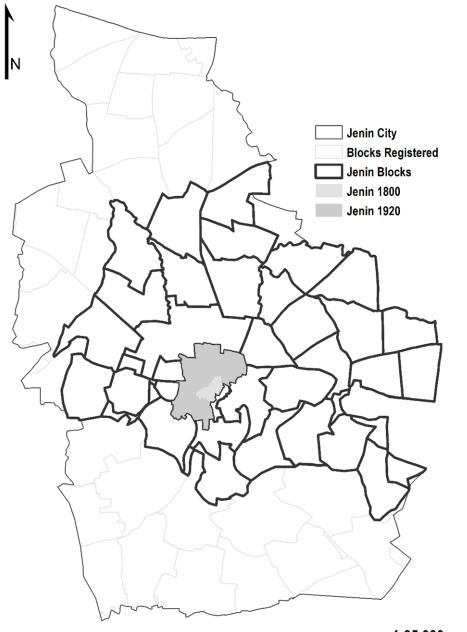
Blocks Registered



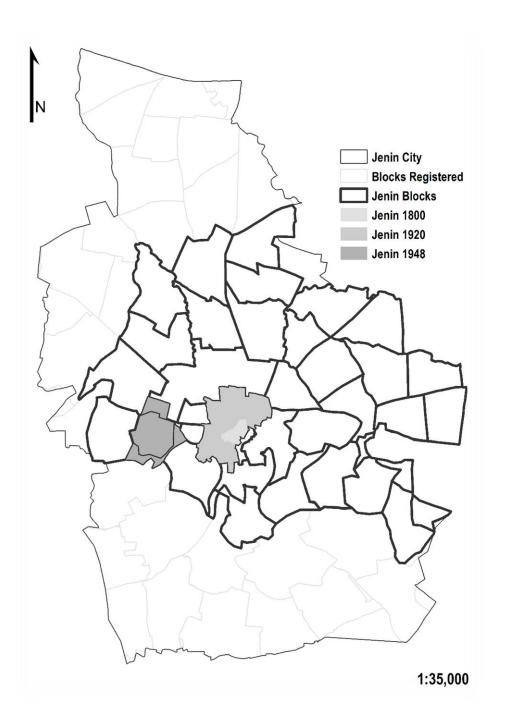
Blocks belonging to the Municipality of Jenin



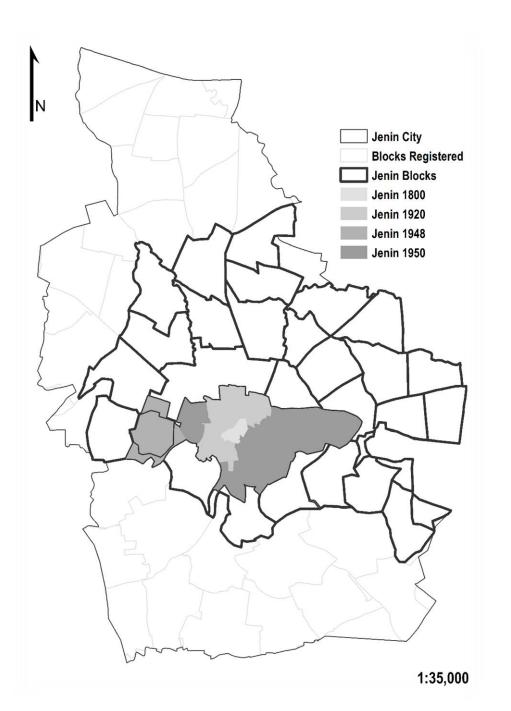
Al-Sibat (Old Town) 1800



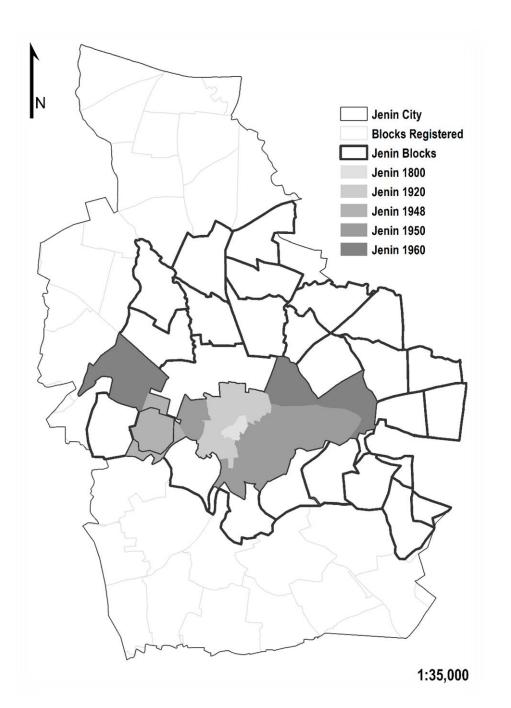
West Neighborhood 1920



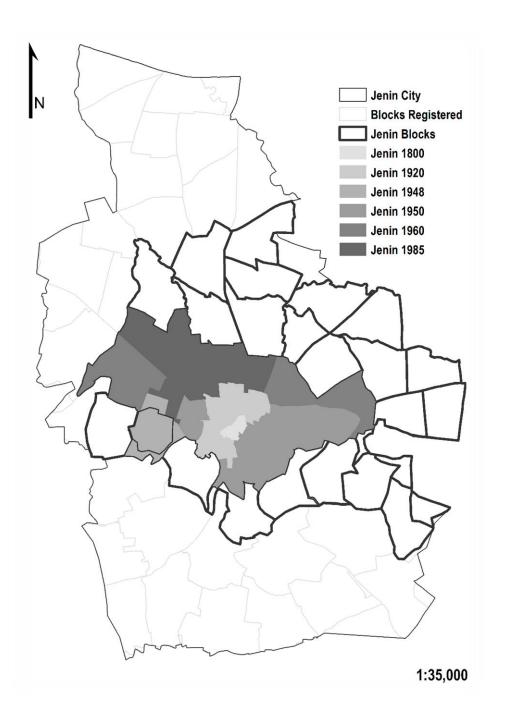
Jenin Camp 1948



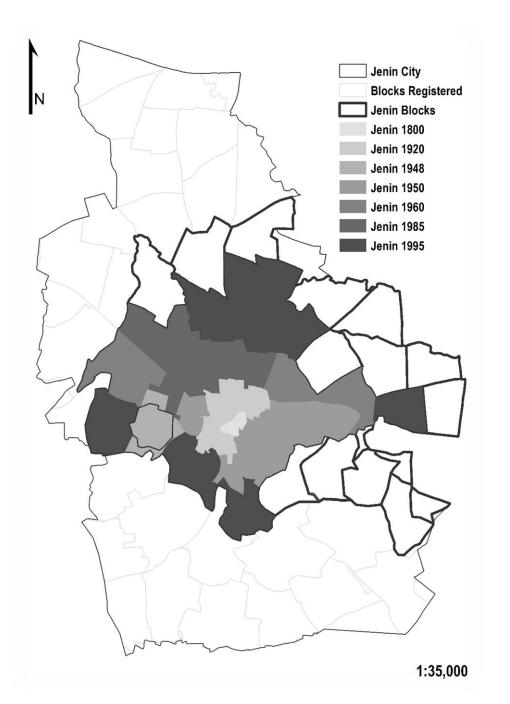
East Neighborhood 1950



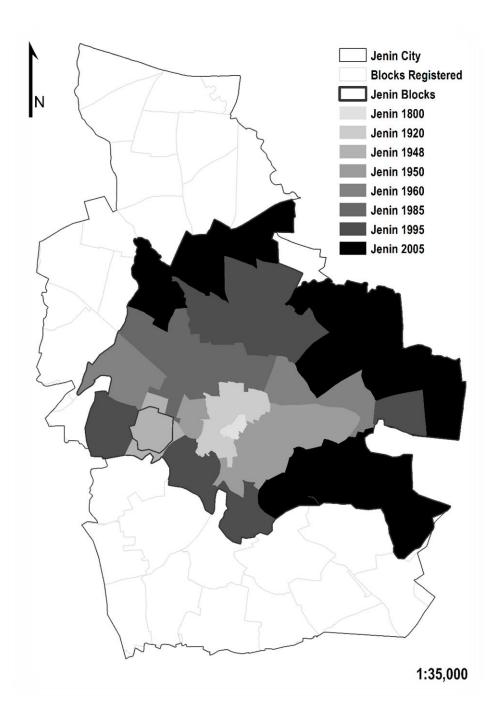
German Neighborhood & Wad Burqin 1960



Al-Zahra Neighborhood & Al-Bsatin Neighborhood

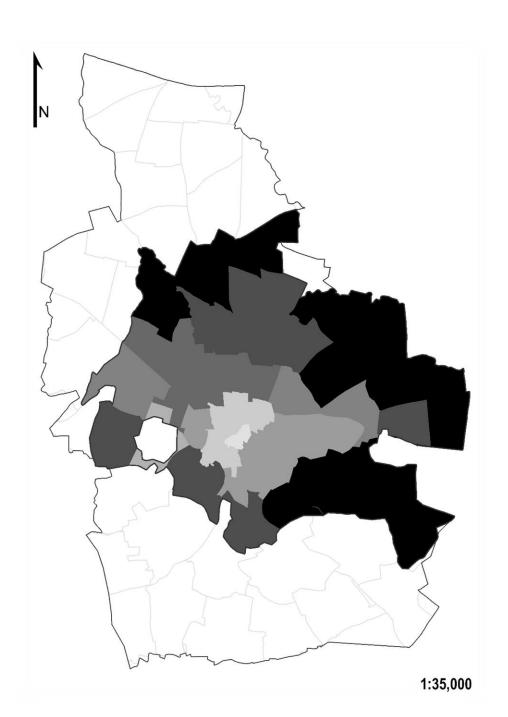


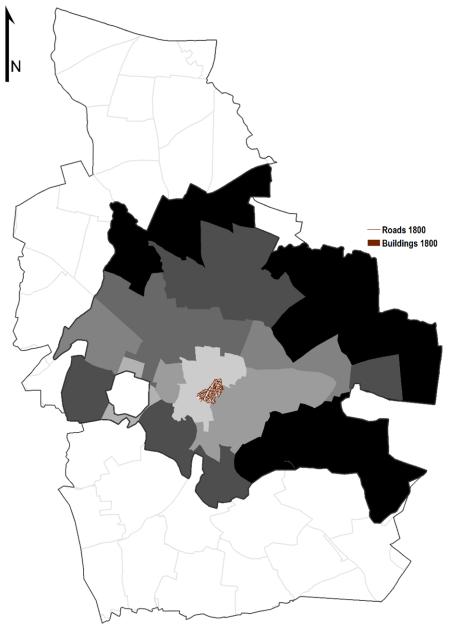
Kharouba Neighborhood & Aljabriat Neighborhood & Al-Switat Neighborhood & Sabah Al-khair Neighborhood

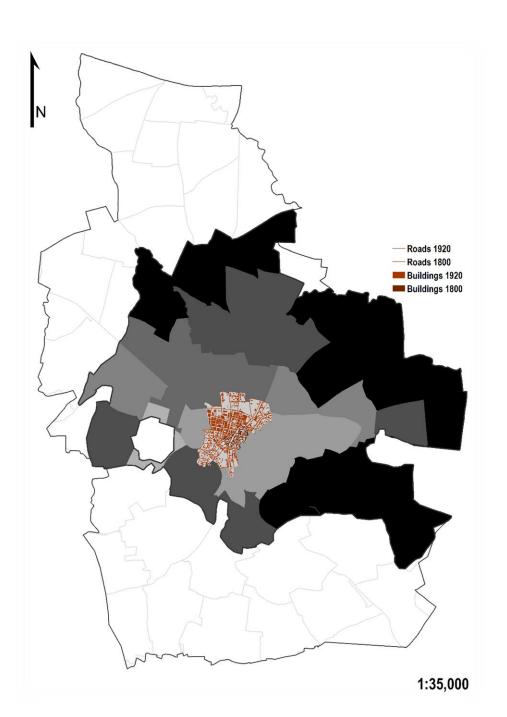


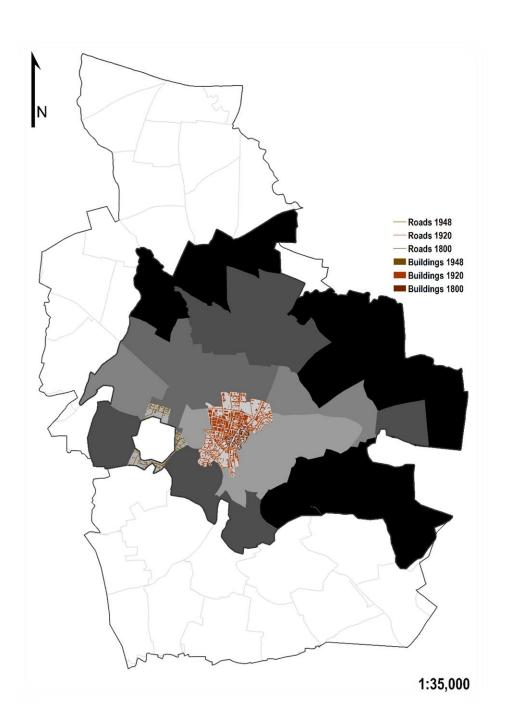
Qabatya Blocks & 3 Main Roads Sprawl

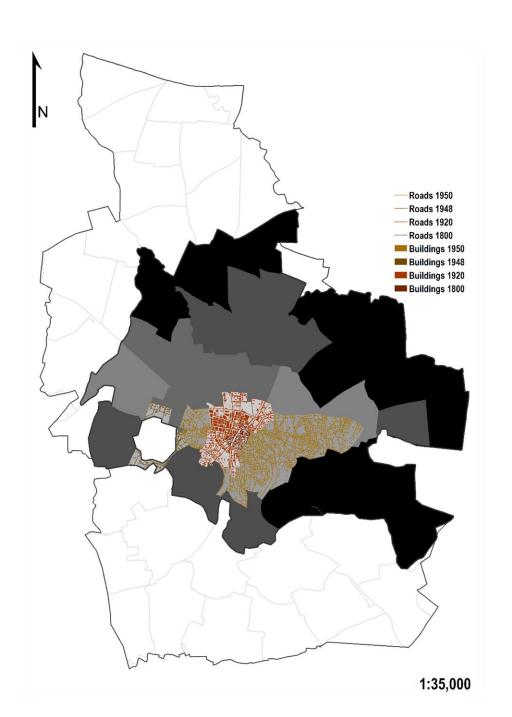
Historical development of Roads and Buildings

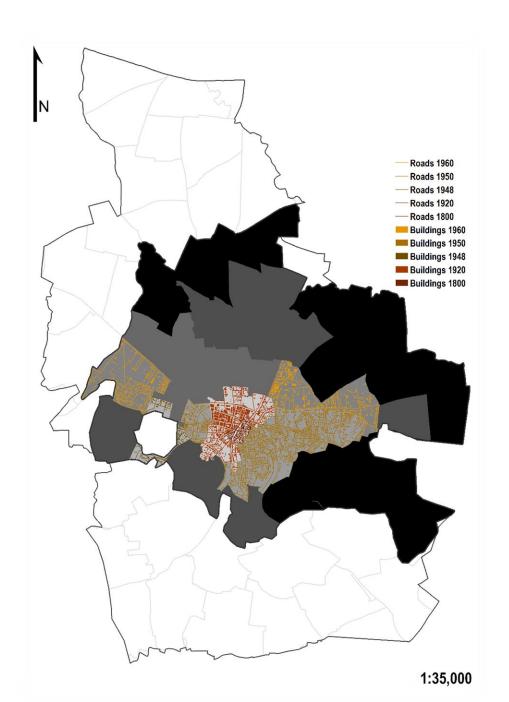


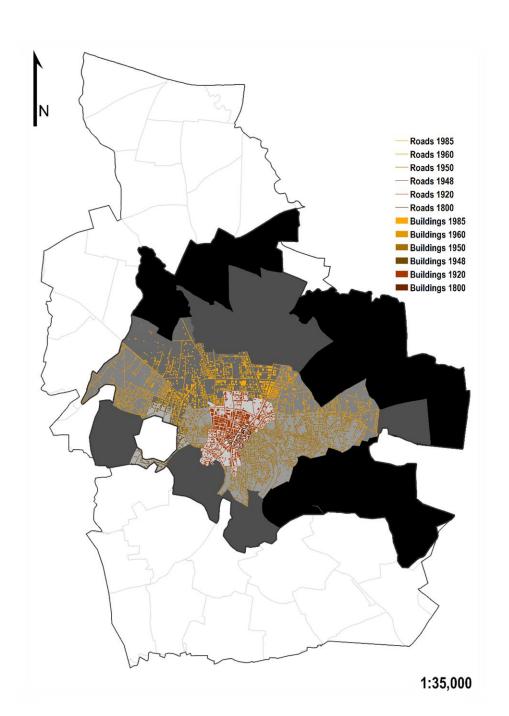


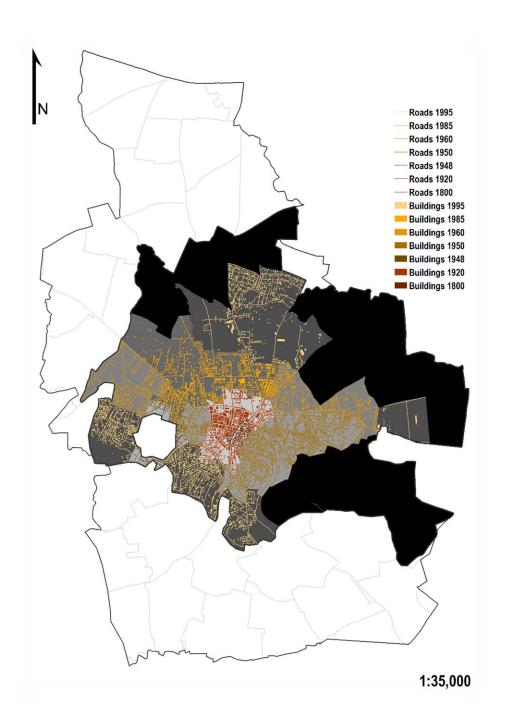


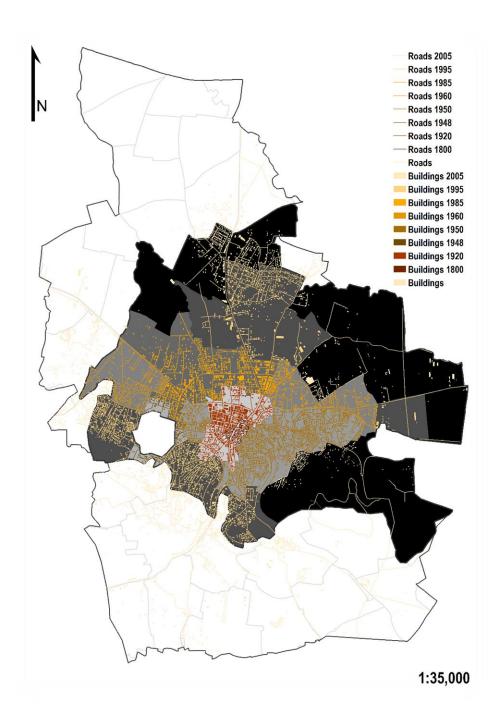


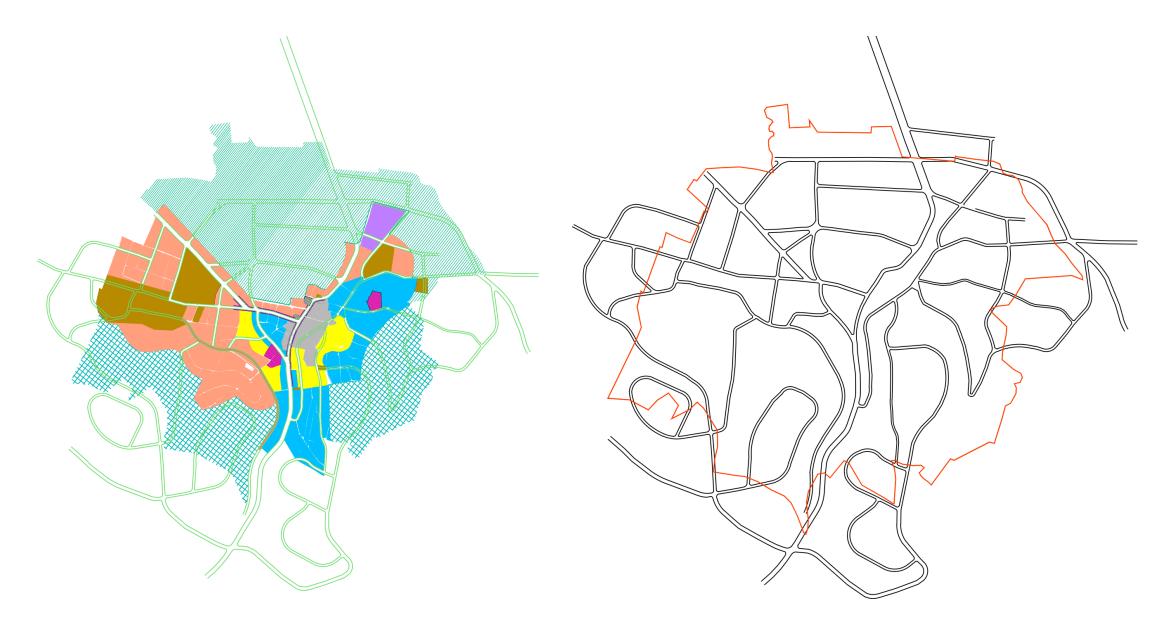




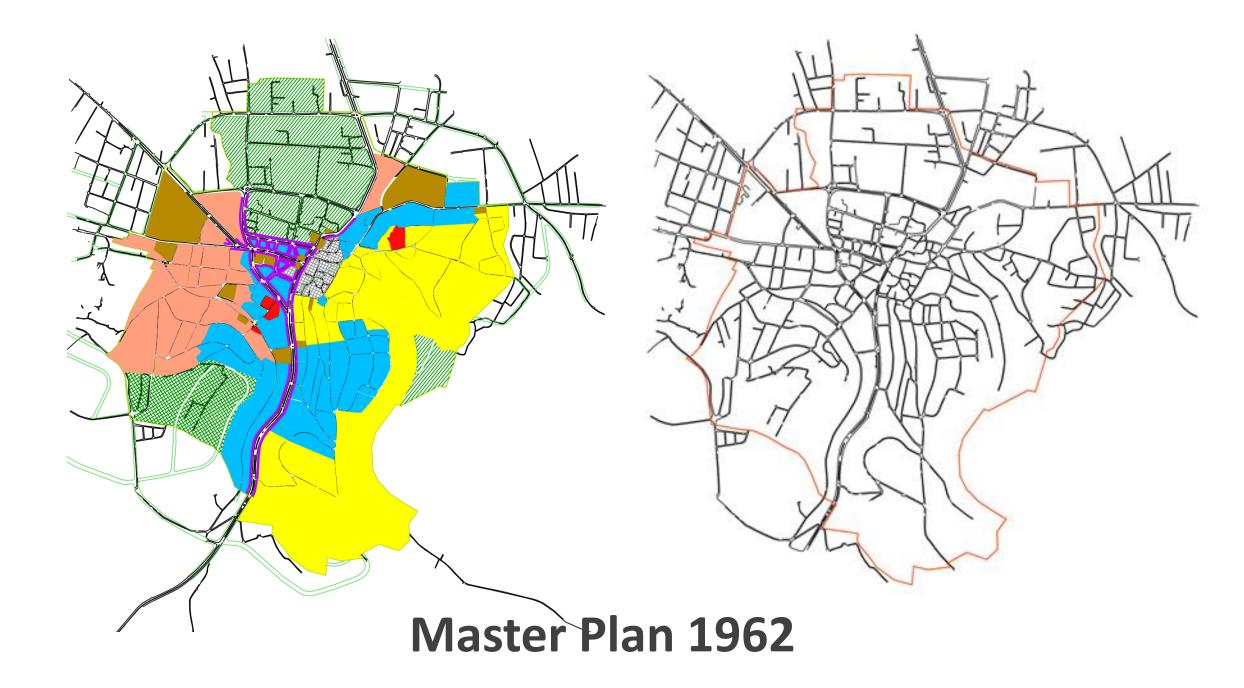






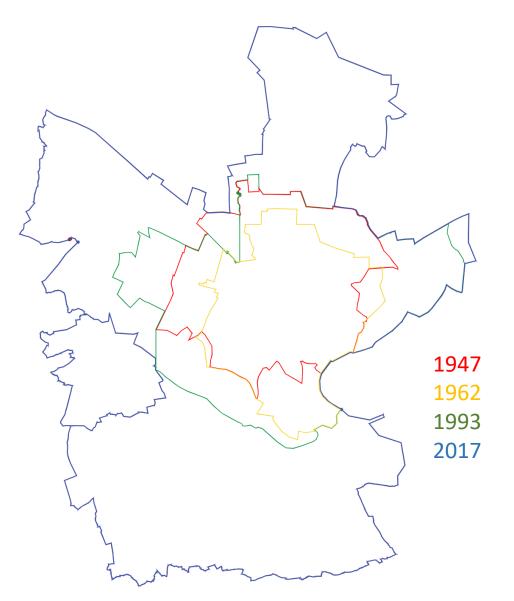


Master Plan 1947



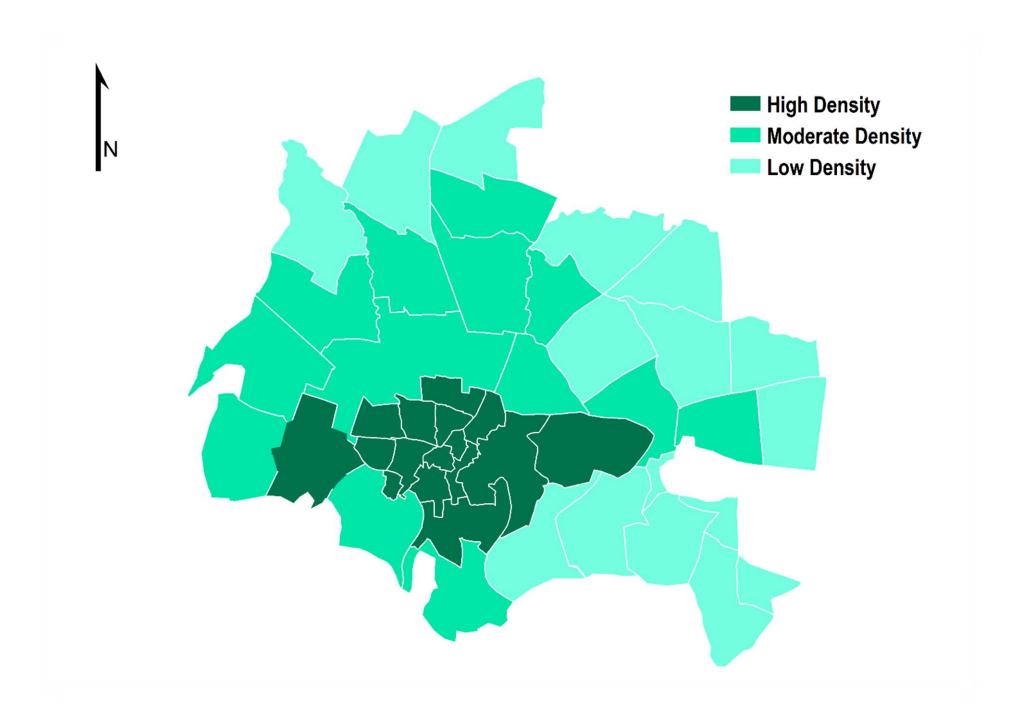


Master Plan 1993

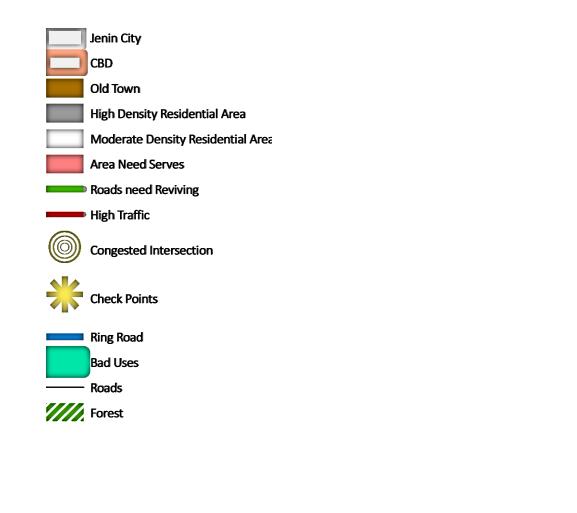


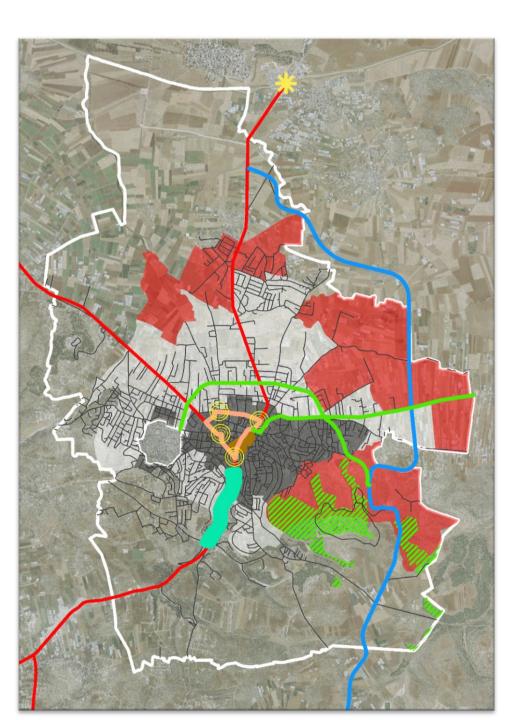


Master Plan 2017



Problems in Jenin City





Jenin City Roads Diagnosis

Space Syntax Analysis " Depth Map "

Axial map "Municipality Behavior "

Mean Depth

Mean Depth:

means number of intervening lines that must be crossed to get from space to another, the minimum number of steps means shallowness (integration), whereas the maximum number of ones means segregation.



Integration

Integration:

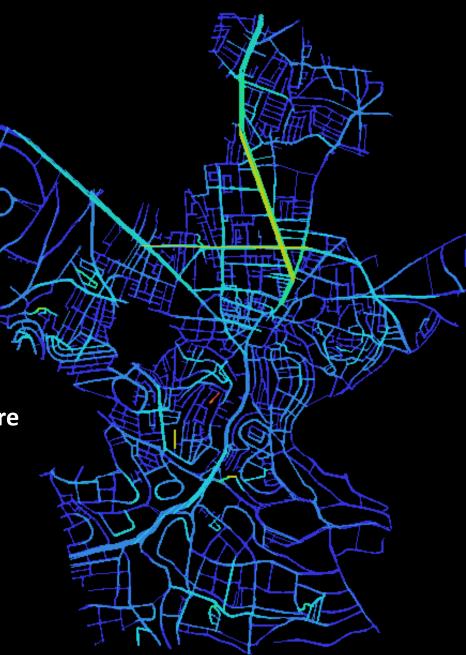
is a static global measure. It describes the average depth of a space to all other spaces in the system. It describes how easy it is to get to one segment from all other segments



Connectivity

Connectivity:

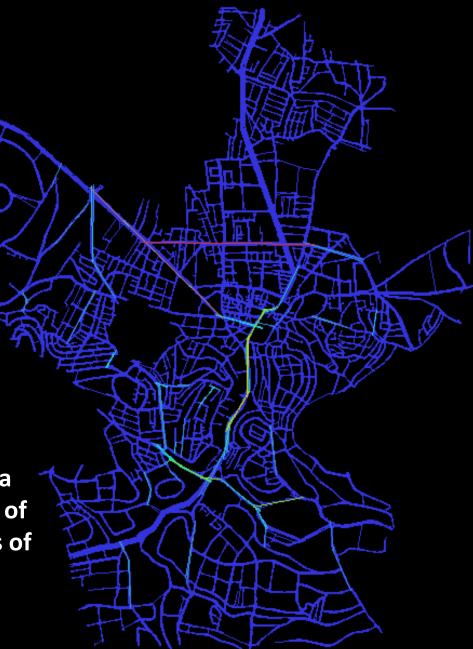
measures the number of immediate neighbors that are directly connected to a space. This is a static local measure

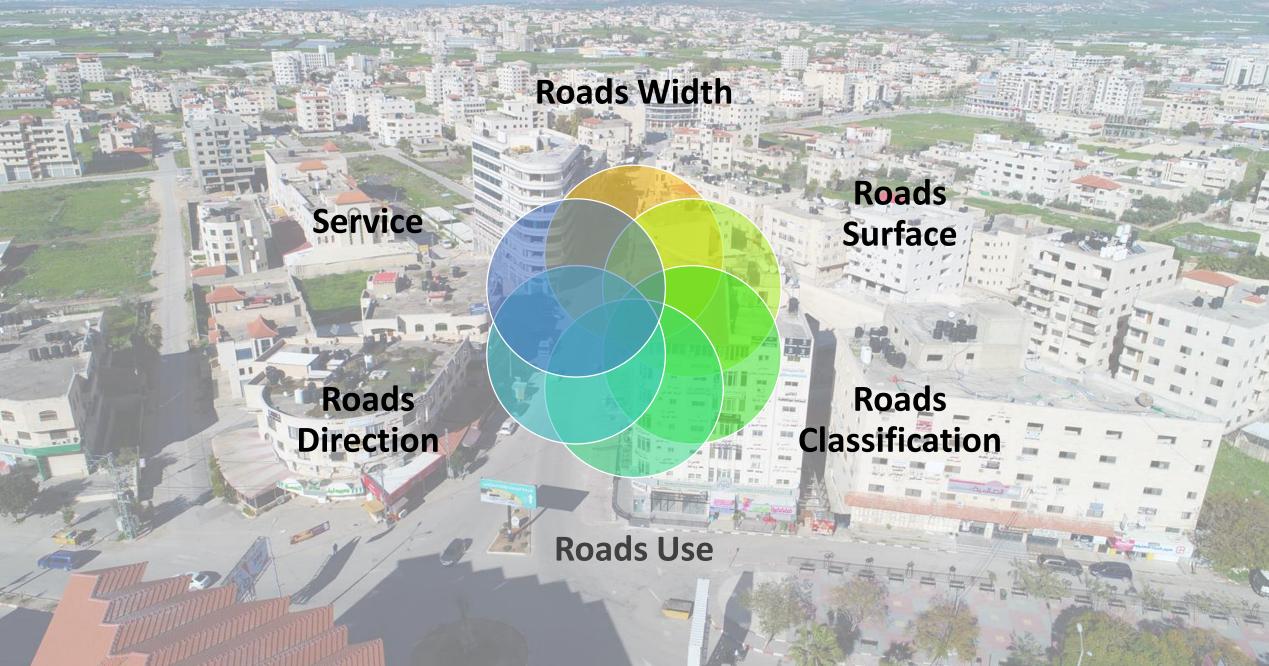


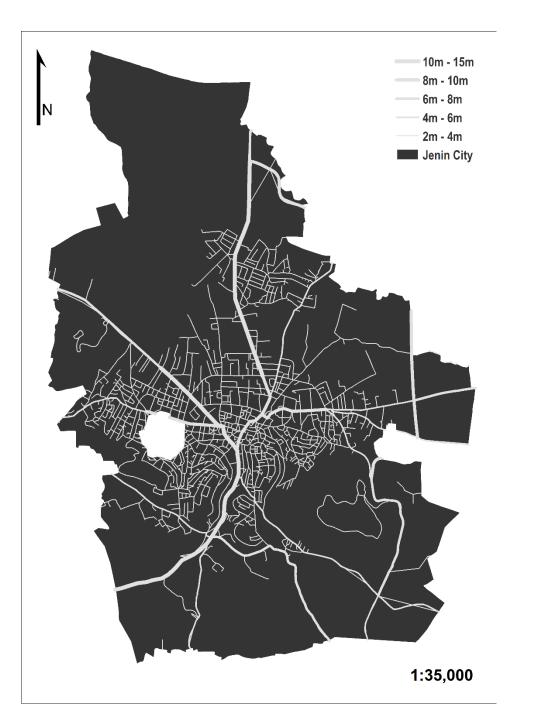
Choice

Choice:

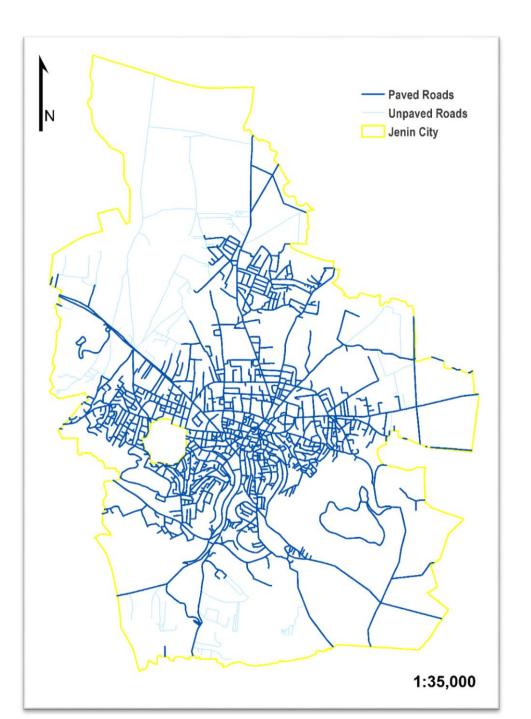
is a dynamic global measure of the "flow" through a space. A space has a strong choice value when many of the shortest paths, connecting all spaces to all spaces of a system, passes through it.



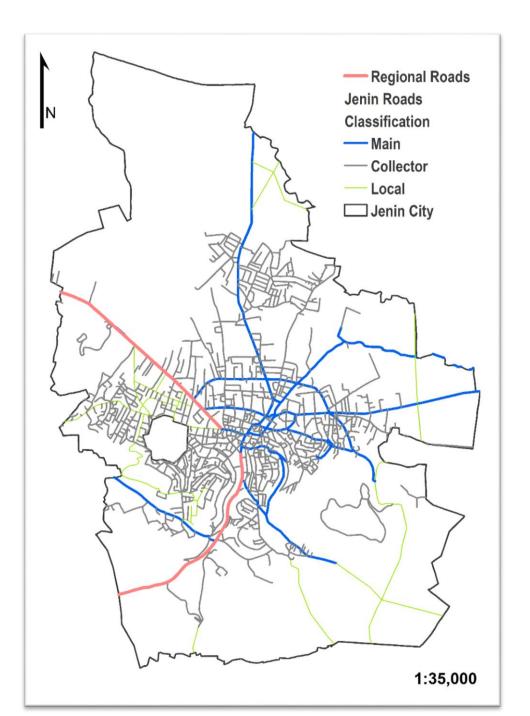




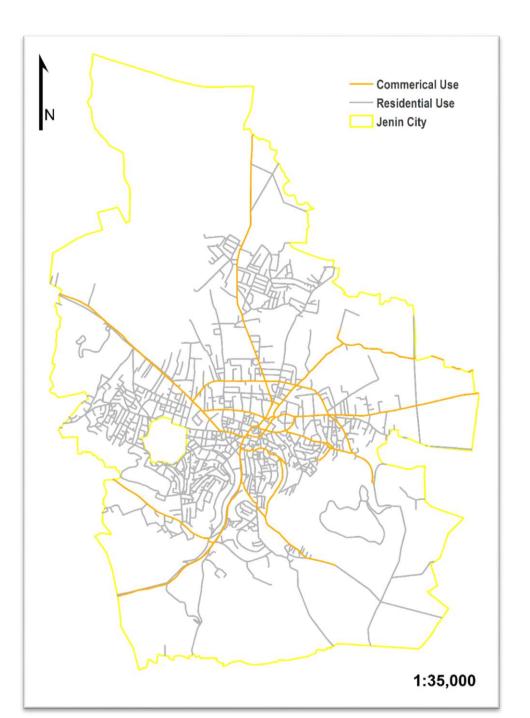
Roads Width



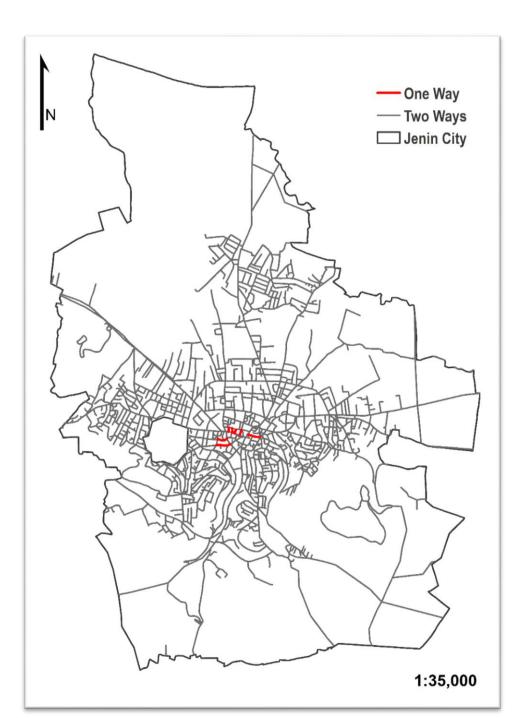
Roads Surface



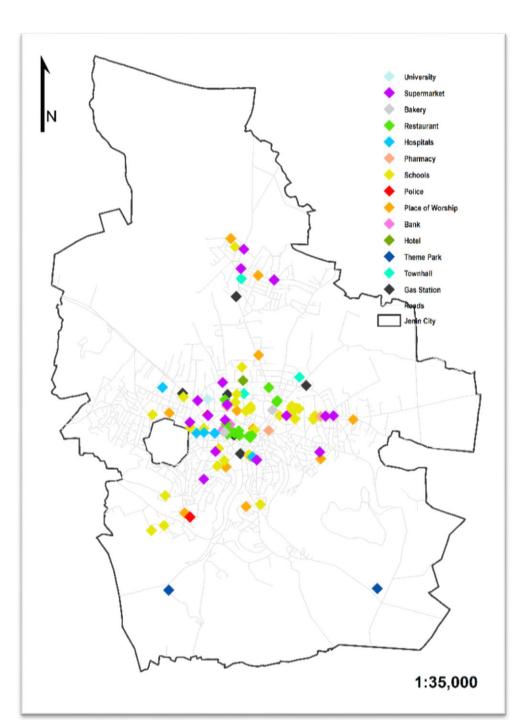
Roads Classification



Roads Use

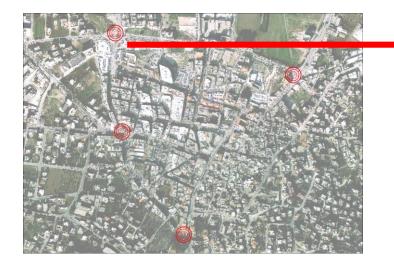


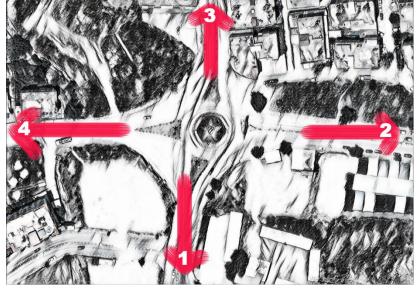
Roads Direction







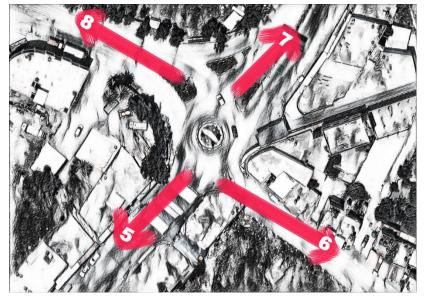






Yahya Ayyash	PH	PHV	Pedestrian
North Approach	12:00 PM – 1:00 PM	842	112
South Approach	12:00 PM – 1:00 PM	833	219
East Approach	12:00 PM – 1:00 PM	1576	119
West Approach	12:00 PM – 1:00 PM	487	150



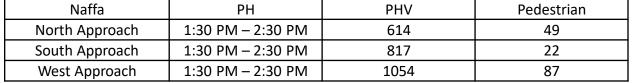




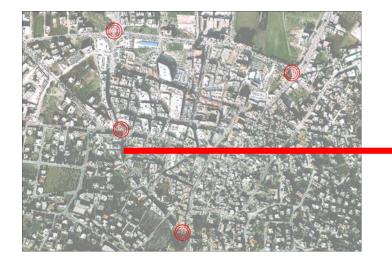
Zayed	PH	PHV	Pedestrian
North Approach	1:15 PM – 2:15 PM	908	175
South Approach	1:15 PM – 2:15 PM	472	189
East Approach	1:15 PM – 2:15 PM	329	476
West Approach	1:15 PM – 2:15 PM	574	148

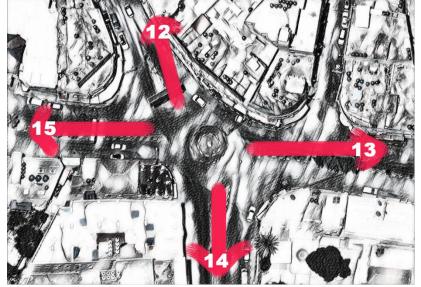






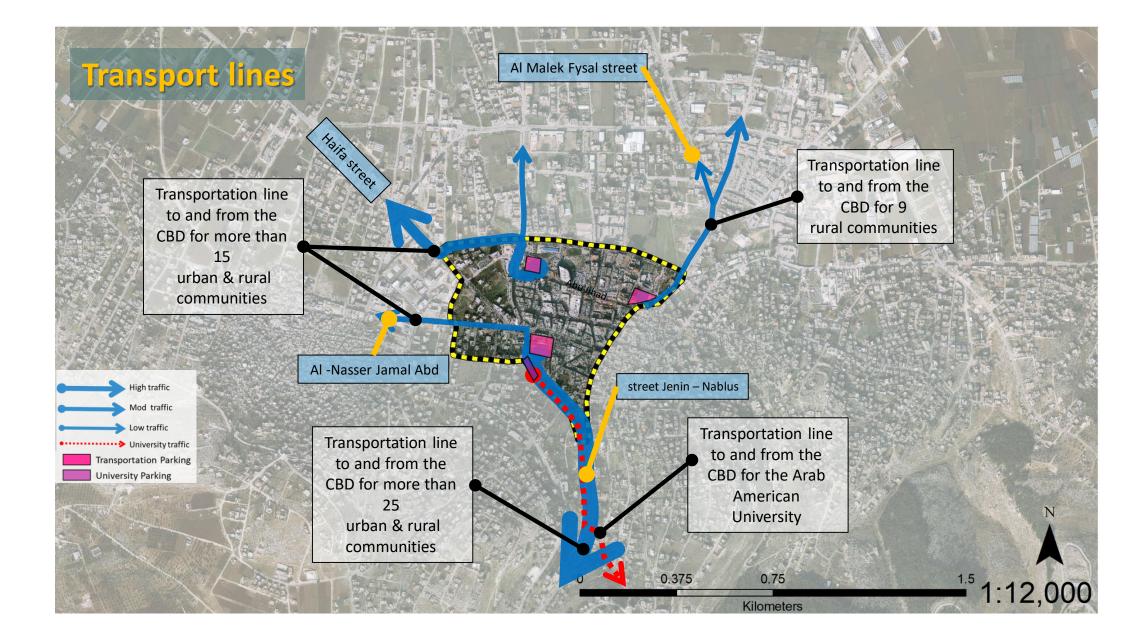


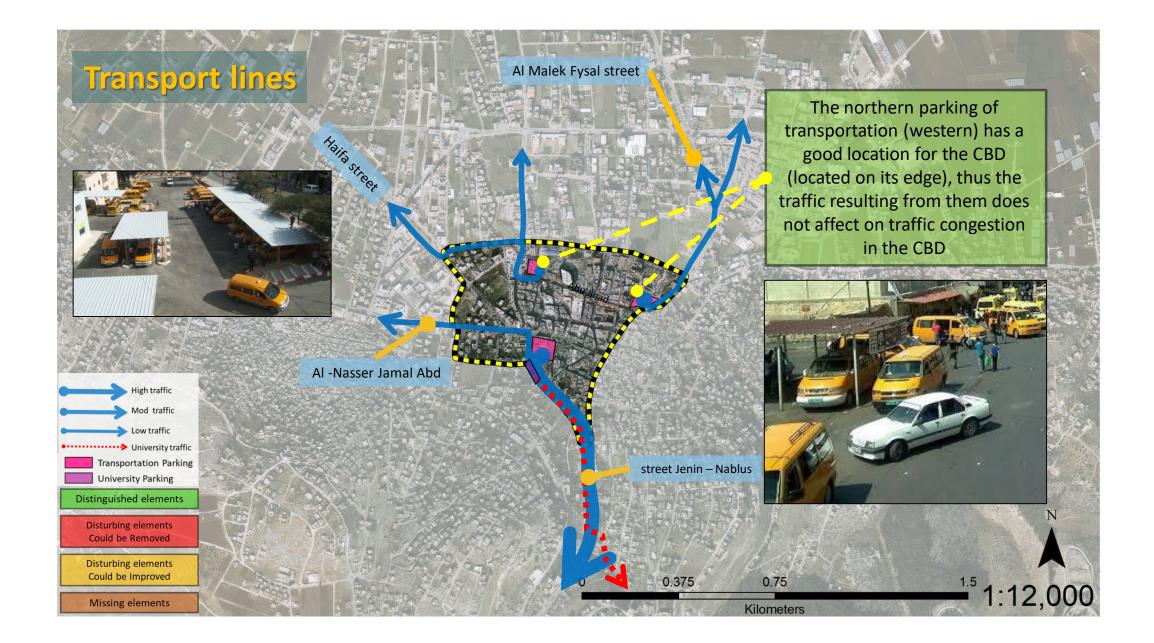


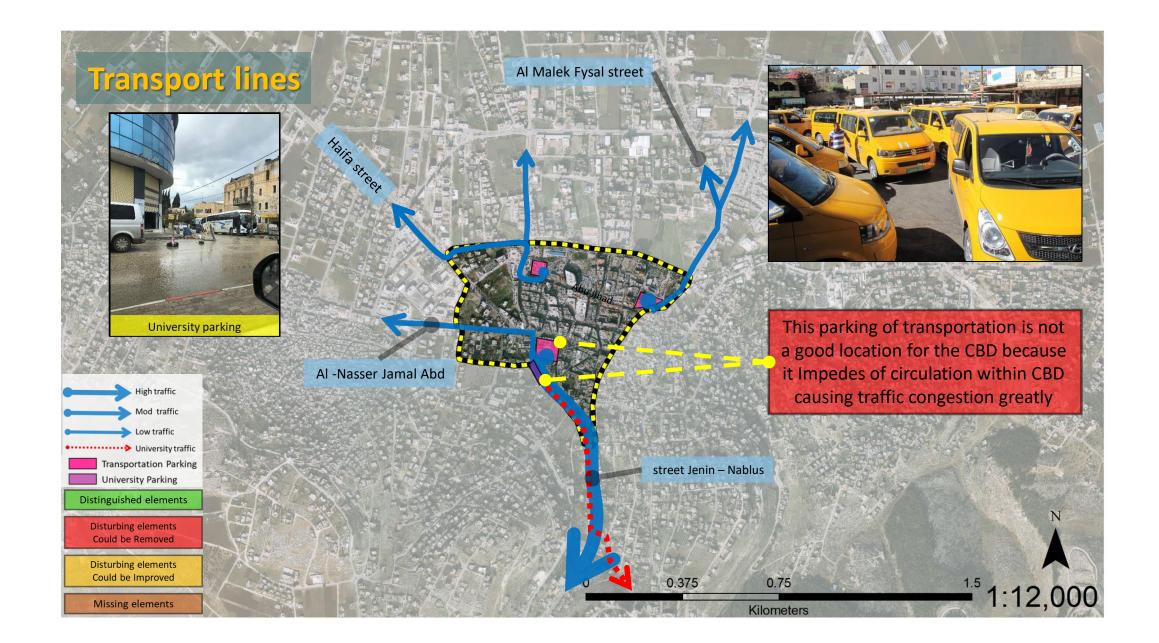


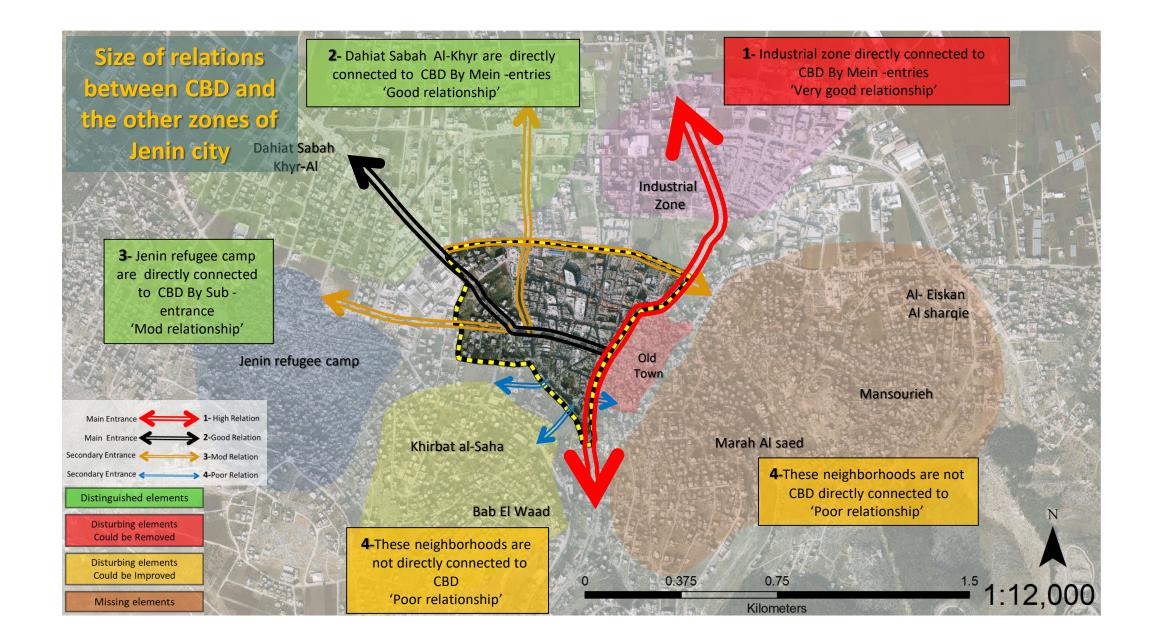


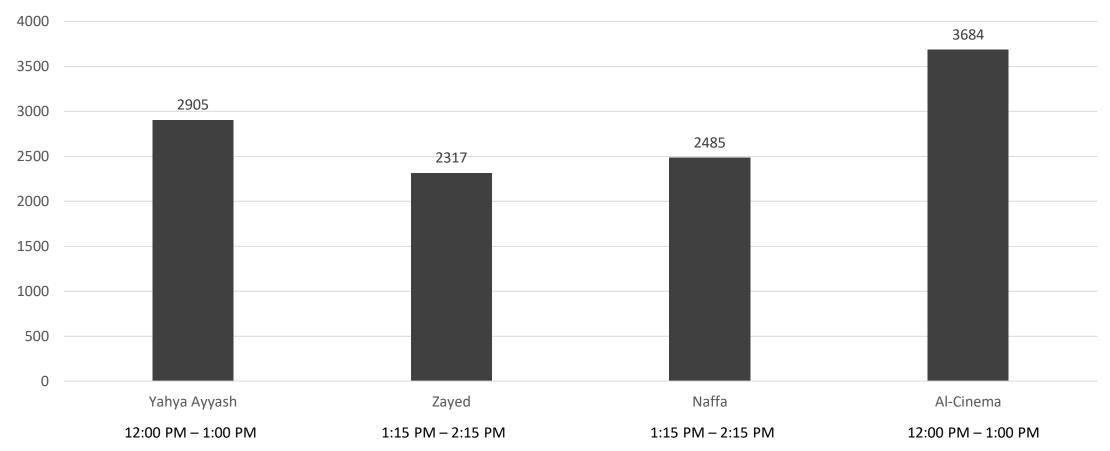
Al-Cinema	PH	PHV	Pedestrian
North Approach	12:00 PM – 1:00 PM	776	568
South Approach	12:00 PM – 1:00 PM	1121	837
East Approach	12:00 PM – 1:00 PM	777	350
West Approach	12:00 PM – 1:00 PM	883	219





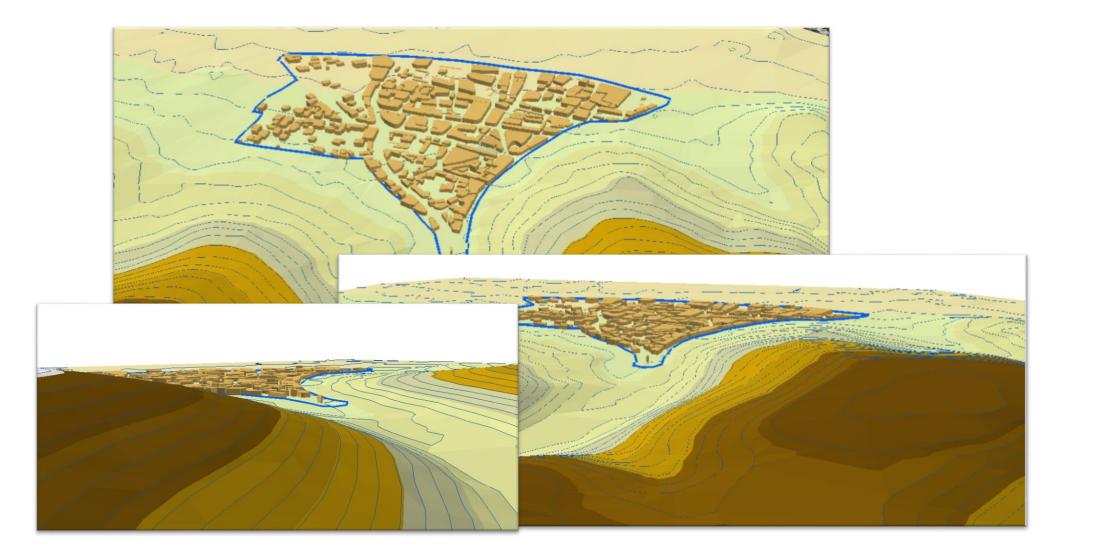






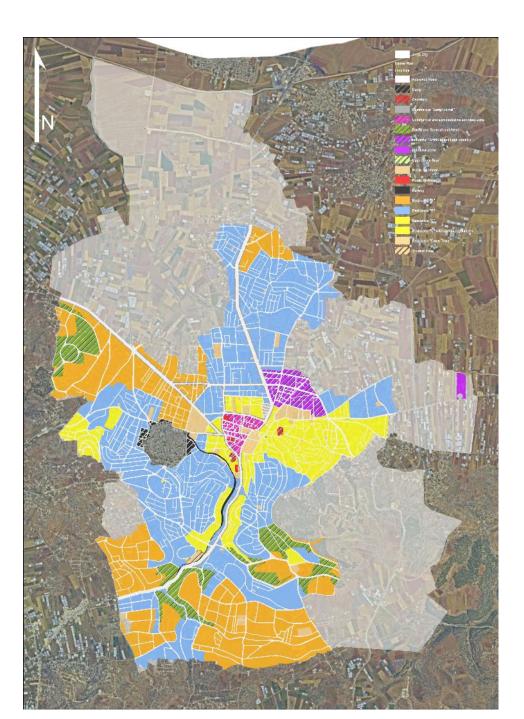
Peak Hour

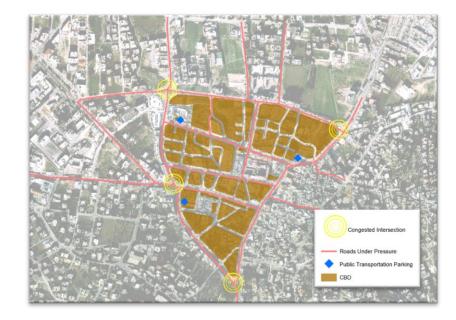
Jenin CBD Topography



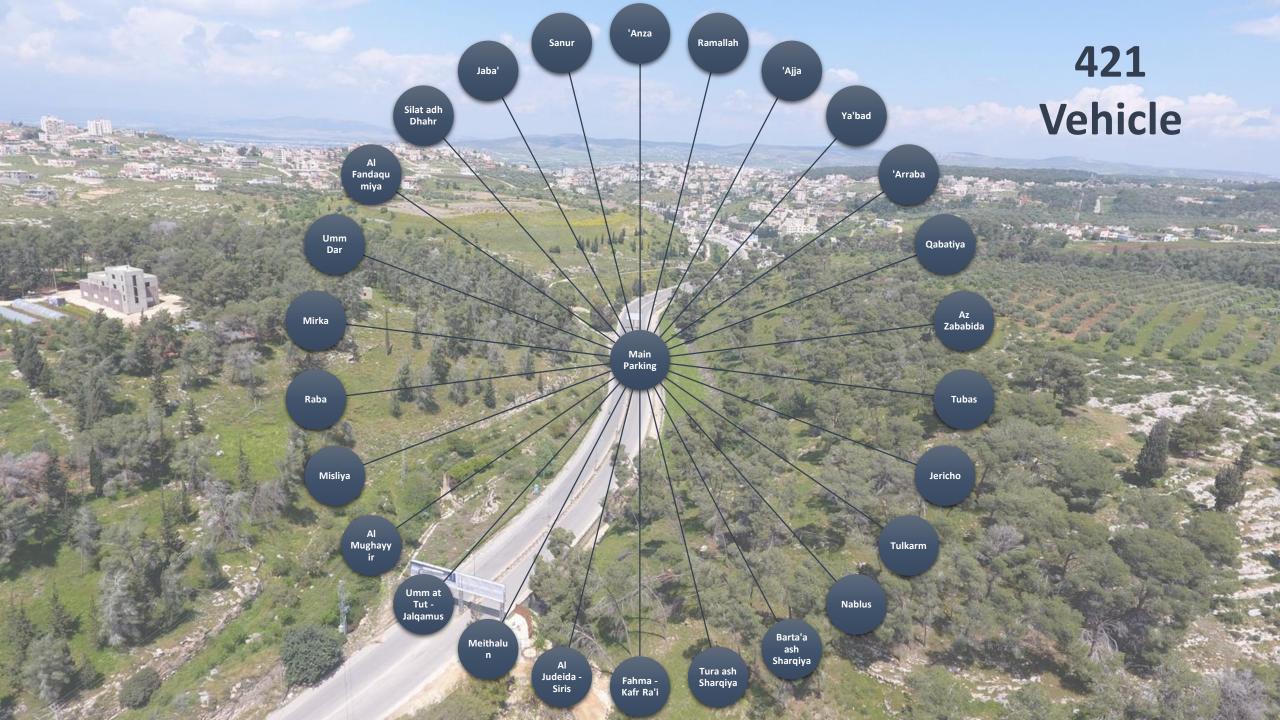
ANALYSIS & STRATEGIC PLANNING

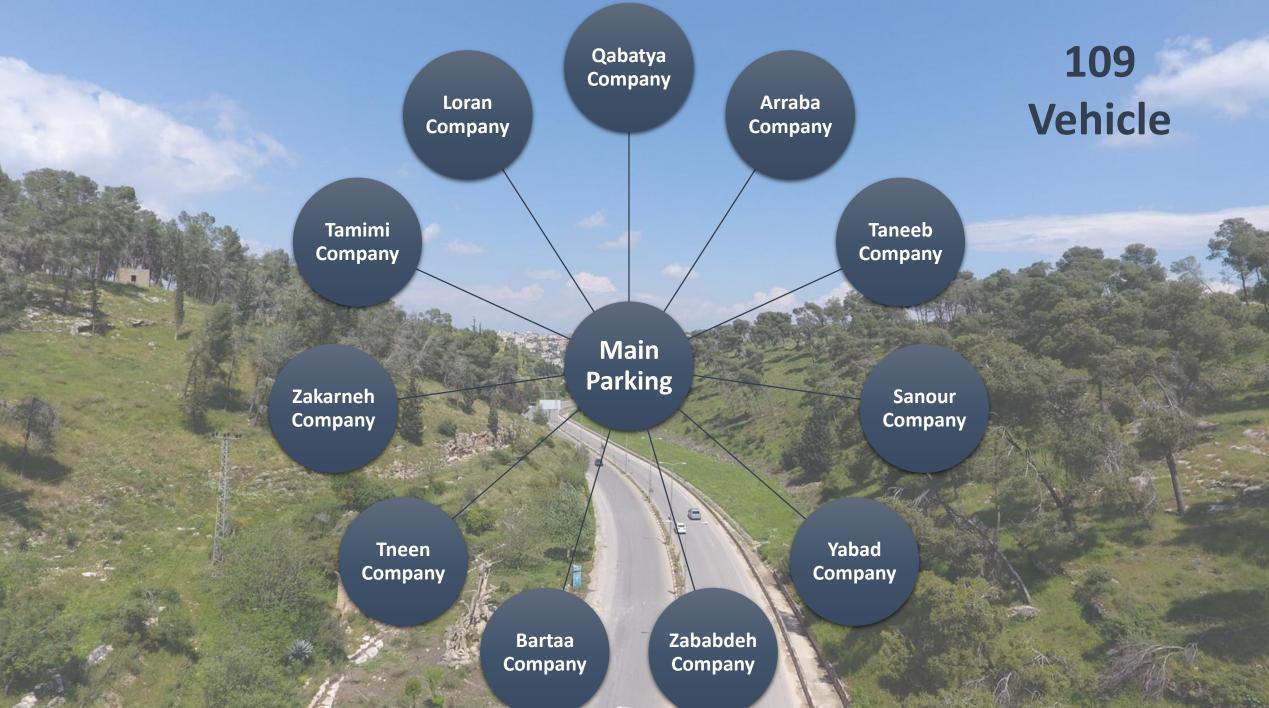
SWOT Analysis Positive Map Negative Map













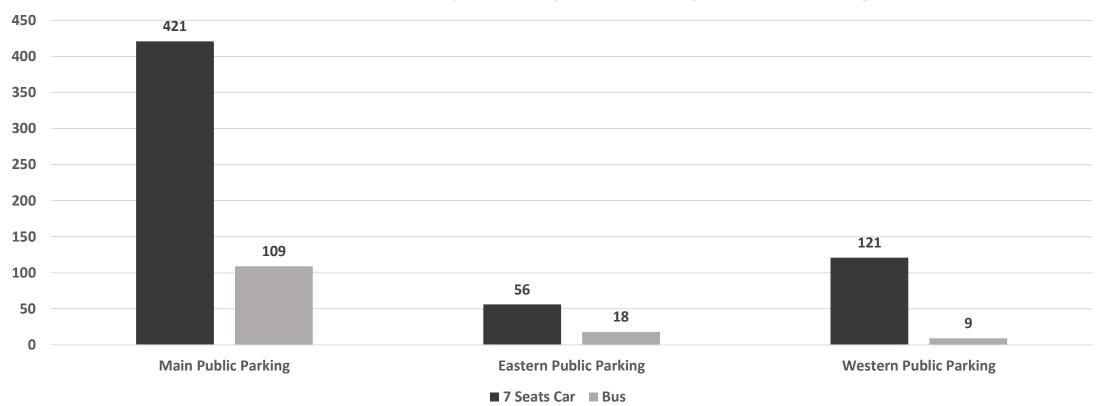


Abu Farha Company

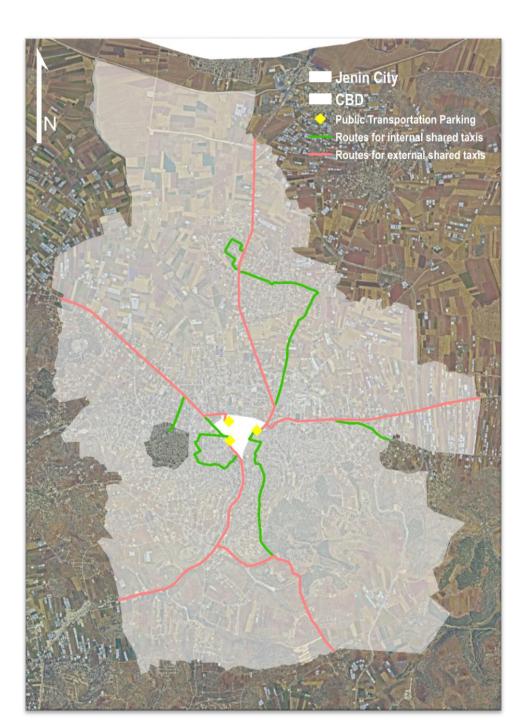
18 Vehicle

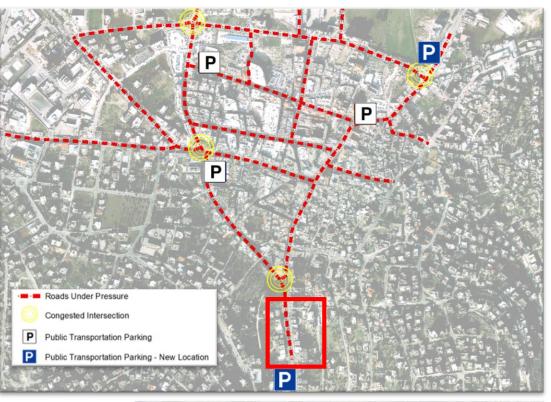
Eastern Parking

Raba Company Burqin Company

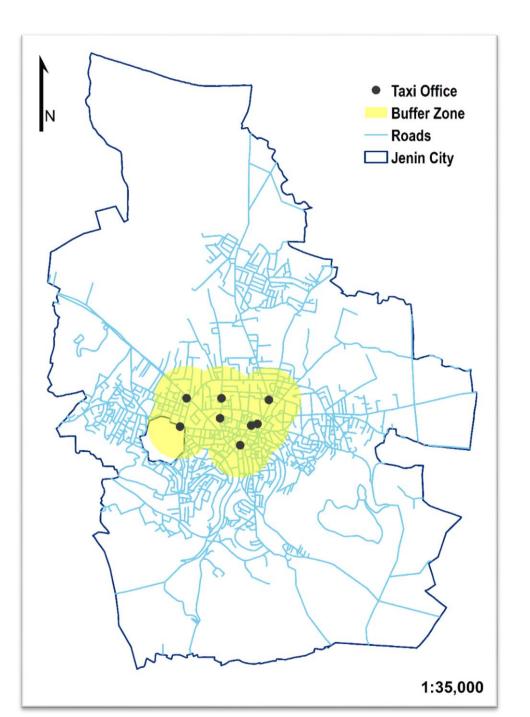


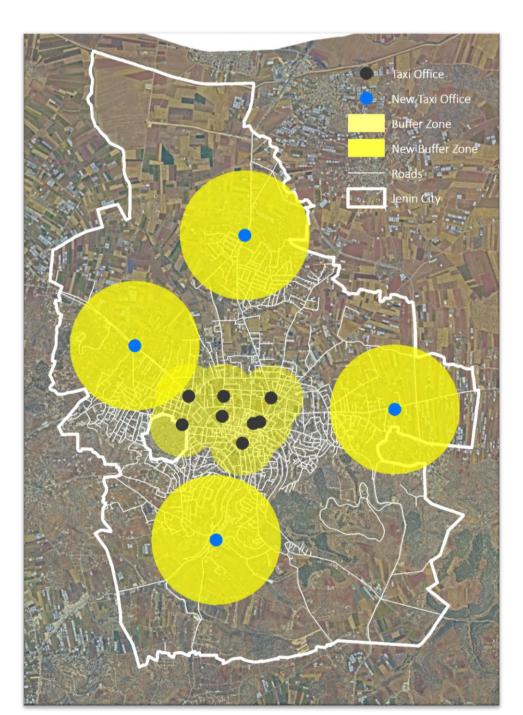
Number of Vehicle Operated by Public Transportation Parking

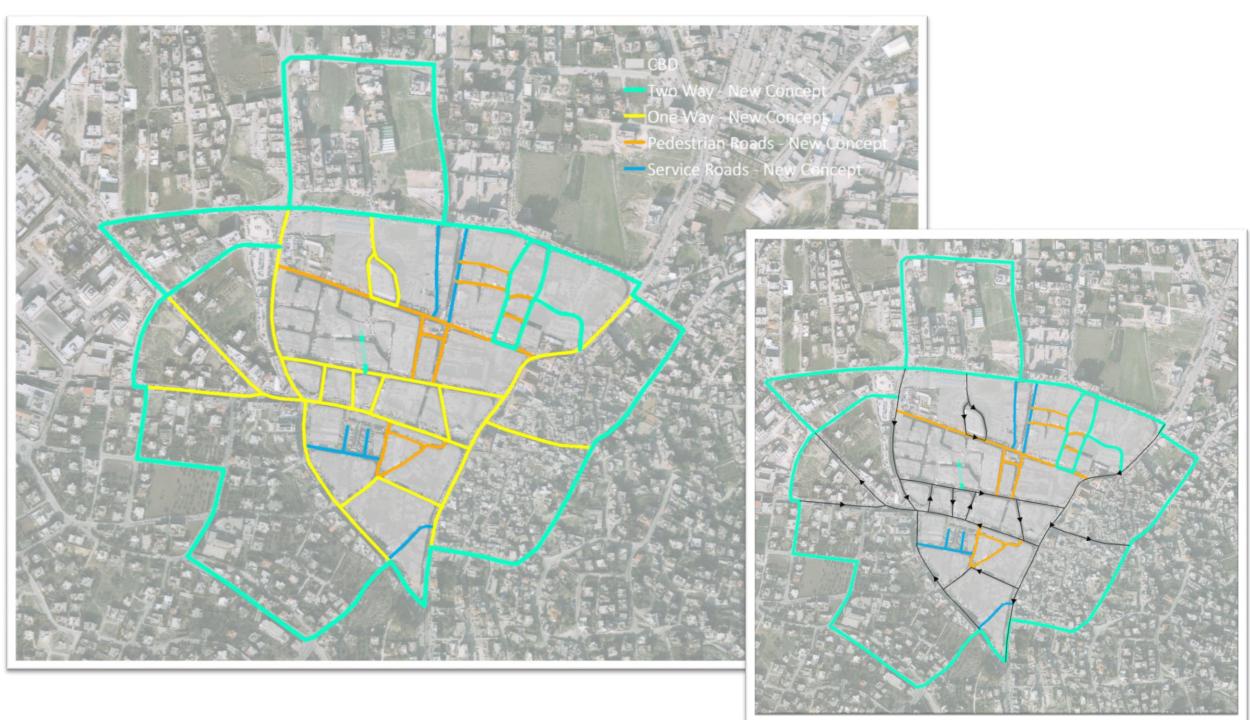










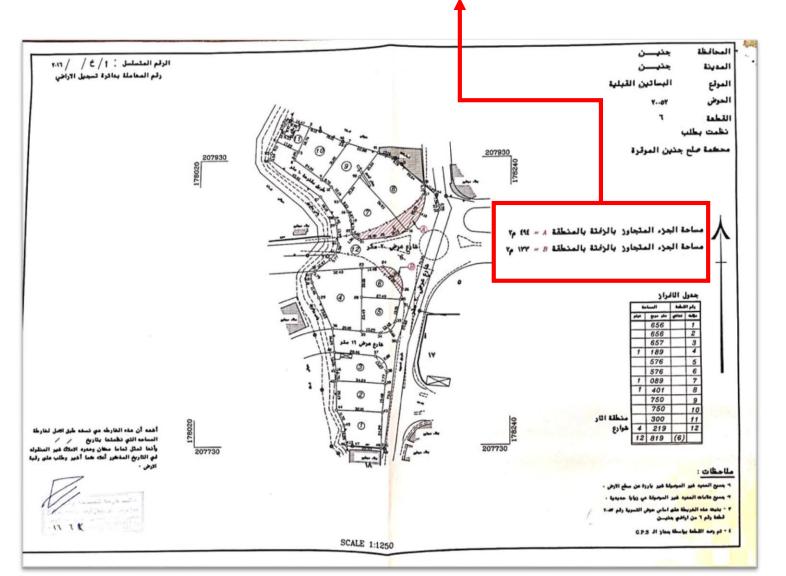




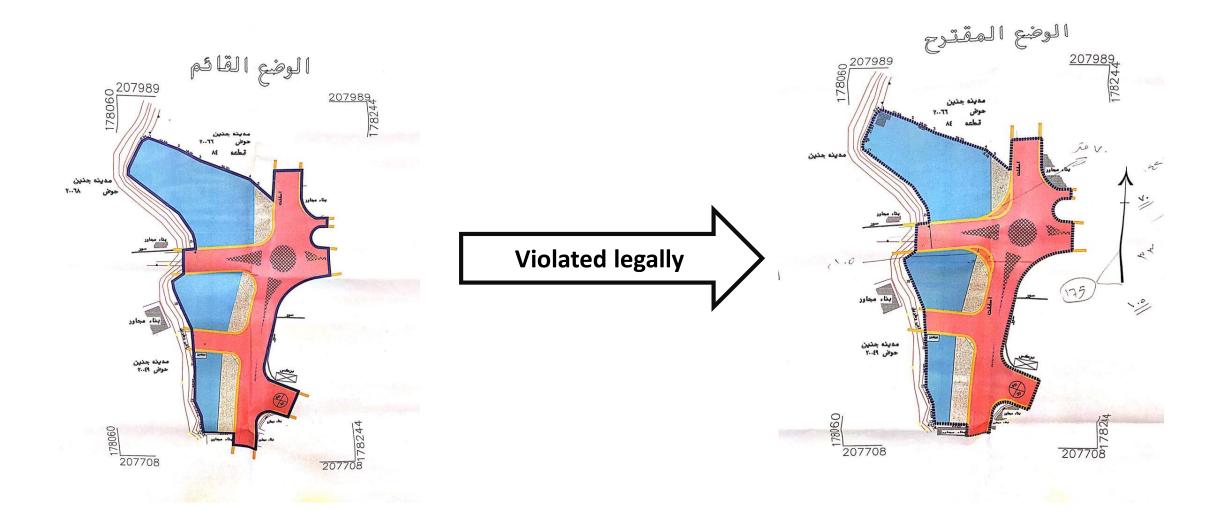
Design Problems



Area of deduction = 627 Square Meter!

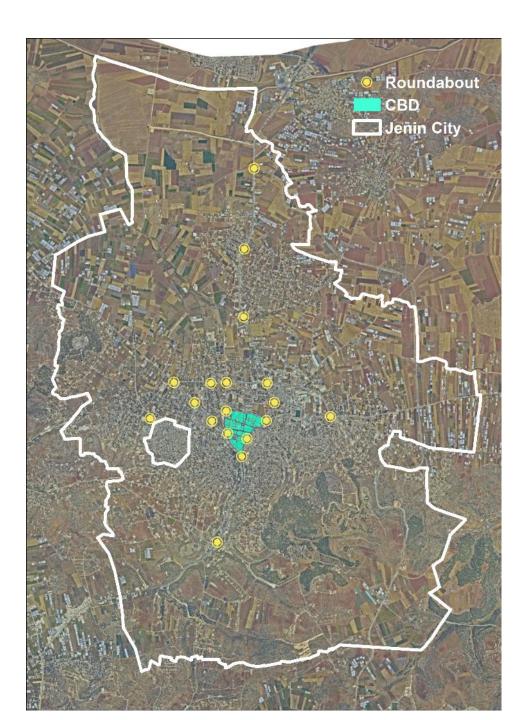


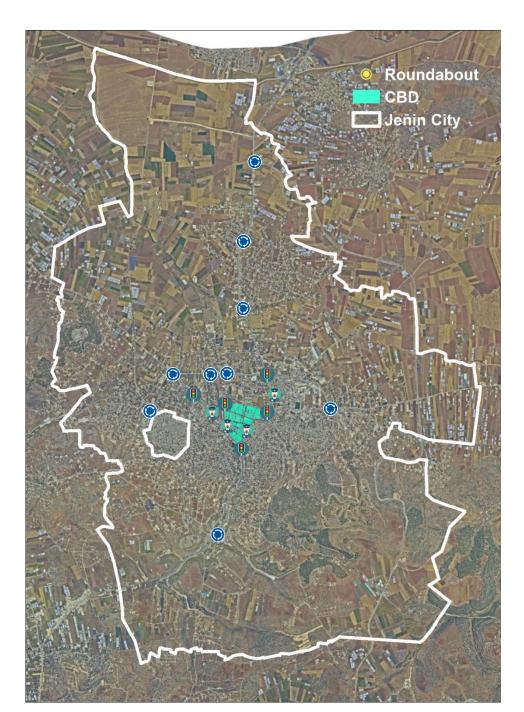
Jenin municipality didn't allow a soft copy



Transient

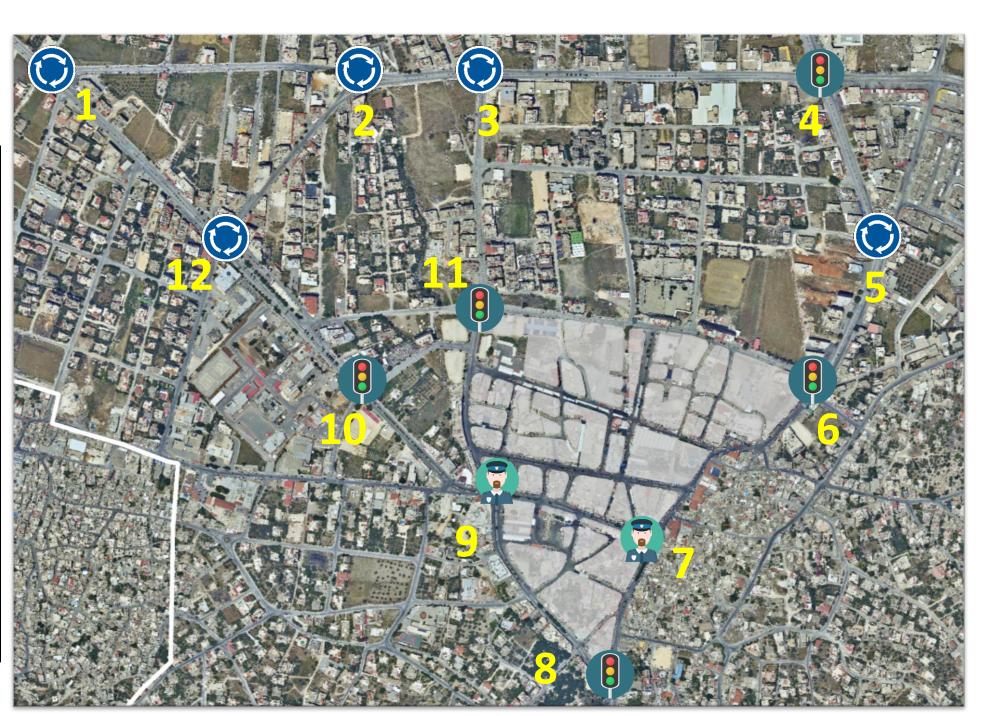
Intended





This map is due

	i		
Intersection	Level of		
Number	Service		
1	С		
2	С		
	-		
3	С		
	•		
4	D		
-			
5	С		
6	F		
U	F		
7	F		
7	F		
0	-		
8	F		
•	_		
9	F		
	_		
10	D		
11	F		
12	С		

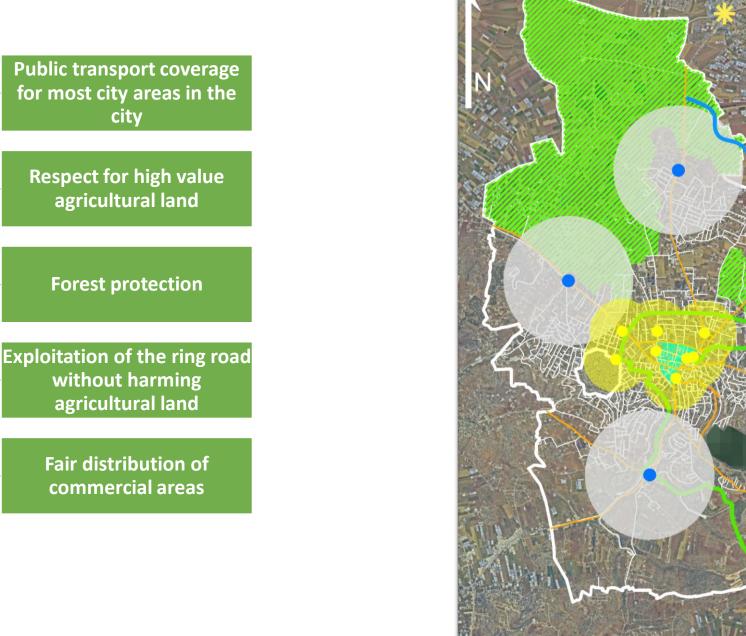


city

agricultural land

Forest protection

without harming agricultural land



Taxi Office

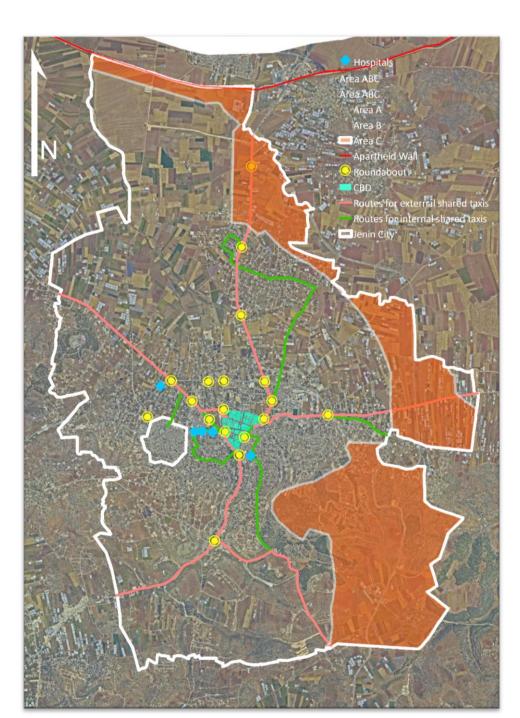
CBD ing Road

Forest -Jenin City

New Taxi Offic Buffer Zone New Buffer Zone Inability to organize comfortably in the eastern region

A large number of intersections in the city of Jenin

Unbalanced distribution of hospitals



Main Goals

Economic Benefits	Social Benefits	Environmental Benefits
Savings in transportation costs	Improved transportation options and choices	Green space
Increasing the demand for public services	Community cohesion	Reduced air pollution
Transfer more efficient	Increased physical activity and health	Reduced resource consumption
	Congestion reduction	Reduced water pollution
		Reduced "heat Island" effect

Need to reduce traffic in residential areas

Provide service lines to serve the city

Low accessibility levels

Reviving traffic on several streets

esses)

Weak

02

Strengths

B

Issues

Air and noise pollution on main roads

and a

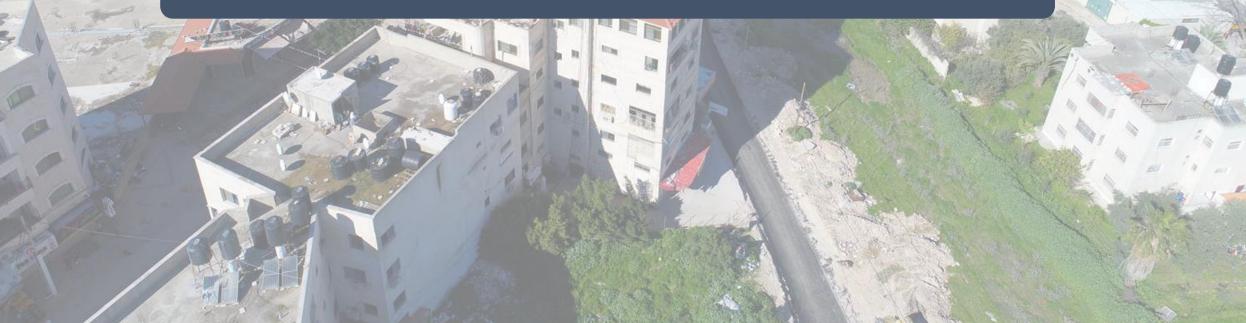
Streets landscaping needs

High traffic congestion on main connecting roads

Safety requirements

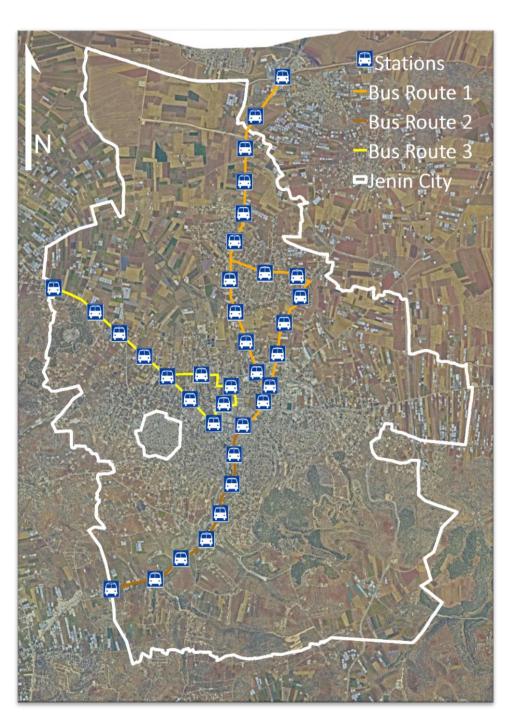
Prevent horizontal height in the center area

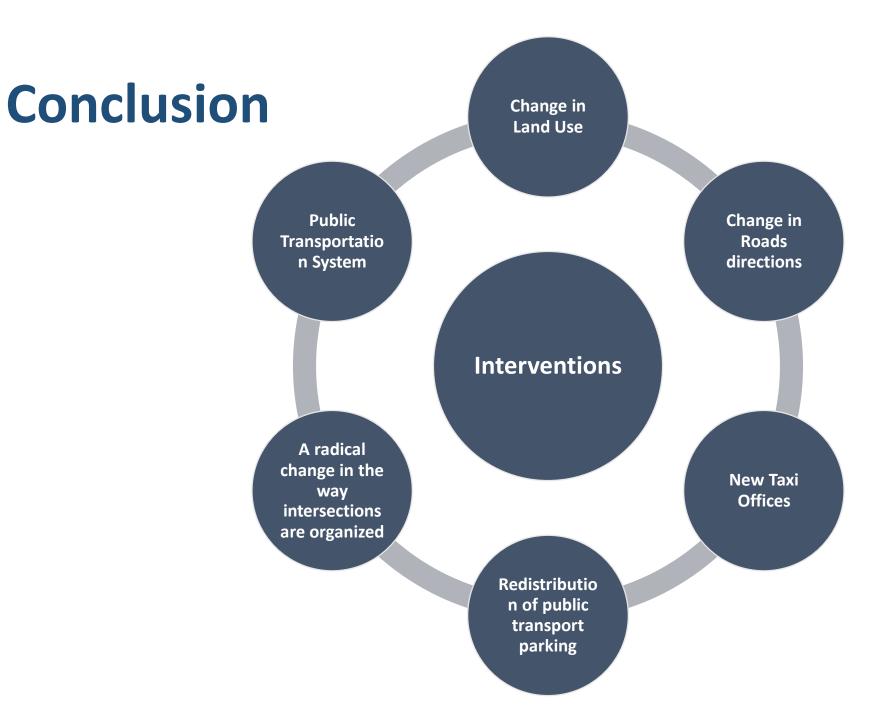
Plan Preparation and Detailed Planning



Transportation System

	Route 1	Route 2	Route 3
Length	9 Km	4 Km	5 Km
Speed	40 Km/h	40 Km/h	40 Km/h
Trip Length	45 Min	20 Min	25 Min





Thank you