REDEVELOPMENT OF RESIDENTIAL DISTRICT IN THE CITY OF NABLUS

GRADUATION PROJECT
URBAN PLANNING DEPARTMENT

SUPERVISED BY

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DR. ALI ABDULHAMID

PRESENTED BY

YARA KHAYYAT

OUTLINES

- 1 Project Idea
- 2 Project Justification
- **3** Methodology
- 4 Analysis
- **5** Output

PROJECT IDEA

Provide improved, comfortable and livable neighborhoods, And Solve the problems faced by neighborhoods, as a result of lack of services and poor distribution.

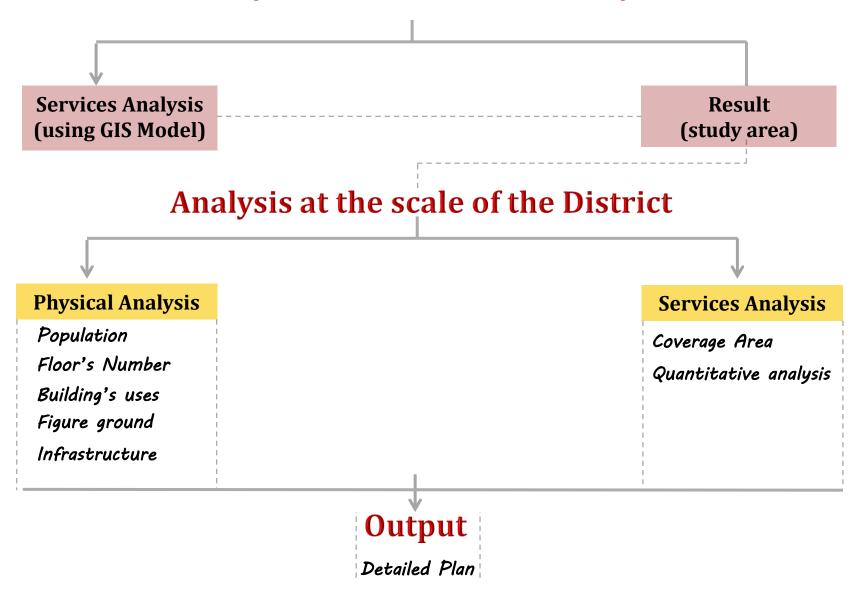
PROJECT JUSTIFICATION

- 1. Most neighborhoods in the city were randomly generated without prior planning and thus do not meet the basic criteria for residential neighborhoods.
- 2. Services are concentrated in specific areas of the city compared to other regions.
- 3. Difficulty in accessing services in some areas due to the topography and mountainous nature of the city.
- 4. Insufficient services with population in some areas.

5. Neglecting recreational services in general.

METHODOLOGY

Analysis At the Scale of the city



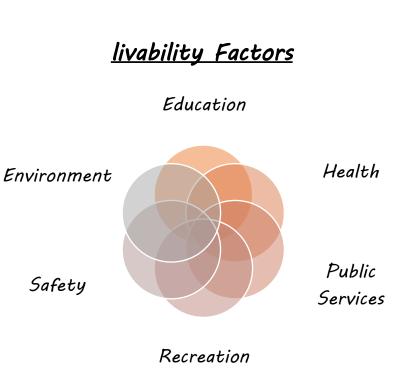
Analysis At the Scale of the city

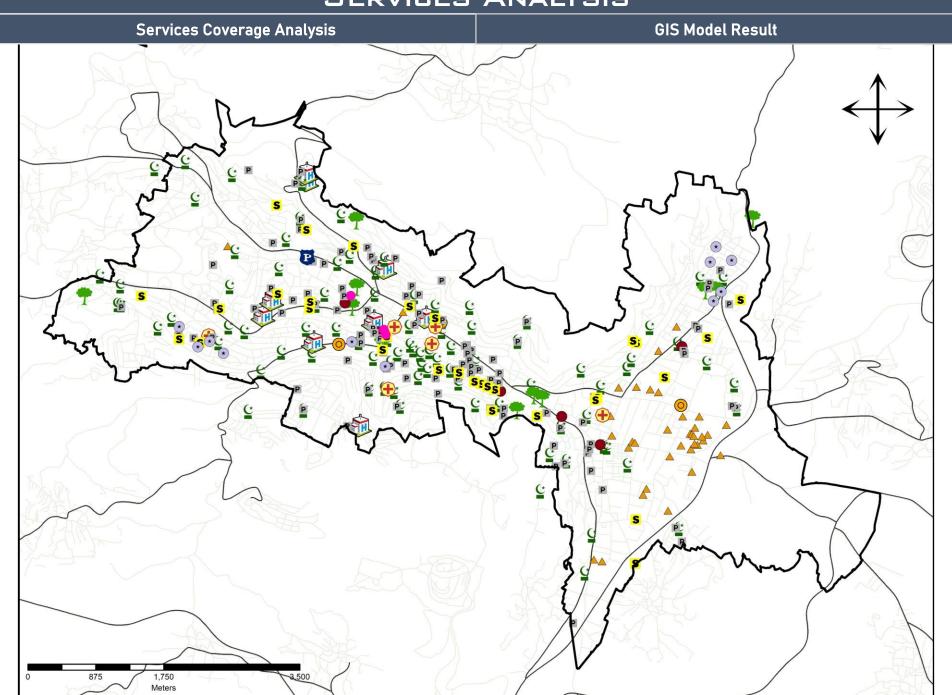
Services Coverage Analysis

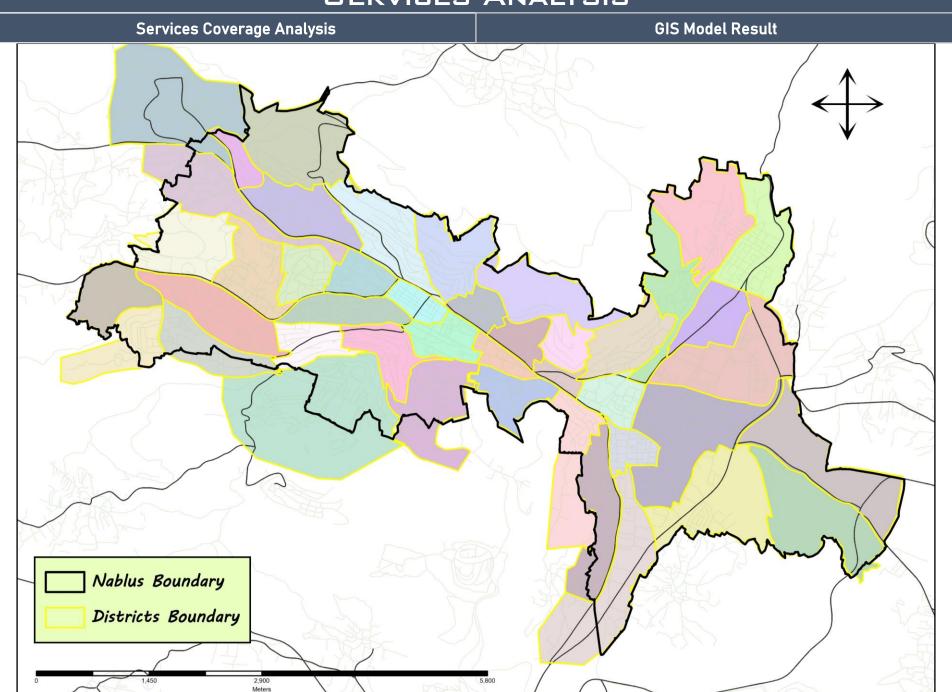
GIS Model Result

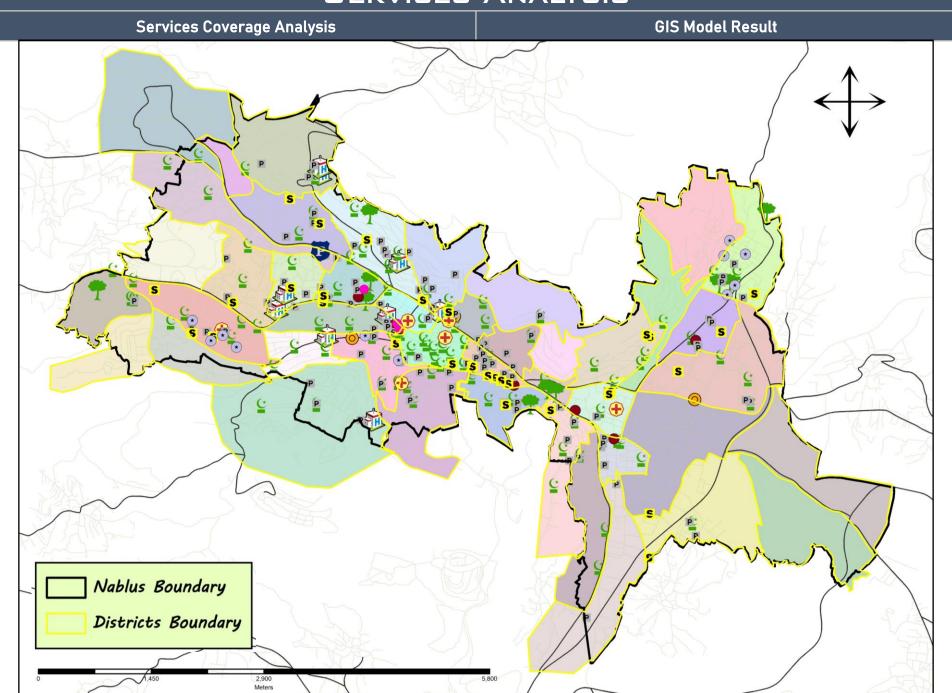
Analysis At the Scale of the city based on the livability Factors

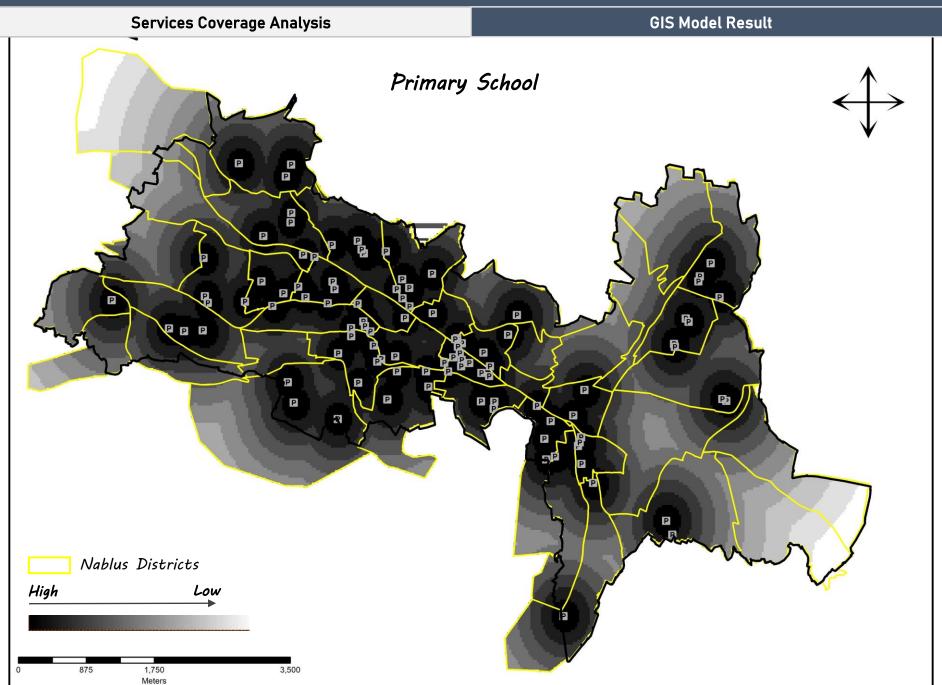
Symbol	Services	Coverage Area (m2)	Weights
*	Kindergarten	200	13%
P	Primary School	500	13%
S	Secondary School	2500	8%
(+)	Health Center	800	11%
Č	Mosques	800	10%
7	Parks & Gardens	800	11%
•	Libraries & cultural centers	5000	8%
	Clubs and playgrounds	500	6%
P	Police	5000	5%
0	Civil Defense	1600	5%
	Hospital	20000	4%
	Slope	(1-17)%	6%

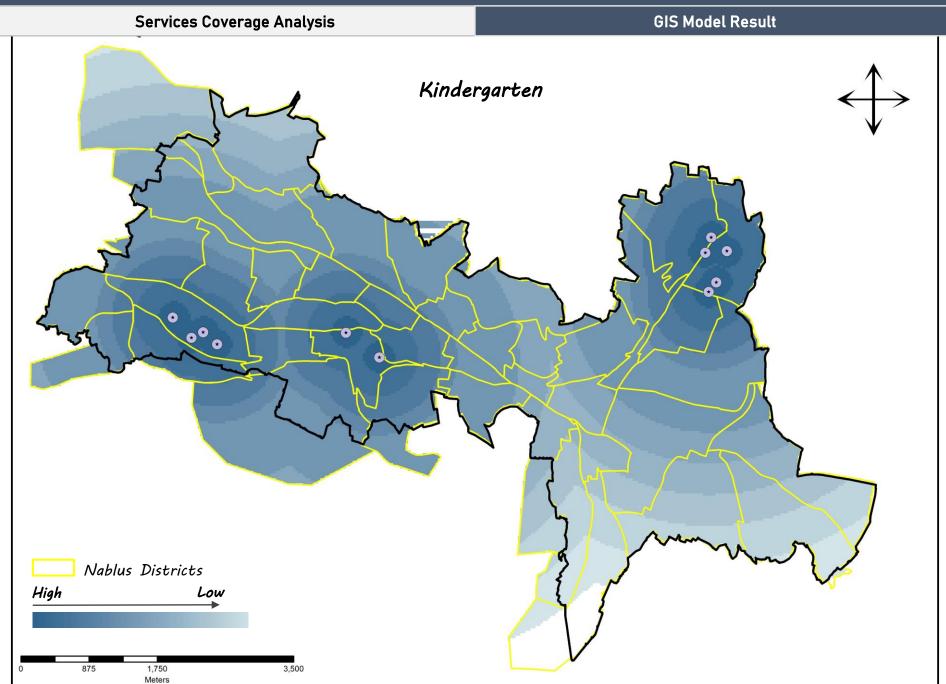


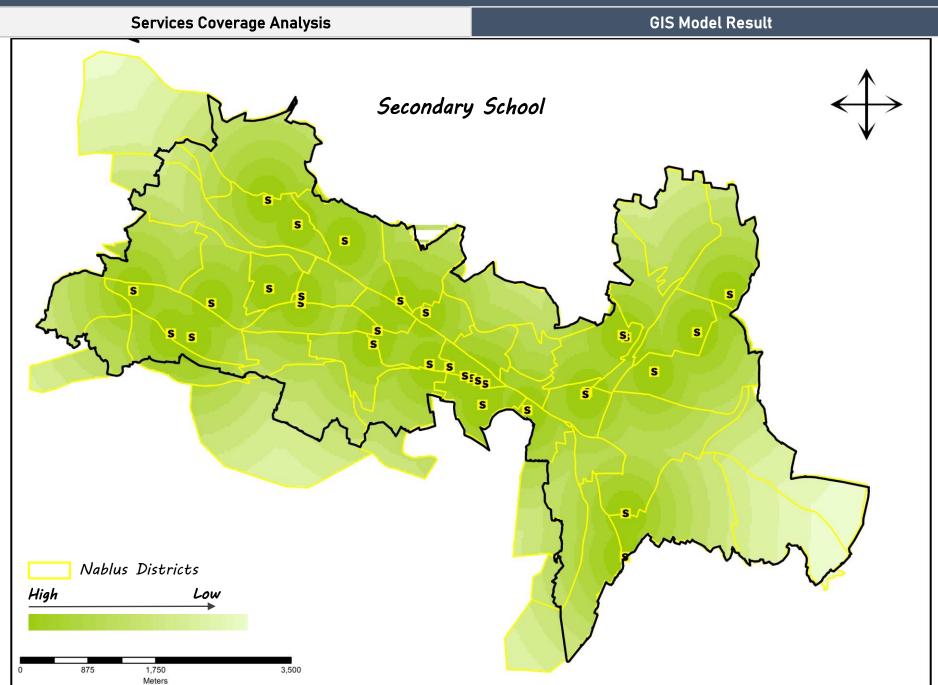


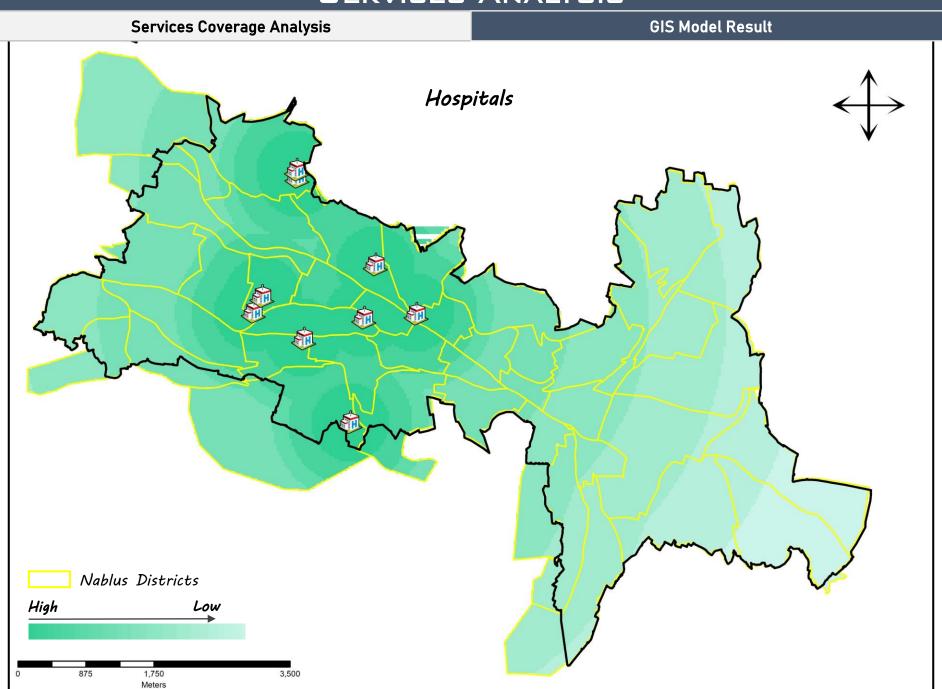


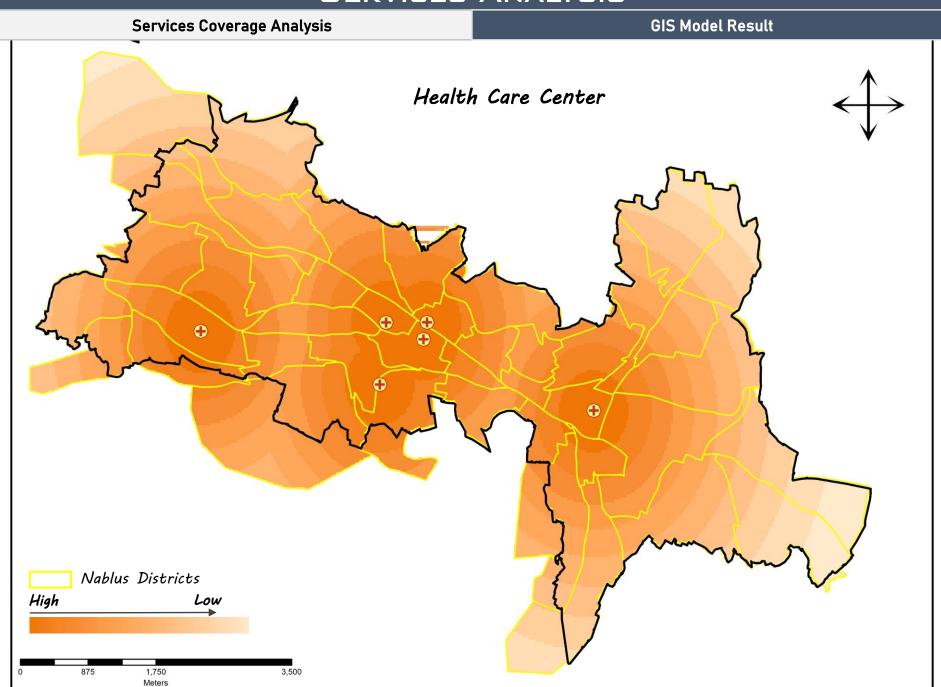


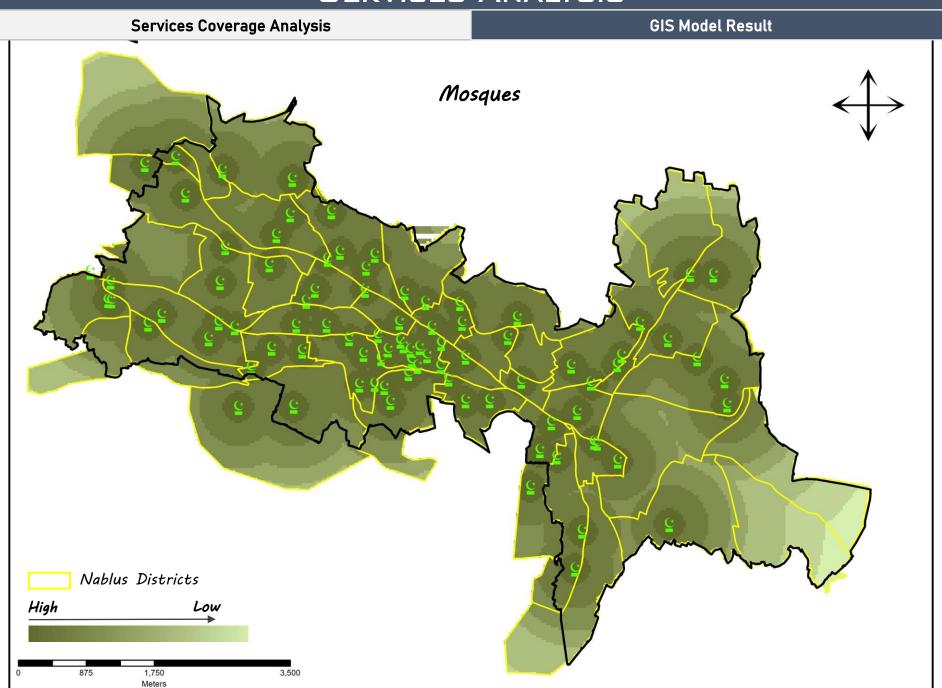


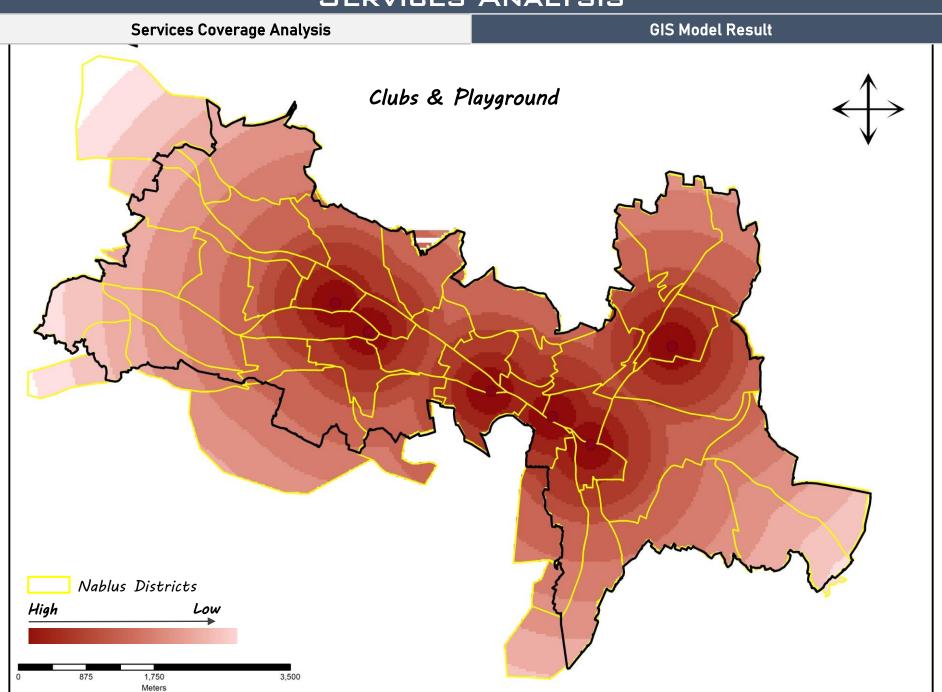


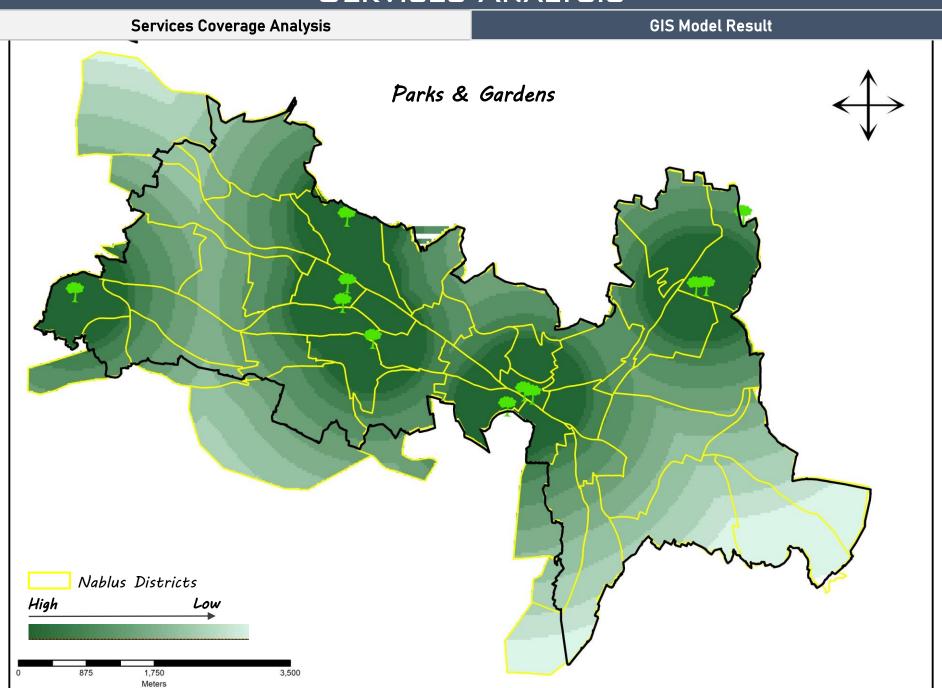


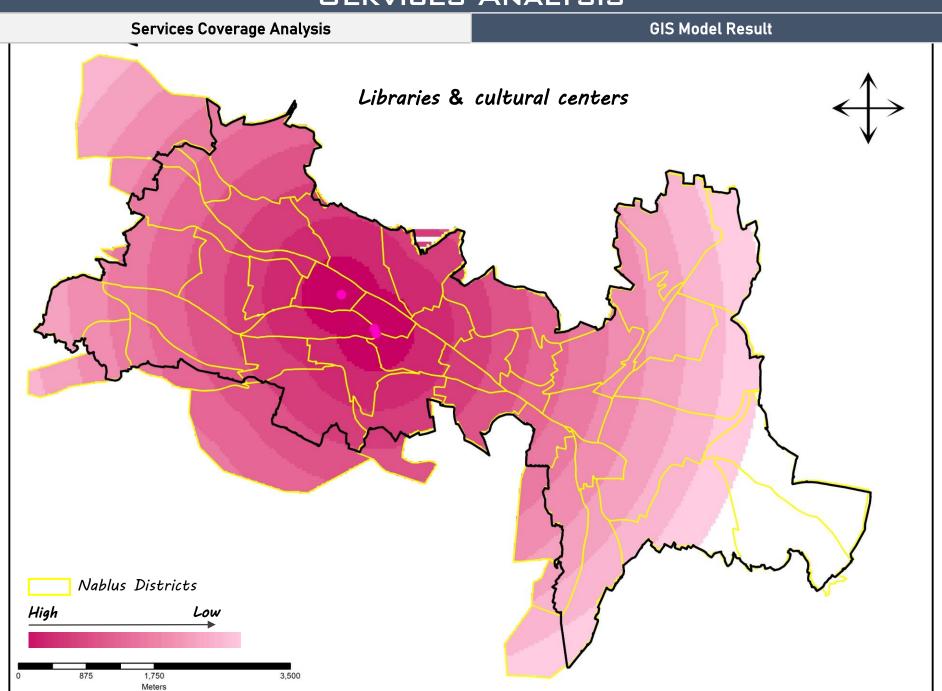


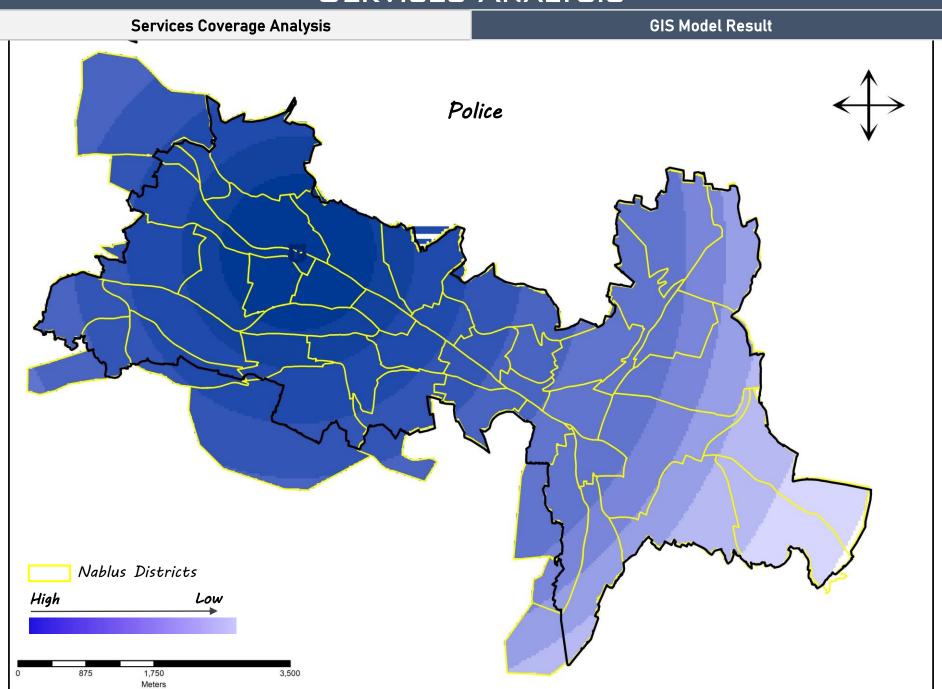


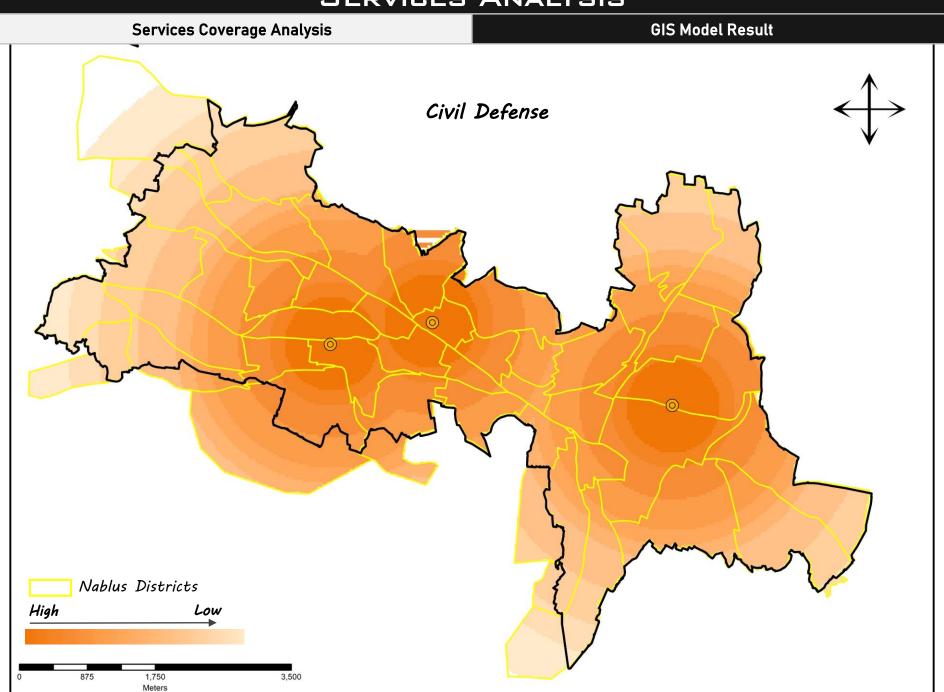








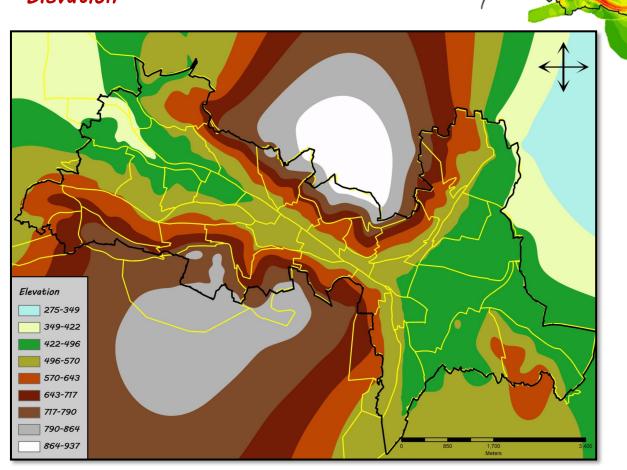


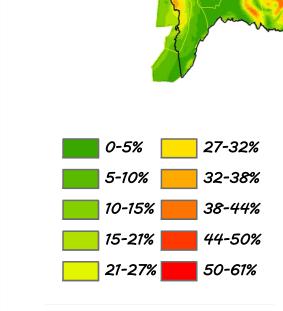


Slope

Topography (Elevation & Slope)

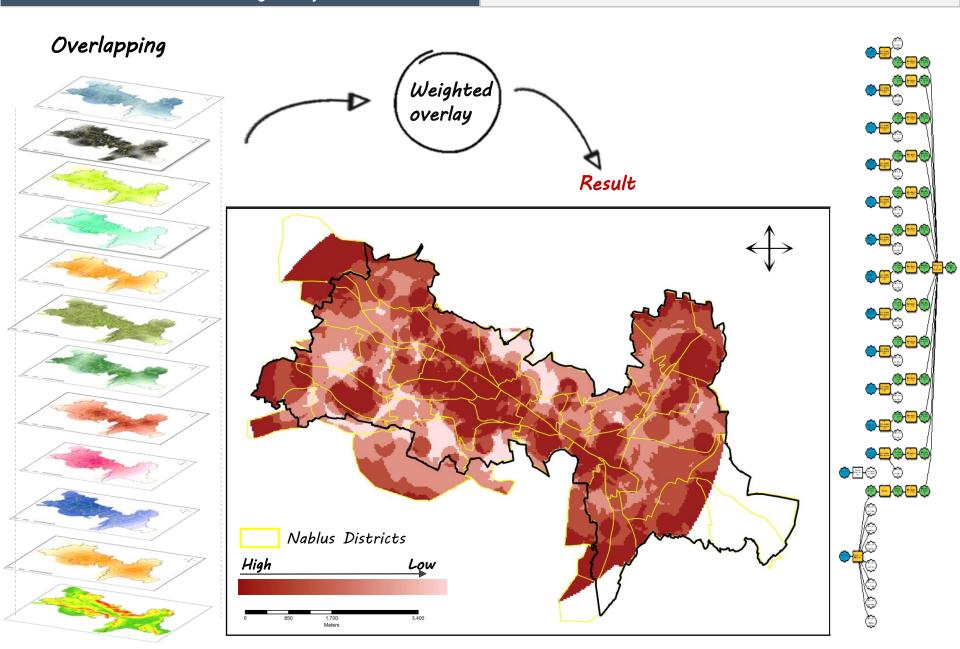
Elevation





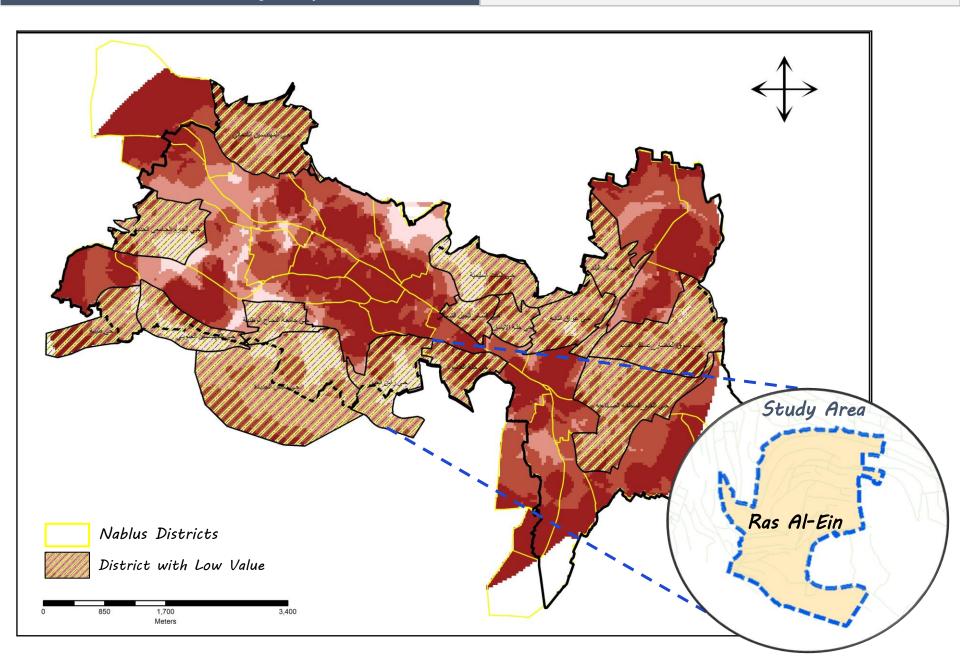
Services Coverage Analysis

GIS Model Result



Services Coverage Analysis

GIS Model Result

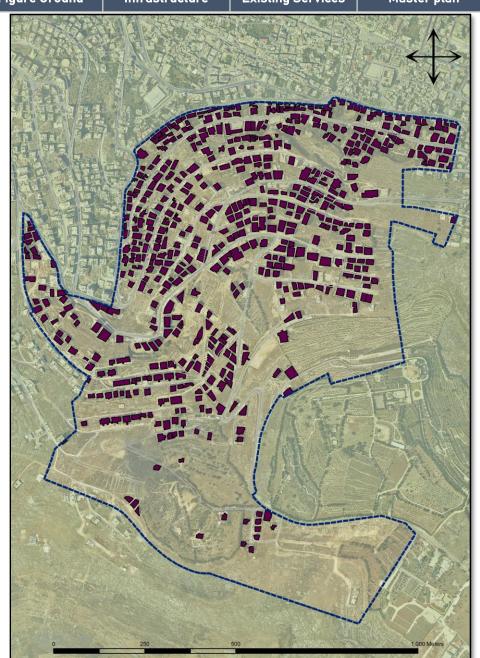


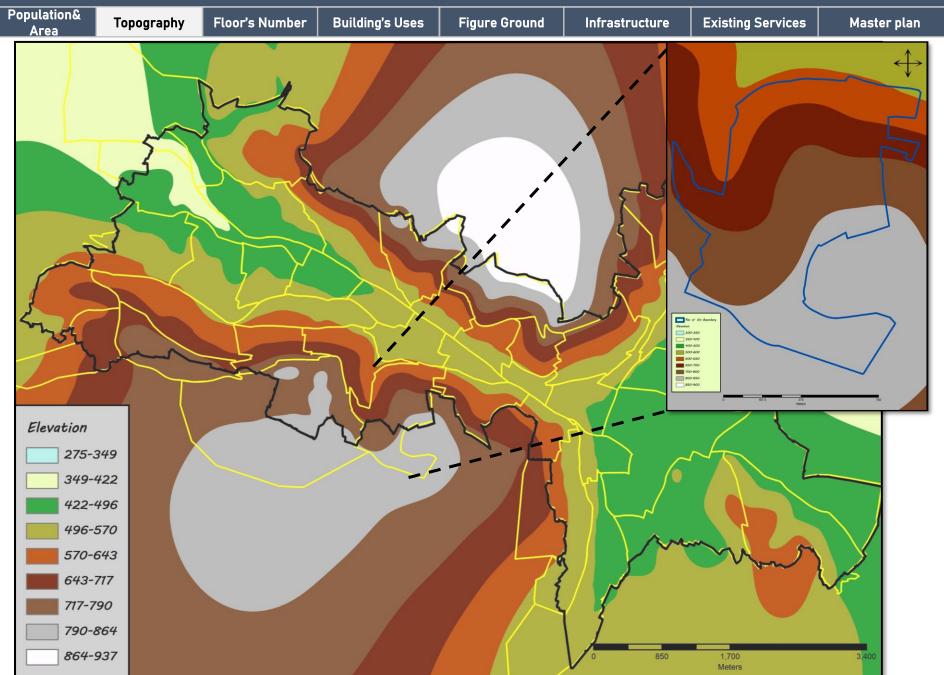
Analysis at the scale of the District (Study Area Analysis)

Population& Topography Floor's Number Building's Uses Figure Ground Infrastructure Existing Services Master plan

* Ras Al-Ain is located in the southern area of Nablus, Gerizim Mountain.

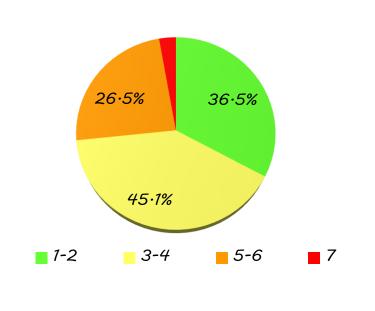
Zone Area (Donum)	977-8	
Number of buildings	610	
Population Number	28,200	
Population Density	2.8%	

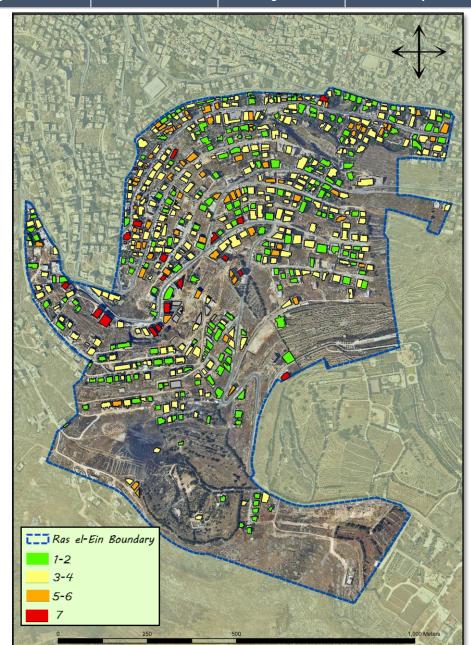




Population& Topography Floor's Number Building's Uses Figure Ground Infrastructure Existing Services Master plan

Floor's Number	1-2	3-4	5-6	7
Number of Buildings	223	275	162	19
Percentage	36.5%	45.1%	26.6%	3.1%





10

1.6%

Building's Uses

118

19.3%

Building's Uses Residential commercial Mix (R+C) Public
Number of

0.2%

Floor's Number

Population&

Area

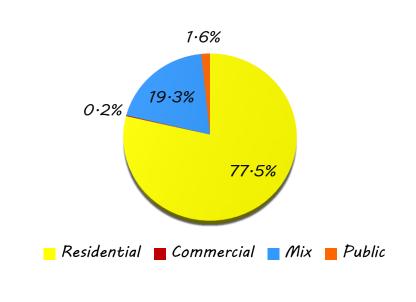
Buildings

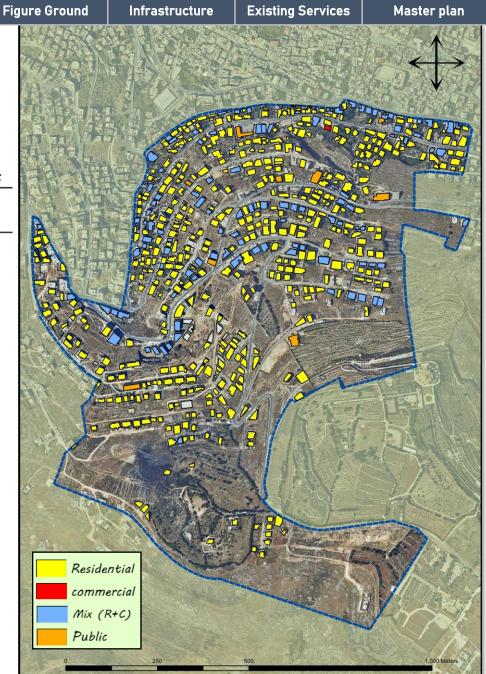
Percentage

Topography

473

77.5%





Building's Uses

977.8

866.9

Area (Donum)

Built area 110.9

Floor's Number

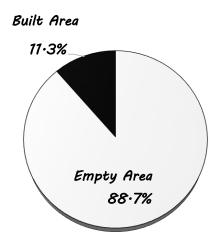
Topography

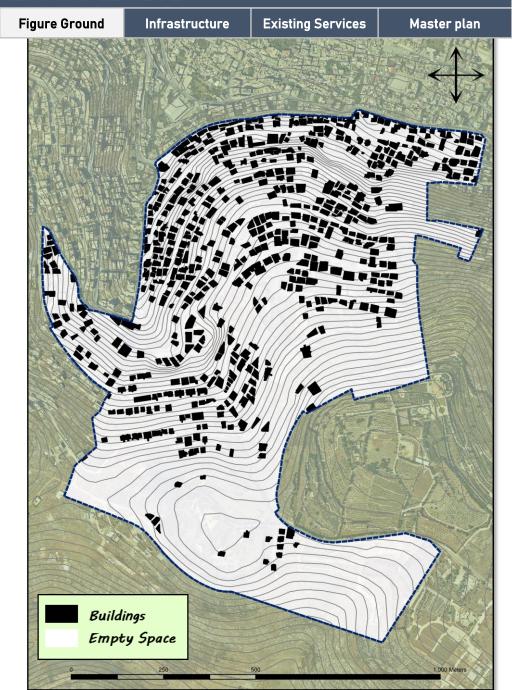
Zone Area

Empty Space Area

Population&

Area

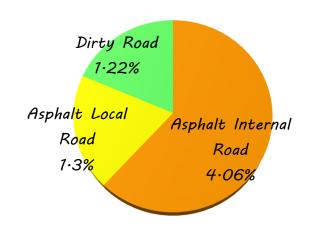


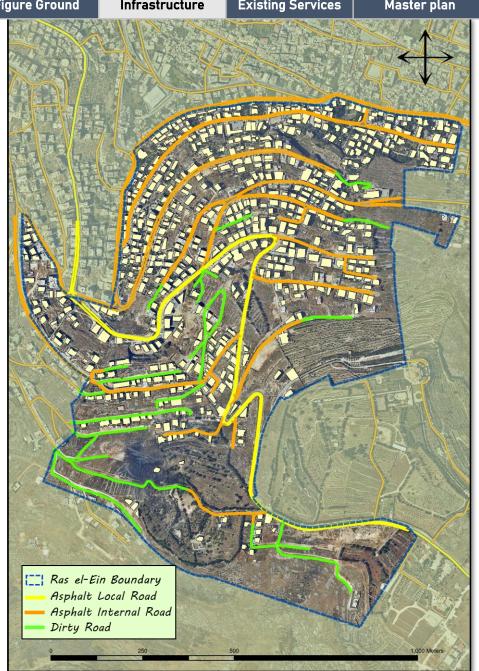


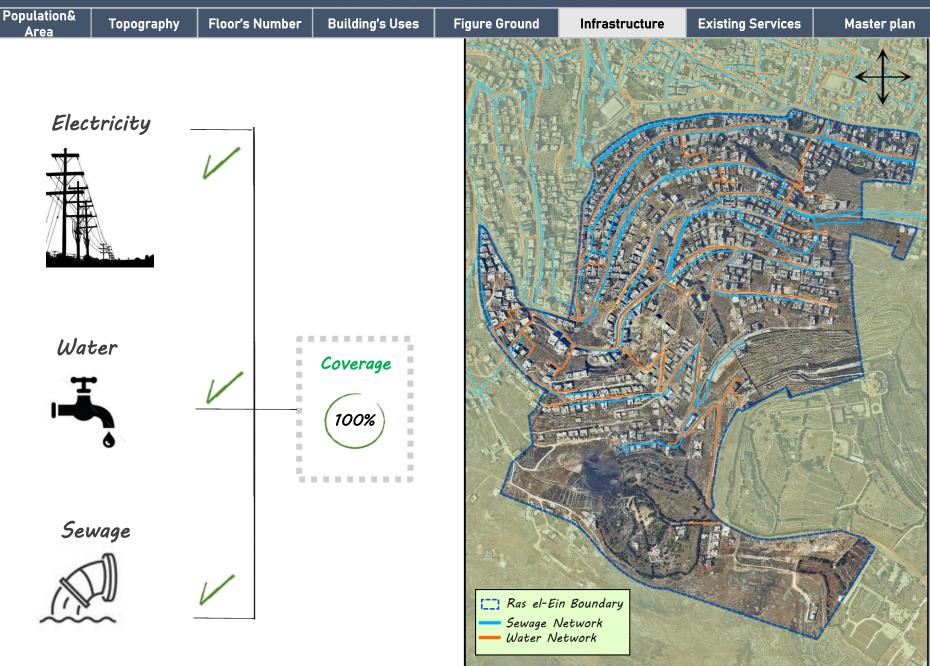
Population& Topography Floor's Number Building's Uses Figure Ground Infrastructure Existing Services Master plan

Roads Network

	width	Area	Percentage
Local Road	5m	12.5	1.3%
Internal Road	(5-6)m	39.7	4.1%
Dirty Road	3 m	11.9	1.2%
		64-1	6.6%

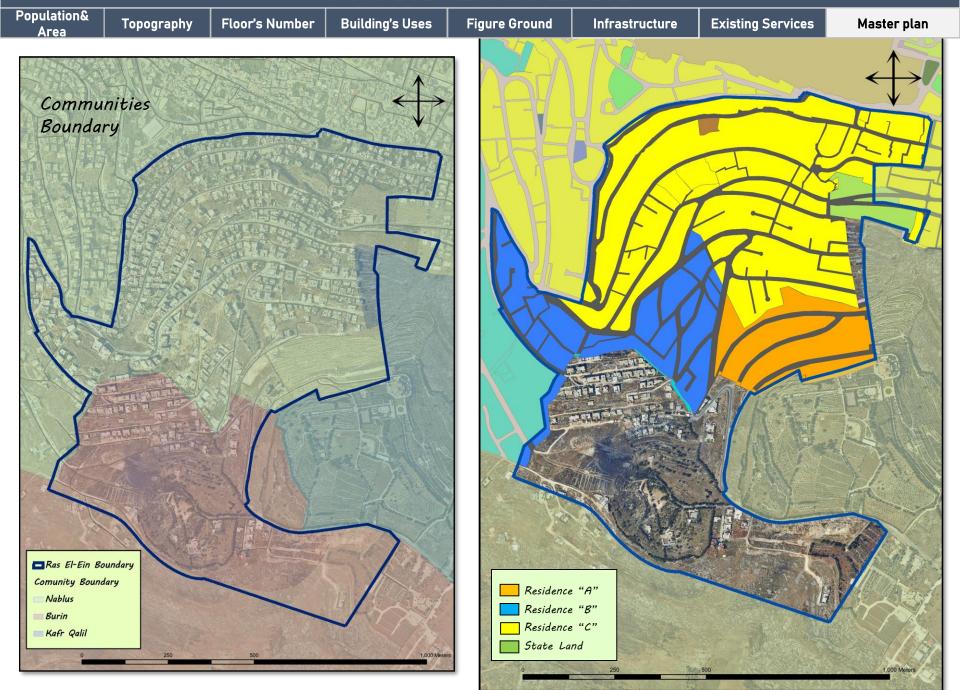






Population& Topography Floor's Number Building's Uses Figure Ground **Existing Services** Master plan Infrastructure Area 4 Primary Schools 3 For Girls 1 For Both 5 Mosques Ras el-Ein Boundary Mosque Primary school for girls Mixed Primary school

1,000 Meters



Service Coverage Analysis

Quantitative Analysis

Type of Services

 Services should be provided at the scale of the neighborhood:

Mosque

Kindergarten

Primary School

Primary Health
care

Activities

 Services should be provided at the scale of the district:

Secondary
School

Gardens

Local Police
Station

Civil Defense
Sub-Library
Center

Services	Coverage	Analy	/sis
301 11003	OUTCI GGC	Allac)

Services Criteria			Notes	
	Number of Served Population	3000 - 7500		
Mosque	Coverage Area (m2)	1000	Primary Service	
	Area For each Person (m2)	1		
	Number of Served Population	1500 - 3000		
V:ndonoanton	Coverage Area (m2)	200 - 300	For Girls &Boys	
Kindergarten	The Number of Served Children	100 - 200	Por Oiris &Boys	
	Area For each Child (m2)	5		
	Number of Served Population	3000 - 6000		
Primary School	Coverage Area (m2)	800 - 1000	For Girls or Boys	
	Number of Students	240 - 720	POR OINS OF BOYS	
	Area For each Student (m2)	3⋅7		
	Number of Served Population	10000 - 20000		
Secondary School	Coverage Area (m2)	2500	For Girls or Boys	
Secondary School	Number of Students	360 - 900	FOI OILIS OI BOGS	
	Area For each Student (m2) 3.83			
	Number of Served Population	4000 - 15000		
Primary Health Care Center	Coverage Area (m2)	800	-	
	Area For each Person (m2)	0.12 - 0.50		
	Number of Served Population	10000 - 15000		
Garden or Park	Park Coverage Area (m2)		Neighborhood Scale	
	Area For each Person (m2)			

SERVICES	ANALYSIE
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Number of Served Population

Area For each Person (m2)

Number of Served Population

Number of Served Population

Area For each Person (m2)

Number of Served Population

Area For each Person (m2)

Number of seats per 1000 people

The space needed for each seat (m2)

Coverage Area (km2)

Coverage Area (km2)

Coverage Area (km2)

Coverage Area (m2)

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SERVICES	ANALYSIS
Services Coverage Analysis	

Services Criteria

Local Police Station

Civil defense center

Neighborhood Commercial

Sub Library

Center

		_				
SEF		$-\Delta$ 1	NL	\wedge \square	VE	210

Quantitative Analysis

20000 - 30000

3 - 5

0.06 - 0.10

30000 - 40000

2

15 - 25

15000 - 30000

1.2 - 1.6

0.05 - 0.10

10000 - 15000

500

0.25 - 1.5

Notes

Scale of residential

Scale of residential

Scale of residential

sector or district

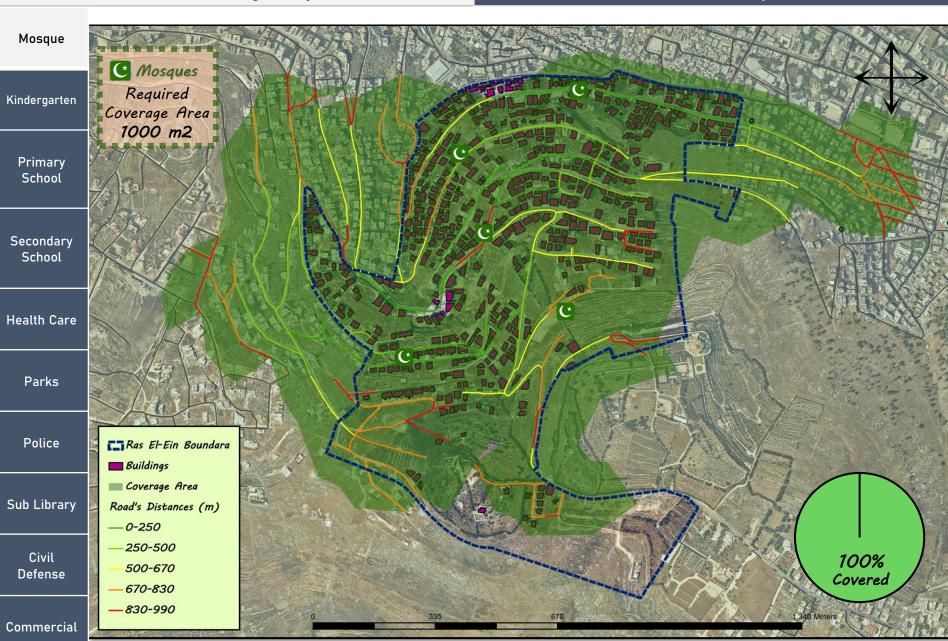
Scale of

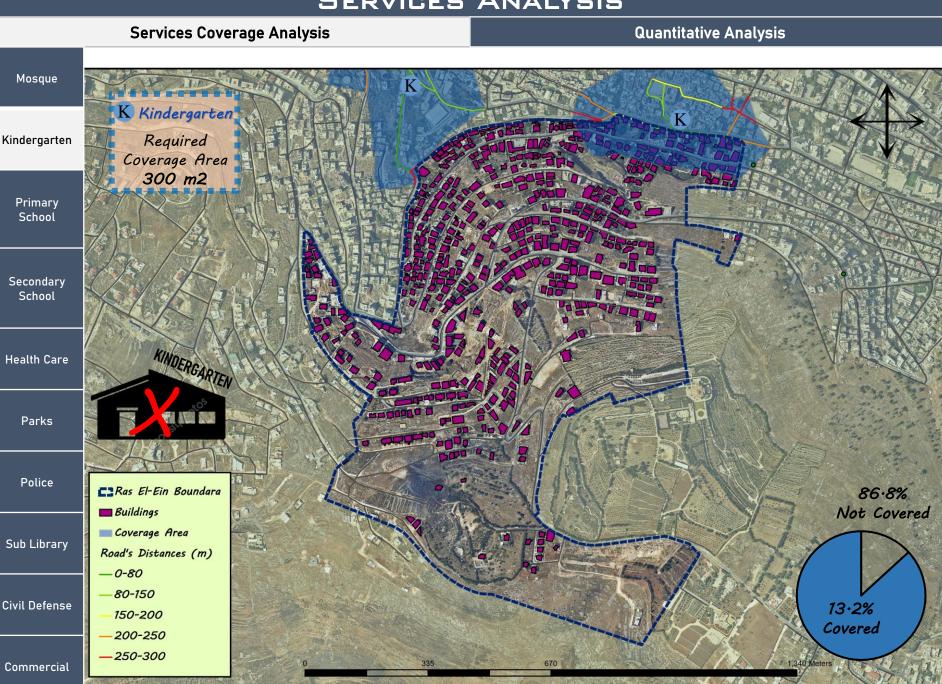
Neighborhood

sector or district

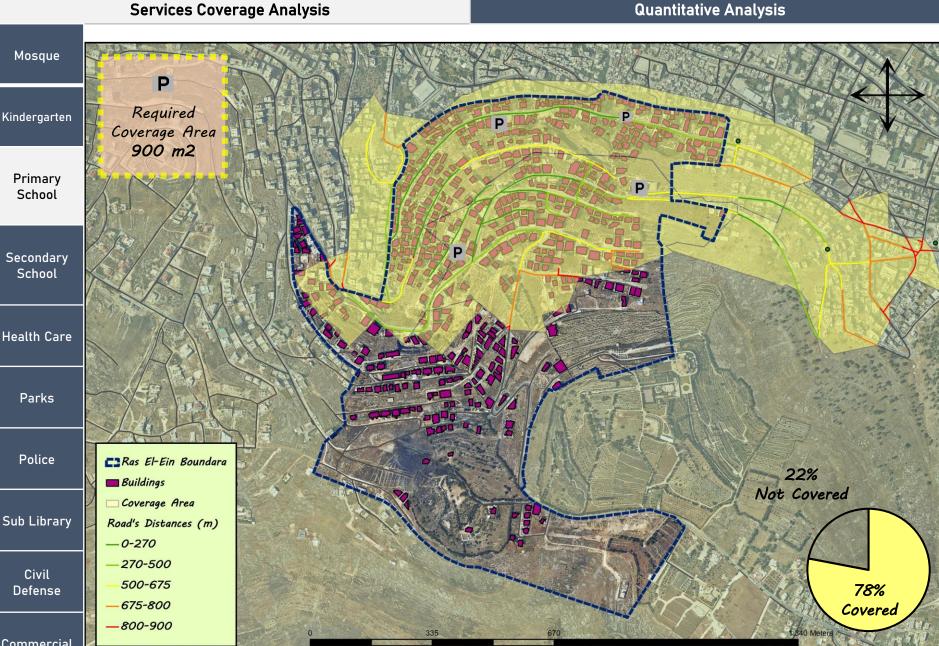
sector or district

Services Coverage Analysis

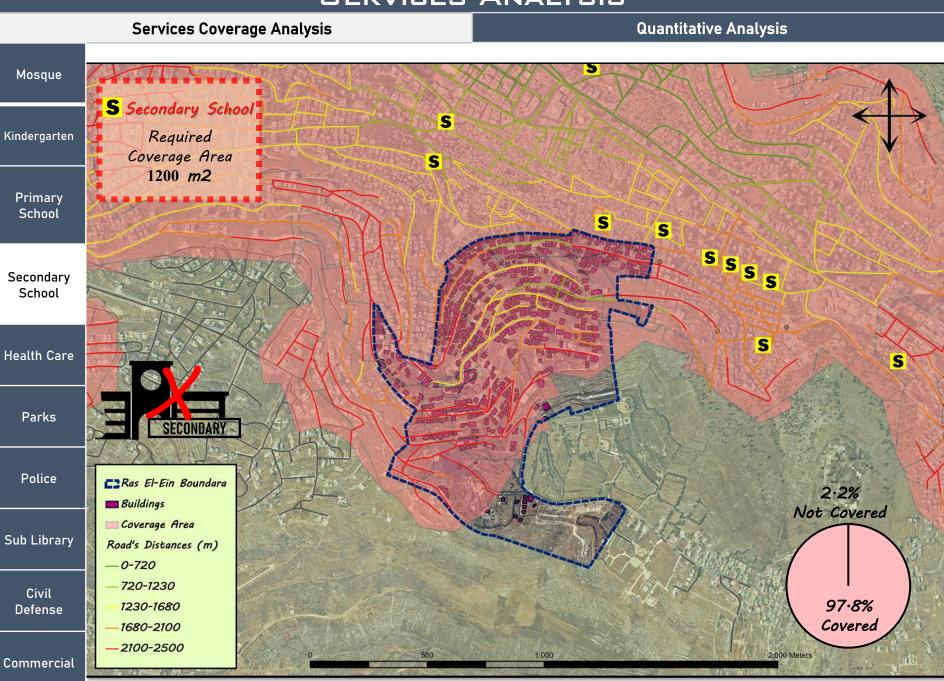




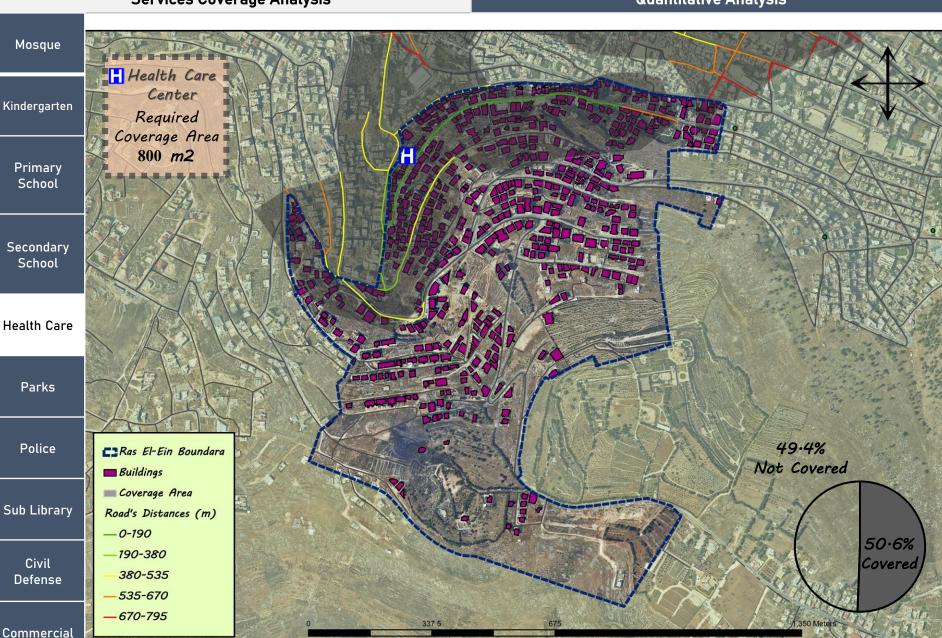
Services Coverage Analysis

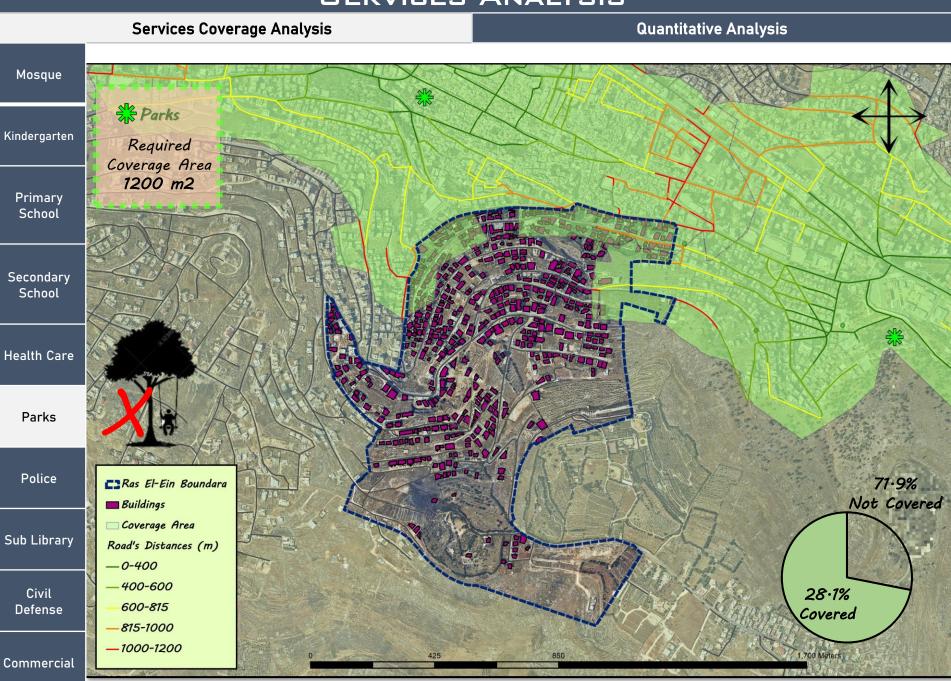


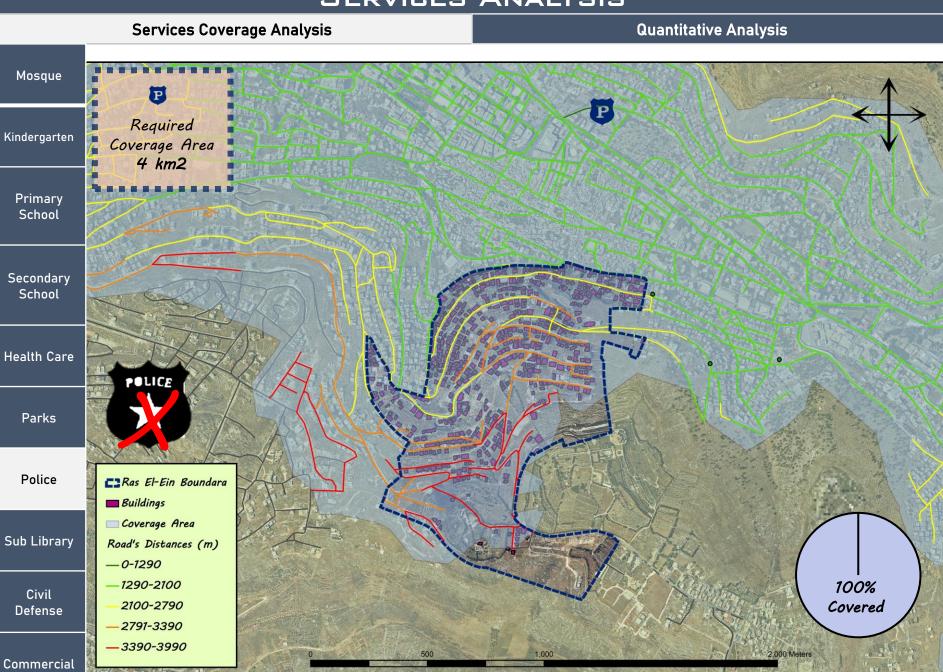
Commercial

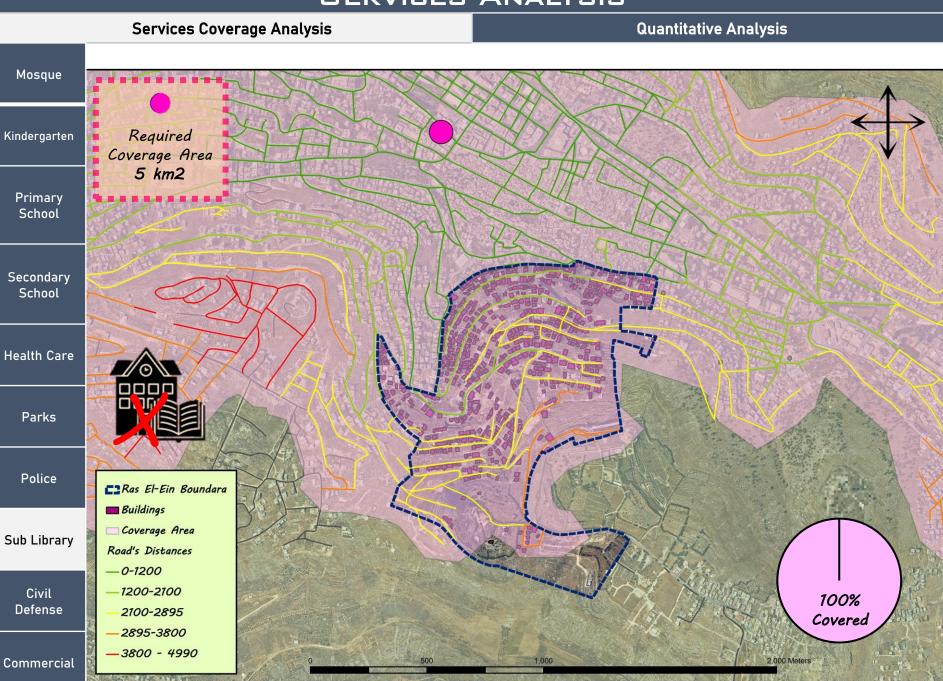


Services Coverage Analysis



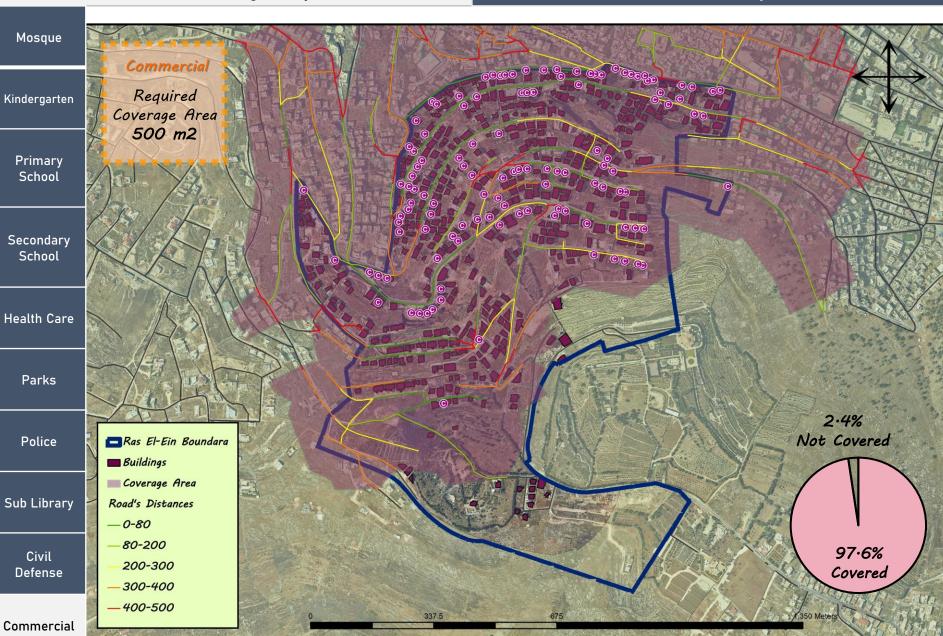






Services Coverage Analysis **Quantitative Analysis** Mosque 0 Required Kindergarten Coverage Area 1400 m2 Primary School Secondary School Health Care Parks Police Ras El-Ein Boundara **Buildings** Coverage Area 36.2% Sub Library Road's Distances (m) Covered -0-420 63.8% **420-760** Civil Not Covered 760-1020 Defense -1020-1235 **—1235 -1445** 2,000 Meters Commercial





14

4.1

24.3

2.9

7

2.6

978

3

7

6

0.7

0.2

0.6

DERVICES.	ANALYSIS
Services Coverage Analysis	Quantitative Analysis

Services boverage Analysis						Gaaritic	itive Allatysis			
Service	Area For each Person (m2/person)	Exiting Pop NO: (2020)	Pop· NO· of this Categories	Area Needed (Donum)	Available Area (Donum)	Imperfection	The Increase in population (2036)	The increase in the Pop· NO· of this Categories	The Area Needed for population increase (Donum)	Total Need (Donum)
Mosque	-		(300	(3000 - 7500) Person need 1 mosque					-	
Kindergarten	2		3,102	6	0	6		1,024	2	8
Primary School	3.7		2,820	10.4	6.7	3.7		931	3	6.7

0

0.5

0

0

0

0

11

3.1

18·3

2.2

0.8

2

9,315

2,961

11

3.6

18.3

2.2

0.8

2

Secondary

Primary Health

Garden or Park

Care Center

Local Police

Sub Library

Civil defense

Neighborhood Commercial

center

Center

Station

School

3.83

0.12 - 0.15

0.3 - 1

0.06 - 0.1

1.5 / 2 seat

15 - 20 m2

0.05 - 0.10

0.25 - 1.5

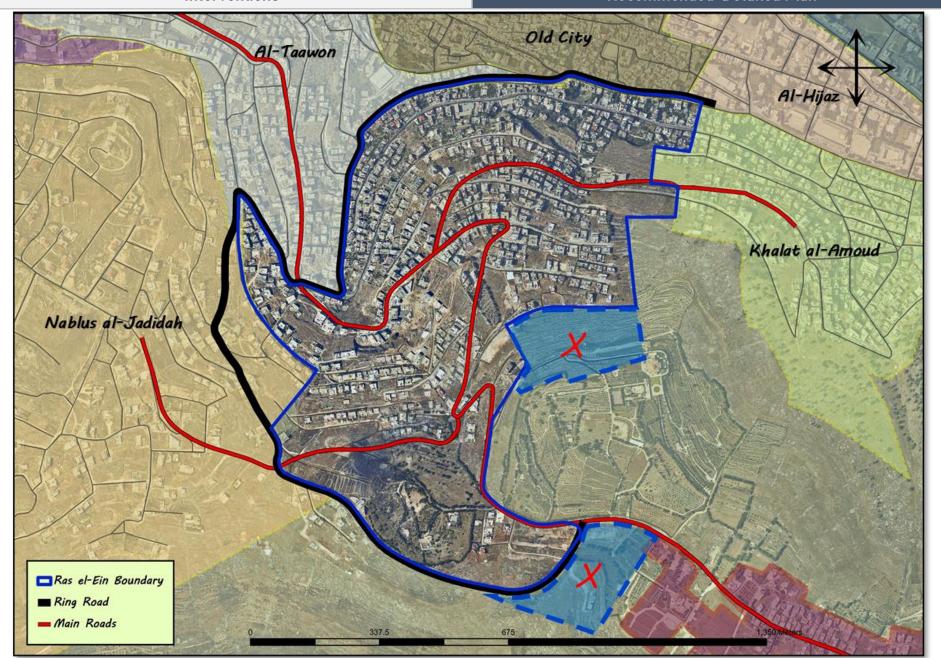
1000 pop need:

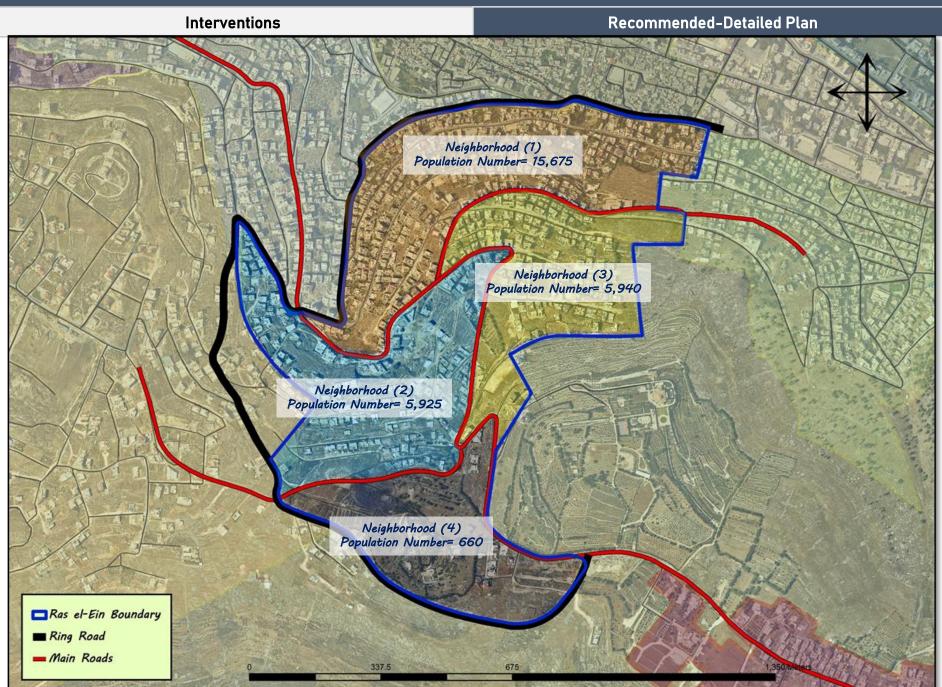
Each seat need:

28,200

Interventions

Recommended-Detailed Plan







Interventions

Recommended-Detailed Plan

Land use Table

	use rable			
Symbol	Classification	Description	Area (Donum)	Percentage (%)
	District Boundary	-	860.8	-
	Residence (c)	2-6 floors (High Density)	204.9	23.8%
	Residence (B) with special regulation	2-4 floors (medium Density)	305.6	35.5%
	Residence (A)	2-3 floors (Low density)	99·1	11.5%
	Mixed Uses	4-7 floors (First floor commercial activities)	<i>56</i> ·9	6.6%
	Green Areas	-	25.3	2.9%
_	Ring Road	10-12 m	38.2	4.4%
	Main Road	10m	36·1	4.1%
	Collector Roads	8m	46.6	5.4%
	local roads	4m	15-2	1.7%
	Existing Stairs	-	-	-

DETAILED PLAN- RAS EL-EIN DISTRICT



Interventions

Recommended-Detailed Plan

Table of services

Symb	ool Services										
Existi	Existing Services										
	M	Mosque									
	Primary school										
	Primary Health care center										
Symb	Symbol Services Area of the Number Total Needed Area (Donum) Onum Onum										
Propo	sed	Services									
		Di	strie	t-Level Serv	/ices						
	Secondary School			4			14				
	Library		1			7					
	Civil defense& police station		6	-	-	5∙5					
	Parks			30.3			24.3				
Neighborhood-Level Services											
	Mosque		-	4	-	-					
	Kindergarten		1	6	6	6					
	Pr	imary school		2.2	3	6.7	6.7				
		imary Health care nter		1.3	3	4.1	4.1				

DETAILED PLAN- RAS EL-EIN DISTRICT

