Jericho as a Sustainable City

Tamara Adeeb Issam





content

introduction

Site selection & analysis

Concept development

Implementation & design

The City as a System

Inputs

Energy

Food

Water

Raw materials

Manufactured goods

Money

Information



Outputs

Solid wastes

Waste heat

Air pollutants

Water pollutants Greenhouse gases **Manufactured** goods Noise

Wealth

Ideas

@ Brooks/Cole, Cengage Learning

Inputs

Processes

Outputs

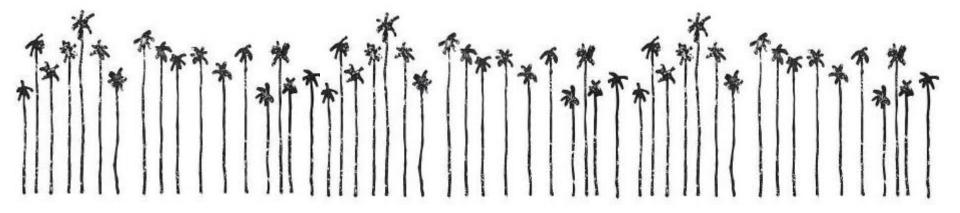
Sustainable City

"Sustainable communities manage human, natural and financial resources to meet current needs while ensuring that adequate resources are equitably available for future generations".



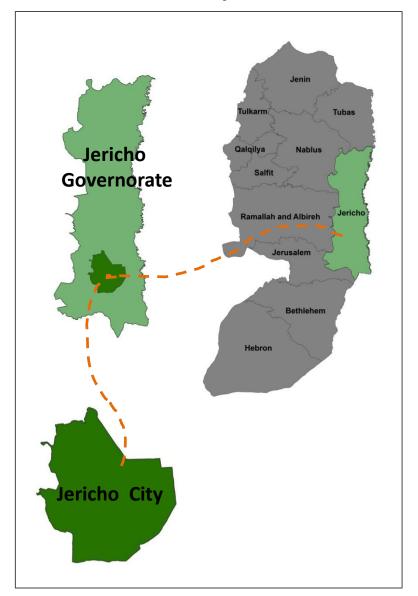
Environment

Site Selection

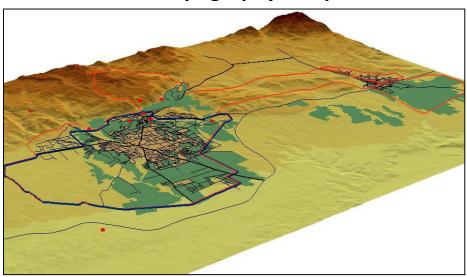


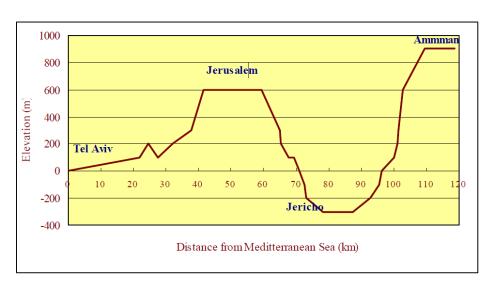
Jericho as a sustainable city

Jericho city location



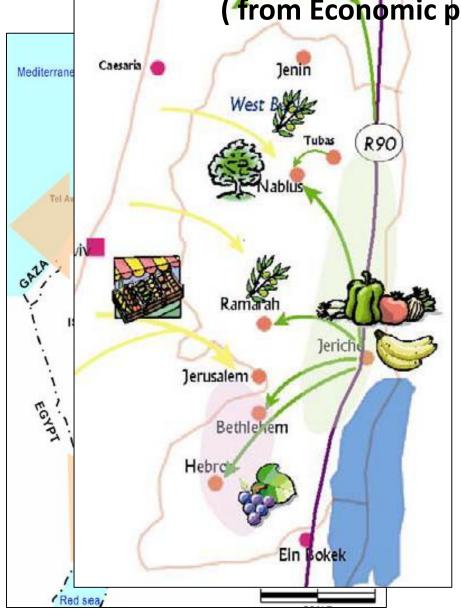
Jericho Topography Uniqueness





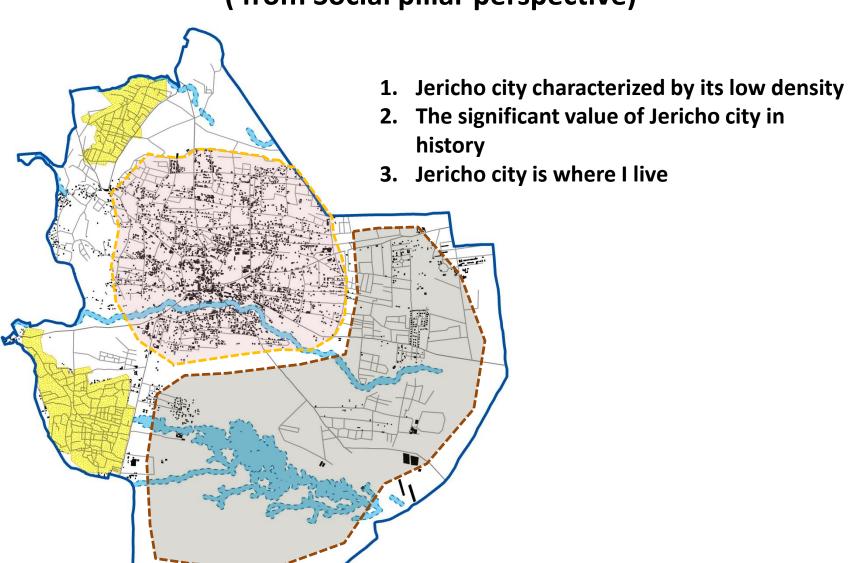
Why Jericho??





- 1. Crossroads of Corridor
- 2. Distribution Channels for Vegetables

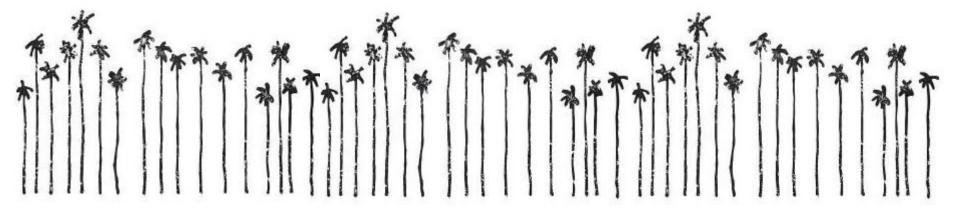
Why Jericho ?? (from Social pillar perspective)



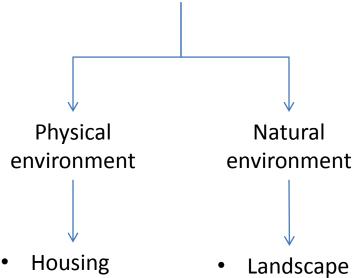
Why Jericho ?? (from Environment pillar perspective)



Site Analysis

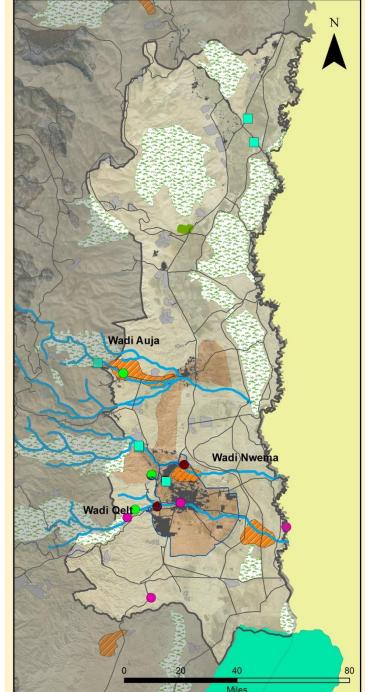


Environment



Water

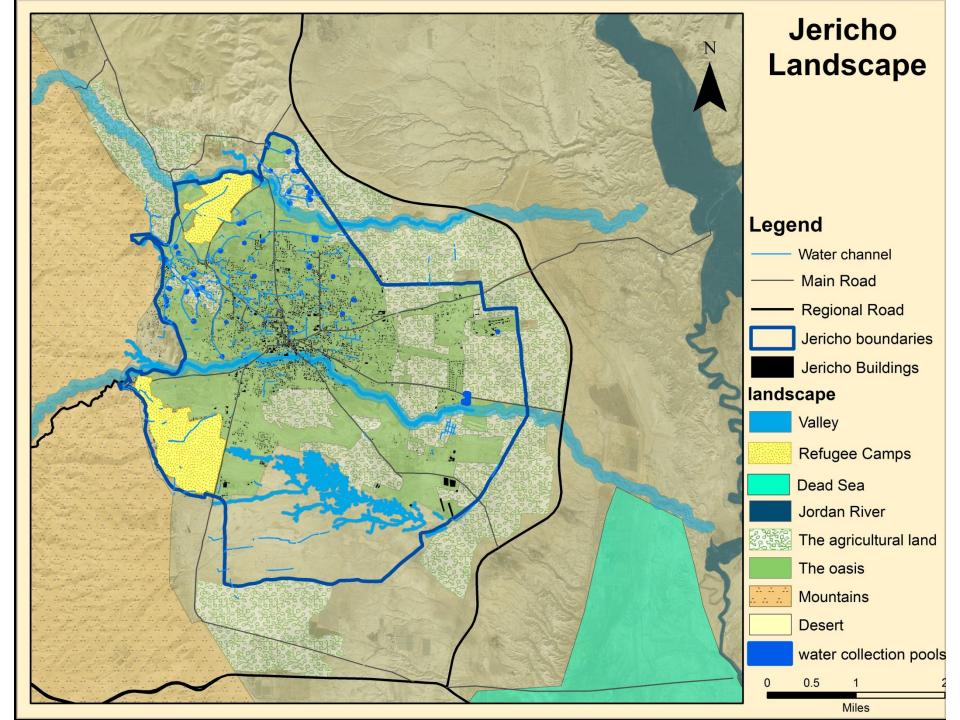
- Housing
- West water
- Solid west
- Energy

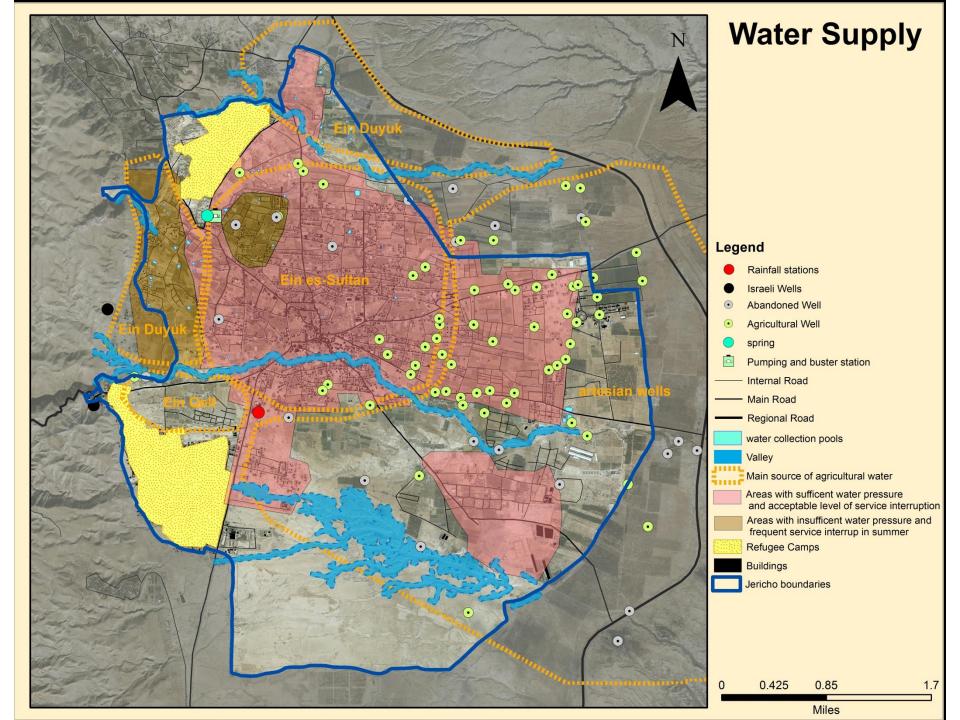


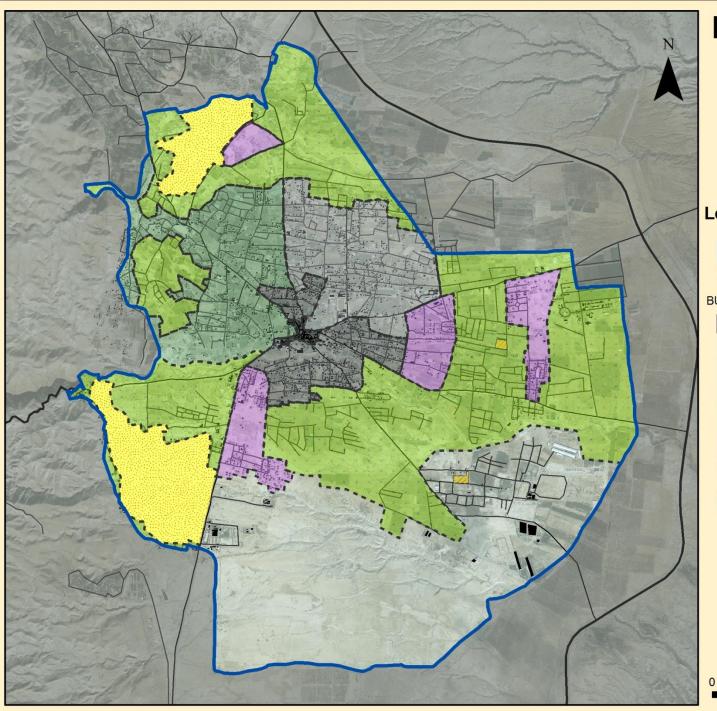
Reginal framwork **Physical-Environment**











House zoning



---- Road

Jericho boundaries

Jericho Buildings

BUILT UP AREA

City center

Denser early expansion

Medium density expansion

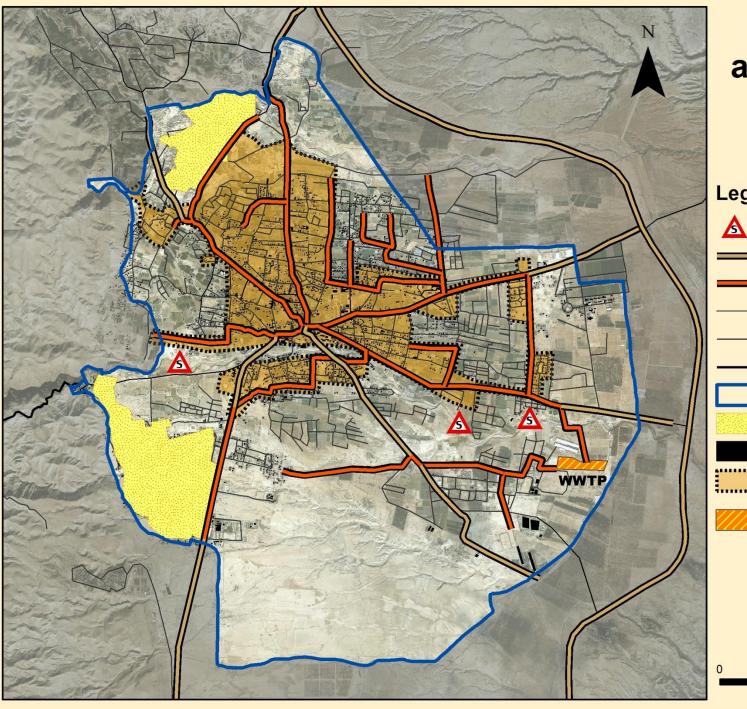
Urbanised oasis

Green belt

Recently developed area

Refugee Camps

Housing projects under construction



Drainage and sewage

Legend

Illegal sewer discharge

Secondary pipeline

main pipeline

— Internal Road

— Main Road

Regional Road

Jericho boundaries

camps

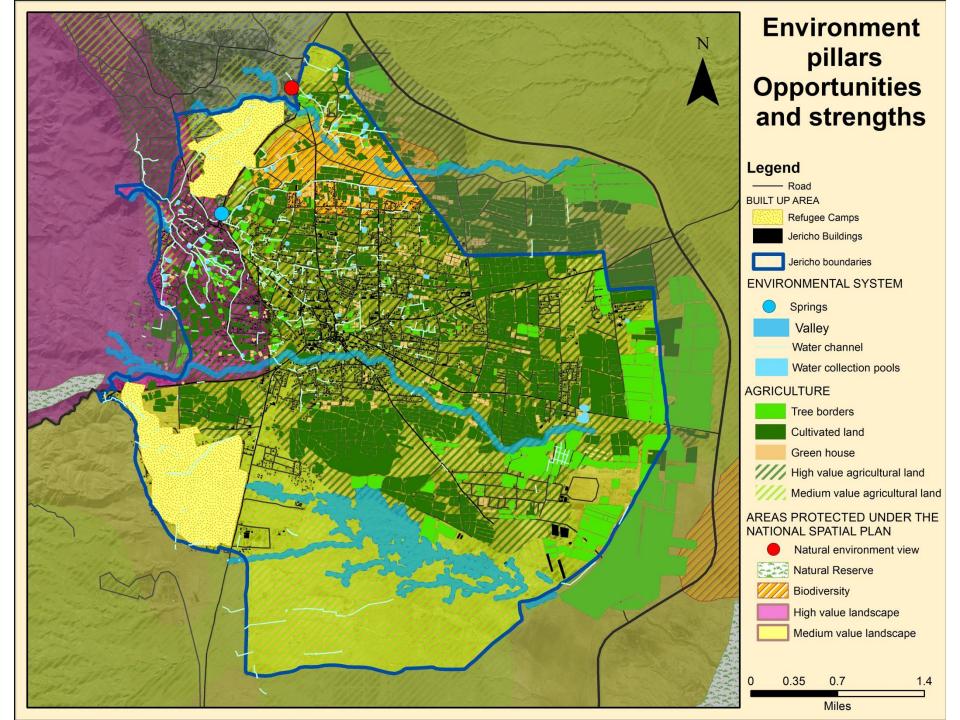
Buildings

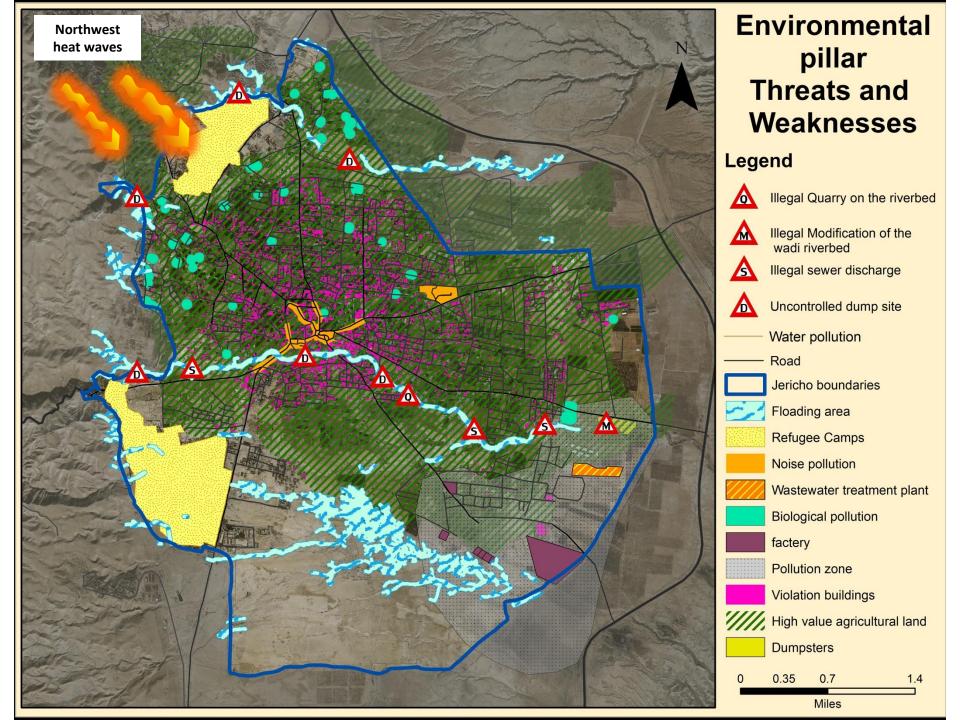
0.375

Areas will serve in the first phase

Wastewater treatment plant

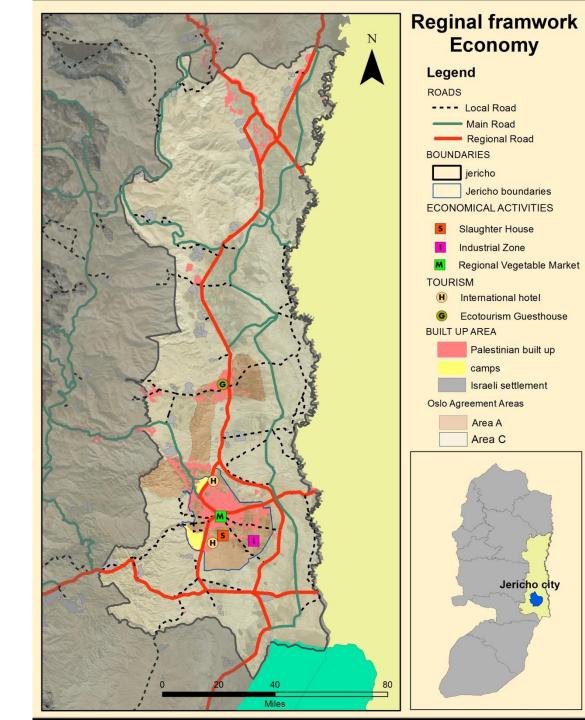
Miles

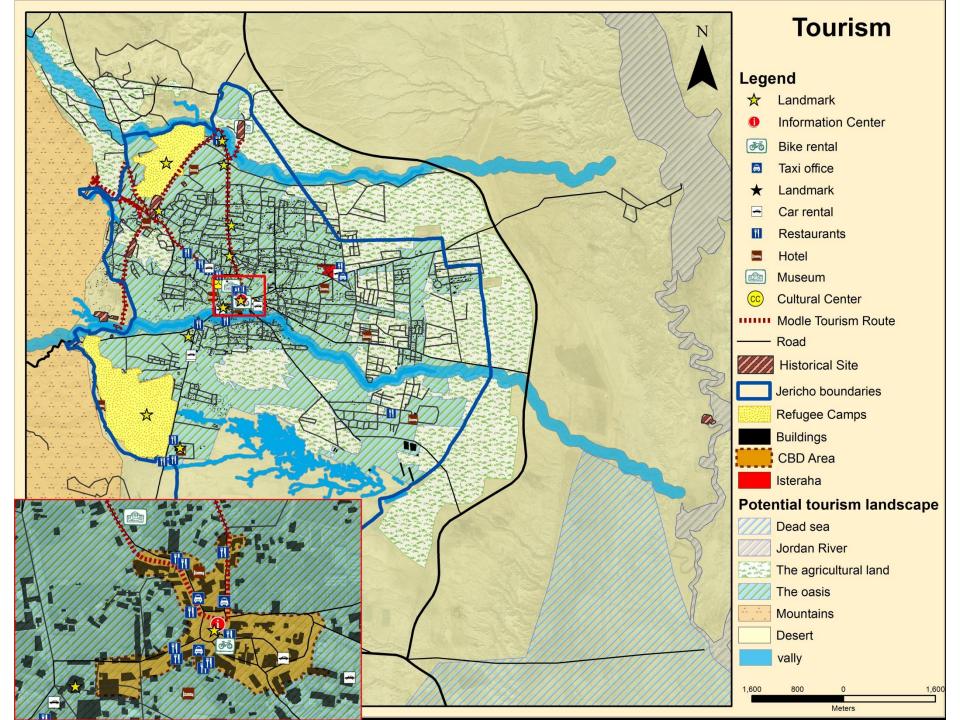


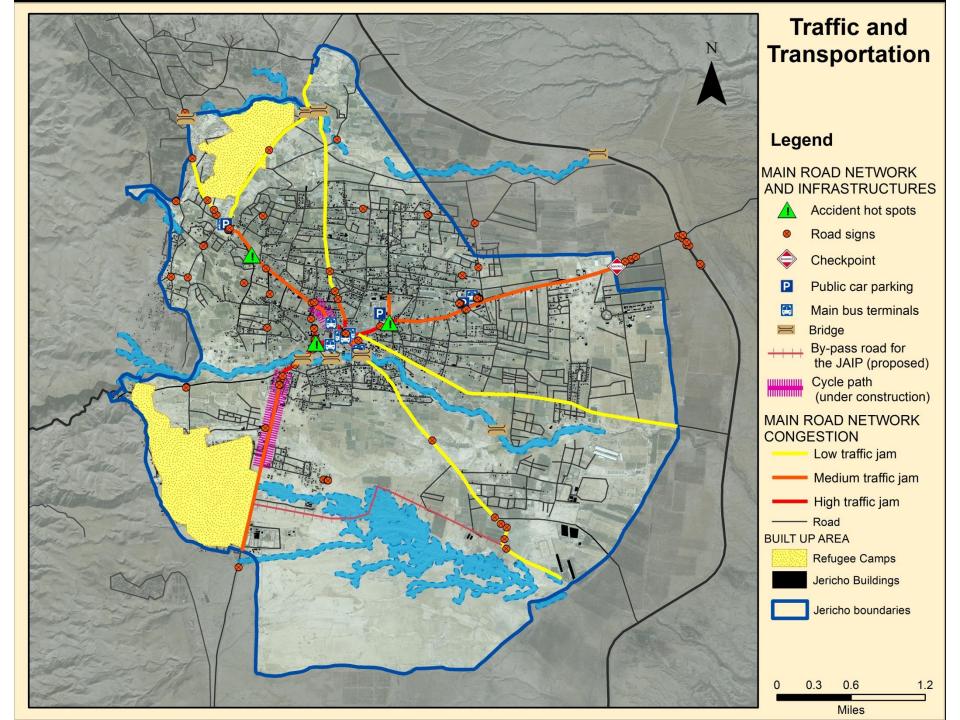


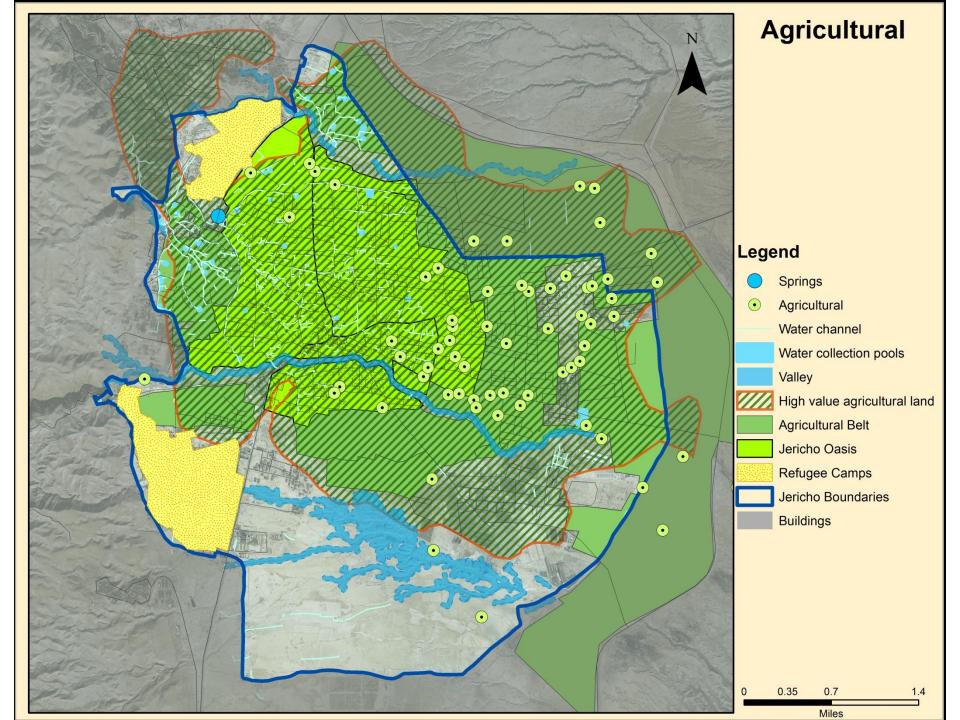
Economic

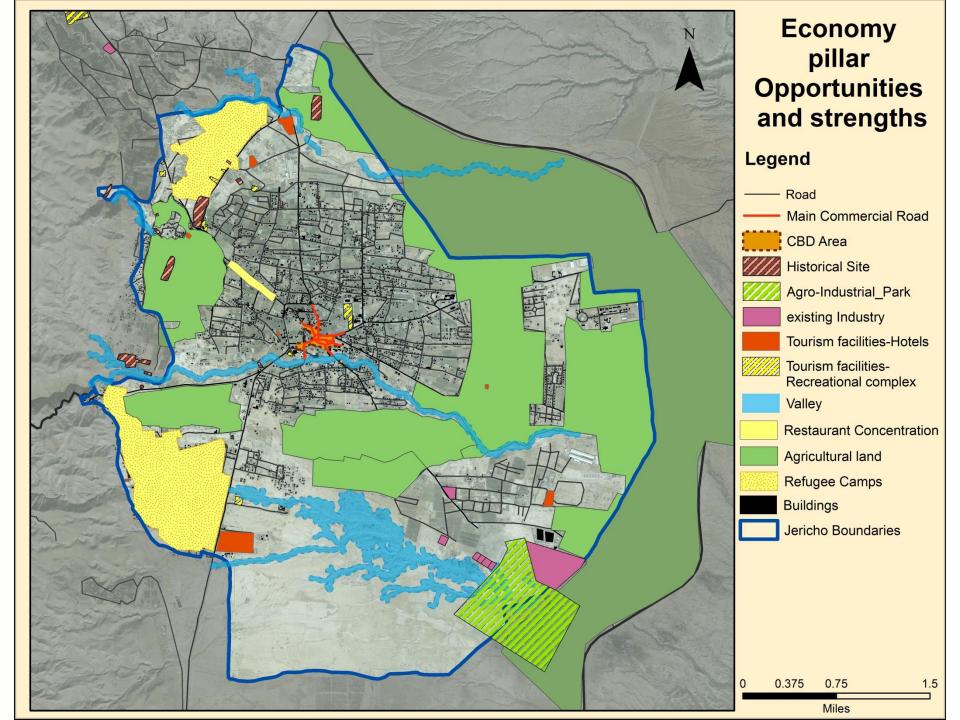
- Tourism
- Agricultural
- Transportation

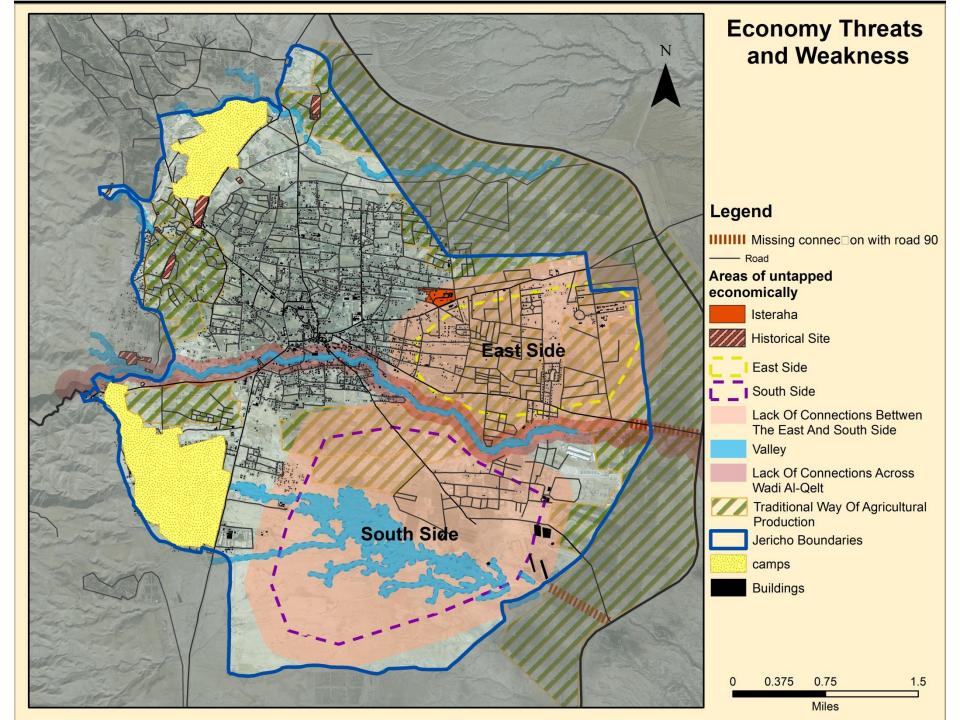






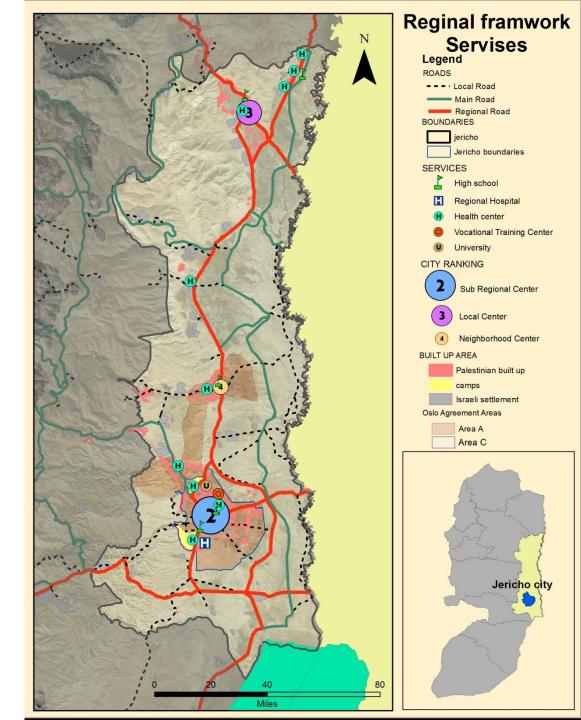


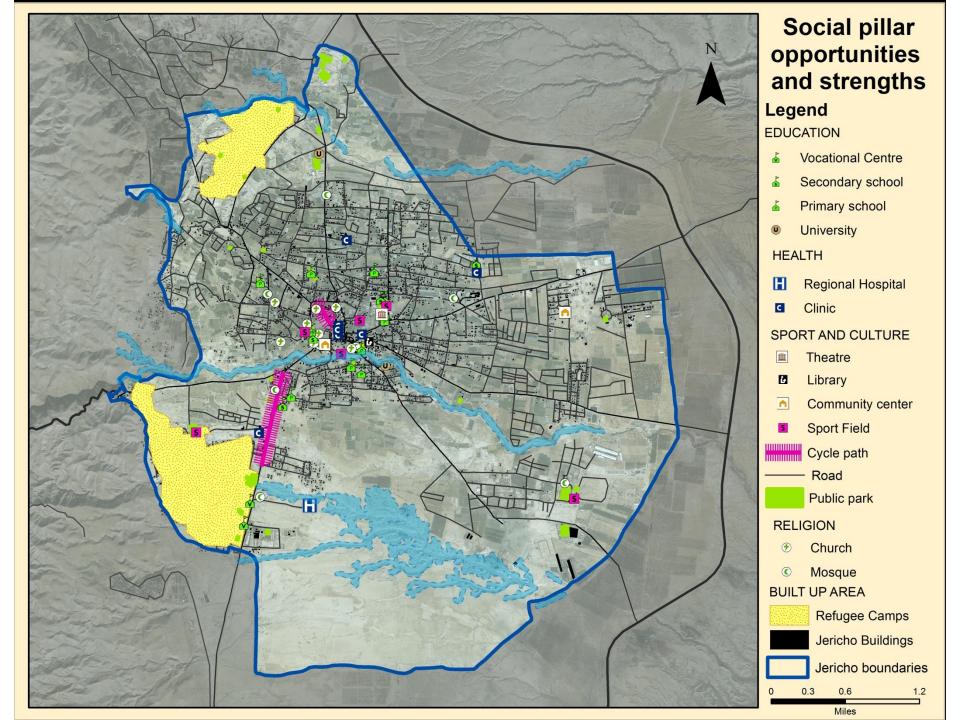


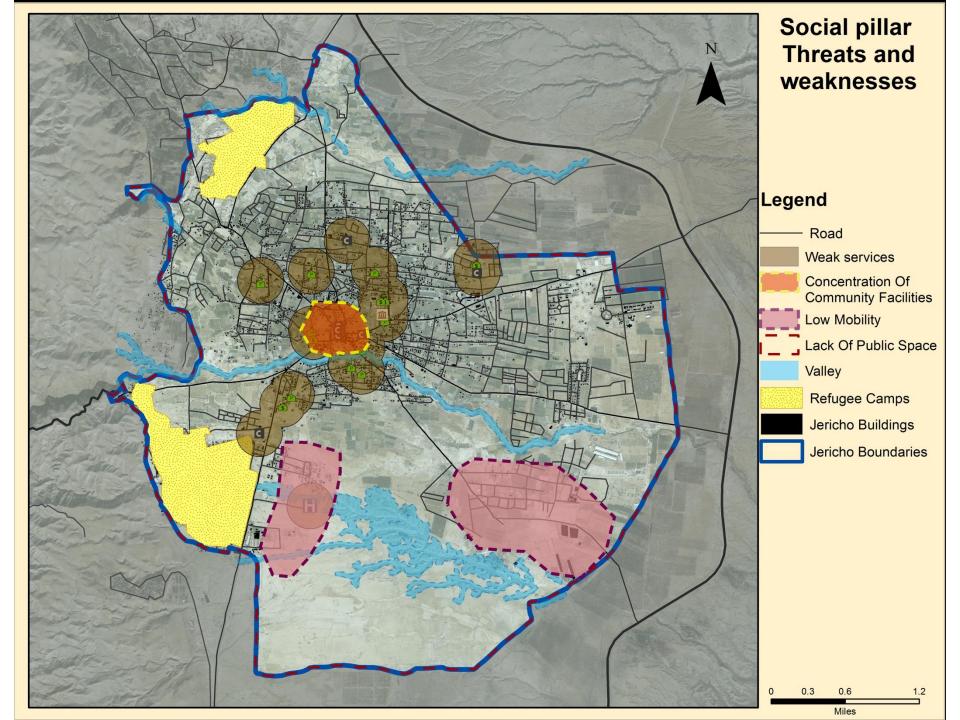


Social

- Education
- Health
- Education
- social services

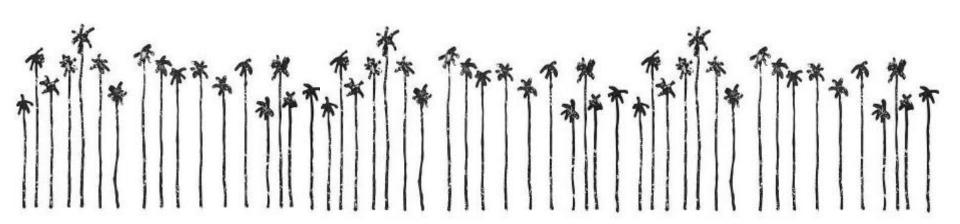


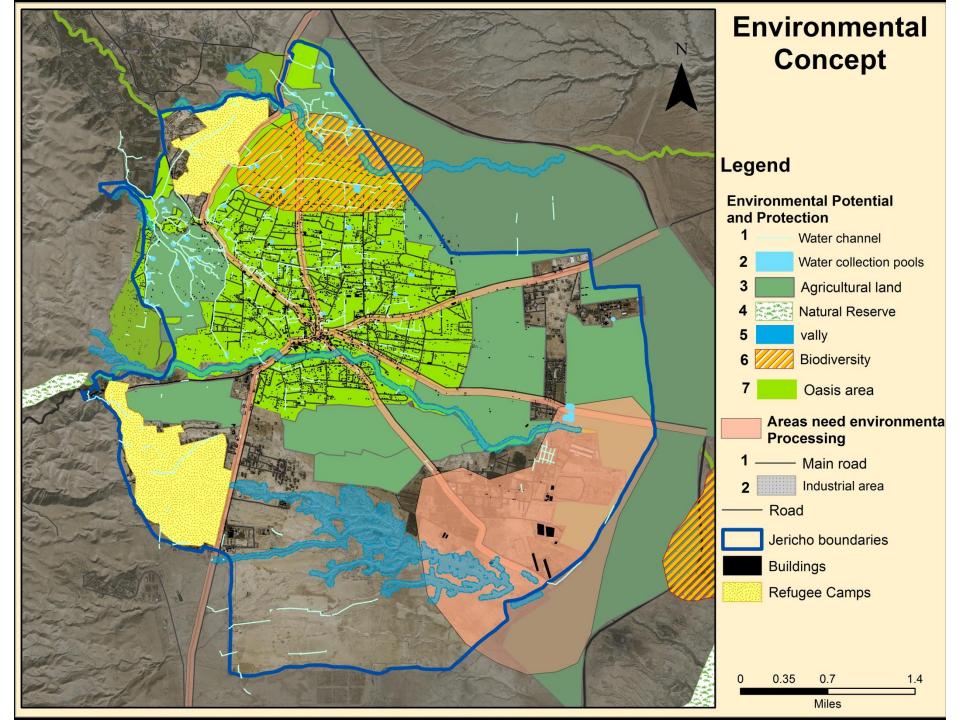


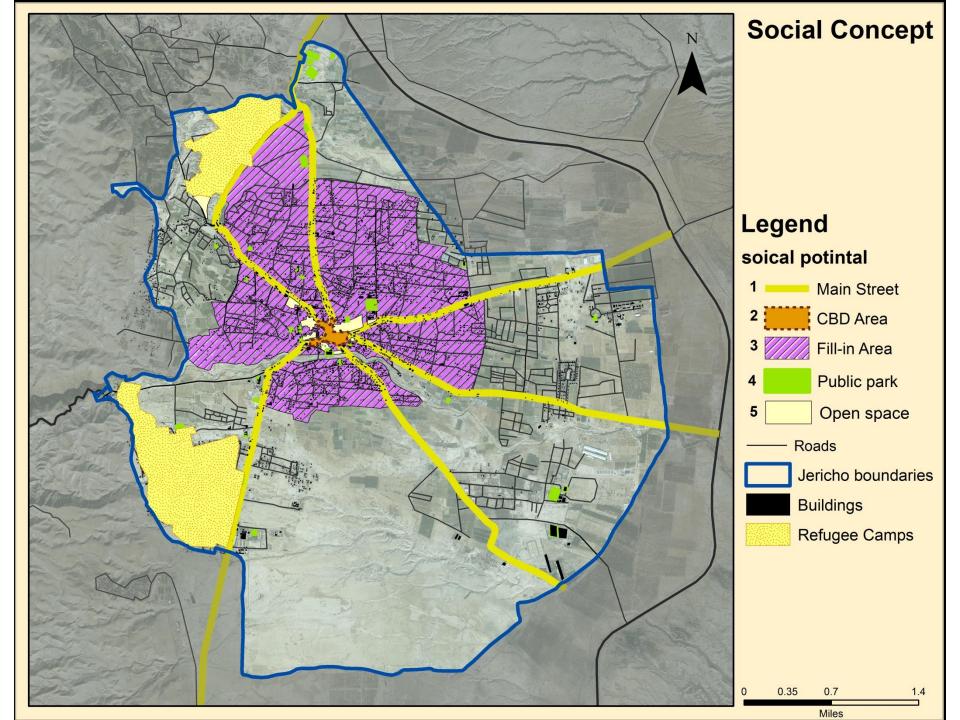


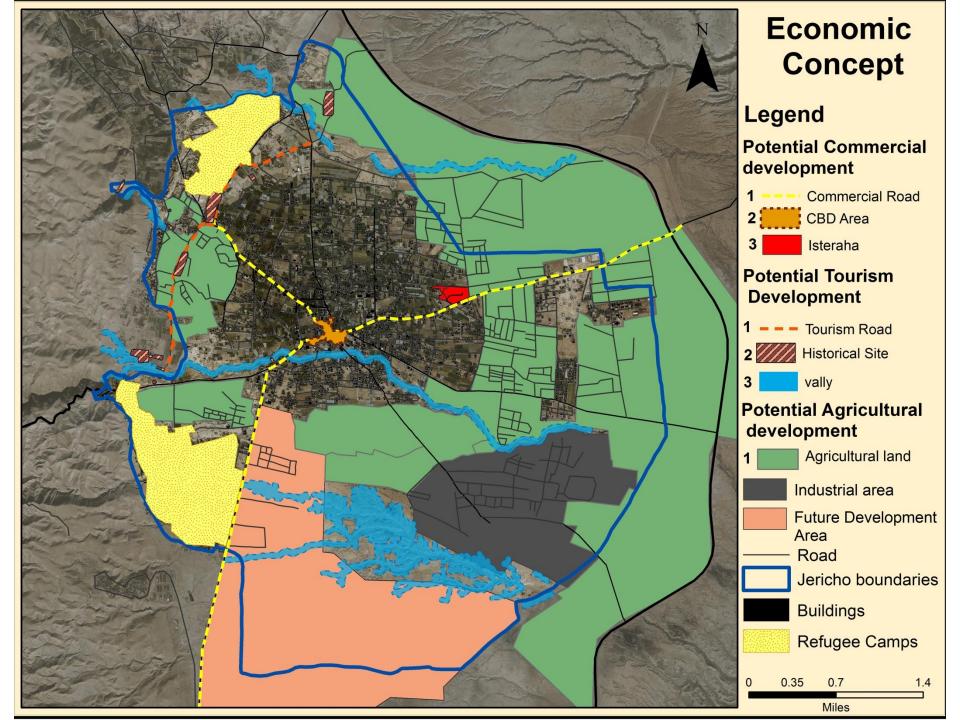
Jericho city vision

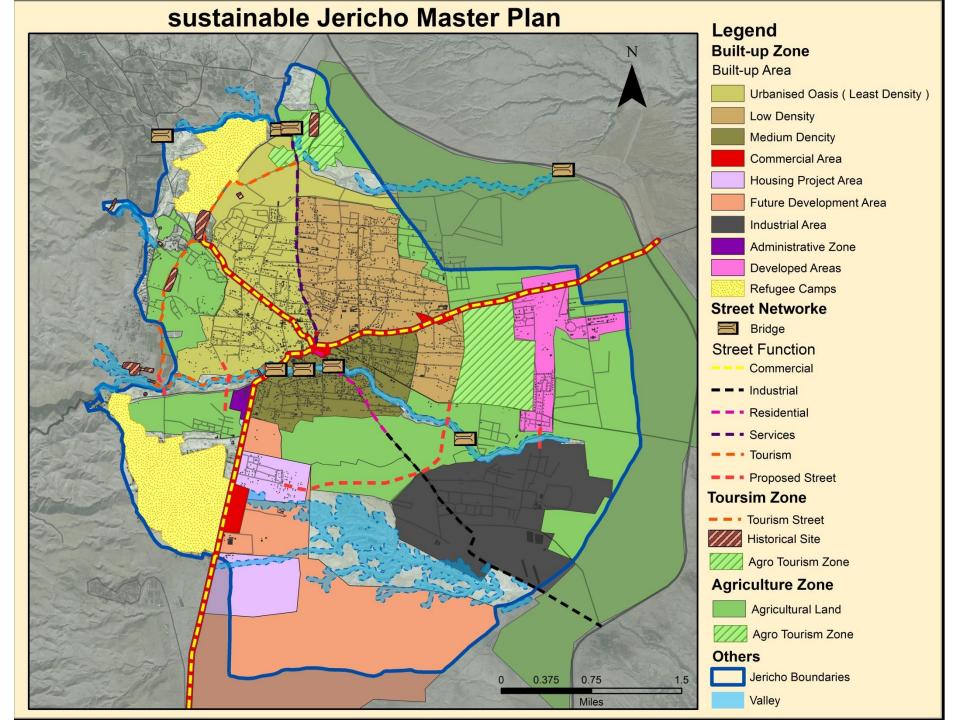
"Jericho is city of the moon and palm tree, a living history, oasis of Pease, tourism gateway, city of sustainability where all people are safe, healthy and having equitable opportunities for success and happiness".

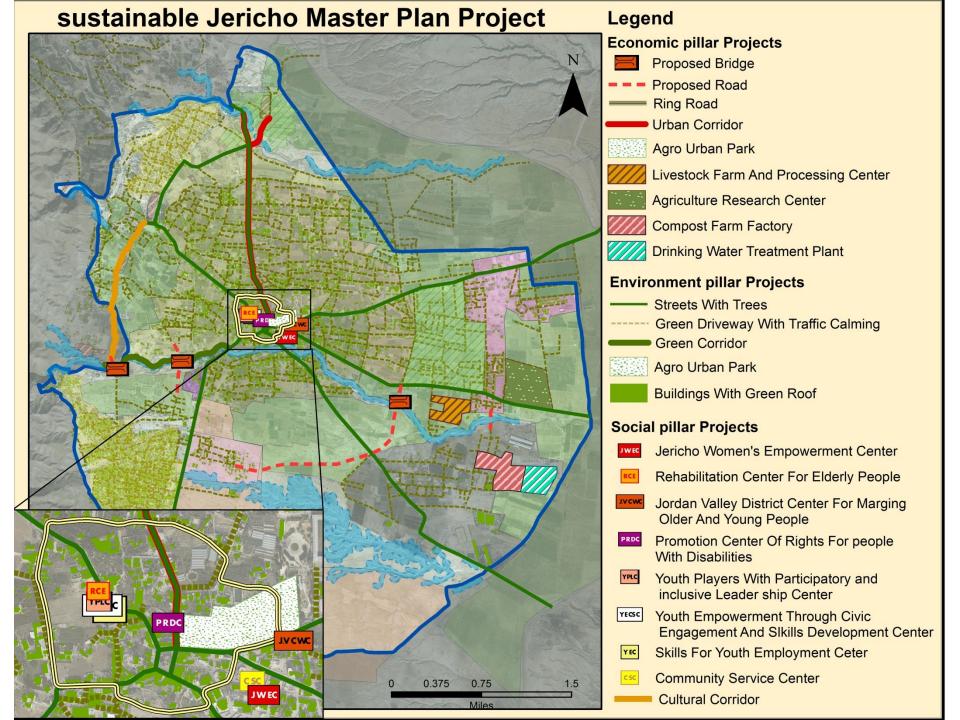












Economic pillar Projects 0.75 0.375 1.5

Legend

Tourism Sector

Urban Corridor

— Cultural Corridor

Green Corridor

Agricultural Sector

Agro Urban Park

Livestock Farm And Processing Center

Agriculture Research Center

Compost Farm Factory

Drinking Water Treatment Plant

Street Network

Proposed Bridge

-- Proposed Road

Ring Road



Existing roads

Legend

Pedestrian path

Bike parking

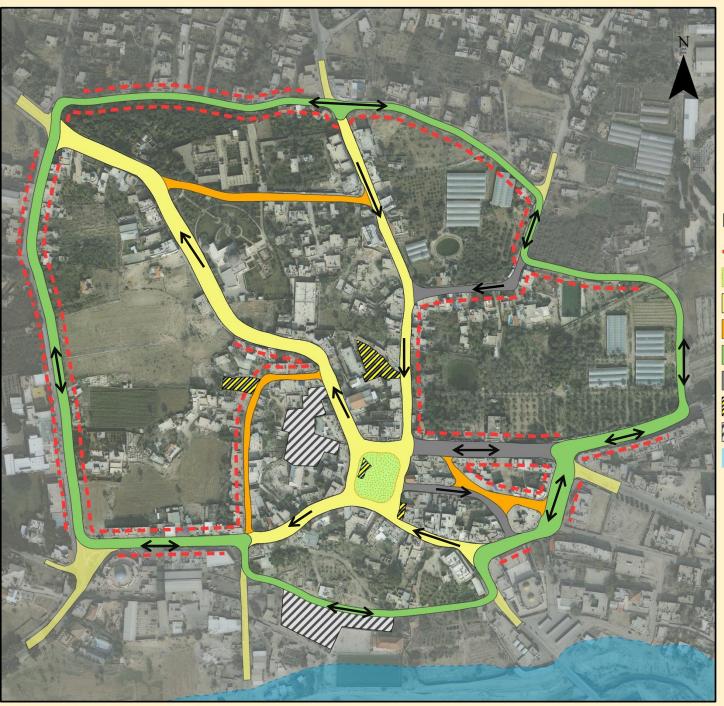
Bike rent

Roundabout

Wilder Court addocat

On parking car street

vally



Ring road design

Legend

On Street Bike Parking

Roundabout

On Street Car Parking

Pedestrian Path

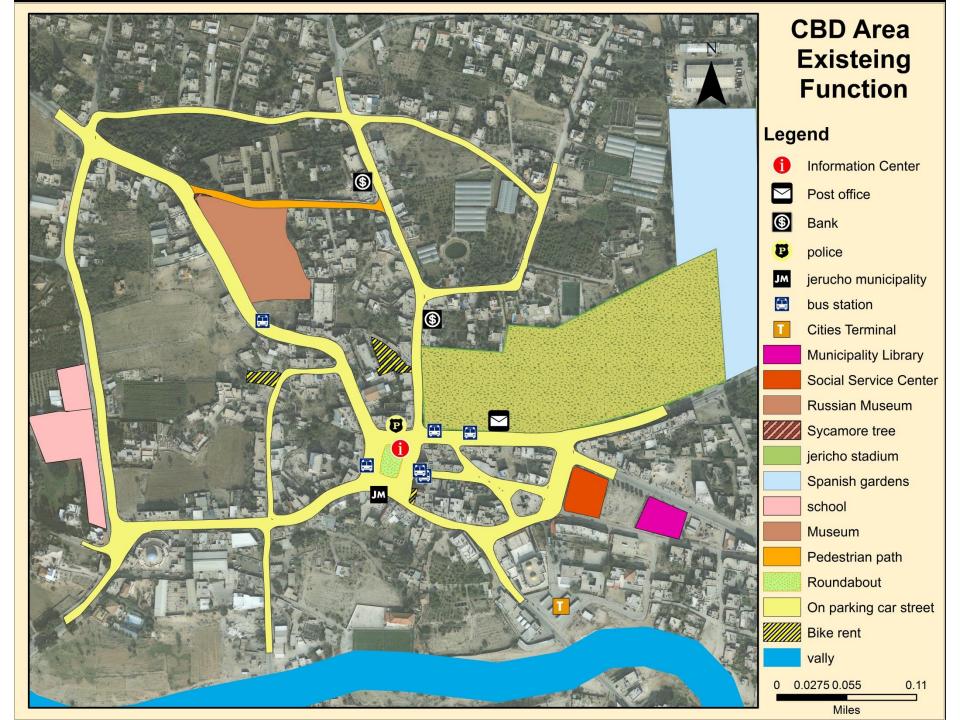
Ring Road

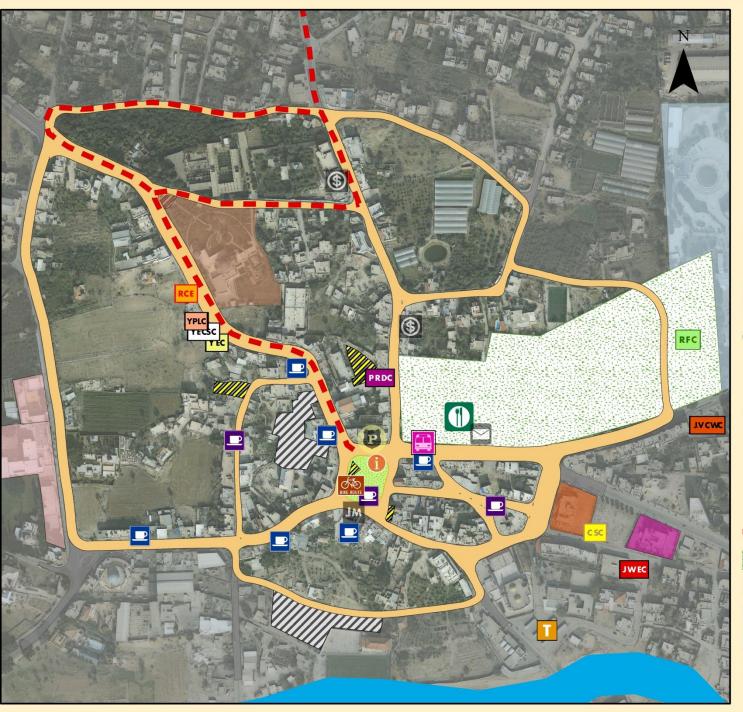
Road

Bike Rent

Parking Plot

Valley





CBD Area proposed **function**

Legend

- Rehabilitation Farmers Center
- Cities Terminal
- Bike Parking
- Tourist Stop Station
- Outdoor Organic Restaurant

Outdoor Coffee

- **Existing Coffee**
- Proposed Coffee

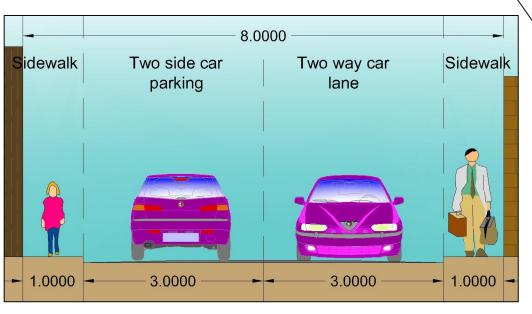
Social Projects

- - PRDC
 - YECSC
- **Tourist Route**
- Agro Urban Park
- Bike rent
- Parking plot
- vally
- Street Network

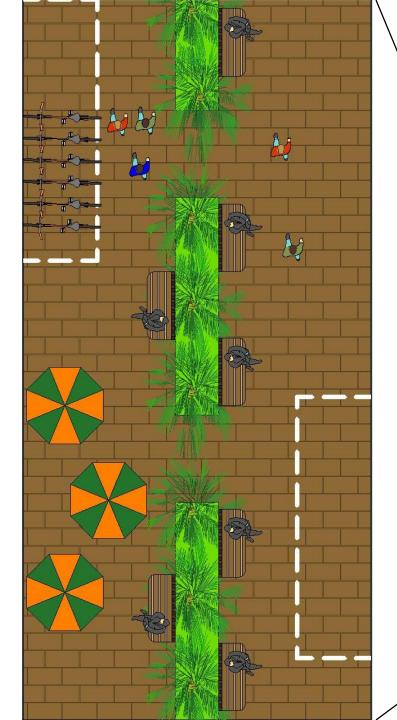
0.0275 0.055 0.11

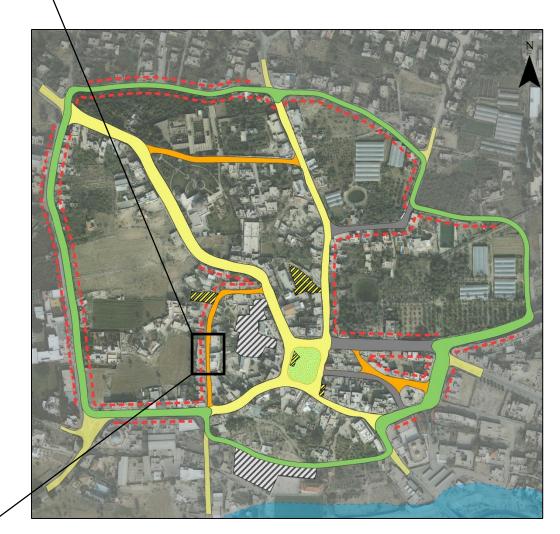
Arrasheed Street

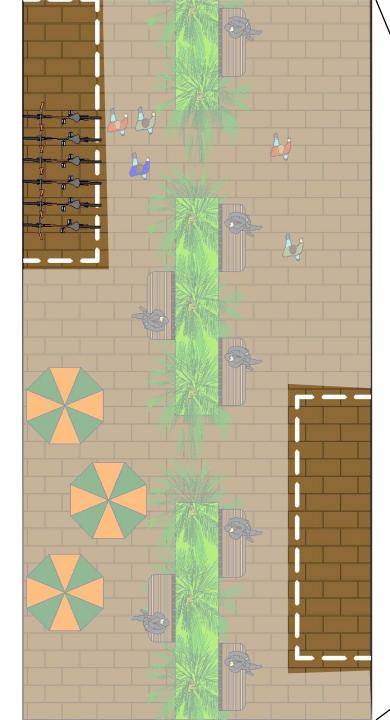
Not enough/sufficient space for cars nor for pedestrian



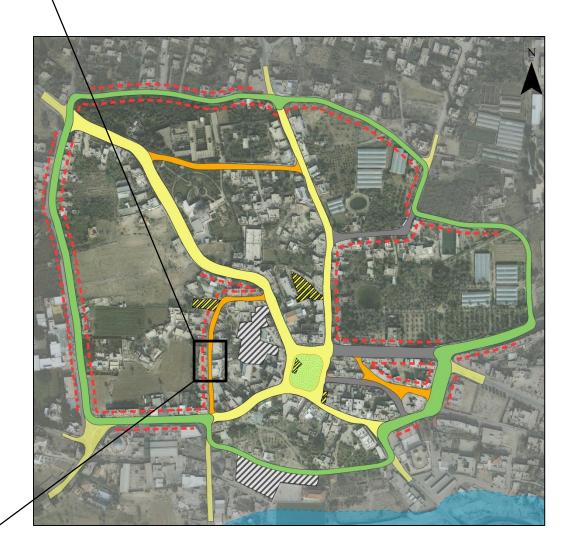


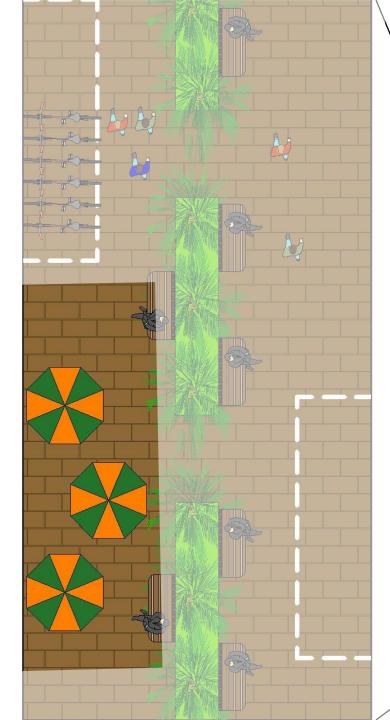




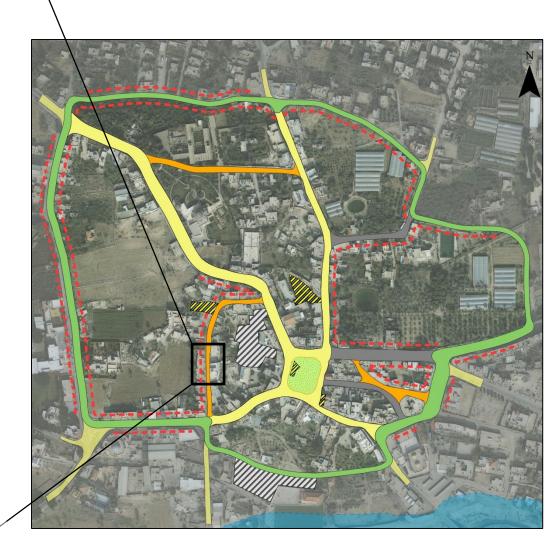


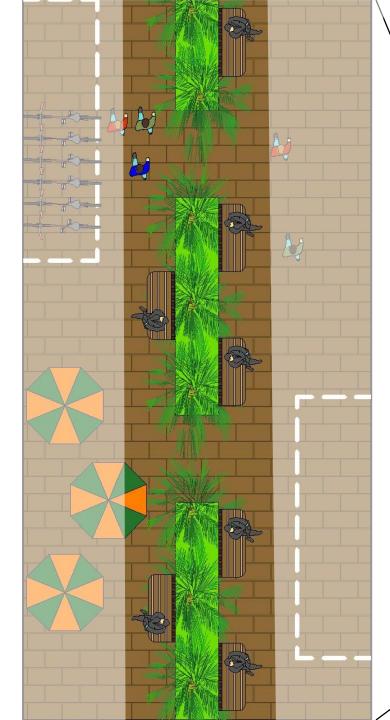
1. On street bike parking



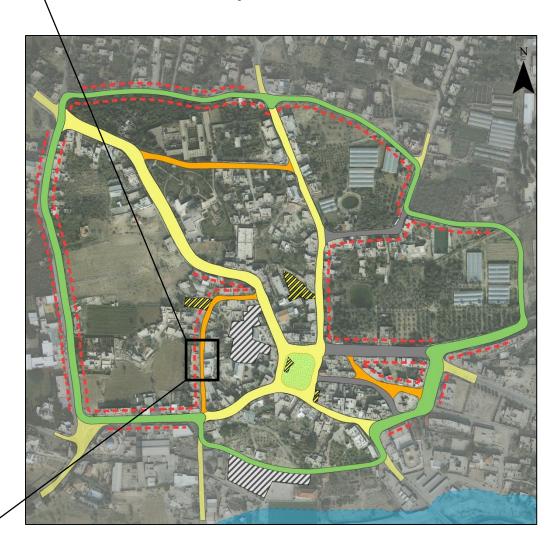


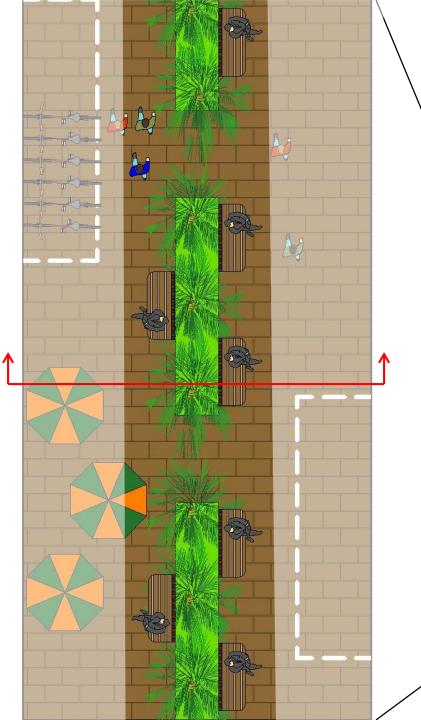
- 1. On street bike parking
- 2. Open air coffee



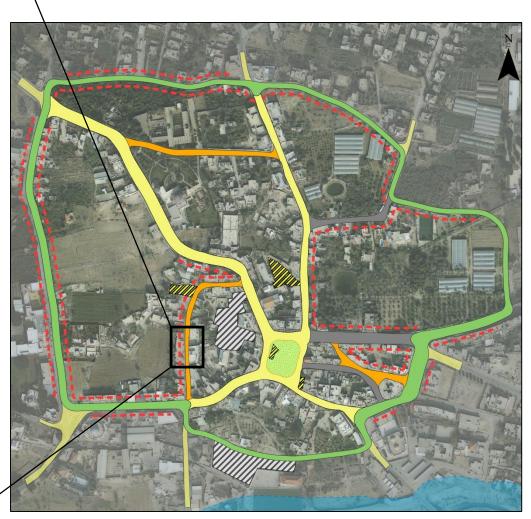


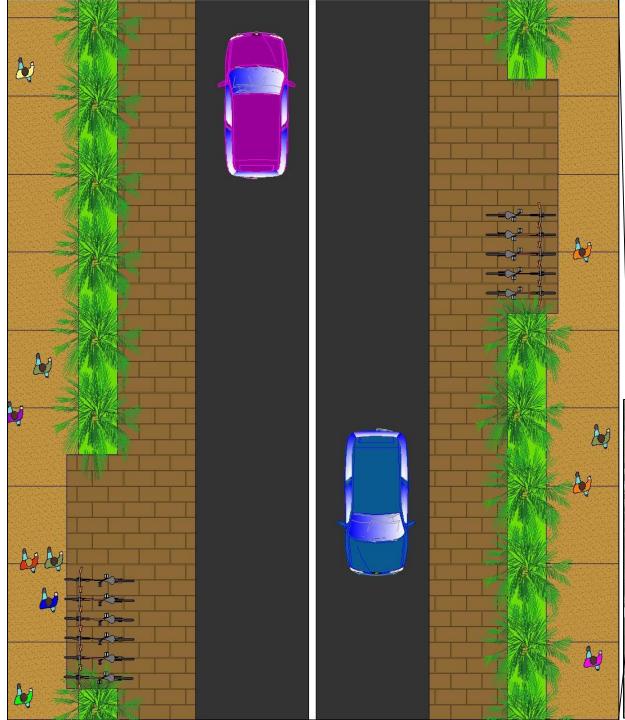
- 1. On street bike parking
- 2. Open air coffee
- 3. Setting area
- 4. Green space

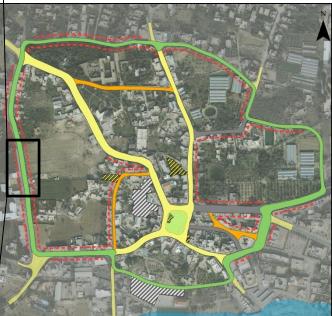




- 1. On street bike parking
- 2. Open air coffee
- 3. Setting area
- 4. Green space









- 1. Bick Lane
- 2. On Street Bick Parking





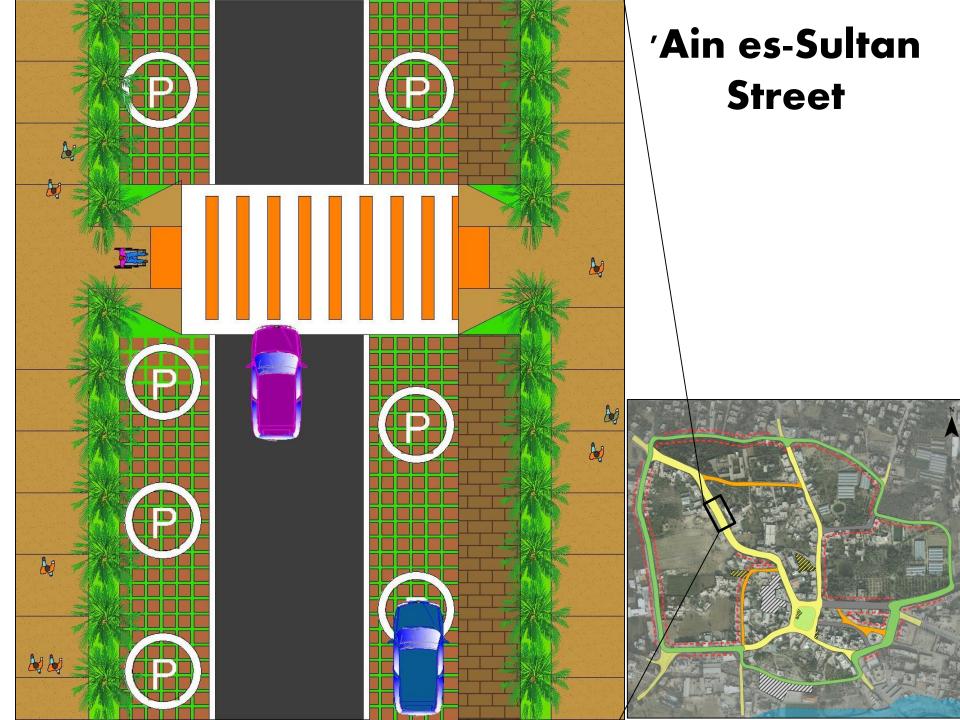
- 1. Bick Lane
- 2. On Street Bick Parking
- 3. 2 Car Lanes

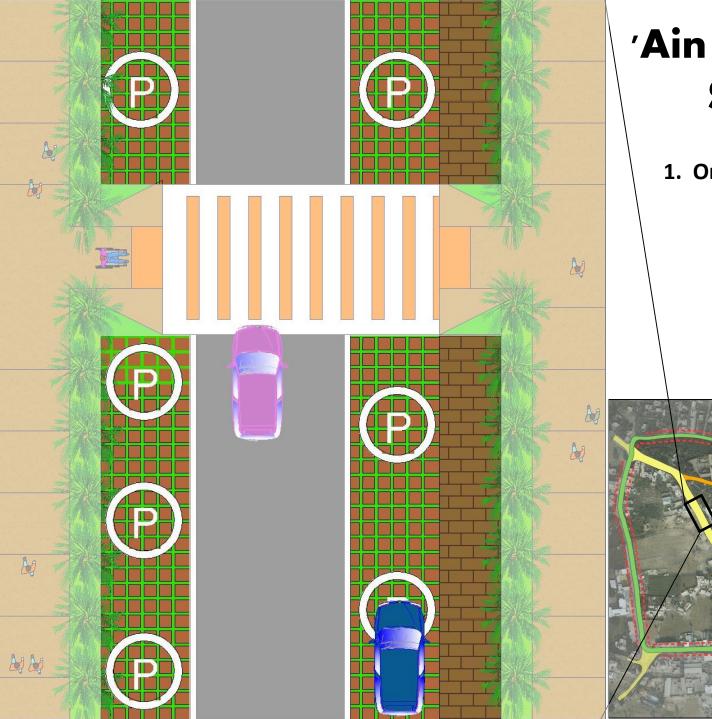




- 1. Bick Lane
- 2. On Street Bick Parking
- 3. 2 Car Lanes
- 4. Sidewalks
- 5. Green space







'Ain es-Sultan Street

1. On Street Parking

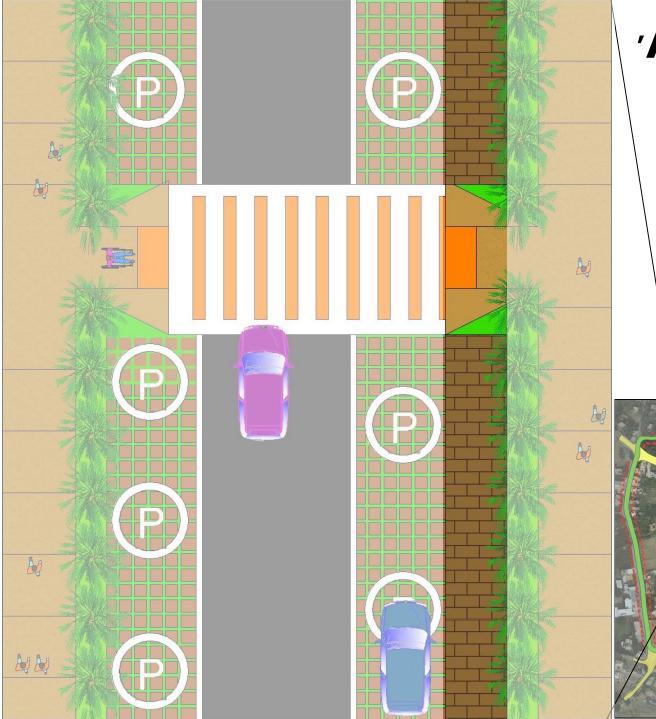




'Ain es-Sultan Street

- 1. On Street Parking
- 2. One Car Lane

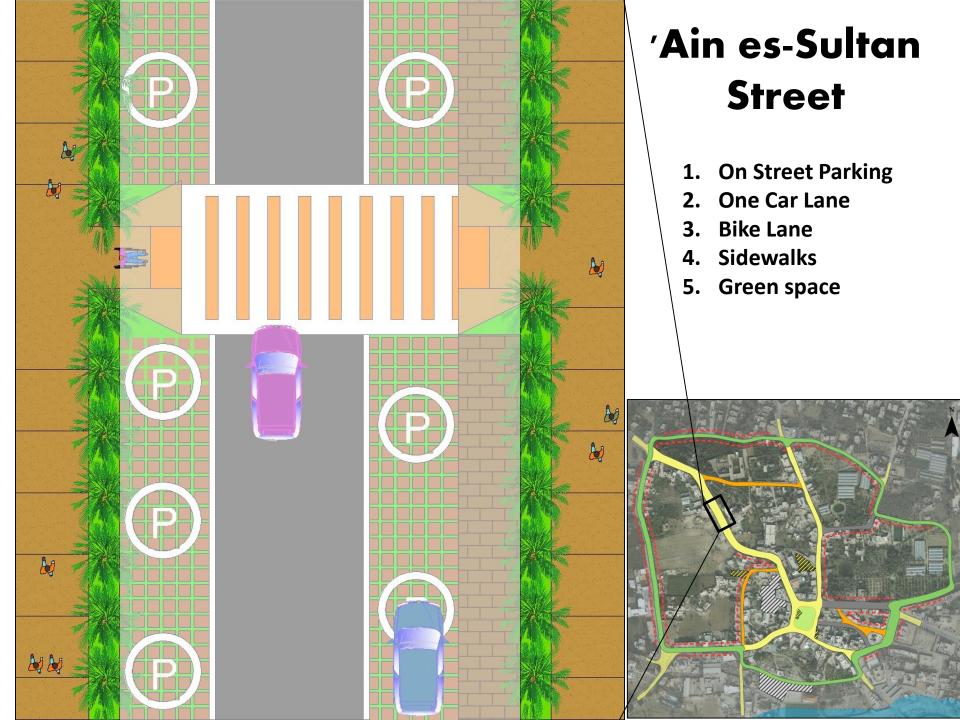


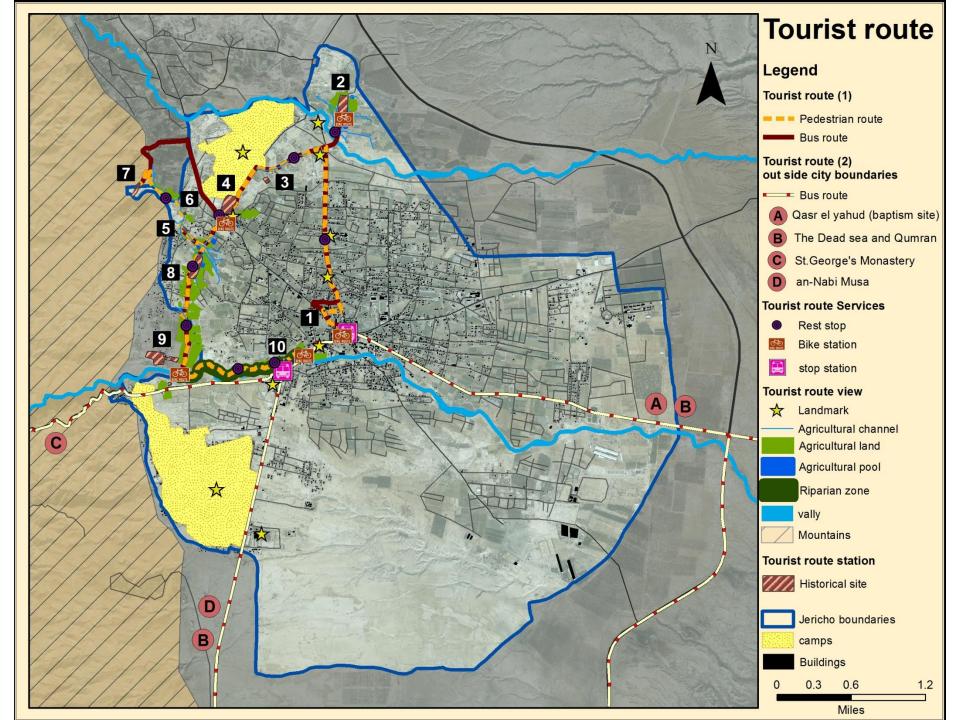


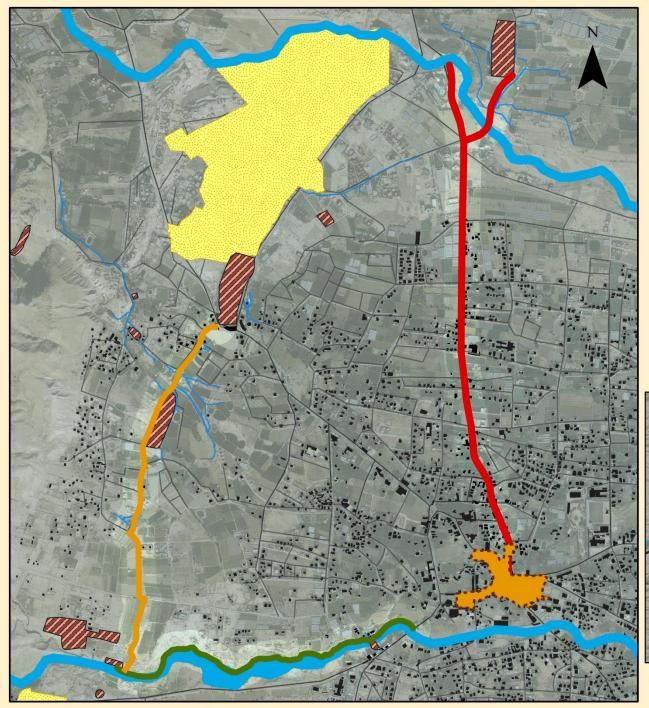
'Ain es-Sultan Street

- 1. On Street Parking
- 2. One Car Lane
- 3. Bike Lane









City Corridor

Legend

Cultural Corridor

Green Corridor

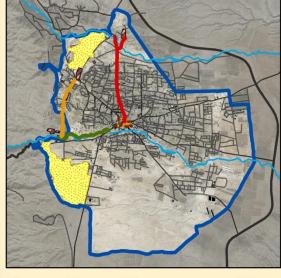
Urban Corridor

jericho cbd

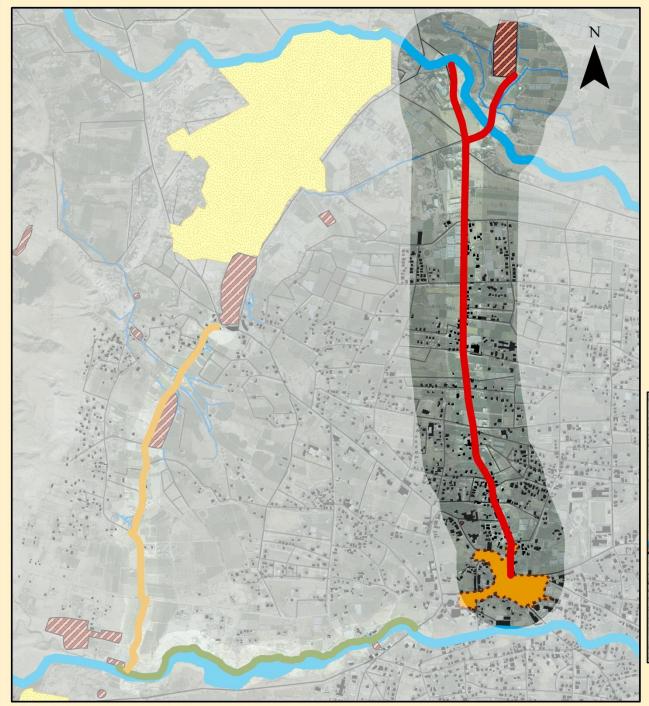
Historical site

vally

Refugee Camps



0.2 0.4 0.8



Urban Corridor

Legend

Urban Corridor

Cultural Corridor

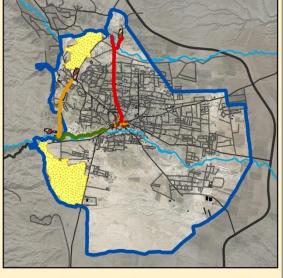
Green Corridor

jericho cbd

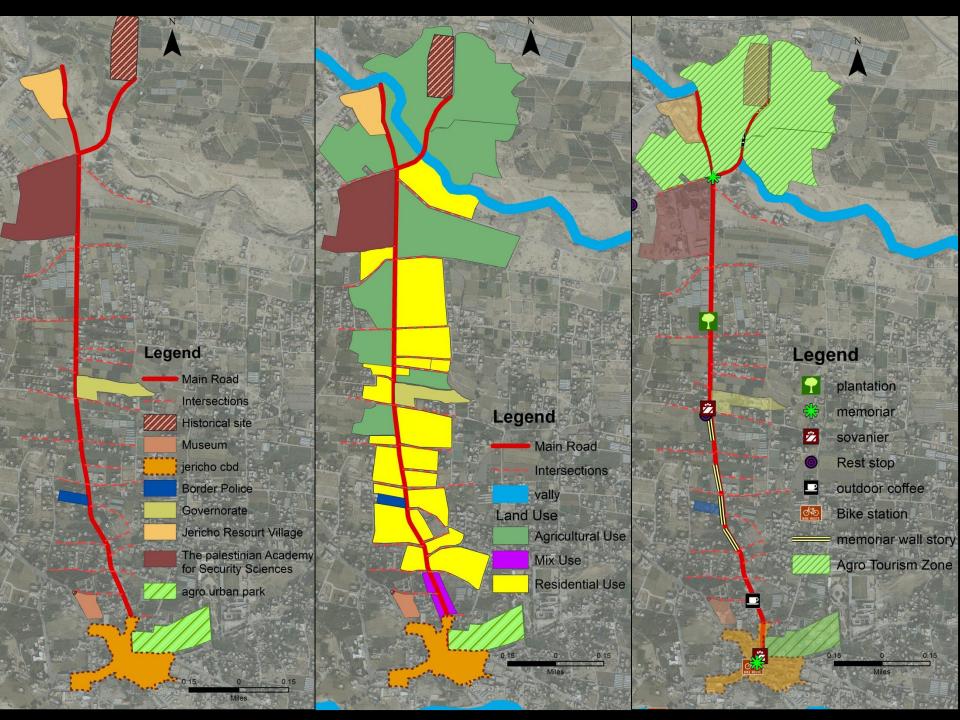
Historical site

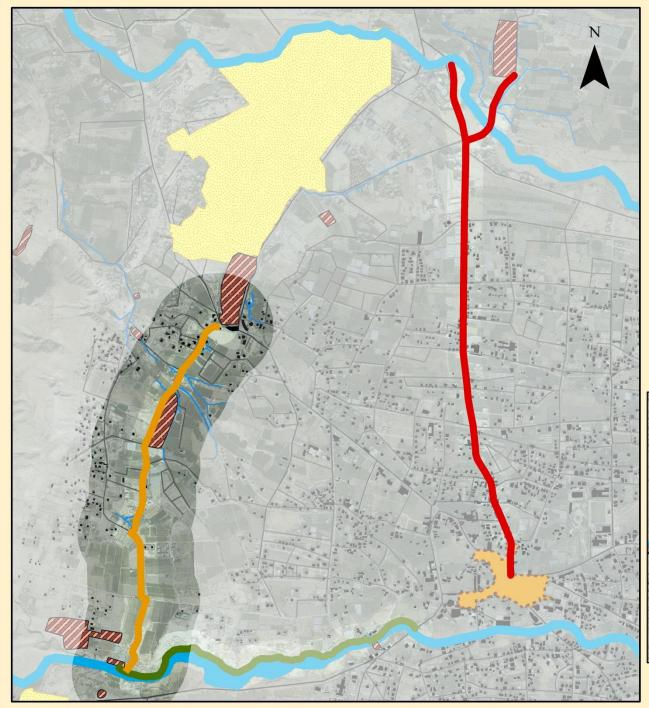
vally

Refugee Camps



0.2 0.4 0.8





Cultural Corridor

Legend

Urban Corridor

Cultural Corridor

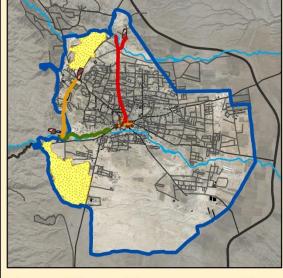
Green Corridor

jericho cbd

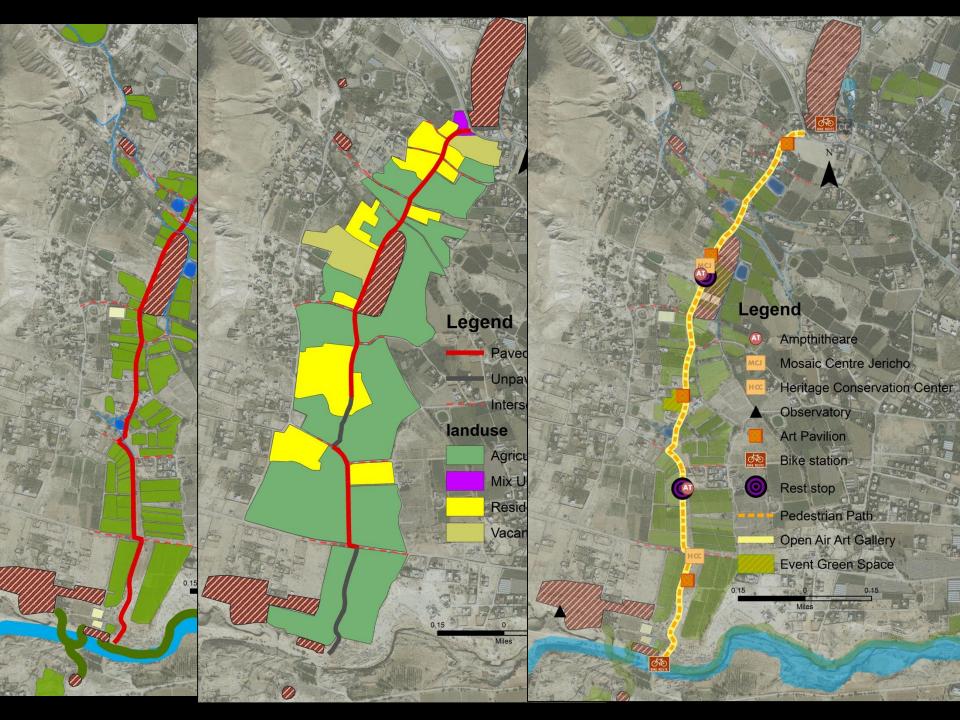
Historical site

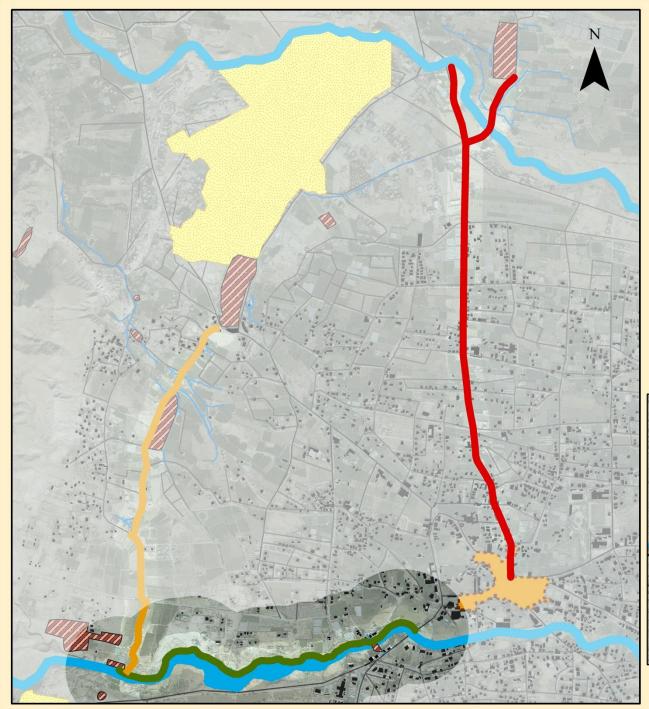
vally

Refugee Camps



0 0.2 0.4 0.8





Green Corridor

Legend

Urban Corridor

Cultural Corridor

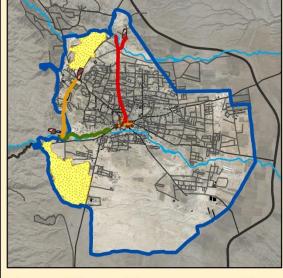
Green Corridor

jericho cbd

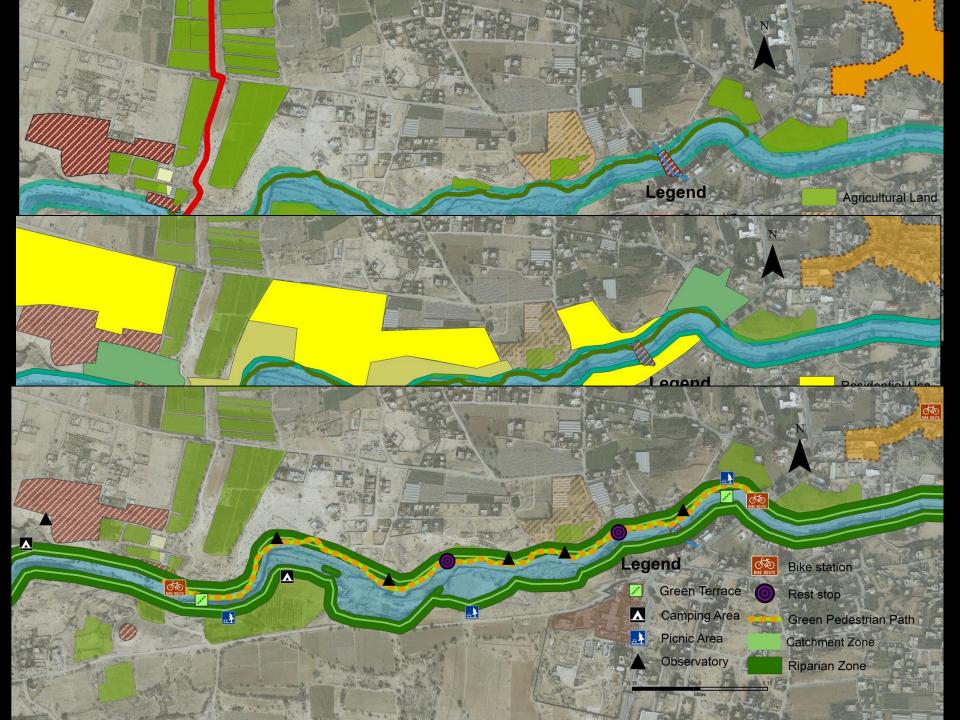
Historical site

vally

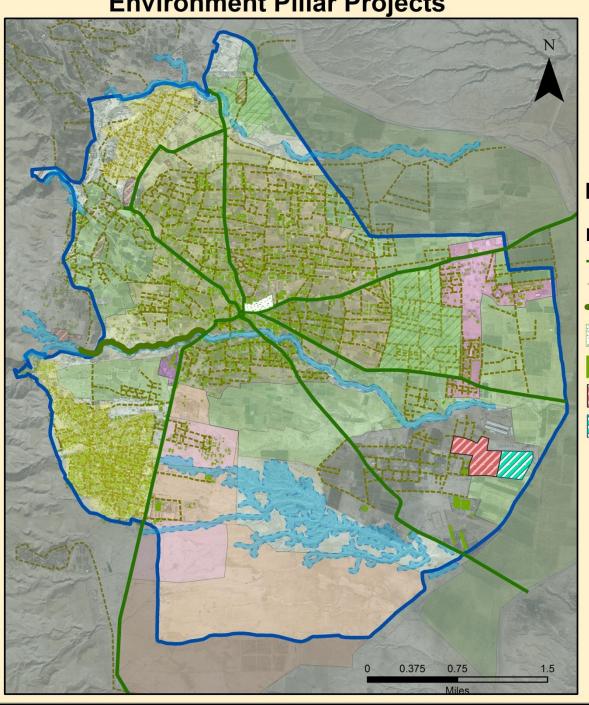
Refugee Camps



0 0.2 0.4 0.8



Environment Pillar Projects



Legend

Environment pillar Projects

Streets With Trees

Green Driveway With Traffic Calming

Green Corridor

Agro Urban Park

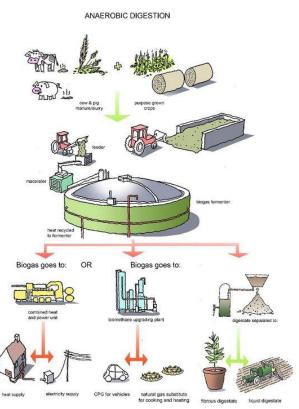
Buildings With Green Roof

Compost Farm Factory

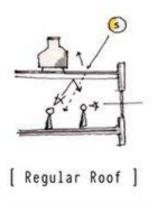
Drinking Water Treatment Plant

1. Compost Farm Factory

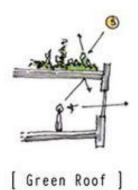




2. Green Roof Building

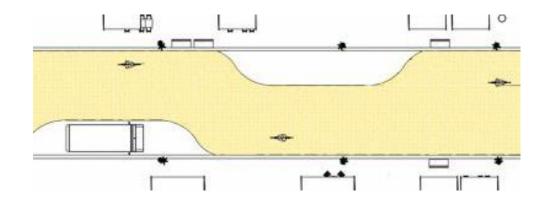


This diagram represents the basic roofing in any given building where the roof creates a block between the person and what happens above.



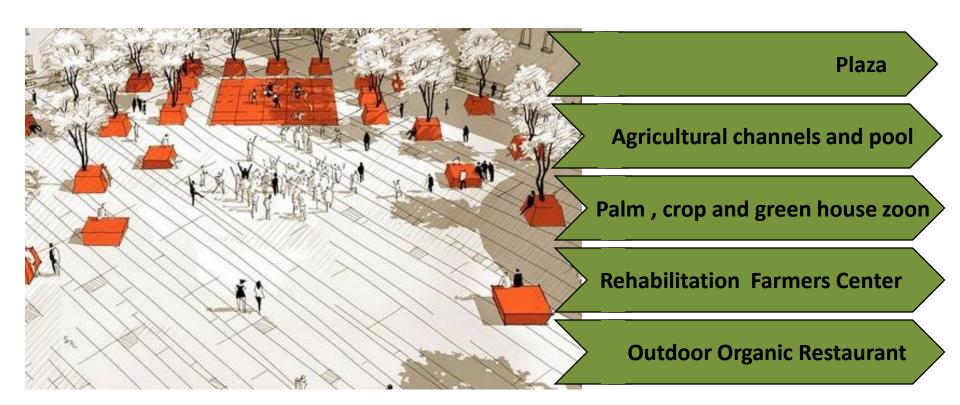
Sustainable green roof that work as expected but still creates a physical barrier between the roof and the floor below.

3. Grass Driveway and Parking Pad and Traffic Calming





4. Agro Urban Park



Social pillar Projects PRDC 0.375 0.75 1.5

Legend

Social pillar Projects

- Jericho Women's Empowerment Center
- Rehabilitation Center For Elderly People
- Jordan Valley District Center For Marging
 Older And Young People
- Promotion Center Of Rights For people With Disabilities
- Youth Players With Participatory and inclusive Leader ship Center
- Youth Empowerment Through Civic Engagement And Slkills Development Center
- Skills For Youth Employment Ceter
- Community Service Center
- Cultural Corridor
- Agro Urban Park