JERICHO AS A SUSTAINABLE CITY

TAMARA ADEEB ISSAM
content

1. Introduction

2. Site selection & analysis

3. Concept development

4. Implementation & design
The City as a System

Inputs
- Energy
- Food
- Water
- Raw materials
- Manufactured goods
- Money
- Information

Processes

Outputs
- Solid wastes
- Waste heat
- Air pollutants
- Water pollutants
- Greenhouse gases
- Manufactured goods
- Noise
- Wealth
- Ideas
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.”
Site Selection
Jericho as a sustainable city

Jericho city location

Jericho Topography Uniqueness

Jericho Governorate

Jericho City
Why Jericho ??
(from Economic pillar perspective)

1. Crossroads of Corridor
2. Distribution Channels for Vegetables
Why Jericho??
(from Social pillar perspective)

1. Jericho city characterized by its low density
2. The significant value of Jericho city in history
3. Jericho city is where I live
Jericho has some signs of recycling among its residents.

Jericho is the city of bicycles.

Jericho Landscape:

1. The oasis
2. The agricultural land
3. The mountains
4. The valley
5. Jordan River
6. Dead Sea
7. The Desert

Why Jericho??
(from Environment pillar perspective)
Site Analysis
Environment

Physical environment

- Housing
- West water
- Solid west
- Energy

Natural environment

- Landscape
- Water

Reginal framwork
Physical-Environment

Legend
BOUNDARIES
- Road
  - Jericho
  - Jericho boundaries

PHYSICAL FEATURE
- Spring
- Wadis
- Contour lines
- Nature reserves
- Forest
- Biodiversity

TOURISTIC SITES
- Naturalistic site
- Archeological site
- Religious site
- Israeli administration
- Israeli settlement
- Palestinian Built up
- Oslo Agreement Areas
- Area A
- Area C

Wadi Auja
Wadi Nwema
Wadi Qelt
Northwest heat waves
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”.
Environmental Concept

Legend

Environmental Potential and Protection
1 Water channel
2 Water collection pools
3 Agricultural land
4 Natural Reserve
5 Valley
6 Biodiversity
7 Oasis area

Areas need environmental processing
1 Main road
2 Industrial area

Road

Jericho boundaries
Buildings
Refugee Camps

Miles

0 0.35 0.7 1.4
Not enough/sufficient space for cars nor for pedestrian.
1. On street bike parking
1. On street bike parking
2. Open air coffee
PEDESTRIAN PATH

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

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

1. Bick Lane
2. On Street Bick Parking
Warda Azara Street

1. Bick Lane
2. On Street Bick Parking
3. 2 Car Lanes
Warda Azara Street

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
1. On Street Parking
2. One Car Lane
3. Bike Lane
1. On Street Parking
2. One Car Lane
3. Bike Lane
4. Sidewalks
5. Green space
1. Compost Farm Factory
2. Green Roof Building

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

[Green Roof]
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

- Plaza
- Agricultural channels and pool
- Palm, crop and greenhouse zoon
- Rehabilitation Farmers Center
- Outdoor Organic Restaurant