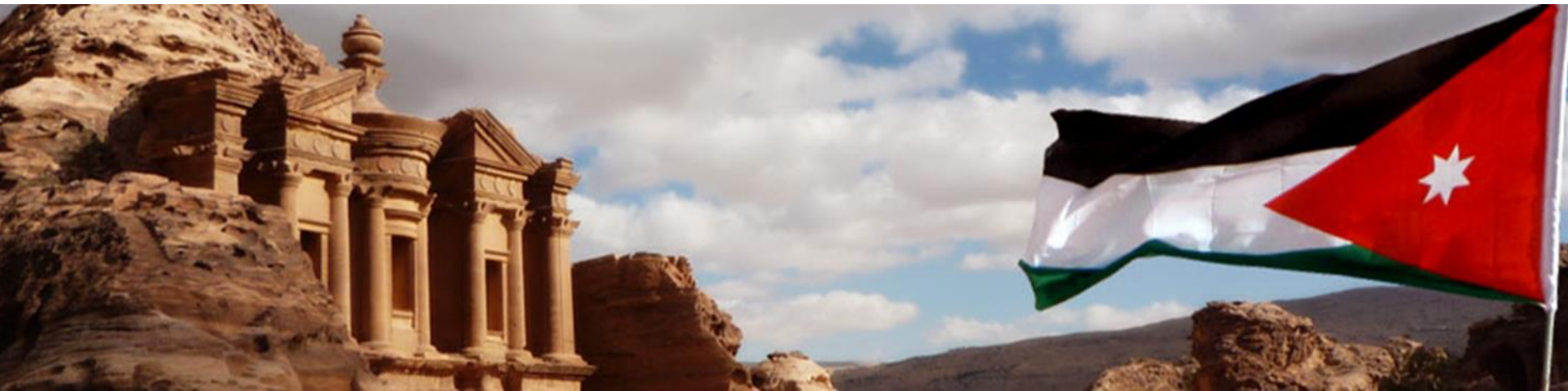


# Establishing a new collection station for PET in Petra Region



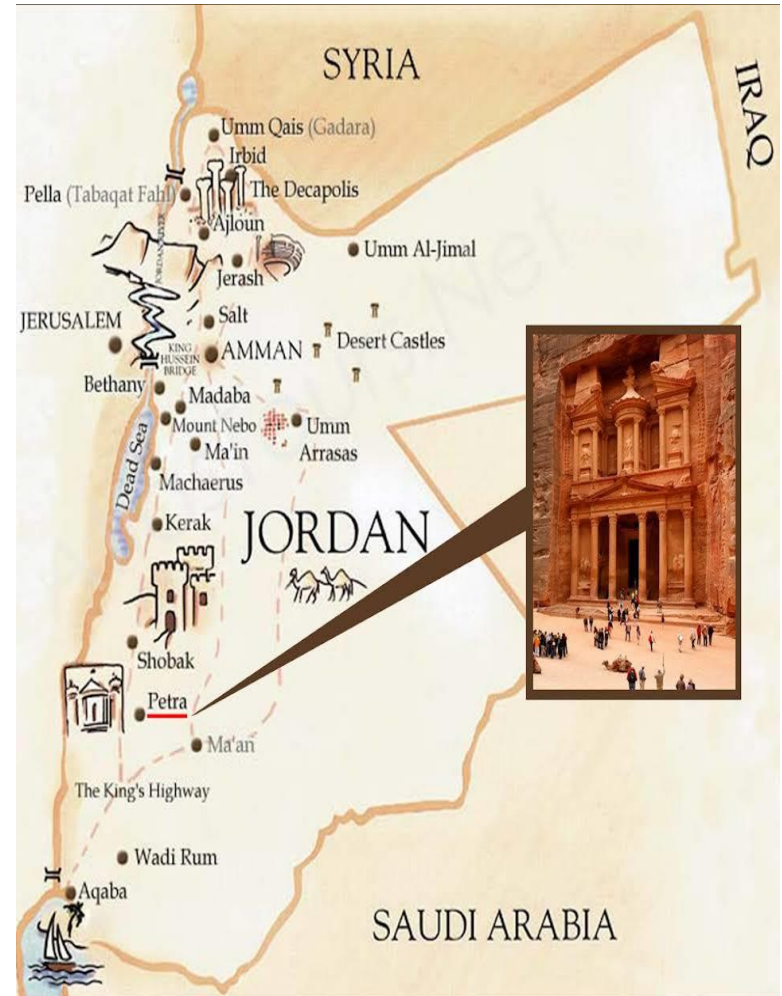
# PETRA

Petra is located in the southwest of Jordan about 225 km south of Amman and 133 km north of Aqaba.

The area of Petra is 900 km<sup>2</sup>, and the Petra Archaeological Park (PAP) is 264 km<sup>2</sup>.

The population of Petra is 36,740 according to the latest statistics made in 2018 by the Department of Statistics

Petra is a main touristic destination in Jordan its with highest number of visitors in 2019 (million visitors).



# Petra Development and Tourism Region (PDTRA)

**PDTRA** is an independent financial and administrative Authority, founded in 2009, that aims to develop the region, economically, socially, culturally.

**PDTRA** is managed by a Board of Commissioners that consists of five members. The members are appointed by the Prime Ministry and approved by His Majesty King Abdullah II.

The **PDTRA** has six administrative regions :

- Wadi Mosa
- Dlagah
- Umm Sayhun
- Taybah
- Al Rajef
- Bayda

## Vision

A national integrated model for development and investment work.



## PDTRA objectives – Environmental related

- **Protect the environment in the region, including water resources, natural resources and biodiversity, by setting the standards, rules and regulations.**



# Current situation ( Solid Waste Management (SWM) project in Petra)

- Through the Directorate of Environment and City Services , PDTRA runs the collection and transfer of municipal waste within the district's boundaries (six regions).
- The **SWM** project in the PDTRA is divided into two geographical areas, where the first area is specifically designated within PAP boundaries and usually runs by private sector after proceeding official bidding procedures, and the second area ( rest of the areas of the authority) is running completely by PDTRA.



- Wastes are collected and transferred daily to the allocated landfill site by carrying out two trips (Morning and Evening),
- There are no waste sorting operations before transportation to the landfill site, and there is no transfer station within the PDTRA areas.

# Current situation ( Solid Waste Management (SWM) project in Petra)

- Hotels and touristic restaurants are the most waste-generating sources within the boundaries of the PDTRA.

<b>Touristic Seasons</b>	<b>Amount of waste(ton)</b>
low	35
average	50
high	70



# Landfill site

The landfill site is located in a city of Basta, 23 km from Wadi Musa, with an area of 274 acres .

There is no specific capacity for the landfill site, however, its expected to be serving until 2040.



# Municipal solid waste MSW composition in PETRA

Type of Material	Portion %	Yearly amount (tons)	Daily amount (tons)
Bio-waste	45	9,000	24.75
Paper and Cardboard	20	4,015	11
Plastic	27	5,420	14.9
Metals	3	492.8	1.35
Glass	1	Not available	Not available
Textiles and Rubbers	1	Not available	Not available
Wood and Yard Waste	1	Not available	Not available
Others	2	Not available	Not available

According to the our data (survey conducted in 2019), the amount of PET is around 8 tons / month



# Solid waste management (SWM) project in Petra

The project team consists of 80 employees :

- A division head
- Two administrators
- General supervisor
- 8 areas supervisors
- 60 laborers
- 8 drivers.

**1175** Trash metallic containers with a capacity of 1100 liters are distributed all over Petra.

## Waste collector trucks (total no.= 8)

Number	Capacity (ton)	Type and model
2	4	Mercedes 2011
2	10	Mercedes 2010
1	4	Mercedes 2000
3	4	Man 2019



# Establishing a new collection station for PET in Petra Region

## Objectives of the project

The main goal of the project is "To raise personal and public awareness of environmental issues, including the benefit of reducing, re-using and recycling of materials in PDTR that would otherwise be sent to landfill sites".



## Establishing a new collection station for PET in Petra Region

The main objectives of the project are:

1. protecting the environmental resources from contamination by Protect soil from pollution, protect living organisms, Preserve water sources, and urban pollution.
2. Establishing Treatment Facility for PET bottles collected from PDTRA.
3. Creating EPR system in the south of Jordan, this process can lead to innovation, creating an improved ability to capitalize on waste as a resource and diversion from landfills.
4. Enabling Economic Growth that environmentally sustainable and socially inclusive (Green Growth) through SWM and Recycling (which will reduce pollution in the environment and Investing and creating new jobs).
5. Mitigation of Climate Change by reduce greenhouse gas (GHG) emissions from landfills and dumpsites, particularly methane gas resulting from decomposed organic matter



# Cost Estimation for Project

1.	Staff	up to	EUR	5,376.00
2.	External experts / Consultants	up to	EUR	32,000.00
3.	Transportation	up to	EUR	409.60
4.	Training costs	up to	EUR	7,832.00
5.	Procurement of goods	up to	EUR	24,064.00
6.	Construction	up to	EUR	39,480.00
7.	Administration costs (2.35%)	up to	EUR	2,560.00

**Total = EUR 111,721.60**

# Awareness plan

## Awareness method

- Brochures
- Films
- Awareness lectures
- Workshops
- Sing boards
- Stickers
- Environmental Awareness Center

## Main target

- School Students
- Tourists
- Local community
- Tour guides
- PAP Rangers and solid waste management stuff at PDTRA
- Hotels and restaurants



## Where are we now ??

- ✓ The proposal was drafted and approved.
- ✓ The project budget was drafted and approved.
- ✓ Sorting facility station site was designated and accredited.
- ✓ The work plan , time schedule , design and BOQ of material handling Facility and TORs (manpower) are under process prior to signing the agreement .
- ✓ An awareness plan is developed.
- ✓ The agreement was drafted and finalized and will be signed after obtaining official approvals accordingly.



**Thank you**

