

# **PRESENTATION ON JORDAN RAILWAYS & RAILWAY PROJECTS**

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**MINISTRY OF TRANSPORT**

**AMMAN - JORDAN**





# Jordan Railways



## JORDAN RAILWAYS





# Existing Railways In JORDAN

- **Total 620 km. Gauge (1050mm)**
- **JORDAN HEDJAZ RAILWAY**
  - 217km + 111km abandoned lines
  - One train / day between Amman & Damascus
  - Tourist and school trains upon request
- **AQABA RAILWAY CORPORATIN**
  - 293km
  - Transporting Phosphate from mines to the port of Aqaba (2.5-3 million tones/year)





# PRIVATISATION OF AQABA RAILWAY CORPORATION (ARC)





# PRIVATISATION OF AQABA RAILWAY CORPORATION

## BACKGROUND

- 1975 Extension of Hidjaz Railway to carry phosphate from El-Hassa mine to Aqaba Port (270 kms)
- 1982 Further extension to El-Abiad phosphate mine (22.5 kms)

- ➔ Production at these two mines to be phased out in the year 2008
- ➔ All production then from / to El-Shidiya mine - reserves up to 10 million tones / year (Phosphate, Phosphoric Acid and Sulfur)
- ➔ The New industrial projects at El-Shidiya and Industrial Complex in Aqaba.





# PRIVATISATION OF AQABA RAILWAY CORPORATION

## Why Privatization

- **Implement Government policy for privatization of transport sector**
- **Operate ARC efficiently on commercial bases**
- **The needs for big investments to accommodate the requirements of Railway Customers.**
  - **Construction of Shidiya extension 22.5km/ US\$20 million**
  - **Construction of Wadi-II extension 19km/ US\$ 69 million**
  - **Upgrading existing rolling stock and purchasing new fleet US\$ 15 million**
  - **Upgrading existing railway and S&T system/ US\$15 million**





MEETING ON RAILWAY CO-OPERATION IN THE MEDITERRANEAN  
VALENCIA SPAIN 14-16 JUNE 2000



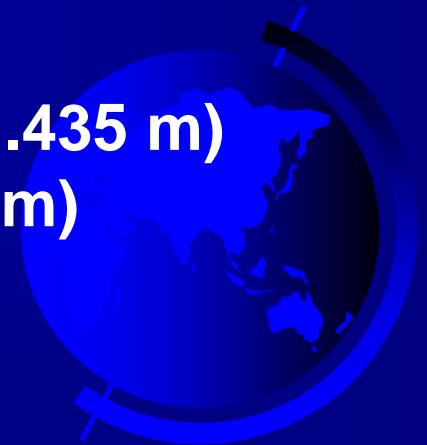
# FUTURE RAILWAY PROJECTS IN JORDAN





## CONSTRUCTION OF EL-SHIDIYA AND WADI II RAIL LINKS

- Imperative that two rail links are constructed to improve the efficiency of ARC
  - El-Shidiya phosphate mine to existing railway (22.5 kms)*
  - Aqaba station to industrial complex in Wadi II (19 kms)*
- Both to be constructed on a BTO basis by the new railway company.
- Infrastructure would be Standard Gauge (1.435 m) with track remaining Narrow Gauge (1.050 m)





## FUTURE RAILWAY PROJECTS IN JORDAN

**New standard gauge railway network connecting Jordanian main cities and neighboring countries.**

- **Light Rail System Zarqa - Amman - Swaileh**
- **Amman Syrian Boarder with branch from Mafraq through Irbid to Israeli Boarder.**
- **Zarqa - Iraqi Boarder**
- **Zarqa - Aqaba**

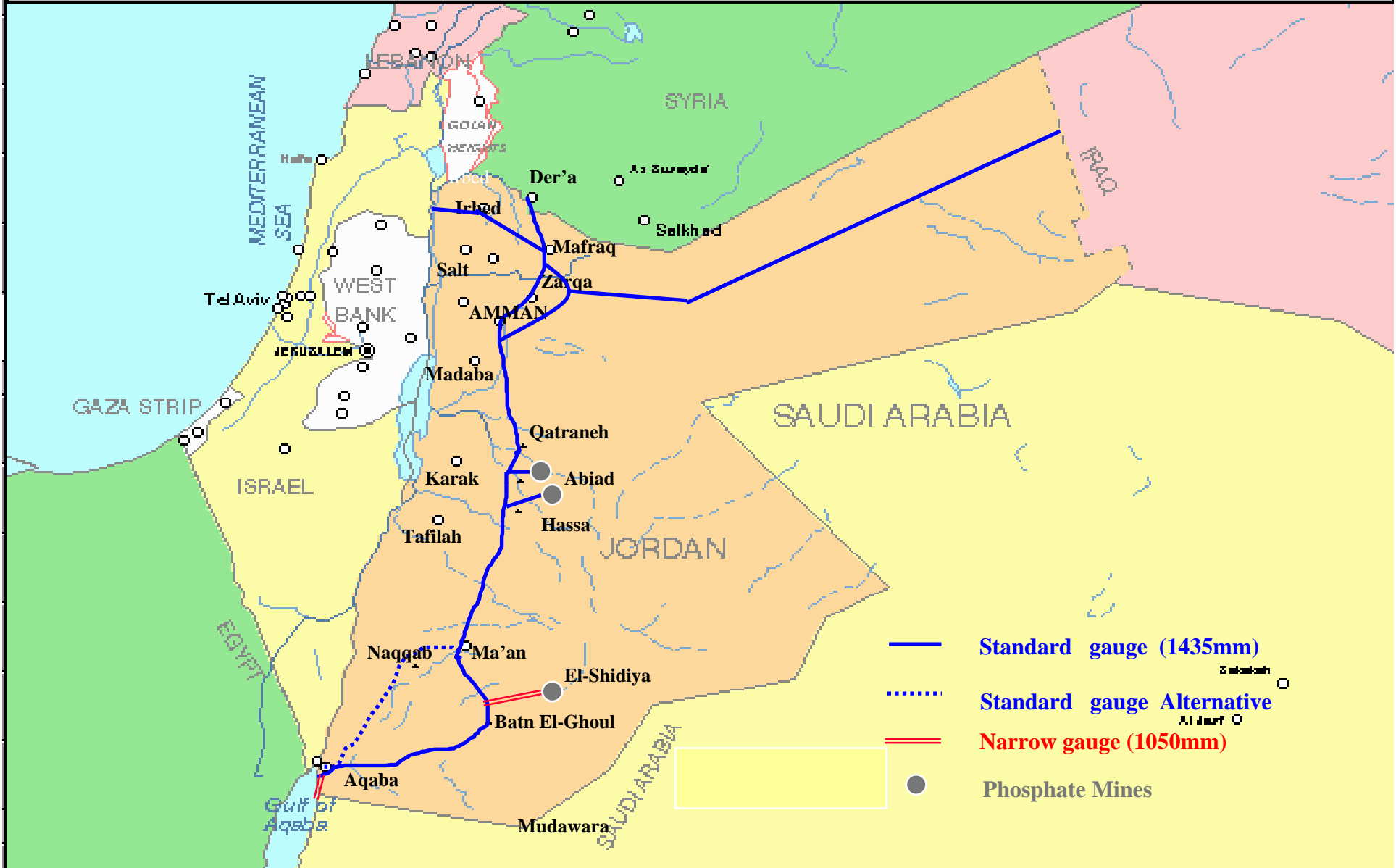




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**JORDAN RAILWAYS**

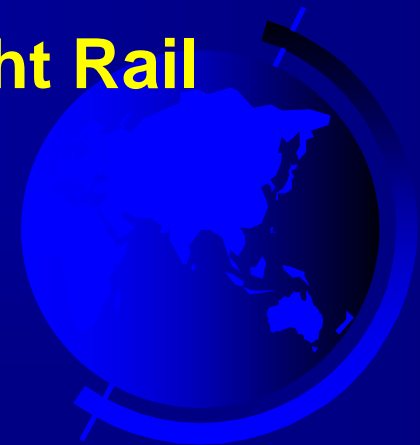
**NEW PROJECTS**





## FUTURE RAILWAY PROJECTS IN JORDAN

- **Jordan Railways Master Plan Study has been awarded for Technical & Financial Feasibility of the future railway network.**
- **Implementation upon priorities**
- **Investment by private sector on a BOT or other similar scheme bases.**
- **Implementation of first stage of the Light Rail project between Amman And Zarqa**





MEETING ON RAILWAY CO-OPERATION IN THE MEDITERRANEAN  
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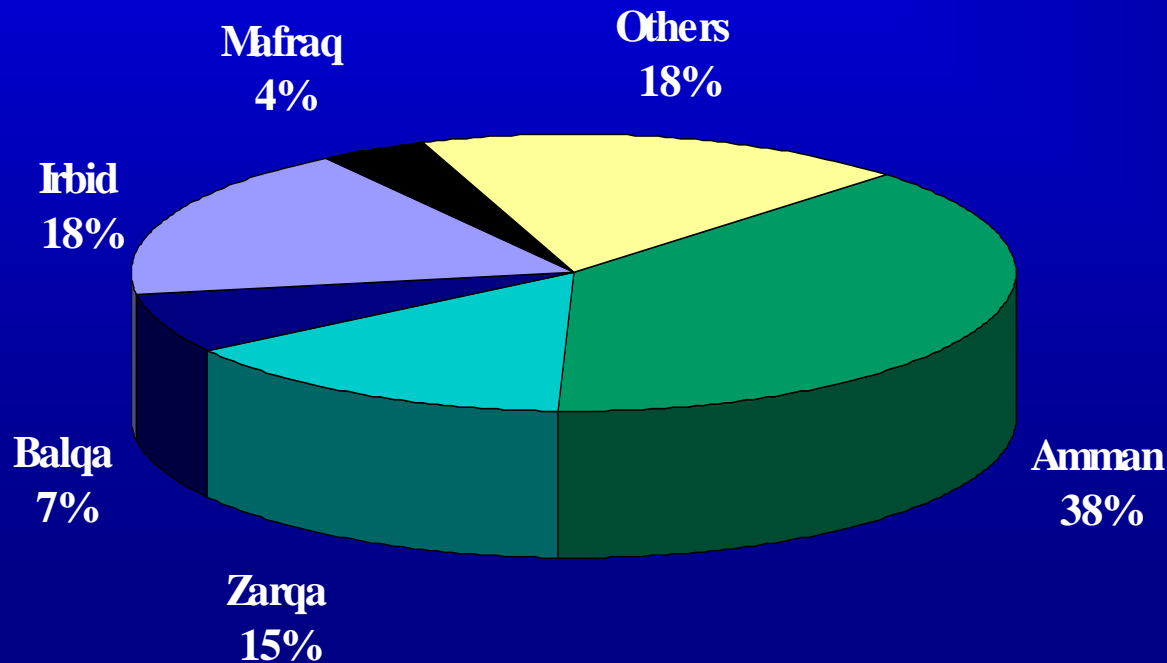
# CONSTRUCTION OF AMMAN - ZARQA LIGHT RAIL SYSTEM





## CONSTRUCTION OF LIGHT RAIL SYSTEM BETWEEN AMMAN & ZARQA

### POPULATION DISTRIBUTION IN JORDAN



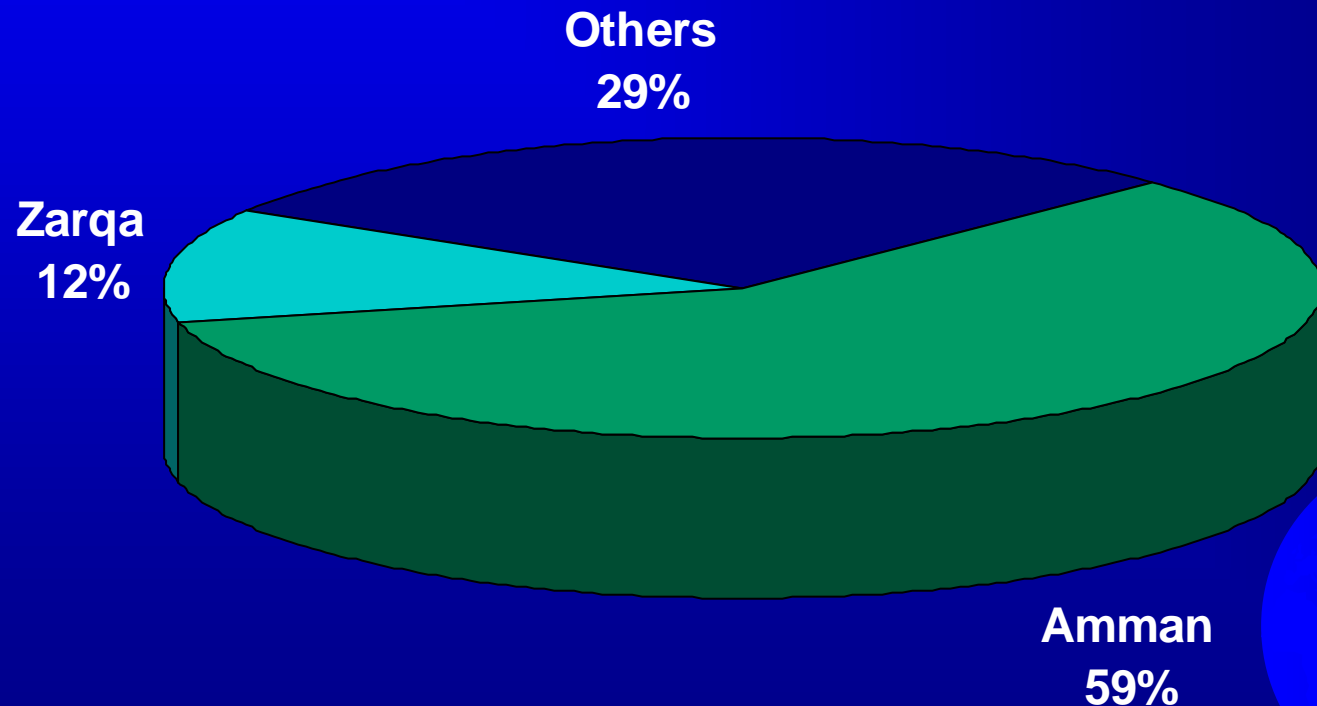
➔ AMMAN AND ZARQA ALONE ACCOUNT FOR OVER 50% OF THE POPULATION

➔ BALQA, MAFRAQ AND IRBID WOULD INCREASE SCOPE TO OVER 80% OF POPULATION



## CONSTRUCTION OF LIGHT RAIL SYSTEM BETWEEN AMMAN & ZARQA

### DISTRIBUTION OF MOTOR CAR ACCIDENTS IN JORDAN



AMMAN AND ZARQA ACCOUNT FOR OVER 70% OF THE TOTAL ACCIDENTS



## CONSTRUCTION OF LIGHT RAIL SYSTEM BETWEEN AMMAN & ZARQA

### WHY LRS PROJECT

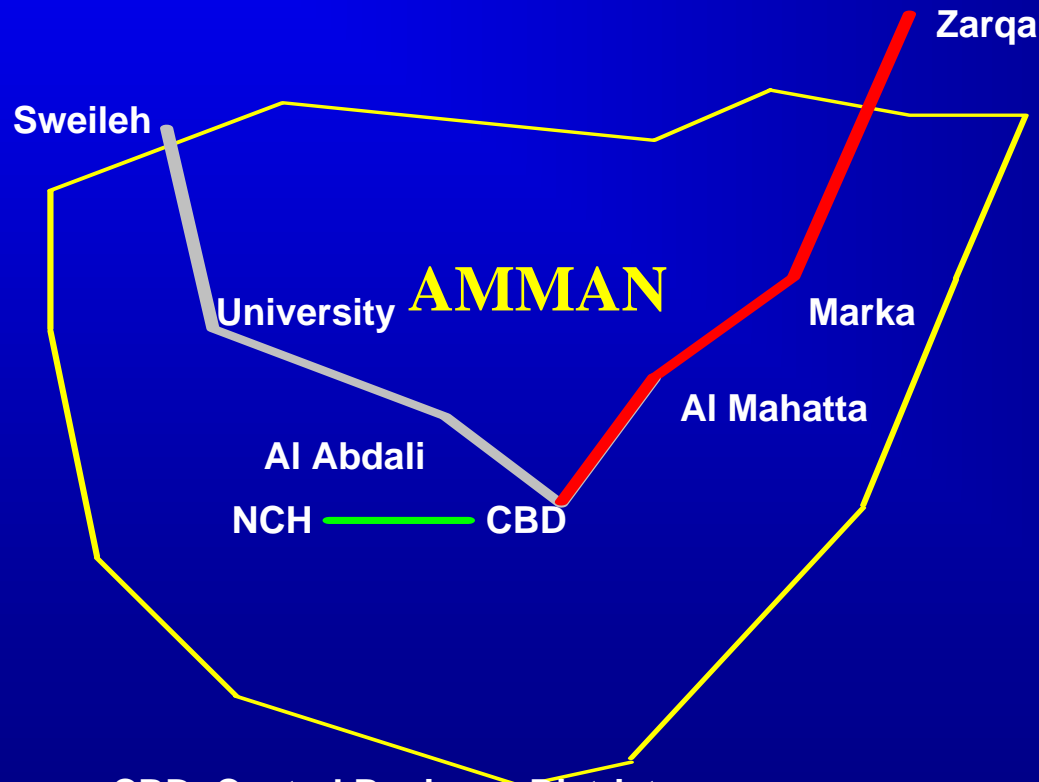
- Improve Standard of Urban Transport in Greater Amman
- Reduce Pollution from Vehicle Emissions
- Introduce an Environmentally-friendly Transport System
- Reduce road congestions
- Reduce car accidents





# CONSTRUCTION OF LIGHT RAILWAY SYSTEM BETWEEN AMMAN & ZARQA

## PROPOSED ROUTE MAP OF THREE STAGES OF LIGHT RAILWAY



Stage 1 (L1)



CBD: Central Business District

Stage 2 (L2)

NCH: New City Hall

Stage 3 (L3)





## CONSTRUCTION OF LIGHT RAILWAY SYSTEM BETWEEN AMMAN & ZARQA

### PROJECT DESCRIPTION

- **45000 Passenger/Day/Direction**
- **26 km route length**
- **Existing railway right-of-way to be used**
- **Route serves Amman (Jordan's largest city) and Zarqa (Jordan's third largest city)**
- **Stage 1 only; full network will be 47 km**





# CONSTRUCTION OF LIGHT RAILWAY SYSTEM BETWEEN AMMAN & ZARQA

## PROJECT DESCRIPTION

- **Automatic Signaling System**
- **78 Trips/Day at the beginning of the project**
- **36.5 minutes trip time**
- **28 Light Rail Car required at the beginning of the project**





# CONSTRUCTION OF LIGHT RAILWAY SYSTEM BETWEEN AMMAN & ZARQA

## Current Status

