



# RAIL OPPORTUNITIES IN OMAN – AN OVERVIEW



Muscat, May 13<sup>th</sup> , 2015

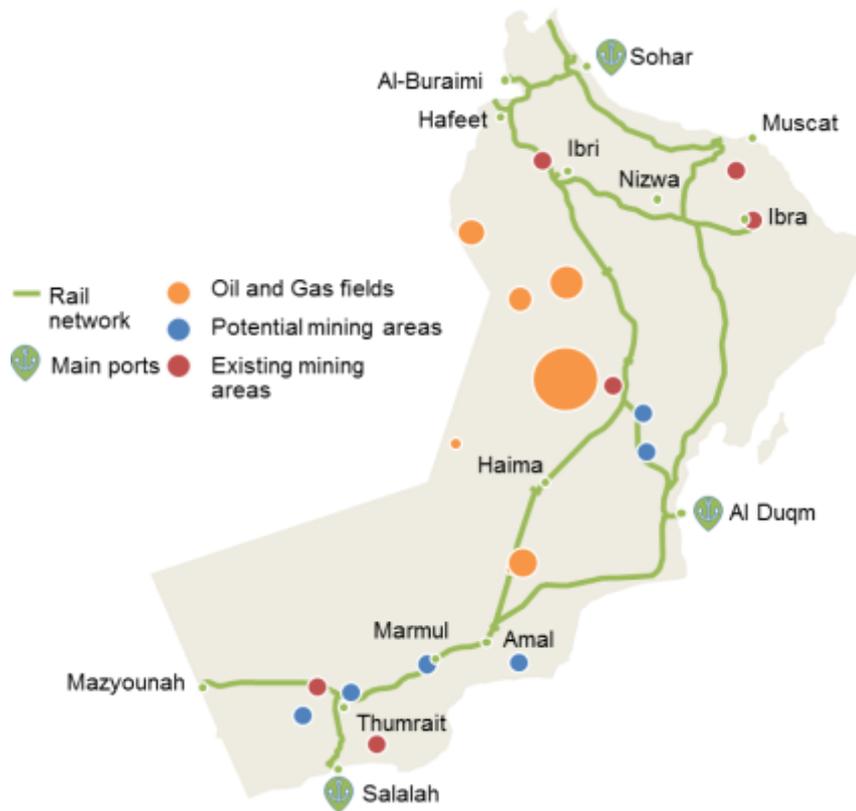
# Our Vision



*Develop the railway network so logistics industry becomes a significant GDP player and Oman becomes the region's gateway*



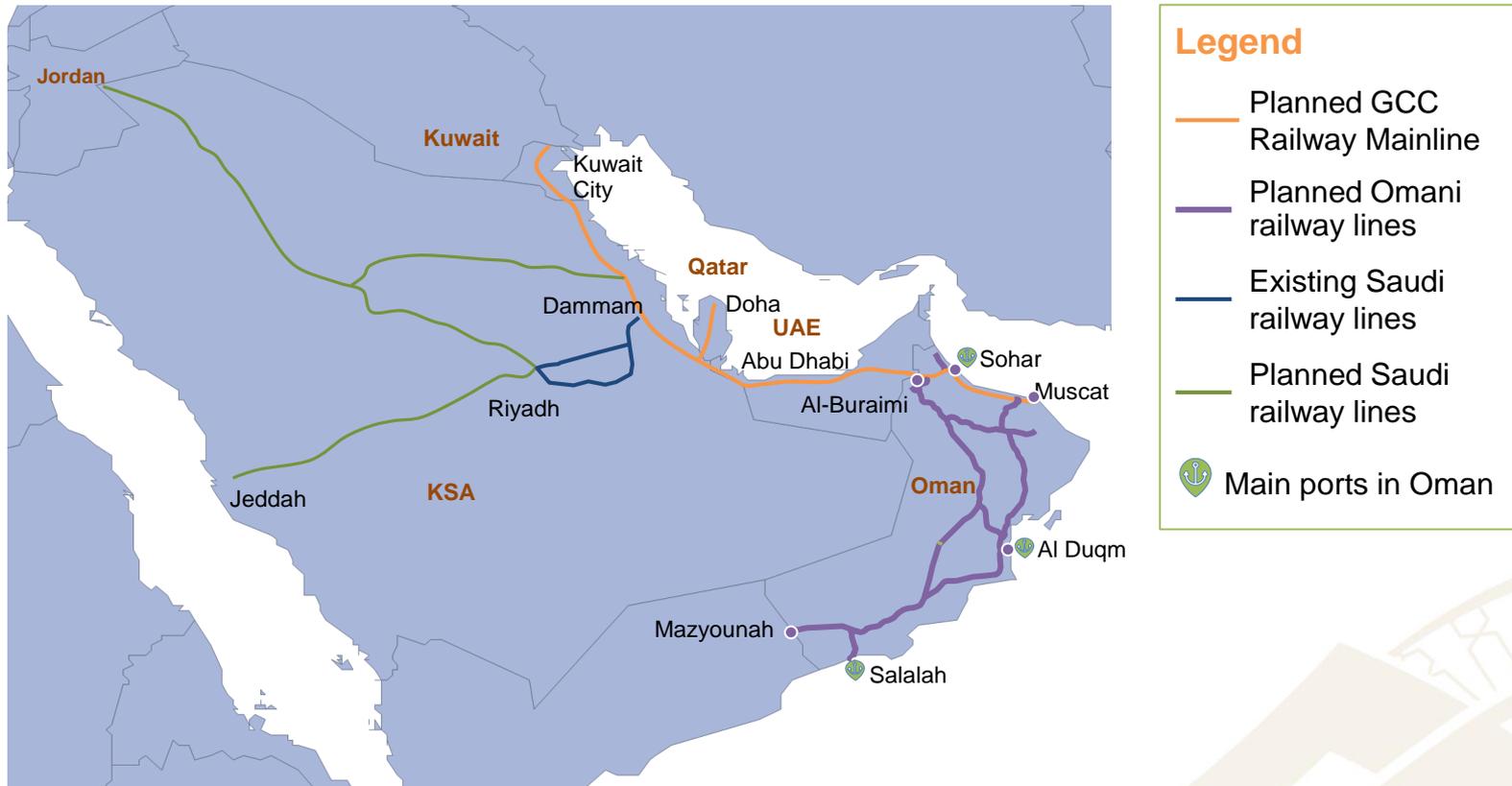
# Network



<b>Network Length</b>	<b>2,135 km</b>
<b>Ports Links</b>	<b>1,537 km</b>
<b>Passenger</b>	<b>200 km/h</b>
<b>Freight</b>	<b>80-120 km/h</b>
<b>Power Drive</b>	<b>Diesel</b>
<b>Track Configuration</b>	<b>Double</b>
<b>Axle Load</b>	<b>32.4 ton</b>
<b>Design Standards</b>	<b>AREMA AAR/UIC</b>
<b>Signaling</b>	<b>ERTMS/ETCS Level 2</b>
<b>Gauge</b>	<b>Standard 1435mm</b>

# GCC Rail Network

The planned rail network will enable Oman to serve as key logistics hub for the entire region



## 1 Oman Rail's value proposition

- Oman's geographical position provides a unique gateway to the Middle East, Africa and South-West Asia
- The planned rail network will enable Oman to serve as key logistics hub for the entire region
- Oman's three deep water ports will link international sea lanes through the railway to the Middle East and beyond

## 2 Project development

- Ports connectivity to the region through rail network will be built over the course of the next 10 years with the initial operations to start late in 2018
- The construction of the planned rail infrastructure in Oman will require significant investments due to a challenging topography and climate conditions

## 3 Expected freight volumes, key customers and operational parameters

- Forecasted freight volumes are expected to reach over 80 million tons by 2030
- Key customers include primarily mining companies, oil & gas corporations and freight forwarders
- More than 40% of the planned freight volumes in 2030 are expected to go to neighboring countries

# Oman's Deep Water Ports

## Sohar Port

- SOHAR Port and Free zone is 25 m deep-sea port and free zone in the Middle East, situated in the Sultanate of Oman, 220km northwest of its capital Muscat



## Duqm Port

- Port of Duqm is fast becoming an important reality of the Middle East region's rapidly transforming maritime landscape



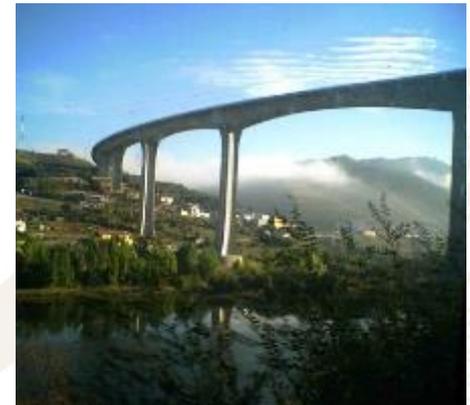
## Salalah Port

- Port of Salalah is a world class transshipment hub strategically located in the West Central Asia Region soon to become a major bulk terminal



## The infrastructure in Oman will require significant investment due to a challenging topography and climate conditions

- Challenging topography requiring significant investments in infrastructure:
  - Viaducts/ bridges: 132 km
  - Tunnels: 35 km
  - Flyovers/underpasses: 245
  - 1.5% grades over 60 km
  - Excessive Ambient temperature reaching 50 degrees Celsius and higher
- Mega project requiring massive supply of material for the build up of the rail network:
  - Rail: 12,000 km
  - Ballast/ sub-ballast: 23 million m<sup>3</sup>
  - Concrete sleepers: 10.2 million
  - Fasteners: 40.8 million



## Rail Operation leads to challenges, preplanning will prevent derailments and accidents

- Wayside Detectors
- On Board Detectors
- Robust Track Inspection regimen
- Specialized Testing and Commissioning
  - Track Geometry
  - Rail Flaw Detection
- ECP Brake System
- Utilizing Advanced Technology and R&D
  - Broken Rail Detection
  - HD Camera track inspection



# Social and Economic Benefits

1. In-Country-Value (ICV), create jobs and economic opportunities for Omanis directly and indirectly
2. Localization and creating industries represented in the areas of design, construction, operation, maintenance for the railway industry in Oman
3. ICV content at a technical level to export products to foreign markets
4. Maintain the flow of funds from investments in the railway sector

# How to achieve our Vision

- Connect Oman ports to the GCC network as soon as possible
- Integrate the transport system modes: ports - railway - roads and airports
- Build a highly competitive network:
  - Adopt best practices in operation
  - Secure lucrative operating conditions and pricing with the GCC
- Build a network safe and effective:
  - Use first rate services and technology providers
  - Adopt latest engineering and quality standards
- Build the local capacity
- Adopt an aggressive marketing strategy

# Contact Oman Rail



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