



**Afghanistan National Railway Plan and Way Forward**

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Nov 2015



# WHY RAILWAY IN AFGHANISTAN ?

## → The Potential

- Affinity for Rail Transportation
  - Primary solution for landlocked, developing countries/regions
  - At the heart of the CAREC and ECO Program
  - 75km of railroad vs 40,000 km of road network
  - Rich in minerals and natural resources – rail a more suitable long term transportation solutions than trucking.
- Country Shifting from Warzone to Developing State
  - Improved connection to the community and the region (access to neighbouring countries)
  - Building modern infrastructure
  - Facilitate economic stability of modern Afghanistan

## → The Benefits

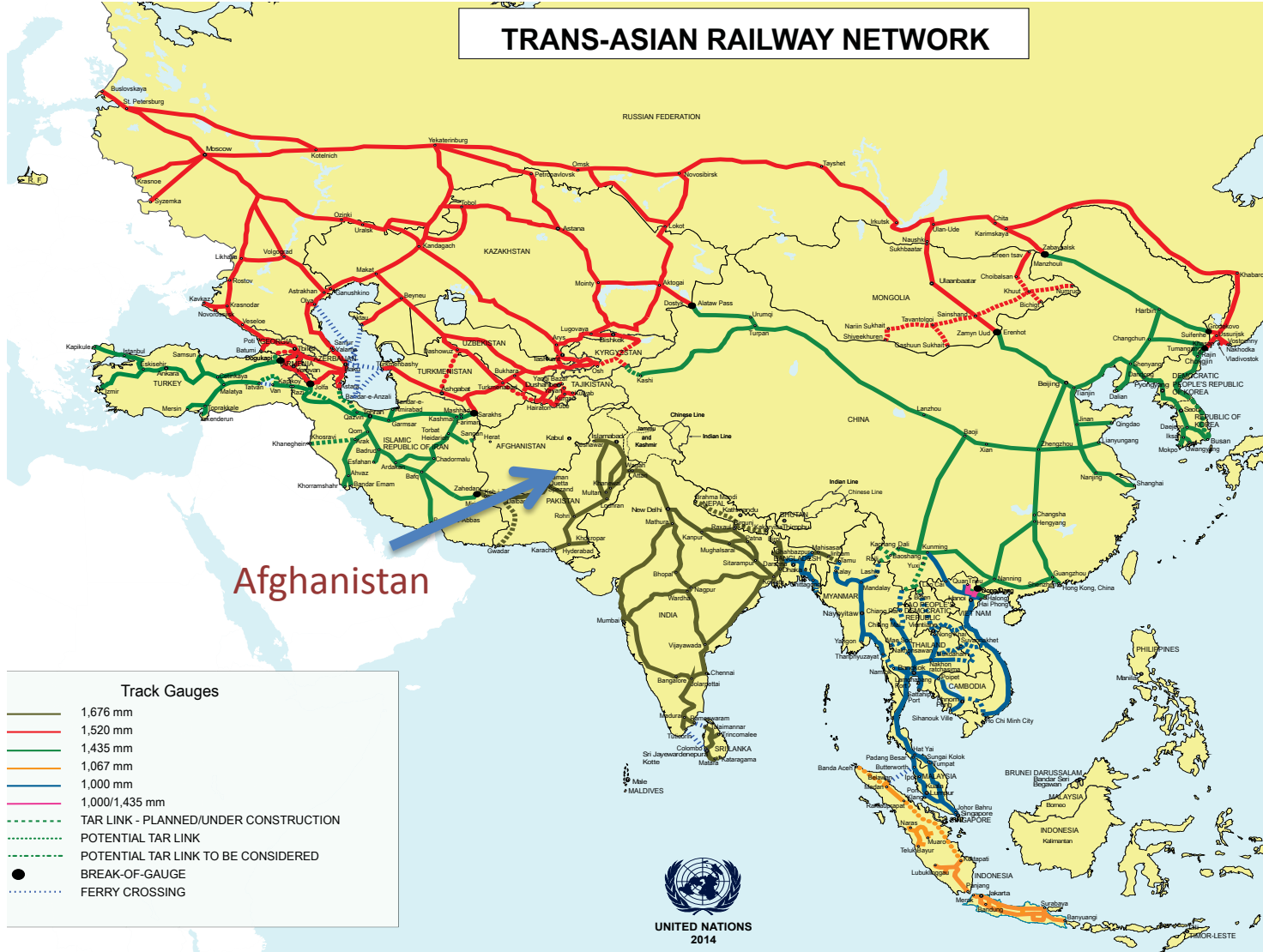
- Pioneer Development of Modern Afghanistan
- Become Part of the International Rail Community
  - Become long-term strategic partner to various countries
  - Build international rail know-how (transfer of expertise)
- Raise Afghanistan's Profile as a Transit Route
  - Penetrate neighbouring countries Rail Market including China, Iran, Turkey and countries in Eastern Europe.
  - Standard Gauge has been assessed as the preferred system gauge.
  - Dual gauge (Standard and Russian) in North to connect with CIS countries

# STRATEGIC LOCATION OF AFGHANISTAN



# MISSING LINKS- and ASIAN RAILWAY

## TRANS-ASIAN RAILWAY NETWORK



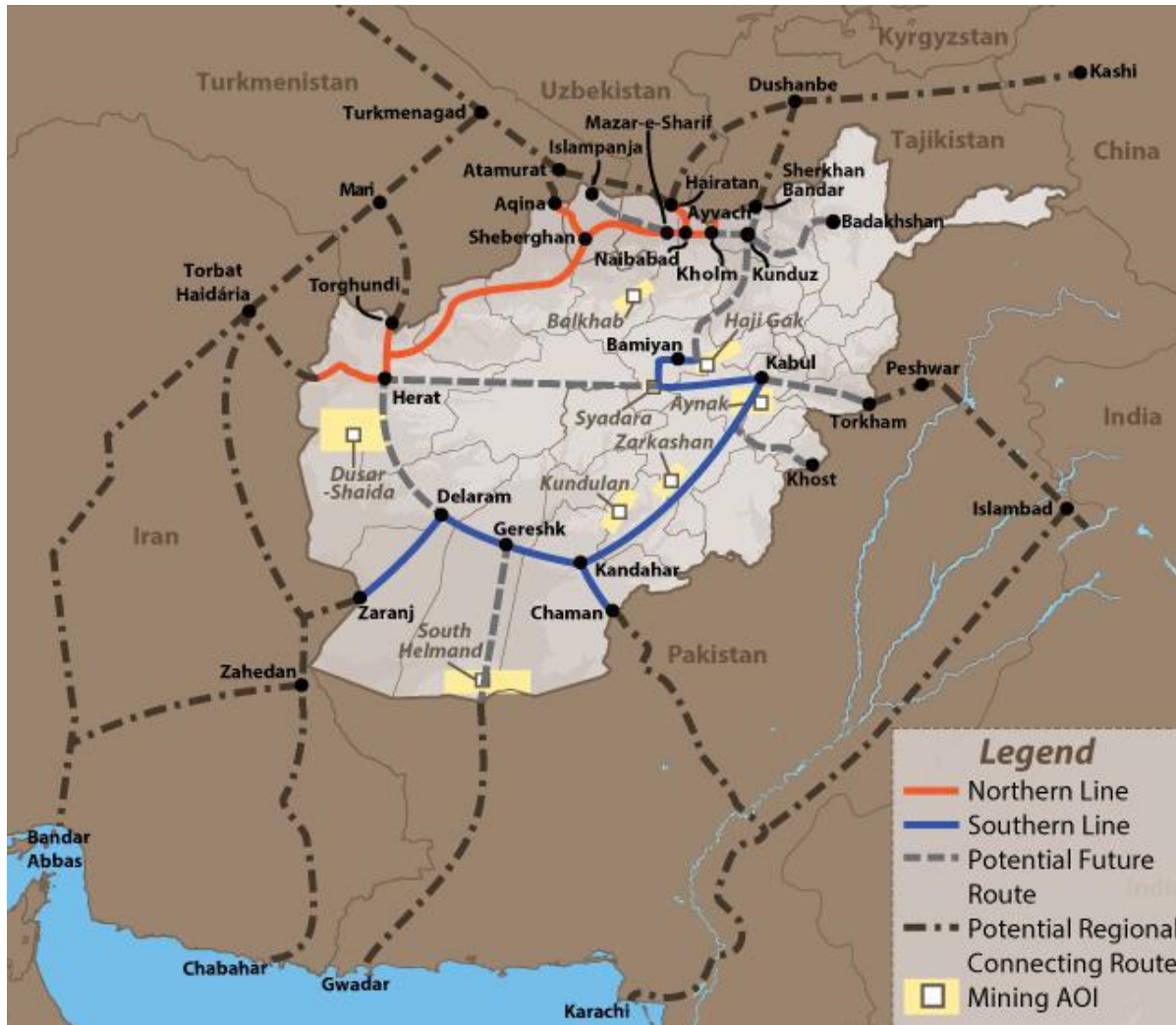
# RAILWAY GAUGES...and AFGHANISTAN'S CRITICAL



# RAILWAY GAUGES...and AFGHANISTAN'S CRITICAL POSITION...contd

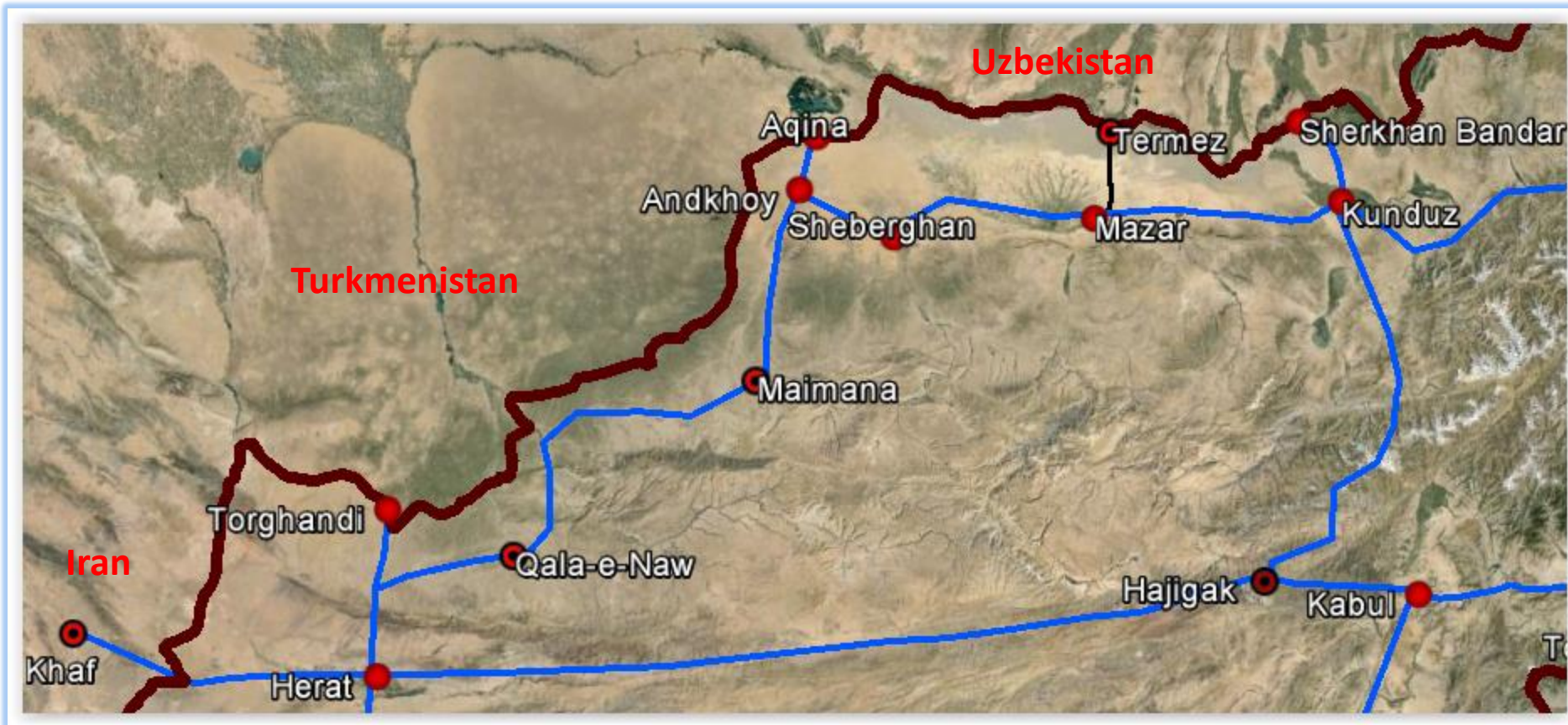


# AFGHANISTAN NATIONAL RAILWAY PLAN (ANRP)



- Developed by Afghanistan Railway Authority
- Total route length- 5500 km
- Main line in a ring shape
- Southern Mainline: mineral freight focussed line of Standard Gauge
- Northern Mainline: commercial freight focussed line of dual (Russian and Standard Gauge)

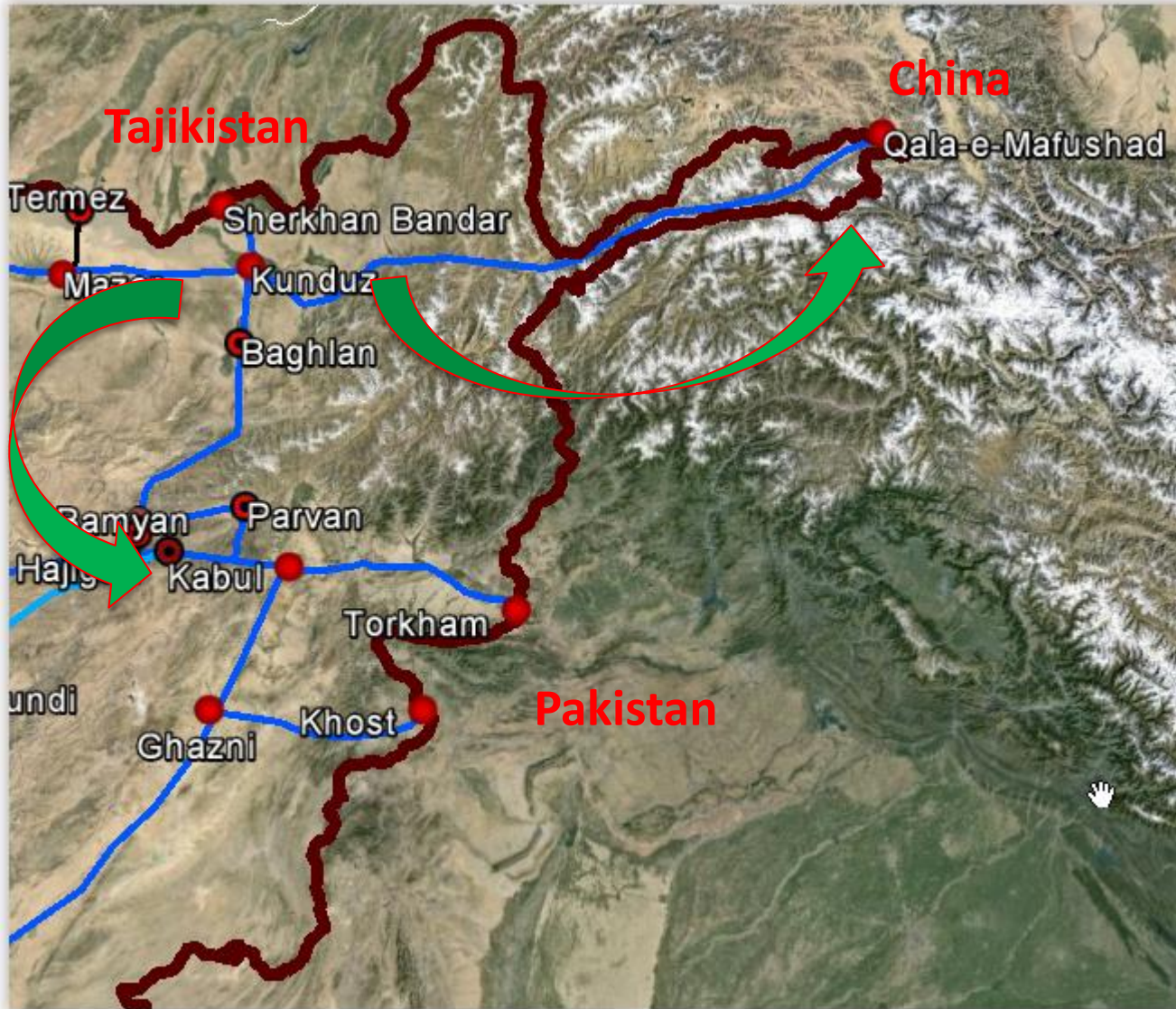
# ANRP NATIONAL CORRIDOR - 1 (HERAT-KUNDUZ)



- **National Corridor-1 1000 km (Herat-Maimana-Andkhoy-Sheberghan-Mazar-Kunduz):** Prefeasibility Complete, Feasibility Study for Andkhoy-Kunduz ongoing (to complete in Dec 2015)
- **Regional Corridor:** Herat-Khaf (Construction), Herat-Torgandhi (Prefeasibility complete), Andkhoy-Aqina (Feasibility ongoing), Hairatan-Mazar (Operation), Kunduz-Sherkhan Bandar (Feasibility ongoing)

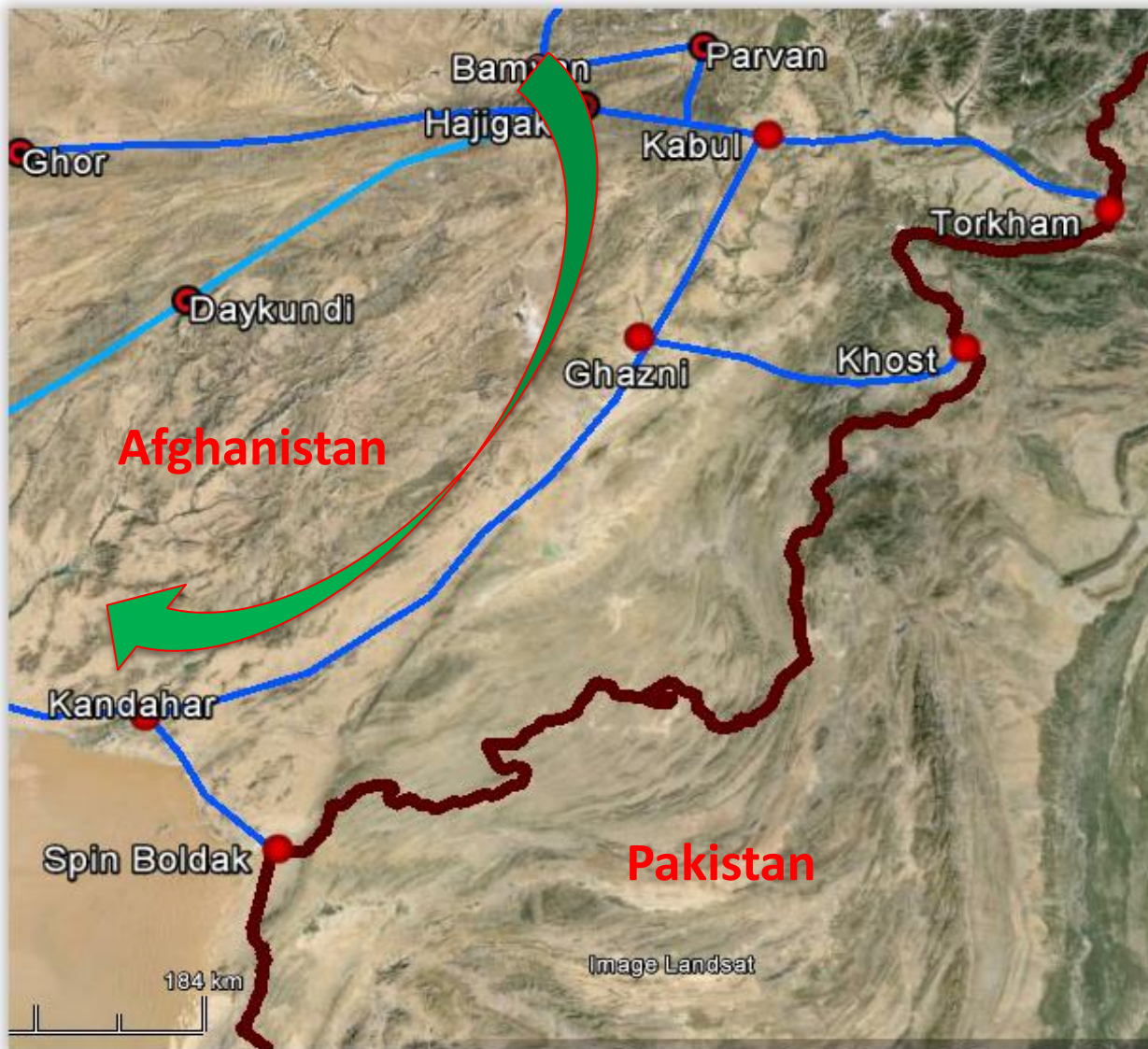


# ANRP NATIONAL CORRIDOR -2 (Kunduz-Kabul ) and CORRIDOR- 6 (Kunduz-Qala e Mafushad)



- **National Corridor-2**  
400 km (Kunduz  
Baghlan-Bamyán-  
Parvan-Kabul):  
Feasibility Complete
- **National Corridor-6**  
600 km (Kunduz –  
Takhar-Qala-e-  
Mafushad): Concept  
Stage
- **Regional Corridor:**
  - Kabul-Torkham  
(Prefeasibility  
complete),
  - Ghazni-Khost  
(Concept Stage)

# ANRP NATIONAL CORRIDOR -3 (KABUL-KANDAHAR)

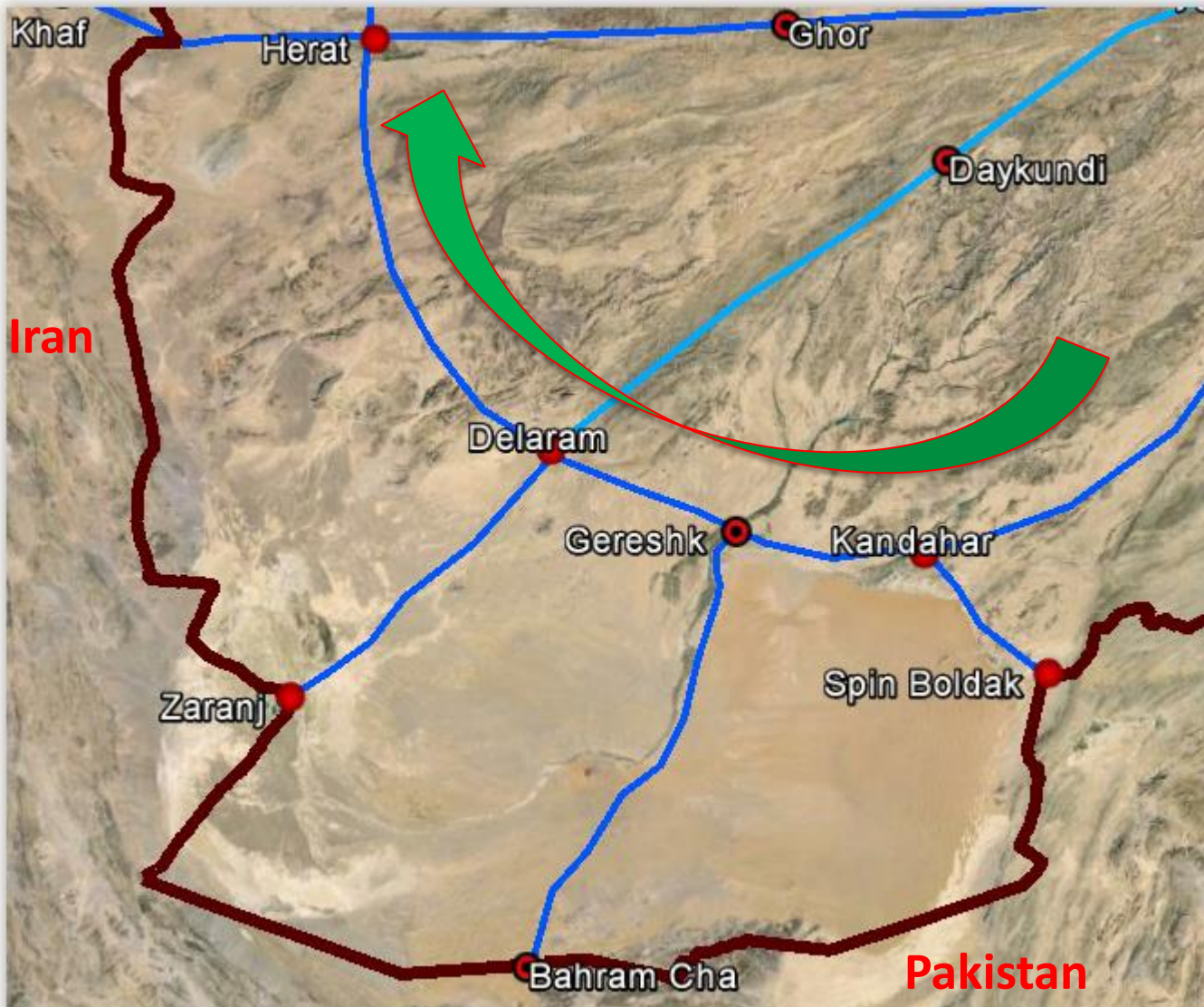


→ **National Corridor-3**  
**500 km (Kabul**  
**Ghazni-Kandahar):**  
Prefeasibility  
Complete

→ **Regional Corridor:**

- Kandahar-Spin Boldak  
(Prefeasibility complete)

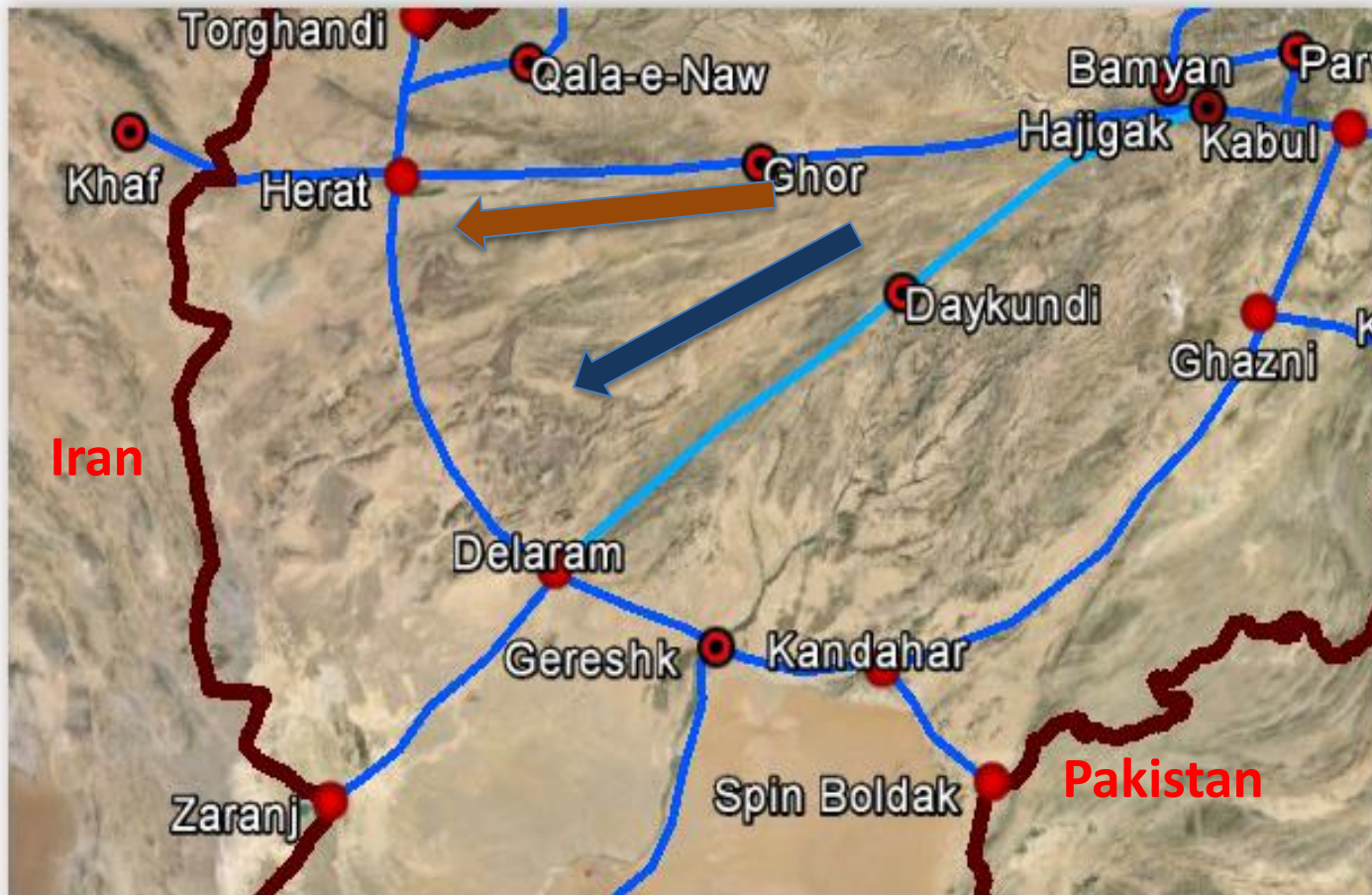
# ANRP NATIONAL CORRIDOR -4 (KANDAHAR-HERAT)



→ **National Corridor-4**  
**500 km (Kandahar-Delaram-Herat):**  
Prefeasibility  
Complete

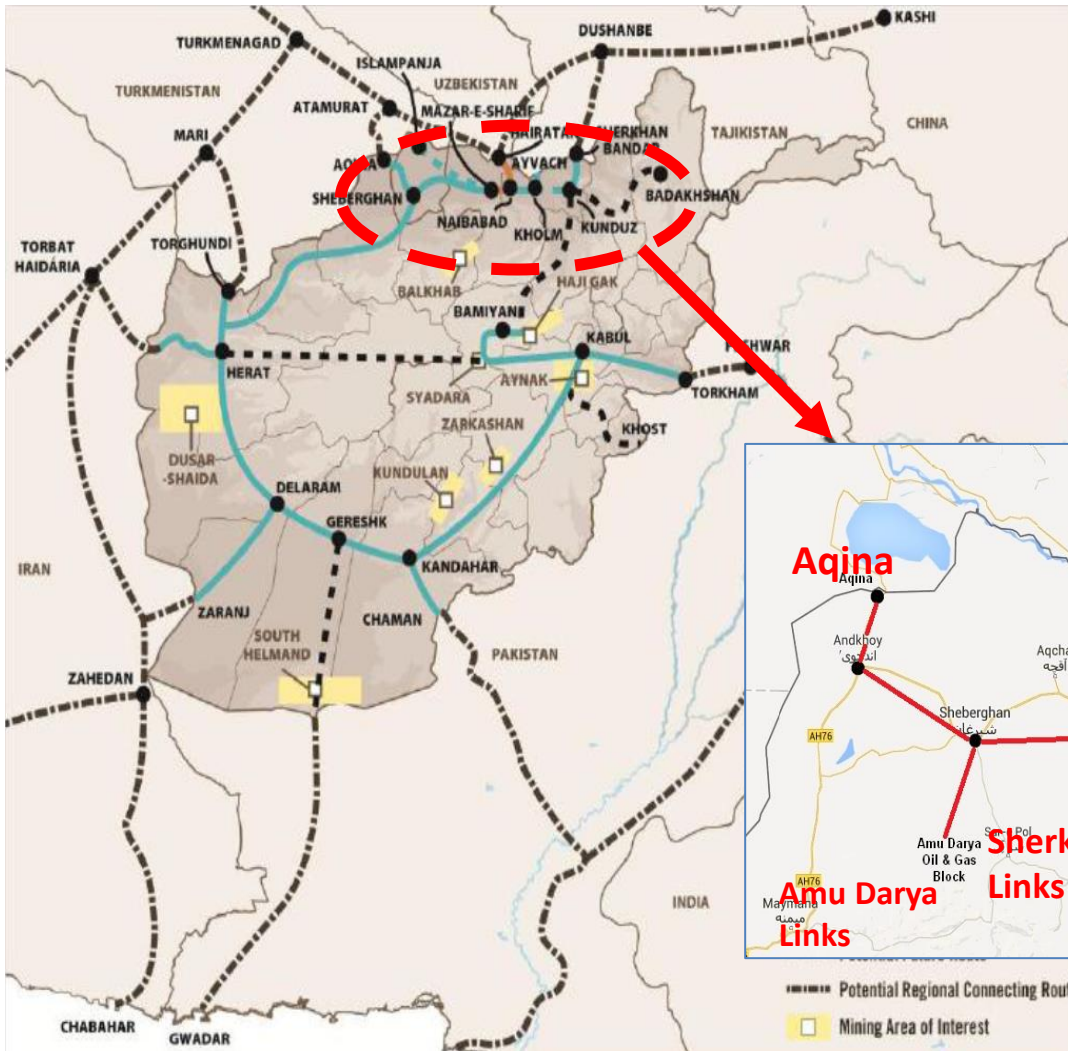
- **Regional Corridor:**
- Gereshk-Bahram Cha (Concept Stage)
  - Delaram-Zaranj (Concept Stage)

# ANRP NATIONAL CORRIDOR -5 (Kabul-Herat/ Kabul-Delaram)



- **National Corridor-5**
- **Two Options to reach Iranian ports**
- **600 km (Kabul-Ghor-Herat):**  
Concept Stage
- **600 km (Kabul-Daykundi-Delaram):**  
Concept Stage

# NORTHERN AFGHANISTAN RAILWAY FEASIBILITY STUDY



**Feasibility Study-Procurement of a 650km railway :**  
 Connecting Tajikistan to Turkmenistan through Afghanistan - linking Amu Darya Oil & Gas Blocks.  
 Interconnecting 7 cities (east to west)



--- Potential Regional Connecting Route  
 □ Mining Area of Interest

# NORTHERN AFGHANISTAN RAILWAY FEASIBILITY STUDY ...Contd

## Phase-1 (Mazar to Aqina)

- Feasibility Study Report submitted
- Procurement process to commence soon
- Salient Features:
  - Length of Main line: **270km**
  - Project Cost: **US\$800 Million** (includes cost of Rolling Stock)

## Phase-2 Part-1 (Mazar-Kholm and Amu Darya Links)

- Feasibility Study Report submitted
- Procurement process to commence soon
- Salient Features:
  - Length of Main line: **160km**
  - Project Cost: **US\$500 Million** (includes cost of Rolling Stock)

## Phase-2 Part-2 (Kholm to Sherkhan Bandar)

Alignment options have been investigated and detailed site investigation to start

## MULTI MODAL LOGISTICS HUBS- OPPORTUNITIES/LOCATIONS



- **Objective**
- **Main Activities:** Transport handling, documentation, value addition etc.
- **Key benefits**
  - Reduction in transportation costs, Better facility utilization, Reduction in cost of services, Reliability of transport times, Decongestion of adjoining area
- **Potential Locations:**  
Aqina, Naibabad, Sherkhan Bandar, Kandahar, Jalalabad, Herat

# MULTI MODAL LOGISTICS HUBS- OPPORTUNITIES...Contd

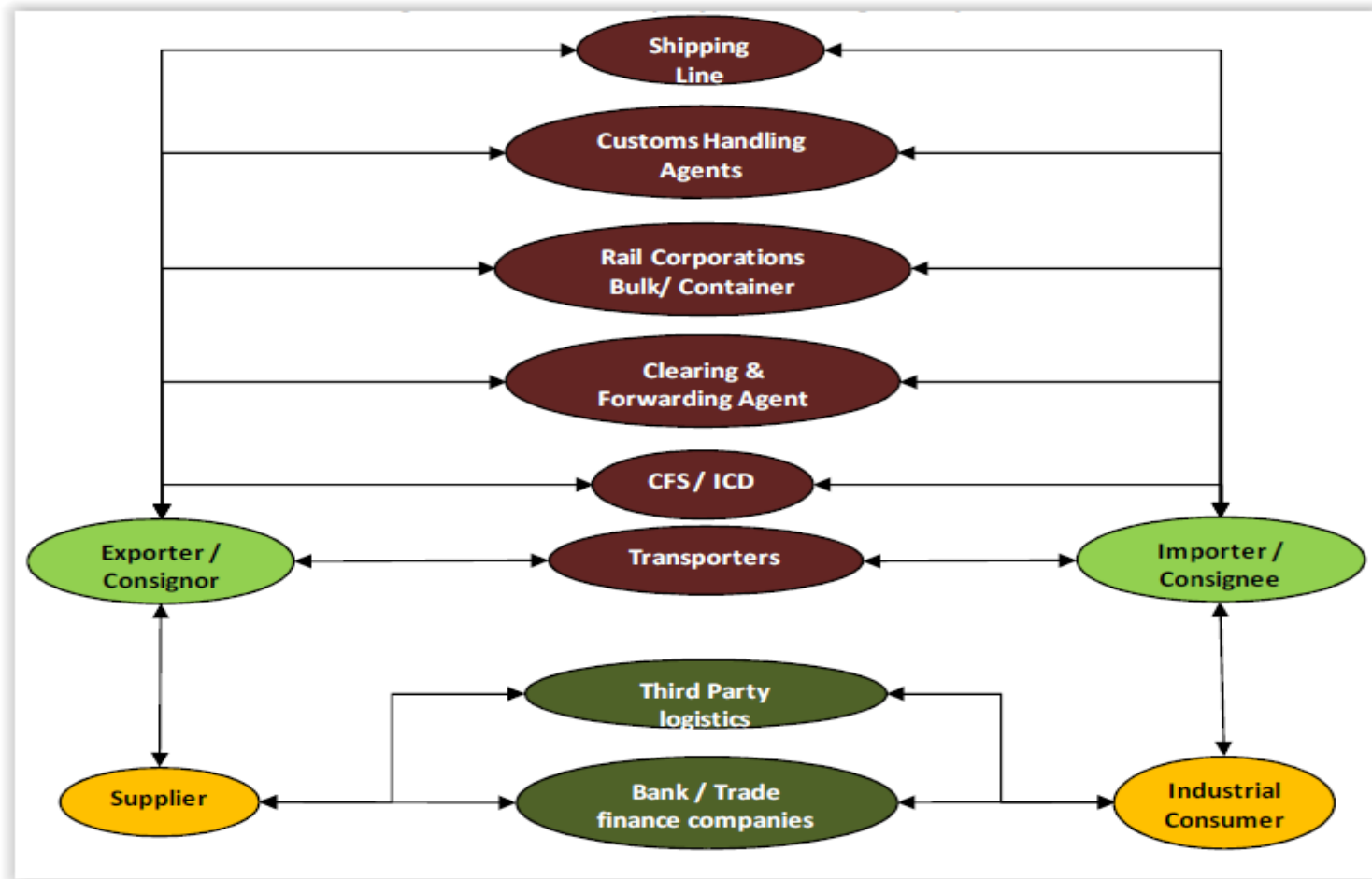
## ➤ Services Provided

Commodity	Dry Cargo		Liquid Cargo		Containers		Processing and Value Added Services
	Perishable	Non-perishable	Hazardous	Non-hazardous	Empty	Stuffed	
<b>Storage</b>	Covered warehouse	Open storage/ Covered warehouse	Liquid tank farms	Liquid tank farms	Open storage	Open storage, Covered warehouse	
<b>Facilities</b>	Weather proof, Pest proof, drainage, fumigation facilities/bagging facilities	Normal Storage-heavy industrial floor	Tank farms with specialized foundation – pipeline linkage.	Tank farms – pipeline linkage	Cargo Stuffing yard	Cargo <u>destuffing</u> yard /stacking yard	Facilities for labeling, packaging
<b>Common Facilities</b>	<ul style="list-style-type: none"> <li>• Bonded zone &amp; Customs clearance</li> <li>• Distribution facilities</li> <li>• Communication facilities (IT linkage with port / customs / railways / end users)</li> <li>• Business center facilities and trade finance assistance ( wholesale / retail trading platforms)</li> <li>• Light engineering facility</li> </ul>						



# MULTI MODAL LOGISTICS HUBS- OPPORTUNITIES...Contd

## ➤ Key Players



# MULTI MODAL LOGISTICS HUBS- OPPORTUNITIES...Contd



## Multi modal Logistics Hub- a growing trend

IMLH currently in operation or in construction/design stage

- Kwinana Intermodal Terminal in Australia (Design Stage)
- Vaughan Intermodal Terminal in Ontario, Canada (In Operation)
- Multimodal Logistic Hub, Greater Noida, India (Design Stage)



# TRANSIT ORIENTED DEVELOPMENT- OPPORTUNITIES



## Transit Oriented development- along railway corridor

- mixed use residential and commercial area designed to maximize access to public transport.
- **Main concepts:**  
Orientation, Integration, Vibrant urban realm, Pedestrian focussed, High quality of life
- **Major TODs in the world**
  - Masdar City, Abu Dhabi
  - Kulim Hi-Tech Park, Malaysia
  - Greater Noida Industrial Township, India



Thanks from your  
Attention

