



**KGID  
2025**

**Green Growth:  
The Path to  
Sustainable Jobs**

# Exploring the Future Collaboration Opportunities with WB & KORAIL

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- Introduction of KORAIL
- Scope & Total Solution
- Ongoing Overseas Railway Projects



# 01. Introduction of KORAIL



# History of Korean Railway

1899

The first railway in Korea



1972

Introduction of electronic locomotives



2004

1<sup>st</sup> Generation of HSR  
KTX-1 - 300km/h



2010

2<sup>nd</sup> Generation of HSR  
KTX-Sancheon - 300km/h



2017

Opening of  
Gangneung Line

1905

Opening of  
Gyeongbu line

1974

Opening of metro lines in  
Seoul metropolitan area

2005

Launching of Korea  
Railroad Corporation  
(Governance Reform  
from National Railroad  
Administration)

3<sup>rd</sup> Generation of HSR  
HEMU-430X - 430km

2012

2021

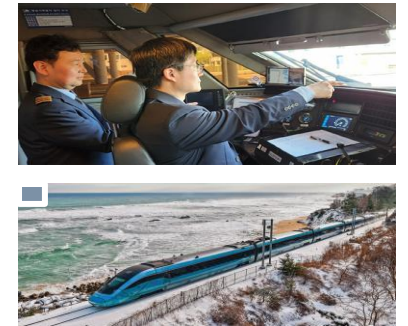
3<sup>rd</sup> Generation of  
KTX-EUM – 320km/h

# Operation & Maintenance

## ■ Operation / Passenger



## ■ Railroad Traffic Control & Train



## ■ Maintenance of Rolling Stock, System & Infrastructure



“Successful Operation of **21** years of HSR, **51** years of Metro, **126** years of Conventional Rail”

# High Speed Railway Rolling Stock

**KTX**



2004, 305 km/h

Korea's **First-generation of HSR** developed with French technology

**KTX** *SANCHEON*



2010, 305 km/h

Train designed and manufactured with **Korean technology**

**KTX** *EUM*



2021, 260 km/h

**First EMU train** independently developed with **Korean technology**

**KTX** *청룡*  
*CHEONG-RYONG*



2024, **320 km/h**

**Upgraded version** of the former KTX-EUM featuring **distributed power system**



# Korea's High Speed Rail Excellence



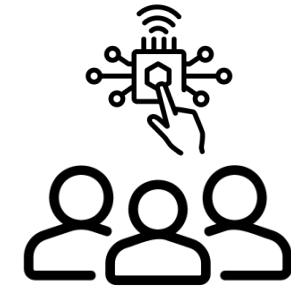
## Punctuality

99.8% On-time rate  
(UIC standard in 2023)



## Maximum Operating Speed 305Km/h

Up to 305 km/h fast,  
Efficient and reliable



## IT-Based Service Convenience

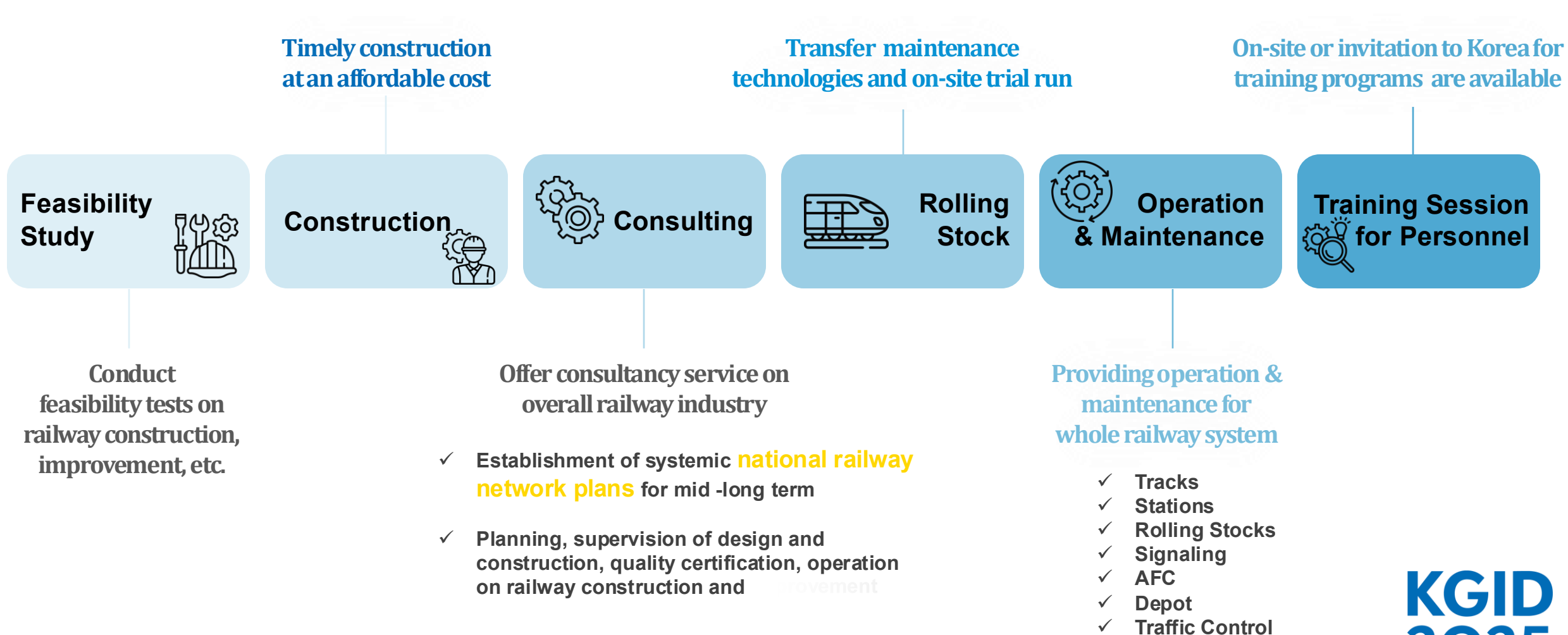
Free Wi-Fi, mobile ticketing  
And real-time information



## 02. Scope & Total Solution



# 6 Key Areas for Overseas Railway Business



# International Cooperation

## International Railway Training Program

- Authorized International Railway Training Center
- Various topic (Tech, Safety, Passenger, etc.)
- Business opportunities with private sector

▶ Knowledge Sharing & Technology Transfer



## Member of OSJD

Organization for Cooperation between Railways



- Coordinate Government Agreements in Transportation
- Cooperative Work among 30 Countries

▶ Expanding network and interactions with international railway organization

## Regional Chair of UIC

International Union of Railways



- Develop Global Standards
- Working Groups to exchange Expertise on Pending Issues

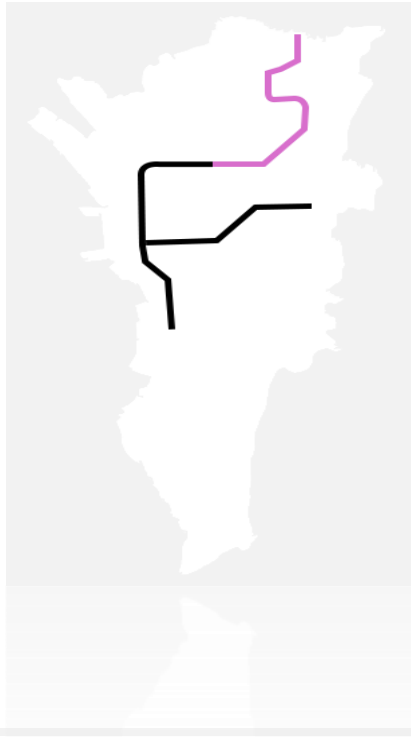


## 03. Ongoing Overseas Railway Projects

# Overseas Railway Projects – Model # 1



## Operation & Maintenance MRT-7 in the Philippines



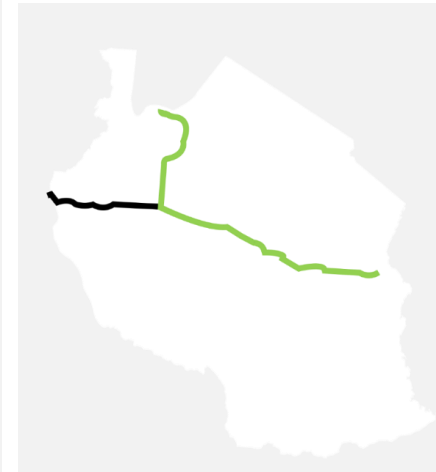
**Route** North EDSA –  
San Jose Del Monte  
(22.8km), 14 stations,  
1 depot, 36 train sets

**Scope** Design review,  
FAT + T&C,  
Training Session  
Co-operation &  
Maintenance

**Period** 2025 July – 2034 Dec.



## Supervision SGR of Central Line in Tanzania



**Route** Dar Ess Salaam –  
Mwanza (1219km)

**Scope**  
Design review, supervision on  
construction of Standard  
Gauge Rail of Central Line  
Test & Commissioning

**Period**  
2017 April – 2027 March



# Overseas Railway Projects – Model # 2

## Rolling Stock & Maintenance Package

### ❖ Export & Maintenance of HSR for Uzbekistan



#### 1<sup>st</sup> Project of K-Rail One Team

**Scope** Manufacture – Hyundai ROTEM  
Maintenance / Training – KORAIL  
**Tech - Transfer**

**Period** 42 months

### ❖ Export & Maintenance of EMU for Morocco



#### 2<sup>nd</sup> Project of K-Rail One Team

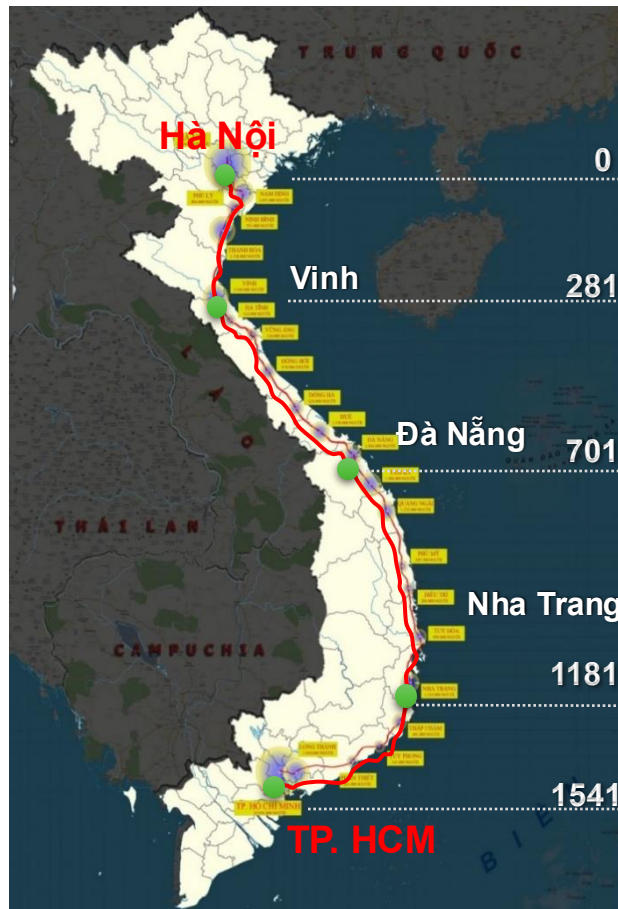
**Scope** Manufacture – Hyundai ROTEM  
Maintenance / Training – KORAIL  
**Tech - Transfer**

**Period** TBD

# Overseas Railway Projects – Model # 3

EPC + Operation & Maintenance as A Shadow Operator

North - South High Speed Railway in Vietnam



Planned to begin in  
2027

281 Km

420 Km

2028-2029

480 Km

2028-2029

360 Km

2027

**L = 1,541 Km**

**Route** Hanoi-Ho Chi Minh  
350km/h , 160 km/h  
28 stations, 9 depots

**Scope** TBD

**Period** Released the plan  
in November 30, 2024  
  
Planned to be completed  
in 2035

# Overseas Railway Projects – Model # 4

## Training Program in Railway Since 2008



- Category** ODA / UIC / KORAIL / Direct contract
- Object** Board members, Management level & Working level staffs
- Follow-up** Satisfaction survey, Social media

## International Railway Training



*International Railway  
Training Center for UIC Asia*



# KORAIL is Expanding beyond Korea

## Bringing the Excellence of Korean Railway Innovation to the World

**25 Countries, 50 Overseas projects**



### Asia

9 countries

- ✓ Australia
- ✓ Bangladeshi
- ✓ India
- ✓ Mongolia
- ✓ Myanmar
- ✓ Nepal
- ✓ Papua new guinea
- ✓ Philippines
- ✓ Viet Nam

### Africa

7 countries

- ✓ Botswana
- ✓ Ethiopia
- ✓ Ghana
- ✓ Kenya
- ✓ Morocco
- ✓ Tanzania
- ✓ Uganda

### Middle East

3 countries

- ✓ Iraq
- ✓ Saudi Arabia
- ✓ UAE

### Europe

3 countries

- ✓ Czech
- ✓ Poland
- ✓ Ukraine

### South America

3 countries

- ✓ Honduras
- ✓ Peru
- ✓ Panama





**K-Rail is now Ready**  
**to be a Partner with Your Country!**