### **Railway Network in Asia**



### Distance = 6.617km

**Rail Link** 

- Alignment = Meter Gauge (1,000 mm)
- Proposed during 5th ASEAN Summit, Bangkok 1995

Singapore-Kunming

- To facilitate trade, tourism & inter-border movement
- To be linked with Trans-Asian
- Railway Network
- Members:
- Cambodia Vietnam
- Lao PDR
- Thailand
- Malaysia
- Myanmar
  - People's Republic
  - of China

### **STATUS**

### **On-going development:** - Lao PDR-People Repubic

- of China
- Malaysia Upgrade: Gemas-Johor Bahru
- Thailand Double Track Upgrade
- Vietnam Rehabilitation & Upgrade

### Planning stage:

- · Cambodia-Vietnam: New alignment
- Myanmar-Thailand:
- New alignment Lao PDR New alignment
- Cambodia: Upgrade & Rehabilitation
- Vietnam: Upgrade & Planning

### TRACK WORK



CONCRETE SLEEPERS

& BEARERS



SYSTEM PROVIDER

....



**ROLLING STOCK AND INTERIOR** 





### **INTELLIGENT RAILWAY**







RAILWAY **ELECTRIFICATION** 



PESTECH

# **One Team One Dream**

- Bringing the rail industry and the government together
- Provide the consultation in railway business
- and development Provide knowledge of the latest technologies
- - Provide training for industry Provide research in railway business
  - and system

### Networking (domestic and international) Exchange knowledge and expertise

### PASSENGER INFORMATION DISPLAY SYSTEM







### **BACKUP POWER** SOLUTIONS



### imp

THE NEXT REVOLUTION

**OF URBAN TRANSPORTATION** 

## **Industry Overview**

Malaysian railway has existed for more than 130 years, from transporting tin ores in 1880s to fully electrified system in 1995. Moving forward Malaysia will be having a high-speed rail system, connecting Kuala Lumpur to Singapore.

### **Malaysian Rail Fact Sheet**



80 local companies

in the railway industry



**80% SMEs** Number of workers

22,000

worker\*

\* Not including attrition rate of 3-5% inter-sectoral mand potential job upsurge in ASEAN & Middle East







Top 3

Monorail

world

### **Projections**





MRT

MRT2&3

Stations in Selange

Demand for **Project Value** 

# rail technical

# manpower in 2022 23,600 worker







Asset

**GKTM** 

Asset worth RM16bil

**MANAGEMENT SOLUTION** 

**DESIGN AND PROJECT** 











**FARE COLLECTION SYSTEM AUTO** 





### **RAILWAY MAINTENANCE**







# 

### TECHSTORE

### **SERENDAH SMART CARGO HUB ECONOMIC activities**



# **EAST COAST**



### **ELIGIBILITY REQUIREMENT**

### Criteria:

- Local equity/shareholding must be
- At least 70% of Senior Management and Executives are Malaysian;
- The company must be doing work related to the rail industry, products, services, and/or its supporting industry.



### **CONTACT US**

If you would like to become a MARIC member or to learn more about MARIC, kindly drop an email to:

### enquiry@maric.my

Or visit

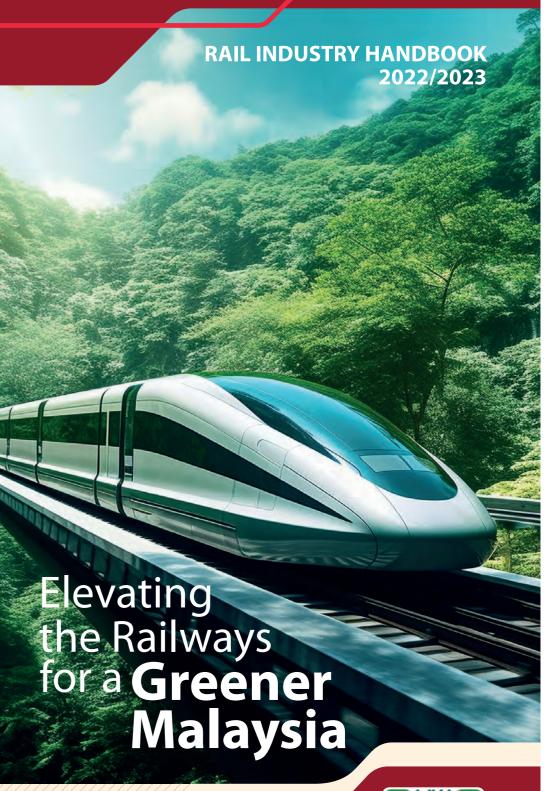
www.maric.my

Address:

Malaysia Rail Industry Corporation (MARIC) (Pertubuhan Industri Rel Malaysia) C-03A-09, I-Tech Tower,

Jalan Impact Cyber 6, 63000 Cyberjaya, Selangor, Malaysia









### **Insights of MARIC**

MARIC, established on April 17, 2017, by the Malaysian Industry-Government Group for High Technology ("MIGHT"), leads high-value technology and innovation initiatives in the nation's rail sector. MARIC's members are the key players within the rail industry with active involvement in rail-based projects for the last 30 years. In a rail project, system engineering constitutes 40% of the total cost, with the remaining 60% allocated to infrastructure or civil works. The system works are organized into seven clusters: Power and Electrification, Signalling, Communication, Track Works, Rolling Stock, Automated Fare Collection (AFC), and Consultancy.

### THE COUNCIL MEMBERS AND CORPORATE MANAGEMENT

The Committee is governed by a Board of Trustees which consists of key rail players in the rail industry. The committee brings together years of experience, industry knowledge, and strong linkage with the relevant government ministries and agencies.

### OMMITTEE COUNCIL MEMBERS



**PRESIDENT** 

Datuk Dr Mohd Yusoff Sulaiman





















### It involves creation of new sources of revenue by

converting the assets into

economic value.

MARIC teams up with the rail operators to provide better value for rail services through monetising the data collected on passenger preferences, ticketing, digitalised rail services, and train running on various services, systems, safety, technologies, and operations.



### **CREATING SEAMLESS** CONNECTIVITY AND PASSENGER'S EXPERIENCE IN **URBAN MOBILITY PASSENGER**

new innovations in rail business model and make more efficient use of the existing infrastructure Among the locally developed innovations that are promoted to be commercially and technically ready for instant

• PIES (platform Intrusion Emergency Stop)

 PIDS (Passenger Information Display System) SCADA (Supervisory Control and Data Acquisition),

• Open Mobility application platform:

- Smart ticketing

- Smart navigation for daily commuter

**The Operator:** 

The Passenger:

Always Connected

Asset Management and Monitoring System

- Seamless journey planner

- Open Mobility application platforms:

### 1880-1900 **Early Beginning**

Building railway tracks in
Semenanjung and Sabah: Seberang
Prai, Perak, Selangor, Kuala Lumpur,
Seremban, Kota Bharu.
First railway track opened: Semenanjung: Taiping to Port – Weld on 1st Feb 1885.



**RAIL JOURNEY** 

### 1900-1950 **Great Expansion**

More railway track expansion in

Peninsular Malaysia until Singapore and in Sabah. Malaysia-Singapore Causeway



### built by English Electric Co, England (1957) KTMB Class 23 built by Hitach



1950-2000

Modernisation

Class 20 Diesel Locomotive

STAR LRT: 2 car set of PUTRA LRT (1998)

2000-2018 Improvement



**IN MALAYSIA** 



PRASARANA introduced



International Airport (KLIA)



ERL started service to KLIA2 on 2nd May 2014. 2018: KTM Subang – Skypark service started



July 2017: MRT line 1 Sungai Buloh to Kajang

2018-2030 **Current & Future** 



The 665-km East Coast Rail Link (ECRL) will traverse the East Coast states of Kelantan, Terengganu, and Pahang before linking the Klang Valley on the West Coast of Peninsular Malaysia. MRT 2 Putrajaya Line totaling 57.7 km (35 miles 68 chains) in length, includes 5.5 km (3.4 mi) annexed from the MRT Kajang Line, making it the longest metro line in Malaysia.

Coast of Peninsular Malaysia.

MRT 3 Circle Line with 50.8 km of rail alignment, a total of 33 stations, which will consist of 26 elevated and 7 underground stations will be built.

Penang LRT will connect Komtar and Bayan Lepas with 23 stations along the 26.8 km line. The rail line also includes a Georgetown-Butterworth LRT Line that will connect the island with the mainland.

The Malaysia High-Speed Rail (MyHSR) is a non-stop or express service that will connect Bandar Malaysia, Kuala Lumpur to Jurong East, Singapore and vice versa, and will not take more

**Key Railway Projects** 

