

REGIONAL COLLABORATION & PARTNERSHIP

TRANS-ASIAN RAILWAY NETWORK

*Source: Ministry of Transport Malaysia



- Members:**
- Malaysia
 - Myanmar
 - Thailand
 - Lao PDR
 - Singapore
 - Vietnam
 - Cambodia
 - China

Singapore-Kunming Rail Link

- Distance = 6,617km
- Alignment = Meter Gauge (1,000 mm)
- Proposed during 5th ASEAN Summit, Bangkok 1995
- To facilitate trade, tourism & inter-border movement
- To be linked with Trans-Asian Railway Network

EMPOWERING A CONNECTED ASEAN THROUGH RAIL INDUSTRY EXCELLENCE

Together, we envision a resilient, innovative, and integrated railway ecosystem across Southeast Asia. Malaysia Rail Industry Corporation (MARIC) champions collaboration among ASEAN nations to:

- Strengthen regional rail supply chains
- Promote technology and knowledge sharing
- Encourage localisation and industrial growth
- Drive sustainable and seamless cross-border rail connectivity

MALAYSIAN RAIL INDUSTRY ECOSYSTEM

Malaysian Rail Fact Sheet

- More than **80 local companies**
- Consists of more than **80% SMEs**
- Number of workers **>22,000 human capital**

Top 3 world Monorail manufacturer

Providing technical support and expertise to ASEAN countries and Middle East

Projections

- Projection of professional workers in 2030 **100,000 workers**
- Demand for rail technical manpower in 2022 **23,600 worker**

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

COME & JOIN US We facilitate and empower members and partners through nurturing, expanding, and building the high technology capacity of the Malaysian rail industrial ecosystem by creating opportunities and building competencies.

Membership Structure

TYPES OF MEMBERS

Permanent Members

Criteria:

- Government, Government Agencies, Rail Operators, Corporate Organisations, Public Sector, Academia, Research Institute
- Malaysia and International

Ordinary Members

Eligibility Requirement Criteria:

- Local equity/shareholding must be 51% or more;
- At least 70% of Senior Management and Executives are Malaysia Citizens;
- The company must be doing work related to the rail industry, products, services and / or its supporting industry

Associate Members

Eligibility Requirement Criteria:

- Non-Malaysian Controlled Company (Foreign)
- Registered Company in Malaysia
- The company must be doing work related to rail product manufacturing and services and/or its supporting industries

SMART RAIL HUB ECONOMIC ACTIVITIES



MARIC ALLIANCES

Scan this QR for MARIC Directory



CONTACT US

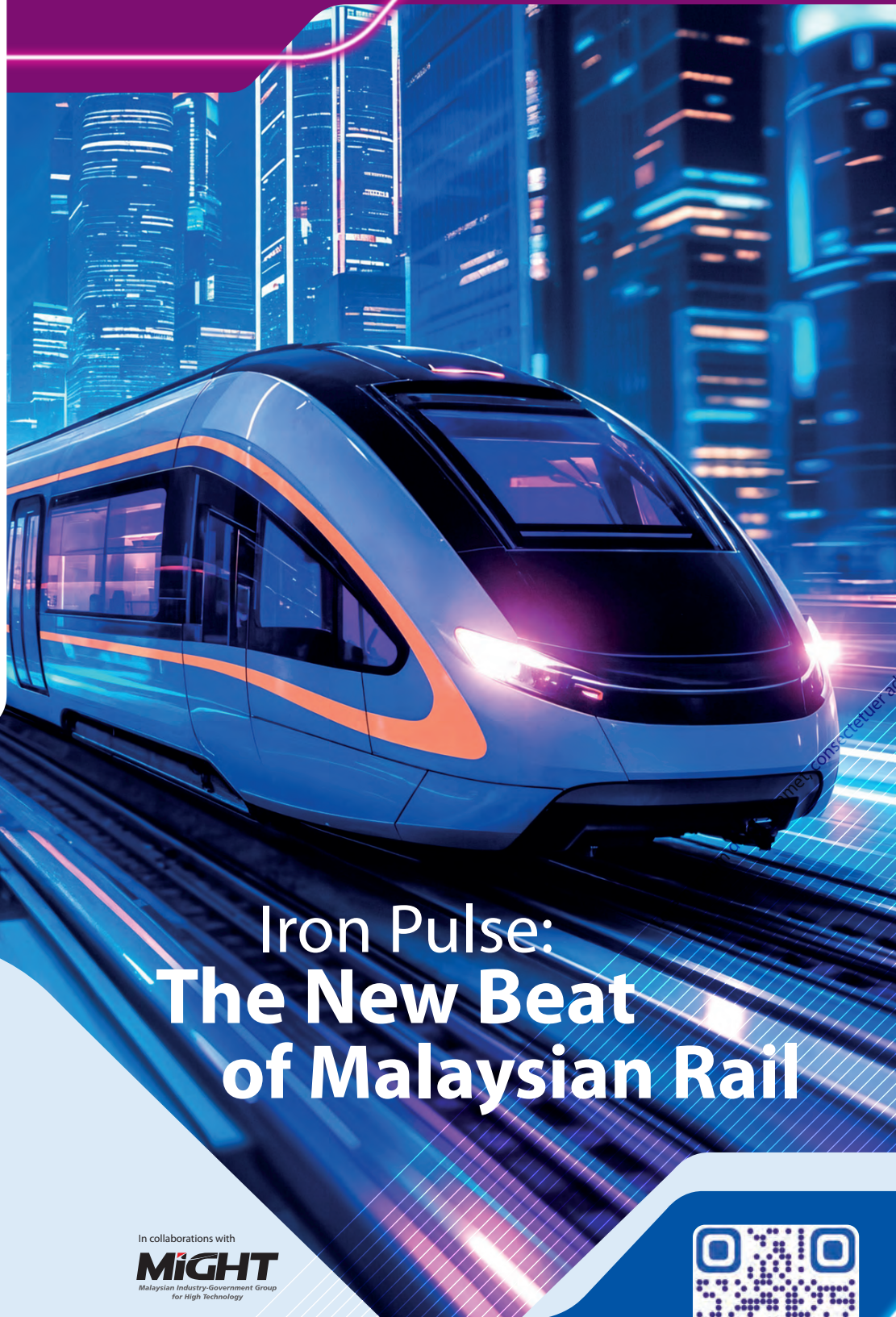
If you would like to become a MARIC member or to learn more about MARIC, kindly drop an email to: enquiry@maric.my

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



RAIL INDUSTRY HANDBOOK 2024/2025



Iron Pulse: The New Beat of Malaysian Rail

In collaborations with **MIGHT** Malaysian Industry-Government Group for High Technology



Let's build the future of ASEAN rail—united in purpose, powered by local expertise.

MARIC Offers End-to-End System Capabilities

MARIC PARTNERS

SIGNALLING SYSTEM

- CMC Engineering
- Global Rail
- Rasma Corporation
- Asiakom

PLATFORM INTRUSION SYSTEM

- PIES - AZTI Technology
- APG - Global Rail
- PSD - Techstore

ENGINEERING DESIGN & CONSULTANCY

- Infra Mobility
- Intereet Rail Engineering & Consulting
- HSS Integrated
- Key Direction
- Khairi Consult
- KL Consult
- Megajati Consult
- OPUS

OEMs PARTNER

- Huawei Technologies Malaysia
- SEEL Electronic & Engineering

SYSTEMS INTEGRATOR

- Berjaya Rail
- IJM Corporation
- MMC Engineering
- YTL Construction

COMMUNICATION SYSTEM

- Aim Solutions
- D'Amante
- EV Dynamics
- Recogine Technology
- Sapura Rail
- Willowglen
- XMT Technologies
- YFY Engineering
- CMC Engineering
- DOM Industries

POWER SUPPLY & DISTRIBUTION SYSTEM

- Info-matic Power
- Global Lightning
- Pestech
- Reltech
- VLP Engineering

- X Rails System
- YFY Engineering
- Mayura Bumi
- CMC Engineering
- Global Rail

AUTOMATED FARE COLLECTION

- IRIS Corporation
- Techstore Malaysia
- Teras Technology
- Rasma Corporation
- NSS IT

TRACK WORKS

- Asiakom
- Dhaya Maju Infrastructure Asia
- Emrail
- Lion Pacific
- Mastrak
- Trackwork & Supplies
- TWA Malaysia
- RC Asia

OTHER SERVICES

- M&E Services
- D'Amante
- Freight & Logistic
- Millennium Freight
- Nord Lock Washer Solution
- Mayura Bumi
- Train Simulator
- Xcel Itch
- Technology & Innovation Partner
- DreamEDGE

COLLABORATIVE OPERATOR

- ERL Maintenance Support
- Sarawak Metro

ROLLING STOCK

- Amantronic
- Artic Rail
- CKM Landas
- Destini
- DK Composite
- DOM Industries
- DreamEDGE
- ERL Maintenance
- Hartasuma
- Innoglass
- Majestic Engineering
- Malnaga
- Perencana Dingin
- Teknoware Asia
- UMW M&E

1880-1900 Early Beginning

- Building railway tracks in Semenanjung, Sabah, Seberang Prai, Perak, Selangor, Kuala Lumpur, Seremban, Kota Bharu.
- First railway track opened: - Semenanjung: Taiping to Port - Weld on 1st Feb 1885.
- Sabah: Weston to Beaufort in 1896.

1900-1950 Great Expansion

- More railway track expansion in Peninsular Malaysia until Singapore and in Sabah.
- Malaysia-Singapore Causeway Rail Track

1950-2000 Modernisation

- Class 20 Diesel Locomotive built by English Electric Co, England (1957)
- KTMB Class 23 Locomotive built by Hitachi, Japan (1983)
- STAR LRT: 2 car set of PUTRA LRT (1998)

RAIL JOURNEY IN MALAYSIA

2000-2018 Improvement



- The ERL KLIA Ekspres is an express airport rail link servicing the Kuala Lumpur International Airport (KLIA) that began operations April 14, 2002.



- Prasarana Berhad introduced 4-car LRT (2009).



- KTMB introduced SCS Class 92 (2012).
- ERL started service to KLIA2 on 2nd May 2014.



- July 2017: MRT line 1 fully operated from Sungai Buloh to Kajang.
- 2018: KTM Subang - Skypark service started.

2018-2030 Current



- 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.



- Sarawak Metro's ART system in Kuching is set to be Southeast Asia's first hydrogen-powered, trackless tram network. The system will span approximately 69.9 kilometers and comprise 35 stations across three lines: the Blue Line, Red Line, and Green Line.



- The Johor Bahru-Singapore Rapid Transit System (RTS) Link is a landmark cross-border light rail project connecting Bukit Chagar in Johor Bahru, Malaysia, to Woodlands North in Singapore. Spanning approximately 4 kilometers - 2.7 km in Malaysia and 1.3 km in Singapore.

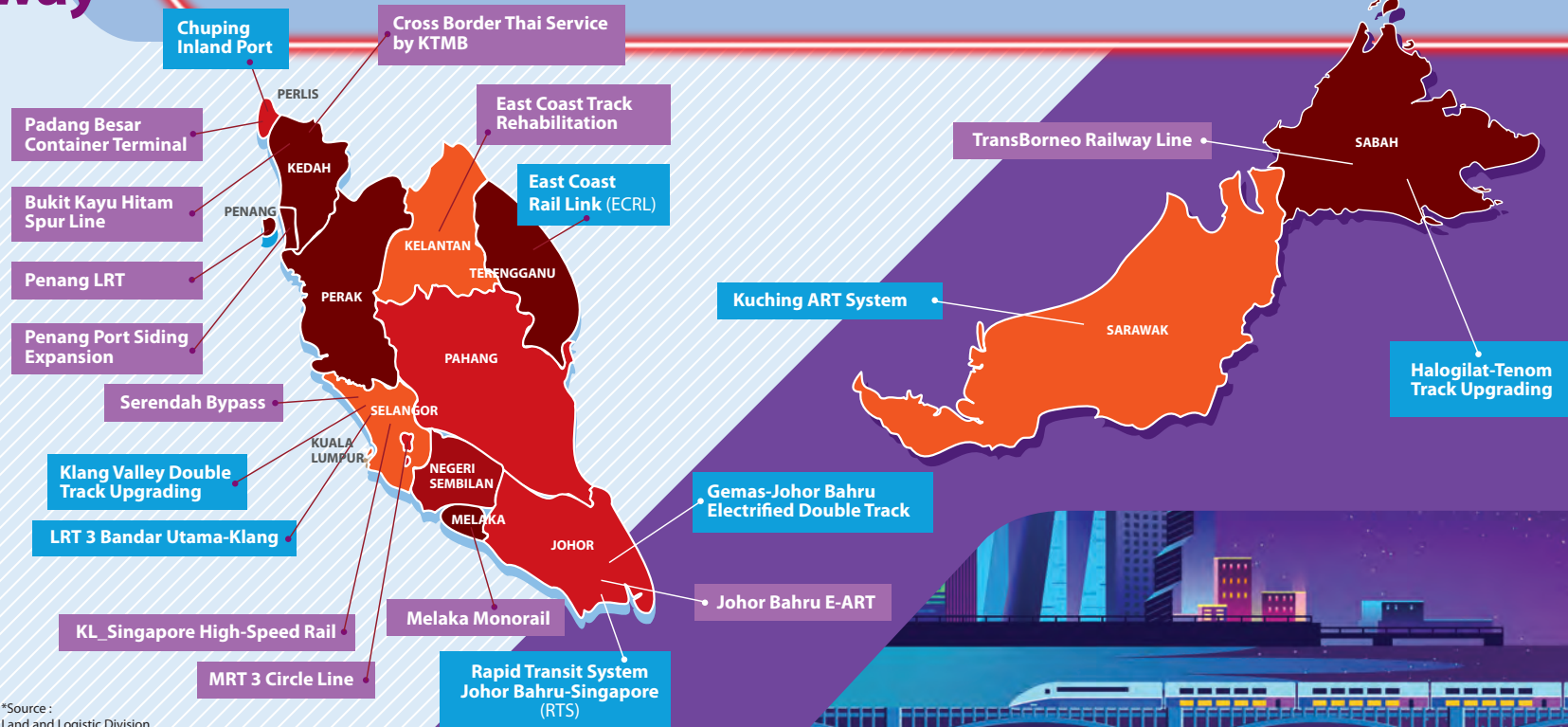


- The Electric Train Service (ETS) extension from Kuala Lumpur to Johor Bahru represents a significant advancement in Malaysia's rail infrastructure. Spanning approximately 192 kilometers between Gemas and JB Sentral, this electrified double-track project includes 11 stations across key districts such as Segamat, Kluang, and Kulai.



- 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.

Key Railway Projects



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.

With a growing network of around 70 organisations, MARIC is committed to promote collaboration across all levels of the rail supply chain to enhance productivity and deliver greater value. This supply chain encompasses a comprehensive network of processes, organisations, and activities involved in railway engineering, including design, procurement, manufacturing, construction, installation, testing, commissioning, maintenance, supply management, and operations. MARIC focuses on seven key systems engineering clusters: Rolling Stock, Signalling Systems, Telecommunication Systems (including SCADA), Power Supply and Distribution Systems (PSDS), Trackwork, Depot Equipment, and Automatic Fare Collection (AFC) Systems.

It involves creation of new sources of revenue by converting the assets into economic value.

RAIL ASSET MONETIZATION

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.

Target 1 Improve Revenue (fare & non-fare)

Strategy 1 Improve Revenue (fare & non-fare)

Strategy 2 Commercial exploitation of property

Target 2 Reduce Cost (capex & opex)

Strategy 3 Outsourcing and franchising operations

Strategy 4 Leasing and pools of assets (e.g. ticketing system, rolling stock, advertising)

Strategy 5 Big Data

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

It is time for MARIC to deliver 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 development are:

- PIES (platform Intrusion Emergency Stop)
- PIDS (Passenger Information Display System)
- SCADA (Supervisory Control and Data Acquisition), Asset Management and Monitoring System
- Open Mobility application platform:
 - Smart ticketing
 - Seamless journey planner
 - Smart navigation for daily commuter
 - Open Mobility application platforms:

The Passenger: Always Connected on the Journey

The Operator: Cost-efficient and digitalised

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.

COMMITTEE COUNCIL MEMBERS



PRESIDENT
Datuk Dr
Mohd Yusoff Sulaiman



Haniff Ghazali



Eena Khalil Lim



Hazwan Alif
Abdul Rahman



Datuk Mohamed
Razeek Md
Hussain



Dato' Ir
Mohamad Khairi
Ambran



Dr. Arvind Hari
Narayanan



Ir. Sharifah Azlina
Raja Kamal
Pasmah



Timothy John



Kijay Kimis



Dato' Indera
Ir. Zohari
Sulaiman



Mohd Rizal
Sapari



Mohamad
Asroll Mansor



Mansor Tahir