

East Coast Rail Link (ECRL): Value-adding Disruptor for National Logistics

8th of March 2024 Malaysia Rail Link Sdn Bhd

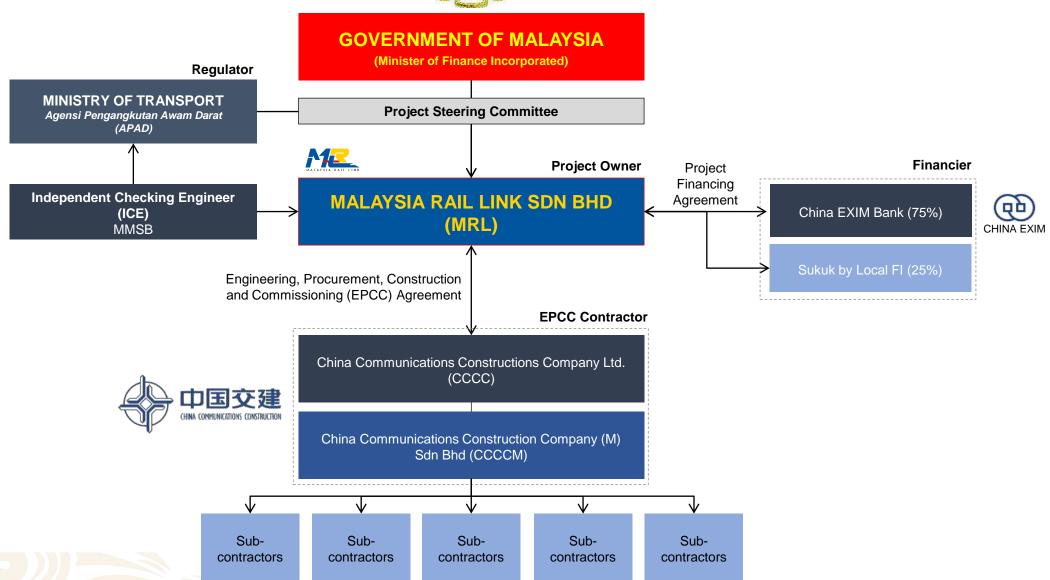


Introduction to ECRL



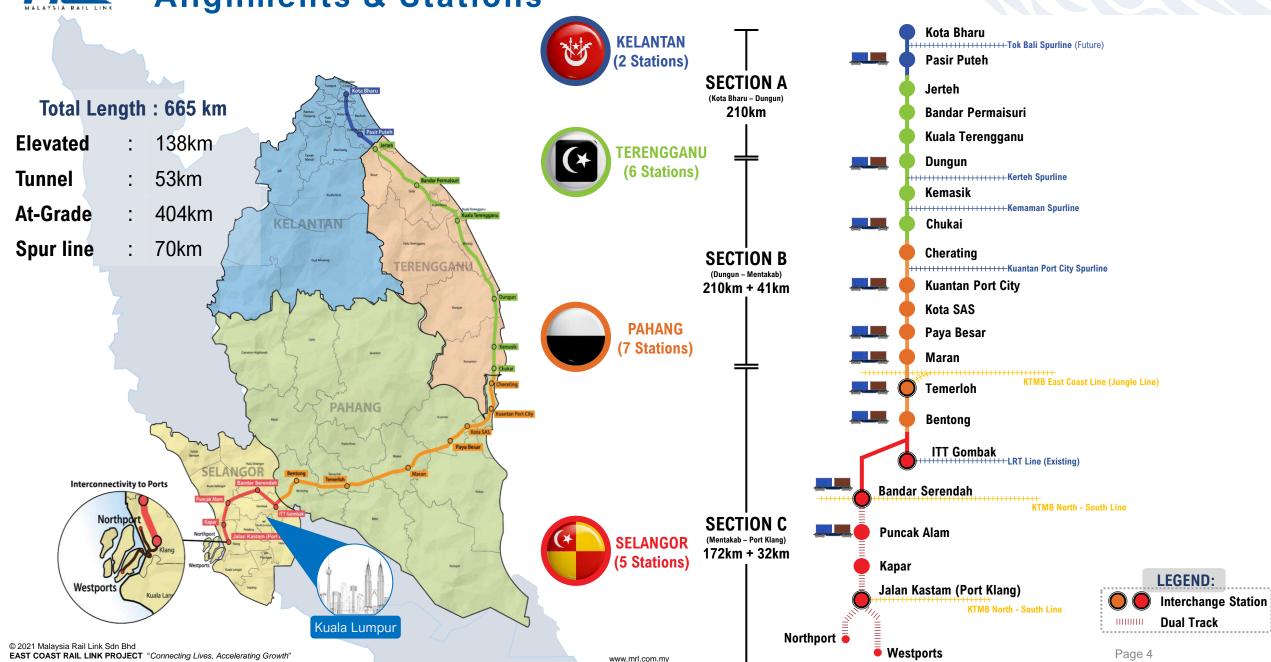
Project Management Structure





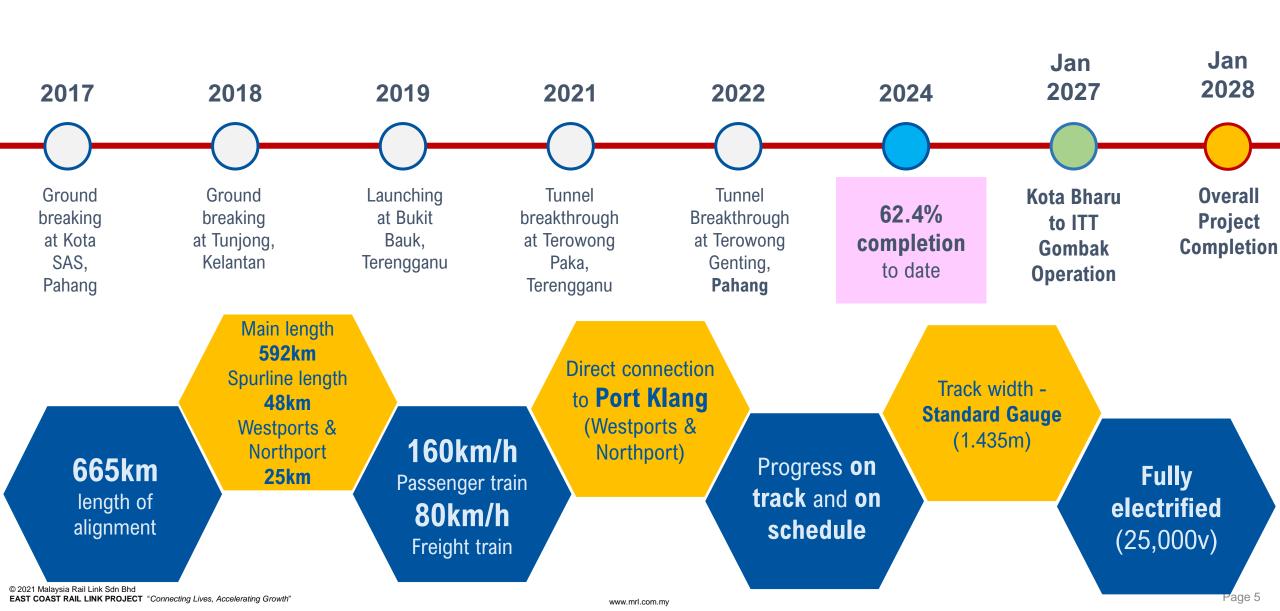


Alignments & Stations





Highlights & Snapshots





ECRL Rolling Stocks

Passenger Train



Axle model	Length	Width
Centralised Power	153m	3.3m

Operating speed	160km/h
Seating capacity	440



Axle model	Length	Width	
C0-C0	22.5m	3.1m	

Design speed	80km/h
Axle load	25T
Traction tonnage	3,500T



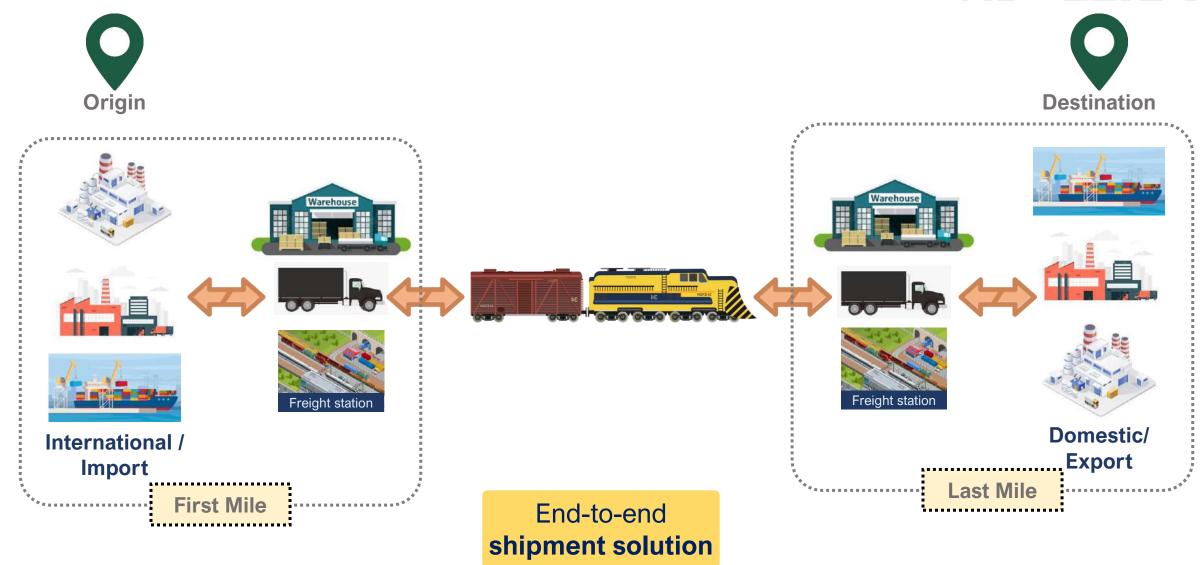
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ECRL's Sequence of Multi-modal Transportation





Net CO2 Emission Avoidance

Kota Bharu to ITT Gombak

Year		Total CO2e Emission Avoided (MT/Annum)		Total Avoided (MT/Annum)			Total Generated (MT/Annum)	Net CO2e Emission Avoided (MT	
	Car	Bus	Air	Trucks		Passenger Train	Freight Train		CO2e/Annum)
2024	109,450	4,533	25,534	186,927	326,443	48,714	18,016	66,730	259,713
2030	226,293	8,907	54,571	558,548	848,319	101,303	54,343	155,646	692,673
2040	374,159	18,519	71,752	693,433	1,157,863	162,820	66,553	229,372	928,490

ITT Gombak to Port Klang

Year		Total CO2e Emission Avoided (MT/Annum)		Total Avoided (MT/Annum) Total Avoided (MT/Annum)		Total Generated (MT/Annum)	Net CO2e Emission Avoided (MT		
	Car	Bus	Rail (KTMB)	Trucks	(111)	Passenger Train	Freight Train	()	CO2e/Annum)
2025	1,908	12	154	80,260	82,334	817	6,877	7,694	74,640
2035	2,257	15	183	138,937	141,392	968	11,807	12,775	128,617
2045	2,703	17	215	219,887	222,822	1,138	18,836	19,974	202,848

ECRL Regional Connectivity



Connections and Connectivity





ECRL Landbridge & East Malaysia Gateway

 This Intermodal transportation collaboration initiatives involves the seamless movement of goods facilitated by ECRL.

 It enables transportation of manufactured goods from Klang Valley to be shipped to East Malaysia (Sabah & Sarawak).

 The initiative involves rail and sea port operator, Kuantan Port Consortium, ensuring the seamless flow of goods to their intended destinations.

 Currently, the demand for shipping automotive products to East Malaysia (Sabah & Sarawak)





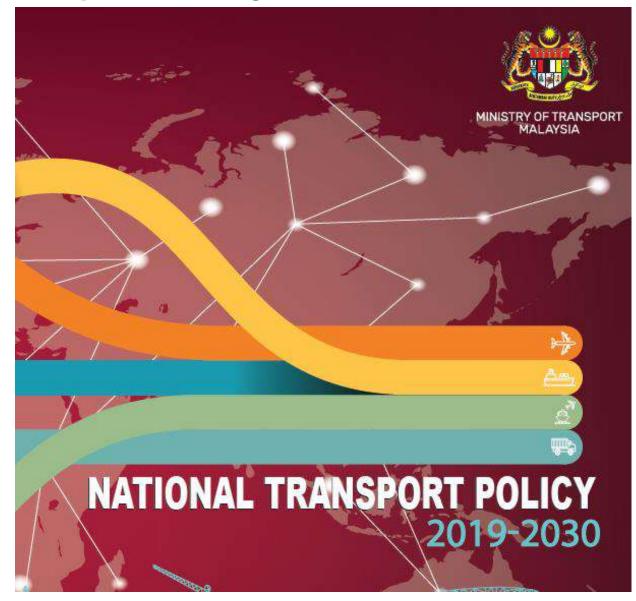
ECRL Extension from Kota Bharu (KB) to Rantau Panjang & KTMB Track Re-Opening from Pasir Mas to Rantau Panjang



ECRL Corridor Development



National Transport Policy





National Transport Policy - Policy Thrust 2

STRATEGY 2.2

INCREASE THE UTILISATION OF RAIL SERVICE FOR PASSENGERS AND GOODS

The current movement of goods by rail is only 30% of total railway track capacity, and less than 5% of land freight is transported by rail. Therefore, there is untapped potential for using rail to transport goods, especially for dangerous and hazardous materials. Globally, rail transportation of hazardous materials is recognised to be the safest method of moving large quantities of chemicals over long distances. Similarly, there is additional capacity on the existing KTM Komuter and intercity rail services which have the potential to be utilised.

Enhance road-rail intermodal connectivity to promote modal shift from road to rail

Objectives:

- · Encourage modal shift of freight from road to rail
- Optimise the use of existing rail infrastructure and assets
- Reduce greenhouse gas emission and road congestion
- Reduce number of heavy vehicles on roads



National Transport Policy – Policy Thrust 4

STRATEGY 4.3

ACCELERATE IMPLEMENTATION OF LOW CARBON MOBILITY INITIATIVES

Mobility, in particular private transportation, has traditionally been viewed as carbon intensive with significant efforts focused in mitigating fuel consumption and carbon emissions. Private transportation has led the way in developing low carbon alternatives such as hybrid and all electric vehicles, this in turn has spread to the commercial sector. Future policies take into account the need to increase the adoption rate of low carbon initiatives as well as planning for future infrastructure to minimise unsustainable consumption patterns.

Objectives:

- Reduce greenhouse gas (GHG) emission from transport sectors
- Increase adoption of energy efficient vehicles (EEVs) as a preferred mode of transport
- Increase utilisation of public transport and non-motorised transport



Maximizing the utilization of the ECRL rail service through a three-pronged strategy

Strategy		Description	Impact	Initiatives	Stakeholders
	Promote Modal Shift to Rail	Encourage the shift from existing mode of transport to rail transportation.	26 million mtpa for freight/cargo and5 million per annum of passenger by 2030	Commercial agreementsMarketing & promotionGovt Policy changes	 MRL-CCCC (OpCo) Multimodal operators (ie. Sea ports, logistic hubs, etc) Logistics companies
	Maximize Occupancy of Existing Industrial Parks	Increase and maximize the occupancy rate of existing industrial parks along ECRL corridor	 Current average occupancy rate is between 40% - 60%. Increase occupancy rate to 100%. 	 Trade missions Investment promotion and awareness Tax incentives 	 MITI ECERDC MIDA State Government MRL
3	New Development in Industrial, Commercial and Residential	Promote development of new development along ECRL corridor pivoting on sustainable heavy industries through EAPs.	 Industrial Parks/ Logistics hubs Hi-Tech Parks Transit-oriented development (TOD) 	 ECRL Corridor Land Use Masterplan (Plan Malaysia) Develop low carbon emission supply chain (ie. Bursa Carbon Exchange) 	MITIECERDCMIDAState GovernmentMRL

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EAST COAST RAIL LINK PROJECT "Connecting Lives, Accelerating Growth"

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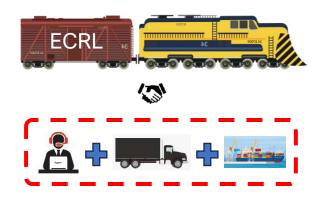
Request of Information (RFI) – Collaborative Business Proposals ECRL Freight Service

Objective

To identify strategic collaborative partners and freight forwarders; facilitating modal shift from road to rail

Timeline

No.	Month	Activities
1.	January 2024	RFI AdvertisementRFI Document Issuance
2.	February 2024	FMFF Briefing
3.	March 2024	RFI's deadline submission





Registration

As of 29th February 2024, the companies expressing interest in the RFI Exercise is **66 companies**.

Deadline

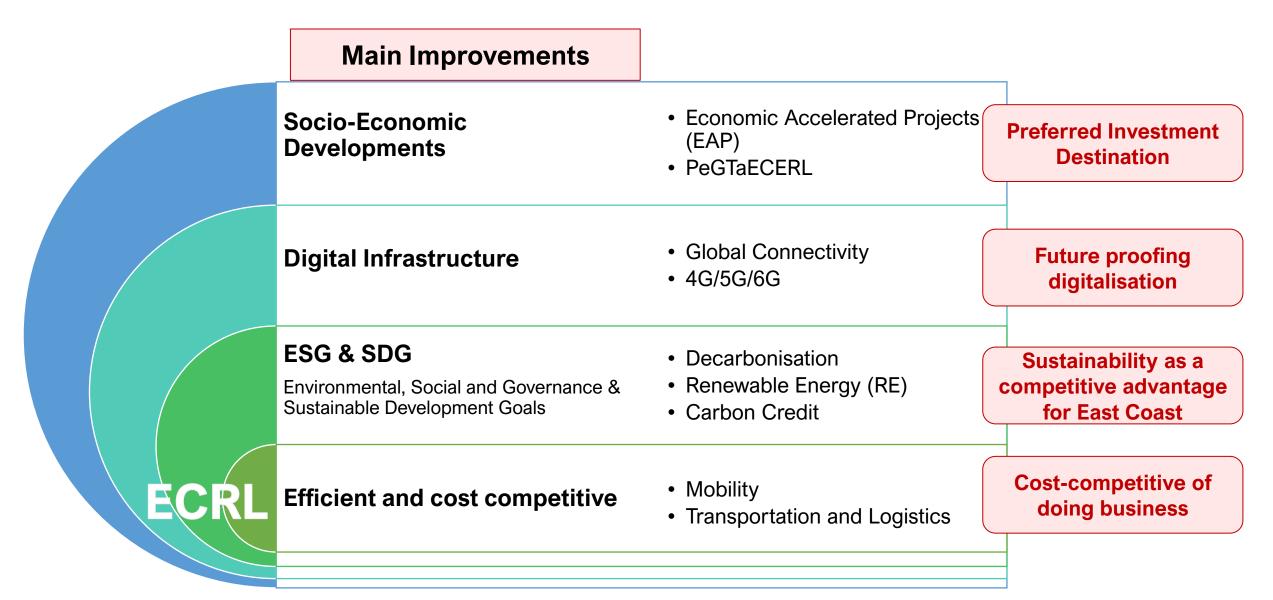
 The original deadline for RFI submission was on 26th February 2024 and has been extended to <u>11th March 2024</u> due to the overwhelming response.

RFI's Outcome

- Hoping to develop a list or freight forwarding and logistics companies, registered to collaborate with MRLSB to develop a new solution on rail transport for various cargoes along ECRL corridor
- To <u>capture customers</u> with lower volume and shorter distance <u>by enabling cargo consolidation and</u> <u>aggregation.</u>



Accelerating Socio-Economic Developments in the East Coast





Thank You

For enquiries, kindly contact:

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