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Global Mass Transit Report

Information and analysis on the global mass transit industry

On a Spending Spree

DOTr seeks 100 per cent budget hike for 2024

To expedite the progress of projects under the Build Better More program, the Department of Transportation (DOTr) of the Philippines has proposed a budget allocation of PHP214.13 billion for 2024. This is nearly twice the department's budget for 2023, which was PHP106 billion.

The Department of Budget and Management (DBM) has identified the transport sector as one of the 10 priority sectors under the national budget. Of the total allocation, the DOTr's share represents nearly 3.7 per cent of the Government of the Philippines' proposed spending in 2024.

(continued on page 2)

Rail Developments in Turkey

Expanding national and international networks

The current urban rail network in Turkey comprises four metro, 10 light rail transit (LRT), five commuter rail, and two tram systems.

These together span over 1,000 km, covering 576 stations across the country.

The urban rail network is planned to be expanded by a total of 235 km by 2025.

Further, the State Railways of the Republic of Turkey / Türkiye Cumhuriyeti Devlet Demiryolları (TCDD) plans to expand the high-speed rail (HSR) network length to around 5,000 km by 2025.

The expansions are planned to be financed through internal sources (46 per cent) and through external sources (53.5 per cent).

Existing urban rail system

Turkey's urban rail sector is being revived and expanded with the development of new LRT systems.

Table 1 gives the details of the current urban rail systems in Turkey.

(continued on page 10)

Electric Buses in Kenya

Innovative contracting models designed to drive growth

The transport sector accounts for 12 per cent of Kenya's emissions footprint, though the figure rises to 45 per cent in Nairobi, the capital. Matatus (privately owned minibuses used as shared taxis), two-wheelers (motorbikes), and three-wheelers (tuk-tuks) are the major means of public transportation in Nairobi, all of which account for up to 80 per cent of total carbon emissions each year.

In view of the above, it is imperative for Kenya to support the adoption of electric mobility.

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On a Spending Spree (contd..)

This will be used to support major ongoing projects, including the North–South Commuter Railway (NSCR) project and the Metro Manila Subway Project Phase I.

This focus on infrastructural development is aligned with the Philippine Development Plan (PDP) 2023–2028, andis also in consonance with the country's Medium-Term Fiscal Framework (MTFF) 2022–2028.

Major spending on rail projects

Nearly 80 per cent of the DOTr's proposed budget for 2024 has been earmarked for the construction and modernisation of various mass transit projects which are under different phases of development.

Figure 1 shows the main elements of the department's budget as well as its share in the total allocation.

Key projects that will receive financial support during the year include the NSCR, the Metro Manila Subway, the LRT Line 1 Cavite Extension project, the Philippine National Railways (PNR) South Long-Haulproject, and the MRT 3 Rehabilitation project.

Table 1 lists some of the railway projects and programs funded under the DOTr's 2024 budget.

The budget allocation for nearly all ongoing rail projects has beenincreased in 2024 as compared to 2023. Most of these projects are under construction, and availability of funds will be a key factor in ensuring the timely completion of the lines.

Figure 2 shows the year-on-year change in the budget allocation by the DOTr for rail projects.

Subsidy for MRT3

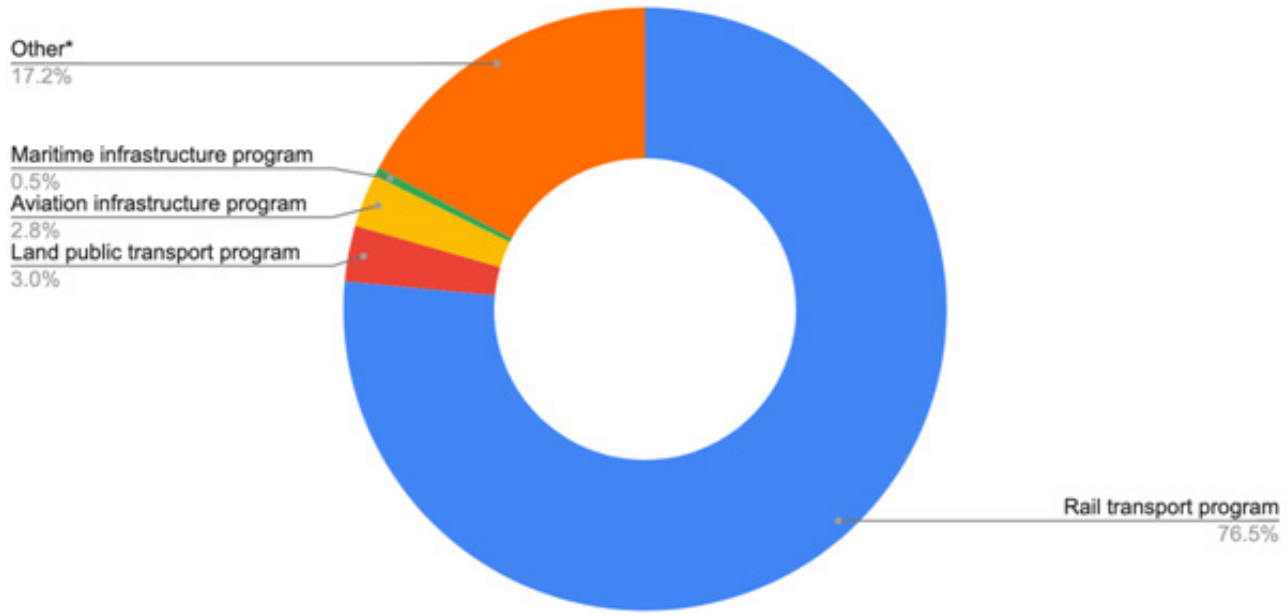
The DOTr's fare subsidy program for Metro Manila's MRT3 Line is aimed at keeping fares low in order to increase ridership on the urban transit system. Under the proposed 2024 National Expenditure Program (NEP), PHP6.08 billion has been allocated for MRT3, a 14.37 per centfall from theallocation in 2023.

Following fare hikes on LRT 1 and 2, in July 2023, the operator of MRT3 submitted a petition to increase fares on the line as well. If the petition is approved, the agency will need additional funds to continue subsidising 70 percent of the end-to-end fares of passengers. In light of thisadded expenditure, the 2024 allocation for the program might fall short.

MRT3 Rehabilitation project

In May 2023, the second phase of the MRT3Rehabilitation program started. This phase is aimedat increasingthe capacity of the line from 350,000 passengers per day to 500,000 passengers per day. The project will also address operational issues on the line, which faced multiple suspensions during 2023, as well as improve safety. The plans call for the procurement of rolling stock, installation of tracks,as well as the improvement of the signalling system, power

Figure 1: Key elements of DOTr's 2024 proposed budget



**This includes allocations forthe motor vehicle regulatory program and other divisions*

Source: Global Mass Transit Research

Table 1: Railway projects and programs funded under the DOTr's 2024 budget

Project	Details	Budget (PHP million)		% change
		2023 (actual)	2024 (proposed)	
Locally funded projects				
Subsidy for MRT3	Provision of fare subsidy on Manila Metro MRT3 Line	7,111	6,089	-14.37
Foreign-assisted projects				
MRT3 Rehabilitation project	Upgrades to the existing systems on MRT3 to boost passenger capacity	548	2,927	434.12
LRT Line 1 Cavite Extension project	Construction of an 11-km-long extension of LRT Line 1	2,745	4,661	69.80
Metro Manila Subway Project Phase 1	Construction of a 35-km-long section of the subway from Valenzuela City to the Ninoy Aquino International Airport (NAIA)	26,261	68,374	160.36
North–South Commuter Railway (NSCR) project	Construction of a 147-km-long passenger rail line in Luzon	74,107	76,344	3.02
Philippine National Railways (PNR) South Long-Haulproject	Construction of a 565-km-long rail line in South Luzon	1,078	3,080	185.71
MRT Line 4 project	Construction of a 12.7-km-long high- capacity line in Manila	0	1,000	NA*

**NA- Not applicable*

Source: Global Mass Transit Research

supply system, overhead catenary system (OCS), communications system, and depot and station equipment.

The project allocation of PHP2.92 billion is a steep increase from the PHP548 billion earmarked in the 2023 (NEP).

Further, around PHP10.29 billion has been allocated for operating the line, which includes the equity rental payable to Metro Rail Transit Corporation (MRTC), the owner of the line. The DOTr will stop remitting yearly equity to MRTC by the end of its build-lease-transfer contract in 2025. Till then, this will be a component of the department's budget.

Metro Manila Subway: Phase 1

The Metro Manila Subway project has received an allocation of PHP68.37 billion for 2024. This marks an increase of more than 160 per cent over the 2023 allocation. Most of the 2024 budget will be used to ensure that the construction, which started in May 2023, stays on schedule. Additionally, the DOTr expects PHP21.68 billion in right-of-way (ROW) and tax expenses during the year.

As of July 2023, work on the project was 33 per cent completed. Full completion of construction is scheduled for 2028, with the DOTr scrapping plans for the partial opening of the project in 2027.

Once operational, the 33-km-long underground line is expected to transport around 519,000 passengers daily.

North–South Commuter Railway System

The NSCR project will receive an allocation of PHP76.34 billion in 2024, accounting for more than 53 per cent of the DOTr's budget for rail projects. Most of the funds will be used to ensure that construction of rail projects stays on track to achieve the target completion date in 2028. Additionally, around PHP53.26 billion will be spent in 2024 to procure ROW.

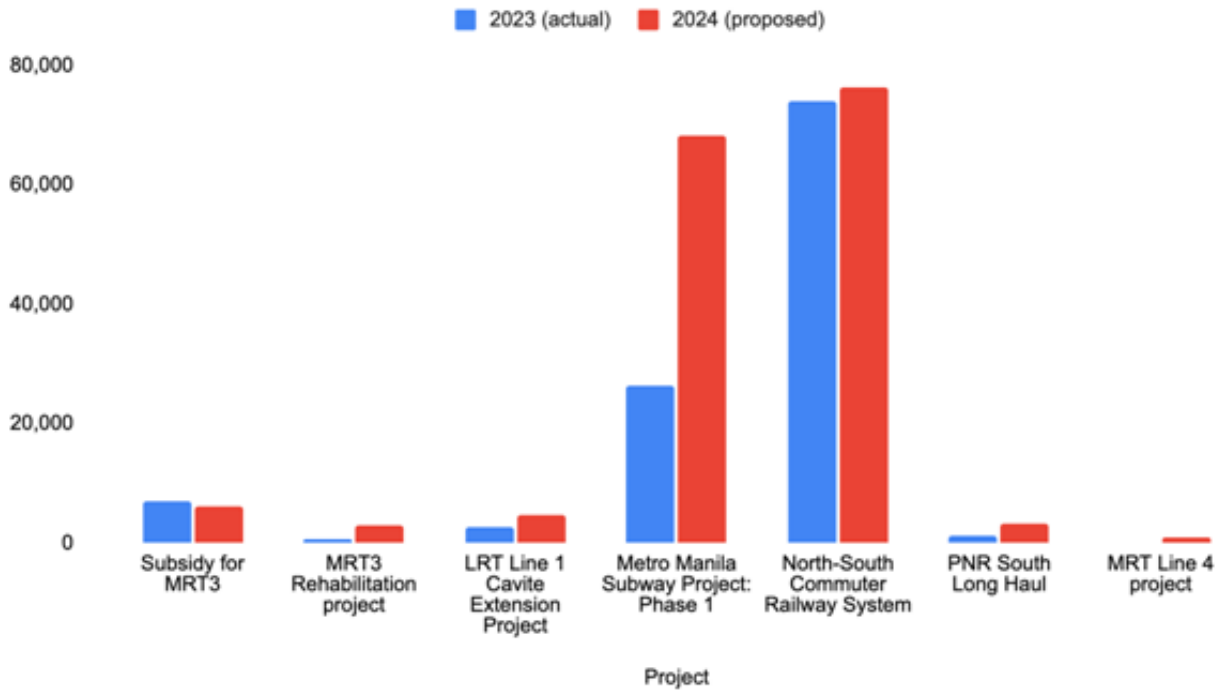
In July 2023, the last of the civil works contract for the line was awarded.

LRT Line 1: Cavite Extension

In 2024, the DOTr will spend around PHP4.66 billion to pay its share in the delivery of the Light Rail Transit Line 1 (LRT1) Cavite Extension Phase 1. As of July 2023, works on the project were 88 per cent completed and were on track for the partial operation of the line in September 2024. Phase 1 covers the 6.7-km-long section within the city of Parañaque.

As for the Cavite Section project, progress is slow due to delays in the delivery of ROW. This section will cover the last three stations of LRT1 Cavite Extension. The DOTr will use its 2024 budget to

Figure 2: DOTr's allocations for rail projects, 2023 and 2024



Source: Global Mass Transit Research

expedite the land acquisition process so that groundwork can commence.

PNR South Long Haul/PNR Bicol

The DOTr has allocated PHP3.08 billion for the PNR South Long Haul project, also known as the PNR Bicol project,in 2024. Most of the budget will be used for pre-construction works on the line. No timeline has been mentioned for the start of construction, although the rail project is on the government's priority list.

MRT Line 4

For 2024, the DOTr has allocated a budget of PHP1 billion for the MRT Line 4 project. Most of this allocation will be used for pre-construction works.

However, it is highly likely that the amount will fall short. In May 2023, it was announced that the total project cost of the line had increased to PHP87 billion from the previously estimated PHP59.3 billion due to design changes. Around PHP2.32 billion is required to carry out early works, including PHP1.03 billion that is required for site clearing, which is scheduled to commence in Q1 2024.

Meanwhile, between 2023 and 2024, the DOTr plans to award the project management consultancy contract and to announce bids for civil works and railway systems and trains. Construction is expected to commence by Q3 2024.

In short, a great deal of key developmentsare planned for the MRT Line 4 project in 2024. A PHP52.81 billion loan request to the Asian Development Bank (ADB)for financing the project has been pending since October 2022. Although the DOTr is expected to sign the loan agreement by the end of 2023, if there is a delay in securing the funds, early works might be pushed back.

Land transport systems get PHP6.4 billion boost

The second largest component of the agency's proposed budget for 2024 is the allocation of PHP6.4 billion for the Land Public Transportation Program.

Table 2 highlights some of the projects that will be funded under DOTr's Land Public Transport Program in 2024.

Figure 3 shows the share of key projects in the Land Public Transportation Program's proposed budget for 2024.

More than 60 per cent of the total allocation will go to the fuel subsidy program of the government. Around PHP2.5 billion has been earmarked for this program, the same amount as that allocated in 2023, to stabilise the effects of rising fuel prices. The effects of the Ukraine–Russia war on global fuel prices are expected to continue into 2024, so the DOTr's allocation will be crucial in keeping fares in check. The DOTr will also undertake some major bus projects in Metro Manila, Davao, and Cebu in 2024. Construction on the Cebu BRT commenced in early 2023 and will continue into 2024. The PHP919 million allocated for the EDSA Busway project will be used to privatise the transit system. The DOTr plans to award the contract for the feasibility study ofthe privatisation by Q3 2023. The results of the study will be available in the first half of 2024.

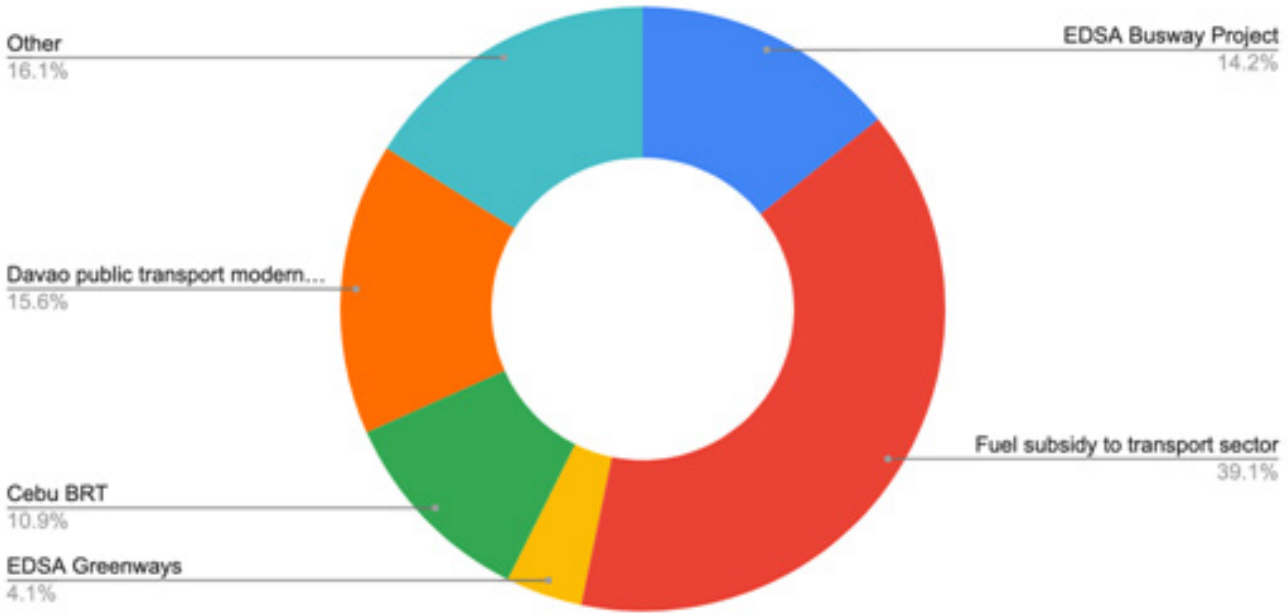
Table 2: Allocation for key land transport projects under the DOTr's 2024 budget

Project	Details	Budget (PHP million)		% change
		2023 (actual)	2024 (proposed)	
Locally funded projects				
EDSA Busway project	Construction of a busway concourse and expansion of the bus network	211	909.12	330.86
Fuel subsidy for transport sector	Subsidising fuel forthe public transport system to avoid raising fares	2,500	2,500	0
Foreign-assisted projects				
EDSA Greenways project	Construction of an elevated walkway at four MRT stations in Manila	774	262	-66.15
Cebu Bus Rapid Transit (BRT)	Construction of a 16-km-long BRT system in Cebu	700	700	0
Davao public transport modernisation	Deployment of around 1,100 electric buses and Euro-5 standard diesel buses	0	1,000	NA

**NA- Not applicable*

Source: Global Mass Transit Research

Figure 3: Share of key projects in the Land Public Transportation Program's 2024 budget



Source: Global Mass Transit Research

Finally, around USD1 billion has been earmarked in 2024 for the Davao public transport modernisation project, which is aimed at transitioning the city's bus fleet to electric and clean buses by 2025. At least 1,100 buses will be procured for the project, of which 400 will be e-buses while the remaining 700 will be Euro-5 standard diesel buses. Additionally, five bus depots and three bus terminals will be constructed as a part of the project.

Most of the procurement will be made in 2024, with some of the buses expected to commence operations within the year. Fullrollout is expected by the end of 2025. The DOTr will finance 40 per cent of the project.

Miscellaneous expenditure

The remaining budget for 2024 has been earmarked for the DOTr's regular programs, including general management, pre-feasibility and feasibility studies, engineering and design of transport infrastructure projects.

The DOTrhas also set aside PHP2.78 billion for ROW acquisitions for the different transport projects in 2024.

Public Utility Vehicle Modernisation program misses out second year in a row

The most surprising omission from the DOTr's budget for 2024 is its Public Utility Vehicle Modernisation (PUVM) program. Under this program, jeepneys across the Philippines will be modernised by installing a cashless fare collection system and a tracking device. Additionally, the modernised vehicles will be able to operate on sustainable and green fuels. In recent months, there has been considerable pushback from public utility vehicle (PUV) drivers due to the high per unit cost of these vehicles. In response, the DOTr announced that it will cover 28 per cent of the total cost of the transition. However, without a budget for the program for 2024, subsidies to modernise these vehicles will also need to be substantially reduced.

Challenges going forward

Despite the proposed increase in the DOTr budget for 2024, a massive chunk of it is expected to be spent mainly on two foreign-assisted rail projects. These are long-term projects that are expected to come online by the end of the decade. Compared to this, spending on shorter-term projects is much lower. Commuters have been calling for improvement in bus, PUV, and active transportation systems. However, most of these have been omitted or sidelined in the DOTr's annual budget for 2004.

Additionally, as the costs of raw material keep increasing because of recent supply chain issues, the costs of the projects under construction are likely to go up. This combined with the delays caused by slow acquisition of ROW will most likely stall or hamper progress on ongoing projects. Despite this, the DOTr's planned spending in 2024 is a step in the right direction and offers strong evidence of the agency's aim to significantly bolster the public transport infrastructure in the Philippines in the coming years.◆

Electric Buses in Kenya (contd..)

Kenya generates about 90 per cent of its electricity from renewable sources such as hydroelectric dams and geothermal wells. This facilitates the deployment of electric buses in Kenya.

Kenya is focusing on the deployment of electric buses by small companies and on the imposition of electric mobility tariffs to make ownership of buses affordable. The electric buses in the country are primarily supplied by two mobility startups – BasiGo and Roam. The two companies have been at the forefront of efforts to increase electric mobility in Kenya and have supplied a total of 18 electric buses so far, with each following a different contracting model.

Deployment of electric buses by BasiGo

In March 2022, BasiGo, in collaboration with Citi Hoppa and East Shuttle, commenced its pilot programme with the deployment of two buses in Nairobi. In November 2022, BasiGo raised funds worth USD6.6 million to initiate the assembly of electric buses in Kenya.

Current fleet size

The company's fleet currently comprises 16 BYD K6 model electric buses. The buses have been supplied to five bus operators. BasiGo's electric buses have covered over 265,000 km and have carried over 340,000 passengers as part of fleet operations by Nairobi bus operators since the inception of the project in March 2022.

Table 1 provides details of the electric buses supplied by BasiGo.

The buses have a range of 250 km and can be recharged in four hours. Each bus has a capacity to carry 26 seated passengers. Passengers can book tickets on BasiGo buses using the Jani mobile application (app). The app facilitates cashless payments and real-time bus updates.

In August 2023, BasiGo launched an electric bus model, E9 Kubwa. The model has a range of 400 km and offers 36 seating spaces and 18 standing spaces. The bus is equipped with Wi-Fi, USB charging points, and video surveillance cameras.

Financing

In October 2022, BasiGo signed an agreement with KCB Bank Kenya Limited to finance the procurement of electric buses for public service vehicle (PSV) operators in Kenya. Under the partnership, the financial group will guarantee 90 per cent of the start-up's electric bus purchases to promote electric mobility in Kenya. Customers can access integrated tracking gadgets, fleet management technology, and insurance financing. Also, BasiGo will deploy high-power, DC, fast-charging stations at strategic locations across Nairobi to support this expanded fleet.

Contracting model

BasiGo's Pay-As-You-Drive financing model allows owners to purchase the BYD K6 electric buses without paying the upfront cost of the expensive battery technology. This makes the upfront cost similar to the cost of a traditional diesel bus. BasiGo retains ownership of the bus's battery, which accounts for around 40 per cent of the cost of the bus.

The Pay-As-You-Drive battery subscription service covers leasing, charging, warranty, service, and maintenance. Operators are charged on a per km basis and pay directly to BasiGo. The upfront cost of a BYD K6 electric bus is KES5 million, with a Pay-As-You-Drive subscription of KES20 per km.

BasiGo's BYD K6 electric bus comes with an eight-year or 600,000-km battery warranty direct from the manufacturer.

Benefits of Pay-As-You-Drive financing model:

- A simple daily fee based on the number of kilometres driven
- Digital billing and payments directly between operators and BasiGo

Table 1: Details of electric buses supplied by BasiGo

Operator	Number of buses	Routes in Nairobi	Month of deployment
Super Metro SACCO	5	Central business district (CBD) to Kikuyu and CBD to Kitengela routes	February 2023
OMA SACCO	2	CBD to Buruburu route	February 2023
Metrotrans Limited	5	Utawala, Community-Upperhill, and Kiambu	May 2023
Embassava SACCO	4	Donholm and Nyayo Estate CBD route	June 2023

Source: Global Mass Transit Research

- Night charging of the battery
- All standard services and maintenance of the bus
- Free battery replacement in the event of any battery issue
- Dedicated customer care, roadside assistance, free software upgrades

BasiGo operates three charging sites across Nairobi with a capacity to charge 18 electric buses.

These sites have been developed in partnership with Kenya Power and Lighting Company to ensure compatibility with the electricity grid. Currently, BasiGo has a charging and servicing depot at Jomo Kenyatta International Airport in Nairobi.

Future plans

BasiGo aims to deploy 100 electric buses by the end of 2023. The company intends to deploy over 1,000 electric buses in Kenya by the end of 2025.

BasiGo also plans to assemble the buses locally on its own by the end of 2023. Currently, assembly is partially done in partnership with the Associated Vehicle Assemblers (AVA) Ltd. in Mombasa, Kenya.

Deployment of electric buses by Roam

The Roam, formerly known as Opibus, has deployed one electric bus so far. The bus can carry 90 passengers, has a range of over 360 km, and has been deployed on major routes such as airport transfers.

The bus has undergone four pilot schemes and is currently being trialled on Thika Road, a major highway in the capital. Roam aims to deploy 10 Roam Rapid buses by the end of 2023.

The company has bid for a government tender linked to the city's upcoming bus rapid transit (BRT) network, which could result in a contract for the deployment of up to 100 buses.

Roam has announced plans to target bus operators with larger fleets as part of a business-to-business model.

Device financing will be offered to interested Savings and Credit Cooperative Societies (SACCOs), with maintenance and charging infrastructure being offered by the company. Each Roam Rapid bus costs USD245,000.

The Roam Move bus, which is still in the prototype stage, is a smaller bus designed to compete with the traditional matatu market.

The operating cost of the bus is KES20 per km, compared to KES50–60 per km for a diesel equivalent.

Further, Roam has announced plans to bid for tenders across East Africa, in order to roll out the Roam Move buses across the region by the end of 2024.

Key recommendations

In order to accelerate the adoption of electric buses in Kenya, the following parameters ought to be considered by the local and national governments:

- Promote investment in key infrastructure to support public charging points and servicing of electric mobility. Electric vehicle (EV) charger specifications, corresponding electricity grid connection, requirement of ancillary infrastructure, cost of installation, and necessary spatial provision are important aspects to be considered in the creation of charging infrastructure.
- Enhance the efficiency of supply and the distribution of electricity through last-mile power connectivity and increase the uptake of renewable energy.
- Increase financing for local electric mobility startups and innovations by tapping global climate change funds.
- Provide policy and tax incentives to local assemblers of electric buses and minibuses.

Other recent developments

In April 2023, the Government of Kenya signed a KS50 billion (USD378 million) financing agreement with the European Commission to construct an electric BRT system in the country. Electric buses will be deployed on the upcoming Green Mobility–Nairobi Core BRT Line 3.

Of this sum, the European Union (EU) will provide KS6.47 billion (USD48.79 million) in grants, while the European Investment Bank (EIB) and the French Development Agency (AFD) will jointly fund the project with KS33.9 billion (USD255.64 million).

The Government of Kenya will provide the remaining KS9.5 billion (USD71.64 million).

The project will connect Kenyatta National Hospital to Dandora and will pass through Haile Selassie Avenue, Racecourse Road, Ring Road Ngara, and Juja Road.

The project has 10 main components, which include bus running ways, bus stations, a bus depot, station access supporting infrastructure, including pedestrian bridges; and fare collection and validation systems.

The other components are a fleet of 110 articulated buses, interchange stations for feeder bus services, park-and-ride facilities, a BRT control room, and a real-time passenger information system.

Going forward

The adoption of electric buses in Kenya is at a nascent stage. The country has an installed electricity generation capacity of 3,321 MW. Peak demand is 2,132 MW. The overnight off-peak demand is a low 1,100 MW. Electric buses are primarily charged during night hours when the electricity demand is low and the grid is reliable. The adoption of electric buses can help boost demand during the off-peak periods, increase revenue generation for Kenya Electricity Generating Company (KenGen), and optimise the use of renewables. According to industry experts, the replacement of a single diesel bus in Nairobi with an electric bus will help reduce the consumption of 20,000 litres of imported diesel fuel per year and will replace it with 50 MWh of renewable electricity produced in Kenya. Toxic air pollution from diesel tailpipe emission and carbon dioxide emission will also be reduced by 50 tonnes per year.

Government initiatives such as investment in charging infrastructure; provision of reliable supply of electricity through last-mile power connectivity; increased financing for local electric mobility startups; and provision of policy and tax incentives are necessary to accelerate the adoption of electric buses. The key challenge to electric bus procurement is the high upfront cost. BasiGo's Pay-As-You-Drive financing model is expected to address this challenge to a larger extent. The construction of BRT will also increase the deployment of electric buses, thereby replacing the matatus. Further, in July 2023, BasiGo collaborated with AC Mobility, Rwanda's provider of automated fare collection systems for public transport, to deploy 200 electric buses in Rwanda by the end of 2024. Kenya's electric bus contracting model is expected to be replicated in other countries in Africa as well.

(1 KES [Kenyan Shilling] = USD0.0068)◆

Global Mass Transit Report

Information and analysis on the global mass transit industry

The mission of **Global Mass Transit** is simple and modest - to provide decision makers with up-to-date and comprehensive information and analysis on the global mass transit industry. We cover metro, bus, light rail, regional rail, and inter-modal passenger transport.

Global Mass Transit keeps you informed on all the key developments, trends, and issues in the sector. It tracks major projects, contracts, and investments. It profiles leading mass transit authorities/operators and discusses their strategies. It reports on regulatory initiatives and examines their implementation. It provides the latest available data and statistics. It also features the views and perspectives of experts and top industry players.

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- **Policy Review:** An examination of recent policy and regulatory initiatives
- **Finance:** Developments in transport finance, PPP, debt, equity, M&A deals
- **Project Update:** Current status of key projects.
- **Spotlight:** A detailed look at a specific topic or area of interest
- **Company News:** News on equipment and service providers
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Rail Developments in Turkey (contd..)

Figure 1 depicts the share of railways in different cities in Turkey.

Istanbul has the largest share of 35.4 per cent of the railway network in the country, followed by Izmir with a share of 16.6 per cent and Ankara with a share of 10.4 per cent.

The first international urban rail network, Line M11 Gayrettepe–Istanbul Airport–Halkalı Metro Line, commenced passenger operations in January 2023.

The line spans 37.2 km, connecting Istanbul Airport to Kâğıthane (European side), and covering seven subway stations.

The line was constructed at an investment of EUR999.8 million.

Capital Projects/Extensions

Domestic extensions and capital projects

Almost all the existing systems are planned to be expanded and three new lines are planned.

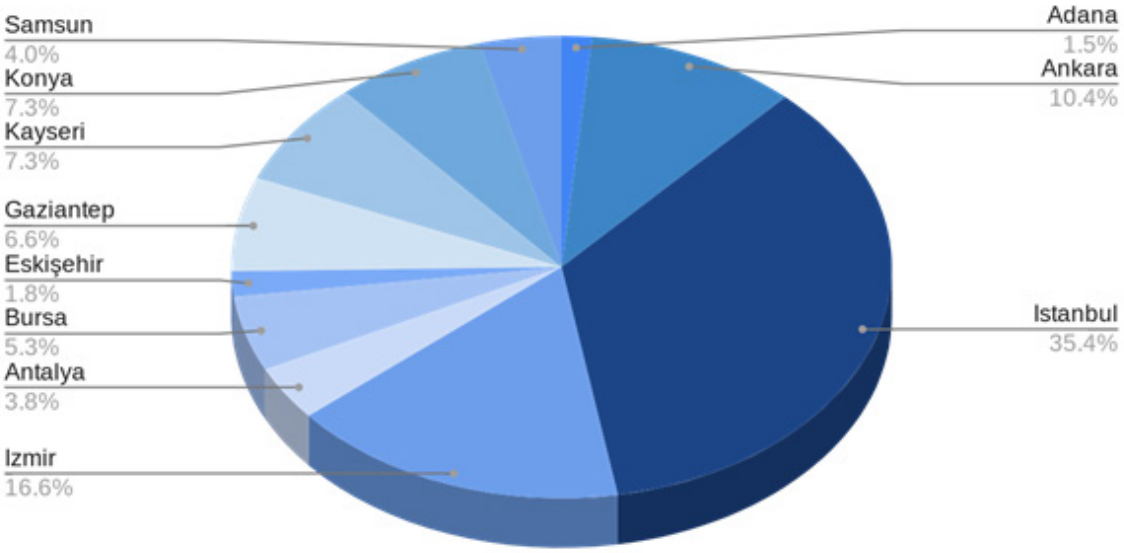
Among the metro systems, Istanbul has the most extensive network expansion plans. Table 2 gives the details of the upcoming networks.

Table 1: Existing urban rail systems in Turkey

City	System	Stations	Number of stations	Network (km)
		Metro System		
Adana	Adana Metro	Hastane–Akıncılar	13	13.5
Ankara	Ankara Metro	Kızılay–Gazino	12	46.6
Istanbul	Istanbul Metro	Yenikapı–Kargo Terminali	137	200
Izmir	Izmir Metro	Alsancak–Üçkuyular	17	20.1
		LRT		
Ankara	Ankaray	Dikimevi–AŞTİ	11	8.53
Antalya	Antray	Kepez–Muratpaşa	16	30.1
Bursa	Bursaray and Bertram	Bursa–Marmara	36	48
Eskişehir	EsTram (Eskişehir Tramvay)	Çankaya–Çamlıca	24	16
Gaziantep	Gaziantep Tram	Courthouse–Gaziantep Railway Station	46	35.1
Istanbul	Istanbul modern tramways	Kadıköy–Bahçekapı	67	44.7
Izmir	Izmir Tram	Halkapınar–Fahrettin Altay	33	21.3
Kayseri	Kayseray	Organize Sanayi–İldem 5	3	67
Konya	Konya Tram	Aladdin–Courthouse	41	41
Samsun	Samsun Tram	OMÜ Yurtlar–Stadyum	43	36.5
		Commuter Rail		
Izmir	iZBAN	Adnan Menderes Airport–Ulukent	41	110
Istanbul	Marmaray	Gebze–Sea of Marmara	40	76.6
Ankara	Başkentray	Sincan–Kayaş	24	37
Gaziantep	Gaziray	Baspinar–Taslica	16	25
Konya	Konyaray	Konya Organize Industry–Yaylapın	19	26
		Nostalgic Tramway		
Istanbul	Istanbul Tram	Taksim–Moda	10	1.6
Antalya	Antalya Tram	Zerdalilik–Müze	11	4.7

Source: Global Mass Transit Research

Figure 1: Share of railway network across different cities



Source: Global Mass Transit Research

Table 2: Upcoming network

Project	Project type (expansion/ new system)	Project developer	Total length (km)	Number of stations	Expected date of opening
Ankara Metrorail Project - Dikimevi–Natoyolu Metro Line	Expansion	The Electricity, Gas, Bus General Directorate (EGO) is the operator and the Ankara Metropolitan Municipality (AMM) is the developer.	7.40	8	2028
Ankara–Izmir HSR Project	New system	The project is owned by the General Directorate for Infrastructure Investments (AYGM) of the Republic of Turkey, Ministry of Transport and Infrastructure and will be operated by the Turkish Railways (TCDD) upon commissioning.	503.00	7	2025
Bandırma Bursa Osmaneli High Standard Railway –Bandırma–Balıkesir to Bursa Section	New system	The line will be developed by Turkey's Ministry of Transport and Infrastructure via the General Directorate for Infrastructure Investments (AYGM).	95.00	4	To be announced
Bandırma Bursa Osmaneli High Standard Railway – Bursa to Osmaneli Section	New system	The line will be developed by Turkey's Ministry of Transport and Infrastructure via the General Directorate for Infrastructure Investments (AYGM).	106.00	3	2025
Çerkezköy–apıkule Railway	New system	The Ministry of Transport and Infrastructure via the General Directorate for Infrastructure Investments will develop the line.	152.91	To be announced	2025

Project	Project type (expansion/ new system)	Project developer	Total length (km)	Number of stations	Expected date of opening
Istanbul Metro Line M5 Extension (Çekmeköy–Sultanbeyli)	Expansion	The Istanbul Metropolitan Municipality is the developer and İstanbul Ulaşım A.Ş. is the operator	10.90	8	2024
Istanbul Metro Line M10 (Pendik Merkez–Fevzi Çakmak)	Expansion	The Istanbul Metropolitan Municipality is the developer and İstanbul Ulaşım A.Ş. is the operator.	12.00	6	2025
Istanbul Metro Line M12 (Ümraniye–Göztepe)	Expansion	The Istanbul Metropolitan Municipality is the developer and İstanbul Ulaşım A.Ş. is the operator.	13.00	11	2024
Istanbul Metro Line M1B (Kirazli–Halkali Metro Line Extension)	Expansion	The Istanbul Metropolitan Municipality is the developer and İstanbul Ulaşım A.Ş. is the operator.	9.70	9	To be announced
Ispartakule–Çerkezköy Railway Project	Expansion	The Ministry of Transport and Infrastructure and the General Directorate for Infrastructure Investments will develop the line.	67.00	To be announced	To be announced
Izmir Metro Üçyol–Buca Line (Buca Metro)	New system	The İzmir Metropolitan Municipality will develop the line.	13.50	11	2026
Konya Metro Line 1	Expansion	The Konya Metropolitan Municipality is overseeing the development.	21.00	22	To be announced
Konyaray Suburban Rail Line	New system	The State Railways of the Republic of Turkey (TCDD) and the Konya Metropolitan Municipality will jointly develop the line.	26.00	19	2025
Mersin Metro/ Mezitli–3 Ocak underground Metro Line	New system	The Mersin Metropolitan Municipality is developing the project.	13.40	11	To be announced
Yerköy–Kayseri high-speed line	Expansion	TCDD Taşımacılık A.Ş. is overseeing the development of the project.	142.00	2	2025

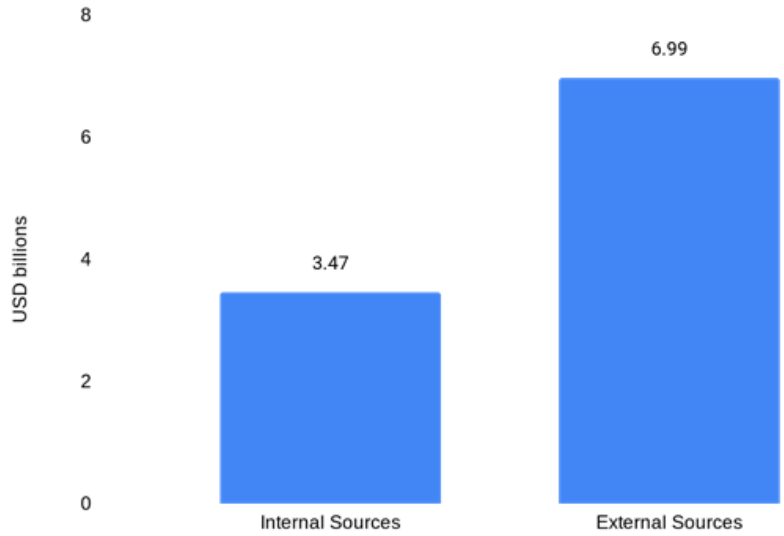
Source: Global Mass Transit Research

Table 3: Key projects with investment and funding details

Project	Capital cost (USD million)	Sources of funds
Ankara Metrorail Project – Dikimevi–Natoyolu Line	338.69	In September 2022, the European Bank for Reconstruction and Development (EBRD) granted a EUR125 million senior loan to the Ankara Metropolitan Municipality (AMM) for the construction of the line. In January 2023, an additional TL6.4 billion (EUR320 million) was approved by the Government of Turkey for the project.
Ankara–Izmir HSR Project	5,750.80	In March 2022, the British government announced that it would provide a loan of EUR2.1 billion to finance the line. The financing is being provided by Credit Suisse and Standard Chartered Bank and will be guaranteed by UK Export Finance (UKEF) through its Buyer Credit Scheme.
Bandırma Bursa Osmaneli High Standard Railway Bandirma – Balıkesir to Bursa Section	1,393.70	In December 2021, a green financing deal worth EUR1.24 billion (USD1.40 billion) was signed to fund the development of the entire Bandırma Bursa Osmaneli High Standard Railway line by Standard Chartered Bank. The Swedish Export Credit Agency (EKN) is also considering a guarantee for the financing of equipment to the railway project.
Bandırma Bursa Osmaneli High Standard Railway – Bursa to Osmaneli Section	1,454.22	In December 2021, a green financing deal worth EUR1.24 billion (USD1.40 billion) was signed to fund the development of the entire Bandırma Bursa Osmaneli High Standard Railway Line by Standard Chartered Bank. The Swedish Export Credit Agency (EKN) is also considering a guarantee for the financing of equipment to the railway project.
Çerkezköy–Kapıkule Railway Line	624.08	The EU has announced a EUR275 million grant that supports the implementation of the project.
Istanbul Metro Line M5 Extension (Çekmeköy–Sultanbeyli)	352.00	The project will be financed through Eurobonds worth EUR110 million and a EUR60 million loan from Deutsche Bank.
Istanbul Metro Line M10 (Pendik Merkez–Fevzi Çakmak)	241.00	The project will be funded by EUR120 million in external financing.
Istanbul Metro Line M12 (Göztepe–Atasehir–Ümraniye line)	699.95	In October 2022, IMM received an additional loan of EUR75 million from the EBRD for the Göztepe–Atasehir–Ümraniye line metro line project. The project had previously secured loans worth EUR175 million from the bank in 2019.
Istanbul Metro Line M1B Kirazli–Halkali Metro Line Extension	689.00	The project will be financed through Eurobonds.
Ispartakule–Çerkezköy Railway Project	840.30	The Asian Infrastructure Investment Bank (AIIB) will provide a EUR300 million (USD338 million) loan for the Ispartakule–Çerkezköy railway project. This is in addition to the EUR150 million loan from the EBRD. The Government of Turkey will bear up to USD311.5 million of the project cost.
Izmir Metro Üçyol–Buca Line (Buca Metro)	765.00	The project will be funded through external debt up to EUR490 million to be provided by AIIB (up to EUR125 million), EBRD (EUR125 million), AFD (EUR125 million), and other lenders (up to EUR115 million). The remaining 24.6 per cent of the project cost will be borne by the municipality.
Konya Metro Line 1	1,296.30	Funding was expected to be provided by the Government of China. Negotiations are ongoing.
Konyaray Suburban Rail Line	327.41	Not available
Mersin Metro/ Mezitli–3 Ocak underground Metro Line	Not available	The issuing of a TRY900 million bond has been authorised by the municipality to cover the cost of the project. However, the signature of the loan approval required for the financing of the metro project has not been issued by the Ministry of Treasury and Finance for 17 months.
Yerköy–Kayseri HSR Line	2,856.60	In May 2023, external financing worth EUR1.2 billion was secured for the project.

Source: Global Mass Transit Research

Figure 2: Distribution of funds for planned railway projects



Source: Global Mass Transit Research

Upcoming investments and funding

More than USD4 billion is planned to be invested. Table 3 depicts the total capital outlay for new network additions.

Figure 2 depicts the distribution of funds by the internal and external sources of funds for the planned railway projects.

Further, UKEF, the UK Government's export credit agency, plans to invest EUR781 million in a new HSR in southern Turkey.

The project will be supported by UKEF in partnership with JP Morgan, ING, and BNP in developing the existing rail link between the cities of Mersin, Adana, Osmaniye, and Gaziantep.

Once the 286-km-long HSR is completed, the route will be electrified and the existing diesel trains will be replaced.

Recent developments

For domestic network:

- In August 2023, TCDD announced the completion of the 18-km-long tunnel on the Bahçe–Nurdagi rail line.

  The tunnel will serve the new HSR service, connecting Bahçe and Nurdagi as part of the Adana and Gaziantep rail network.

  The HSR service is expected to be operational in 2025.

- In August 2023, the Ministry of Transport and Infrastructure announced the construction of a new 286-km-long electric HSR network connecting Gaziantep to Mersin, and other ports and industrial zones in Adana, Hatay, Diyarbakır, Şanlıurfa, and Central Anatolia. The electric railway network will replace the existing diesel trains.

  The project is estimated to cost USD1 billion and is jointly funded by UKEF and the Ministry of Transport and Infrastructure.

  UKEF will provide USD850 million in loan guarantees and the Ministry of Transport and Infrastructure will provide a grant of USD195 million.

  The Rönesans Holding group has been appointed as a contracting agency to deliver the project.

- In June 2023, İzmir Banliyö Sistemleri A.Ş. (İzban) awarded a contract worth TRY74.3 million to 3 El Grup Enerji Madencilik İnşaat A.Ş. for the construction of two stations on the 136-km-long İzmir Suburban Rail Line, taking the total number of stations to 43.

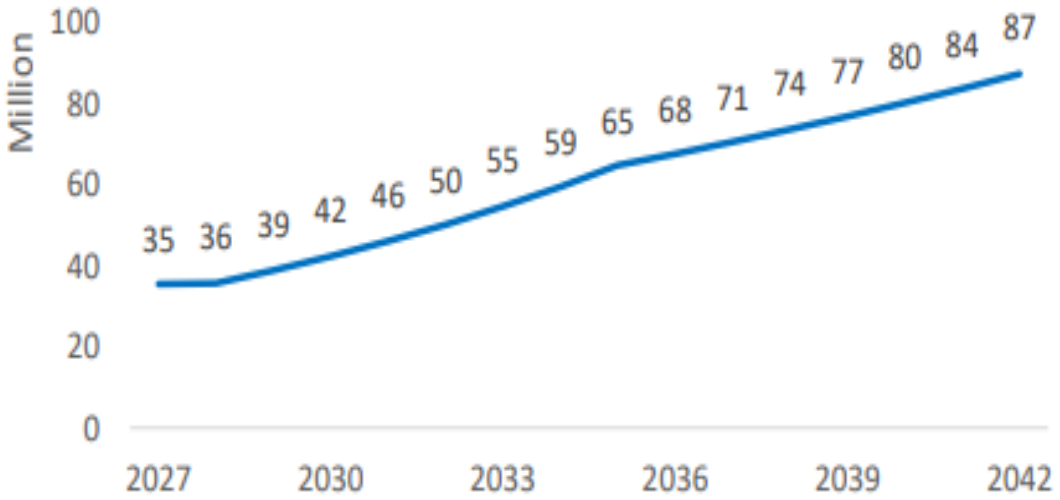
  Lale Mahallesi station will be developed between the existing Şirinyer and Kemer stations.

  This will help improve access to the upcoming 13.5-km-long driverless Üçyol–Buca Metro Line which will be integrated with the İzmir Suburban Rail Line at Şirinyer by 2026.

  İzmir Kâtip Çelebi University station will be developed between Egekent and Ulukent stations.

  The scope of work includes implementation of civil works and electro-mechanical works, including modification of the existing electrification system and landscaping. Construction works are expected to be completed by 2025.

Figure 3: Projection of passenger operations for Turkish Railways, 2027–2042



Source: Investment Office of the Presidency of the Republic of Türkiye

For international extensions:

- In August 2023, the designing phase for the metroline connecting Turkey to Iraq was completed.

  The line will span 1,175 km, connecting the southern port of Faw in Iraq to the Turkish port of Mersin on the Mediterranean Sea.

  The railway corridor through Iraq will be 1,200 km long and will cross Basrah, Diwaniya, Najaf, Karbala, and Mosul to reach the border with Turkey.

  The project will have both passenger and freight operations. The line will be completely electrified.

  Further, there is a plan to reopen the section from Mosul to Gaziantep.

- In July 2023, the final phase of the HSR project connecting Turkey to Bulgaria commenced construction on the Halkali–Ispartakule tunnel.

  The Halkali–Kapikule Railway Project began in 2019. It is the first part of the Asia–Europe Railway Corridor.

  The line will span 229 km, connecting to the Trans-European Transport Network (TEN-T).

  The final section of the line will be built by a consortium of Gülermak Ağır Sanayı İnşaat ve Taahhüt A.Ş., Yapı ve Yapı Inşaat, and Taşyapı Inşaat, at an investment of USD223 million.

Going forward

The railways projections are expected to grow because of the transferring of transport density from road to railway. Passenger operations are expected to grow due to shortened travel time and faster and more comfortable travel.

Figure 3 depicts the expected rise in the passenger operations of Turkish Railways by 2042.

Conclusion

Turkey's rail market is a major hub for investment and has registered steady growth for many decades. The government plans to expand the urban rail system to provide opportunities for both investors and suppliers.

Further, the rail market outlook for the next two decades is positive, predicting growth in investment, increase in upgradation and electrification of rolling stock, and expansion in passenger operations.

This will result not only in the overall growth of the rail sector but will also boost Turkey's economy.

(1 EUR [Euro] = USD1.07; 1 TRY [Turkish Lira] = USD0.04)◆

North America

TTC launches contactless payment, Canada

The Toronto Transit Commission (TTC) has launched a contactless payment service allowing passengers to tap and pay using their debit card, credit card, smartphone, and smartwatch.

The service is available for adult tickets. The TTC plans to extend it to discounted senior and youth tickets soon. The Interac Debit contactless payment service is available on GO Transit, UP Express, Brampton Transit, Burlington Transit, Durham Region Transit, Hamilton Street Railway, MiWay in Mississauga, Oakville Transit, York Region Transit, and several other paratransit options.

BC Transit to adopt AVL technology for Comox Valley Transit System, Canada

BC Transit has announced plans to adopt NextRide technology for 17 buses operating under the Comox Valley Transit System. The technology consists of automatic vehicle location (AVL) hardware, which can assist in real-time tracking, predict arrival time, and locate the nearest stops. Users can access the information through the Transit mobile app and website. The total cost of the upgrade was USD16.8 million. The funding was provided by the federal and state governments, along with local sponsors.

Burlington and Quinte West cities to transition to ZEB fleet, Canada

The City of Burlington and the City of Quinte West have announced plans to transition to a zero-emission bus (ZEB) fleet. The Government of Canada has allocated CAD6.19 million through the Zero Emission Transit Fund (ZETF) to support the development and execution of the transition plan in the two cities. The funds will be utilised to complete planning activities such as feasibility, implementation, and market studies to support the future procurement and deployment of zero-emission buses and related infrastructure.

(1 CAD [Canadian Dollar] = USD0.73)

MTA launches contactless payment service, US

The Metropolitan Transportation Authority (MTA) in New York City has launched a contactless fare collection system, OMNY, on the Roosevelt Island Tramway. The system follows a seven-day fare-capping program.

The Roosevelt Island Tramway spans 1 km and connects Roosevelt Island to Manhattan and serves 6,000 passengers daily.

Santa Cruz Metro to purchase hydrogen fuel electric buses, US

Santa Cruz Metro plans to purchase 57 hydrogen fuel electric buses. The procurement is in line with the commitment to transition to zero-emission buses by 2040. The procurement is due for approval from the board. Post approval, the delivery of the buses is expected in a year.

MCTA launches new mobile app for online booking, US

The Monroe County Transportation Authority (MCTA), also known as the Pocono Pony, in Pennsylvania,has launched a mobile app in partnership with Via for transit ticketing. The system begins online booking services from September 1, 2023. Users can book their rides from Monday to Friday from 6.30 AM to 6.30 PM from the app.

The service is available at both zones, the Tri-Boro Connector and the Pocono Summit Connector.

GTA develops mass transit plan, US

The Greensboro Transit Agency (GTA) in North Carolina plans to develop a mass transit plan called the Long-Range Transit Plan- GOBORO, by 2045. The plan seeks to increase the bus speed on Route One, expand the network, add crosstown routes, and undertake infrastructural development to boost ridership and reduce car dependency. It will be developed in consortium with the Piedmont Authority for Regional Transportation (PART).

Canada to develop Toronto–Quebec HSR

The Government of Canada has announced the development of a high-speed rail (HSR) corridor connecting Quebec, Trois-Rivières, Montreal, Ottawa, Peterborough, and Toronto. The project involves construction of a rail network spanning 1,000 km. The estimated annual ridership is 17 million. The project is in the procurement stage. Three consortia have been shortlisted for the construction contracts. These are Cadence (CDPQ Infra, SNC-Lavalin, Systra Canada, Keolis Canada), InterCity Rail Developers (Intercity Development Partners, EllisDon Capital, Kilmer Transportation, First Rail Holdings, Jacobs, Hatch, CIMA+, First Group, RATP Dev Canada, RenfeOperadora), and QConnexiON Rail Partners (Fengate, John Laing, Bechtel, WSP Canada, Deutsche Bahn).

Contract is expected to be awarded in summer 2024. The line is expected to be operational by 2059.

BART to launch new rail fleet, US

Bay Area Rapid Transit (BART) has announced plans to deploy a new fleet of trains named Fleet of the Future in September 2023. The rolling stock has been procured from Bombardier (775 rail cars) and Alstom (875 rail cars). The new trains are smaller in size than the current rolling stock and feature six to eight cars each.

Sound Transit to commence operations on East Link LRT Extension in 2024, US

The Sound Transit Board of Directors plans to commence operations on a section

of the East Link light rail transit (LRT) Extension project in Seattle, Washington, in 2024. The trains will have two cars each and will serve eight stations from the South Bellevue station to the Redmond Technology station. The expected daily ridership is 6,000. The estimated project cost is USD3.68 billion. Currently, USD43 million has been authorised in the budget to support the necessary activities required to commence the service.

A decision on the final portion of the ELSL will be taken in October 2023 as part of the 2024 Service Plan.

Sound Transit has also approved USD122 million to study the Ballard Link rail extension project.

CHSRA invites RFQ for California HSR line, US

The California High-Speed Rail Authority (CHSRA) has released a Request for Qualifications (RFQ) for train cars serving electric high-speed rail (HSR) lines. The scope of work includes the designing, manufacturing, testing, and commissioning of the cars. It also includes providing spare parts as required and maintenance for 30 years.

The qualifying teams will be announced in November 2023 followed by a Request for Proposals (RfPs) in 2024.

The proposed HSR line is 270 km long and will connect Merced to Bakersfield. Trains will operate at a speed of 355 km/hr.

MATA launches contactless payment system in Memphis, US

The Memphis Area Transit Authority (MATA) in Memphis, Tennessee, has launched a contactless fare collection system through the GO901 smart card.

The cards can be loaded at ticket vending machines, at Transit Center Customer Service Counters, through the GO901 mobile app, or through MATA's website.

The smart card can be used to avail of all transit services under MATA.

MTA approves BRT extension in Harris County, US

The Metropolitan Transit Authority (MTA) of Harris County, Texas has approved the extension of the Silver Line bus rapid transit (BRT) service up to Gulfton in Southwest Houston. The MTA has submitted the plans of the extension project to the Federal Transit Administration (FTA) and is expecting to receive federal grants to support the USD220 million project.

The extension spans 6.50 km and will serve seven stations, connecting Westpark to Bissonnet. The line is expected to be operational in 2027.

Caltrain to procure electric trains, US

Caltrain has received funding worth USD80 million from the California Transportation Commission (CTC) to purchase four battery-powered electric trains. The funds are allocated by the California State Transportation Agency (CalSTA).

The trains will be deployed on the 82-km-long route between San Francisco and San Jose. The batteries will be charged when the train traverses through this route, thereby enabling operations to Gilroy station, which is currently non-electrified. The service is expected to be operational in 2024.

MetroLink invites bids to upgrade platform safety at stations, US

MetroLink has invited bids for a quote of USD52 million for the installation of secure gates and fencing at four MetroLink stations. The project is part of MetroLink's Secure Platform Plan (SPP). The scope of work includes installation of secure gates and fencing to control access at four MetroLink stations in St. Clair County-Jackie Joyner-Kersee Center Station, College Station, Emerson Park Station, and Washington Park Station. The renovation of these stations is expected to be completed by 2024.

The project under the SPP will cover 38 MetroLink stations. It is divided into six batches of four to eight stations each. The work is expected to span over three years. The bids will close on September 5, 2023.

RTC launches hydrogen-powered buses in Nevada, US

The Regional Transportation Commission (RTC) of Southern Nevada has launched two hydrogen-powered 12-metre-long buses. The buses have been procured from New Flyer and are funded through the Low or No Emission Vehicle Grant of USD3.8 million from the United States Department of Transportation (USDOT).

The RTC has ordered an additional seven 18-metre-long hydrogen fuel cell buses. The buses are expected to be delivered in 2024. The RTC plans to replace the existing 400 buses with hydrogen or electric buses by 2050.

Pierce Transit to put State Route 7 BRT project on hold, US

Pierce Transit has decided to put on hold the further development of the State Route 7 Bus Rapid Transit (BRT) project in Tacoma, Washington State, due to increasing estimated project costs and challenges in land acquisition. The project delivery date has been pushed to 2028.

For the present, the agency will focus on enhancing the existing bus service along the State Route 7 corridor. It will ensure financial management, seek to minimise the effect of property acquisition , and pursue a fast implementation process before reviving the BRT project. The improved services are expected to be operational from March 2024.

SCCRTC undertakes concept study for transit plan, US

The Santa Cruz County Regional Transportation Commission (SCCRTC) is undertaking a study to develop a preliminary concept for a zero-emission rail transit plan for Santa Cruz County. The scope of the study includes early analysis of environmental, engineering, and design work, placement of stations,

and assessment of frequency of service. The study will cost USD9.2 million and is expected to be completed in two years.

STA launches contactless payment, US

The Spokane Transit Authority (STA) has launched a contactless payment service in collaboration with INIT. Riders can purchase tickets using debit cards, credit cards, and digital phone wallets. The feature is added to the existing account-based fare collection (AFC) system supplied by INIT.

Dallas-Houston HSR development under consideration, US

Amtrak has announced plans to develop a high-speed rail corridor connecting Dallas and Houston. The route will span 380 km and operate at a speed of 330 km/hr.

Texas Central Railway and Amtrak are undertaking the feasibility study of the project and plan to develop it jointly.

The two authorities have jointly applied for federal grants for study and design work, including the Consolidated Rail Infrastructure and Safety Improvements (CRISI) Grant Program, the Corridor Identification and Development Program, and the Federal–State Partnership for Intercity Passenger Rail (FSP-National) Grant Program. The timeline of the project is yet to be announced.

Dart Connect bus service launched in Newark, US

Delaware Transit Corporation (DTC) has launched an on-demand bus service, Dart Connect, in Newark. The service was initially launched in Sussex County as a pilot in 2021.

The pilot was funded by the Federal Transit Administration (FTA). It observed a ridership of 43,861 trips during the trial run. Based on the success of the pilot, the service was expanded to Newark. Users will be able to plan, book, and pay for transit through the app.

MTA completes TOD zone development as part of Metro-North Railroad project, US

The Metropolitan Transportation Authority (MTA) has completed Transit Oriented Development (TOD) around the Avalon Harrison Metro-North station in New York City. The first phase of the development was completed in 2021. The development includes a plan for a 27,000 square feet area with more than 140 units of residential units, large commercial and retail spaces and public plazas, and more than 2,000 parking spaces. It provides connections to the Metro-North Harrison Station platform, with parking facilities.

Latin America

Government of Brazil launches Growth Acceleration Plan

The Government of Brazil has launched the latest Growth Acceleration Plan, covering projects worth BRL1.7 trillion. Of this, BRL33 billion has been allocated for the development of 13 urban transport projects and two passenger rail projects.

The plan includes development of eight under-construction urban transport projects. These are Salvador and Lauro de Freitas Bahia Metro Line; Fortaleza Metro East Line 1; Fortaleza Metro East Line 2; Ceilândia Metro Expansion; Ceilândia Metro Modernisation; Extension of São Paulo Metro Line 2 Green Vila Prudente–Guarulhos; Extension of São Paulo CPTM Line 9–Grajaú/Varginha; and the Baixada Santista light rail system. The plan includes development of five urban transport projects which are under study. These are Maceió Alagoas Rail; João Pessoa Paraíba Rail; Recife Pernambuco Metro Upgrade; Rio de Janeiro Metro Line 3; Natal Rio Grande do Norte Rail. The plan includes two passenger rail projects, which are the São Paulo–Campinas intercity train project and improvement of rail lines in the Juiz de Fora and Barra Mansa areas, as well as studies of national passenger and freight projects.

(1 BRL [Brazilian Real] = USD0.20)

Updated plans announced for Santiago Metro Line 9, Chile

Empresa de Transporte de Pasajeros Metro S.A. has presented updated plans for the development of Santiago Metro Line 9. Line 9 will be the city's eighth metro line. It is expected to be developed in three phases from 2030 to 2033. As per the revised plans, Line 9 will span 27 km along Avenida Santa Rosa from Puente Cal y Canto in the city centre to Plaza de Puente Alto in the south, where it will interchange with the existing Line 4.

The line will cover a total of 19 stations, including seven stations that have been added to the previously planned route. The additional stations are five stations in the south, one infill station known as Estación 6, and a new terminus at Puente Cal y Canto. The end-to-end journey time will be 35 minutes. Line 9 will be fully automated and will be fully accessible from street to train.

The first section of the line to open is expected to be the central 10-station section between Bío Bío on Line 6 and Plaza de La Pintana. It is expected to commence operations by 2030. This will be followed by a four-station extension to the city centre terminus at Cal y Canto in 2032. The last section covering four stations on the southern end of the route is expected to commence operations in 2033.

EFE procures 32 EMUs for Santiago suburban rail service, Chile

Empresa de losFerrocarriles del Estado (EFE) has awarded a contract worth USD171.4 million to a consortium of China-based CRRC Sifang and Chile-based Temoinsa to supply 32 three-car electric multiple-units (EMUs) for Santiago's suburban rail service.

A fleet of 22 EMUs will be deployed on the 61-km-long line between Melipilla and Santiago's Central-Alameda terminus. The remaining fleet of 10 EMUs will be deployed on the 27-km-long route connecting Batuco in northern Santiago with an upcoming station at Quinta Normal which will provide an interchange with Metro Line 5.

Government of Chile to invest USD8 billion for rail development

The Government of Chile has announced plans to invest USD8 billion for the development of the country's railways. The government plans to triple the ridership by 2030 and aims for regional development outside the Santiago conurbation.

BYD delivers double-decker electric buses in Chile

China-based Build Your Dreams (BYD) has delivered 10 double-decker B12C01 electric buses, to be deployed on the Red Mobility System in Santiago. Each bus has a capacity to carry 97 passengers and can travel up to 280 km on a single charge. Each bus is 2.12 metres long and 4.17 metres high, with an approximate weight of 16.5 tonnes. Each bus also has an XL seat and a preferential area for wheelchairs. The buses are equipped with built-in Wi-Fi, air-conditioning, and 30 USB ports.

Tender launched for Buenos Aires Subte Metro Line B rolling stock, Argentina

Sbase, the state-owned company that manages the Buenos Aires Subte (underground) metro, has launched a tender for the supply of 96 new air-conditioned cars to be deployed on Buenos Aires Subte Metro Line B. The line spans 11.8 km connecting Leandro N Alem to Juan Manuel de Rosas, and covers 17 stations, including interchanges with lines C, D, E, and H. The current ridership is 216,796 passengers per day.

The new fleet will replace the 60-year-old Mitsubishi trains and will increase the proportion of air-conditioned trains on Line B from 45 per cent to 100 per cent. The cars should be equipped with onboard CCTV, an audio-visual passenger information system, vandal-resistant LED lighting, and seating in a longitudinal configuration. In addition, the new trains should be equipped with automatic train protection (ATP) and with communication-based train control (CBTC) systems at Grade of Automation 2 (GoA 2).

Each car should be 3.1 metres wide and 17 metres long, with four doors per side. Bids will be opened on December 20, 2023. The first train should be delivered within 20 months of signing the contract with the winning bidder.

First locomotive for Isthmus of Tehuantepec railway project delivered, Mexico

The Government of Mexico has handed over the first refurbished diesel-electric locomotive for the Isthmus of Tehuantepec railway rehabilitation project. The locomotive is a former Union Pacific EMD SD70M unit developed in 2001 and has been refurbished by Metro East Industries in East St Louis, US.

The Isthmus of Tehuantepec Interoceanic Corridor (CIIT) project is aimed at the development of a rail link between the Atlantic and Pacific oceans as an alternative route to the congested Panama Canal. The project involves upgradation of the 303-km-long rail line between Coatzacoalcos in Veracruz state on the Gulf of Mexico and Salina Cruz in the state of Oaxaca on the Pacific coast. This will enable the deployment of high-speed passenger trains on the line with an operational speed of 100 km/hr. Trials are expected to commence by the end of September 2023. The upgradation works are expected to be completed by the end of 2023.

The CIIT project also includes upgradation of the rail link from Coatzacoalcos to Palenque, where it will connect with the Mayan Train project, and the 459-km-long Line K. Line K connects Ixtepec in Oaxaca with Ciudad Hidalgo in Chiapas, near the border with Guatemala.

Ittsa Bus procures 10 Marcopolo Paradiso double-decker buses, Peru

Ittsa Bus has procured a fleet of 10 Marcopolo Paradiso G8 1800 double-decker buses. Each 14.4-metre-long bus is equipped with sleeper seats, Valeo CC430 P3 air conditioning, refrigerators, food warmers, an audio and video system, and CCTV cameras. The buses are also equipped with a full separation wall, curtains, electronic itinerary, luggage racks, and parcel racks. The buses will be deployed for regular line operations.

Plans announced to develop Central Railway Line in Uruguay

Plans have been announced to develop the 63-km-long Central Railway Line between Montevideo and 25 de Augusto. The line will comprise a first 26-km-long double track from Montevideo and a 37-km-long single track to 25 de Augusto. The first phase of dynamic tests has been completed with the deployment of locomotives on the 20-km-long rail section between Florida station, Florida Norte, and Apartadero La Cruz.

The project is part of the rehabilitation and maintenance of a 273-km-long railway line between Montevideo and Paso de los Toros. Passenger trains will be deployed on the 63-km-long rail section between Montevideo and 25 de Augusto. Freight trains will be deployed on the remaining section between 25 de Augusto and Paso de los Toros.

Asia Pacific

Passenger service commences on Guiyang–Libo HSR section, China

Passenger service has commenced on the Guiyang–Libo section of the Guiyang–Nanning high-speed rail (HSR) line. The line spans 482 km, connecting Guiyang Province and Guangxi Zhuang. The trains have a maximum operating speed of 350 km/hr.

The rail section runs along difficult terrain, including high mountains and steep valleys. The Guiyang–Libo section consists of 86 bridges and 62 tunnels.

Plans announced to deploy maglev trains in multiple cities, China

Plans have been announced to deploy high-speed maglev trains with an

operational speed of 650 km/hr in Guangzhou, Shenzhen, and Hong Kong cities. The route for the Greater Bay Area maglev line will cover four stations. These are Guangzhoudong, Zhujiang, New Town, and Guangzhou. The maglev train plan aims to build a 30-minute traffic circle in the three cities, and a 40-minute traffic circle in other cities in the Greater Bay Area.

Further, plans have been announced to deploy maglev trains in Shanghai, Hangzhou, Chengdu, and Chongqing.

Construction works commence on northern section of Eastern Line in Macau, China

Construction works have commenced on the northern section of the Eastern Line that forms part of the light rail transit (LRT) network in Macau. The design and construction contract has been awarded to a joint venture of China Civil Engineering, Nanguang Real Estate, China Railway 16th Bureau, and China Railway Fourth Academy.

The 2.75-km-long line will cover three stations connecting ES1 station in the southeast corner and ES4 station on an artificial island in Area A of Xincheng. Construction works are expected to be completed by 2028.

Test runs commence on Wuhan Metro Line 19, China

Test runs have commenced on the Wuhan Metro Line 19 at the Huashan River Depot.

The 23.3-km-long line covers seven stations connecting Wuhan railway station and Xinyuexi Park station. The train is designed to run at a maximum operating speed of 120 km/hr.

Passenger service commences on Nanning–Libo HSR section, China

Passenger service has commenced on the Nanning–Libo section of the Nanning–Guiyang Guinan high-speed rail (HSR) Line. The 307-km-long line connects Nanning in south China's Guangxi Zhuang Autonomous Region and Guiyang in southwest China's Guizhou Province, and will cover eight stations. The trains have a maximum operating speed of 350 km/hr.

The Guiyang–Nanning HSR is expected to enhance the interconnection between China's western regions and the ASEAN countries. The commencement of operations on this section marks the completion of the Nanning–Guiyang Guinan HSR.

Government of Hong Kong to deploy green transport system in Tuen Mun

The Government of Hong Kong has announced plans to deploy a green transport system, including electric buses and trackless trams, in Hung Shui Kiu/Ha Tsuen New Development Area. The Civil Engineering and Development Department (CEDD) has suggested the use of a green road-based mode that will utilise eco-friendly buses and trackless trams. The design of the intersections is yet to be finalised.

Passenger service commences on Utsunomiya Lightline Tramway, Japan

Passenger service has commenced on the Utsunomiya Lightline Tramway. The 1,067 mm gauge line spans 14.6 km from Utsunomiya Station East, next to the East Japan Railway station, to the Haga Takanezawa Industrial Park in the town of Haga. The line passes through SakushinGakuin University and covers 19 stops. This consists of 15 stops in Utsunomiya and four stops in the town of Haga, with two stops having loops for semi-fast express service.

The line has been developed by Utsunomiya Light Rail Co., a public–private joint venture which is owned by the Utsunomiya City (40.8 per cent) and the town of Haga (10.2 per cent) along with business interests and Tobu Railway. The line was developed at an investment of JPY68.4 billion. Of this, funds worth JPY60.3 billion have been provided by the Utsunomiya City and funds worth JPY8.1 have been provided by the town of Haga.

A fleet of 17 HU300 trams, supplied by Niigata Transys, has been deployed on the line. Each three-section 750 V DC bidirectional low-floor tram is 29.52 metres long and 2,650 mm wide. Each tram has a capacity to carry 160 passengers, including 50 seated passengers. The depot is located at the middle of the line, east of Hiraishi stop. Service frequency is eight minutes during peak hours and 12 minutes during off-peak hours. The end-to-end journey time is 44 minutes. The operational speed of the trams is 40 km/hr. The maximum speed of trams will be raised to 50 km/hr on-street and 70 km/hr on the segregated sections of the route from 2024 onwards. This is expected to reduce the end-to-end journey time to 37 minutes. Further, a 5-km-long extension is proposed to be developed through the urban area on the west side of the JR East station by 2030. The extension will connect the Takaragi district and a conference centre and hotel in Komanu.

(1 JPY [Japanese Yen] = USD0.0068)

JR Central to introduce tilting technology in 385 prototype series trains, Japan

Central Japan Railway (JR Central) has announced plans to introduce next-generation tilting control technology, to build a prototype series 385 electric multiple units (EMUs). The new trains will replace the Series 383 EMUs operated on Shinano Limited Express services on the Chūō Main Line, Shinonoi Line, and Shinetsu Main Line. The testing will commence by mid-2026. The new-generation tilting control technology will constantly monitor the position of the train and the curve, detecting the start of the curve more accurately. It will also improve passenger ride comfort and safety.

Track-laying works commence on China–Vietnam HSR Line

Track-laying works have commenced on the China–Vietnam high-speed rail (HSR) Line.

The line will span 46.9 km, connecting Fangchenggang and Dongxing on the Vietnam border with the Guangxi Zhuang Autonomous region of China. It involves development of eight tunnels and 32 bridges. The line will reduce the end-to-end travel time from 60 minutes to 20 minutes. The track-laying is expected to be completed by the end of September 2023.

DOTr to invite bids for rail projects development in the Philippines

The Department of Transportation (DoTr) of the Philippines has announced plans to invite bids for the operations and maintenance (O&M) contracts for the Metro Manila Subway Project (MMSP) and the North–South Commuter Railway (NSCR) Project by Q4 2023 or Q1 2024.

The PHP76.89 billion contract for the MMSP includes the O&M of rolling stock, stations, depot, and other systems and infrastructure. The scope of work includes the maintenance of facilities and equipment under the Philippine Railways Institute, fare collection, and exercising of commercial development rights within prescribed station boundaries.

The PHP204.6 billion contract for the NSCR Project includes the O&M of the fleet, stations, depot, and other systems and infrastructure. The contract includes a 15-year concession period for full operations. The scope of work includes interoperations management for the rail system, fare collection, and exercising of commercial development rights.

(1 PHP [Philippine Peso] = USD0.017)

Passenger service to commence on Bangkok–Nakhon Ratchasima HSR by 2027, Thailand

Passenger service on the Bangkok-Nakhon Ratchasima high-speed rail (HSR) line is expected to commence in 2027. Construction works on the 608-km-long first section are 24 per cent completed. The line will be constructed in two phases.

Phase 1 Line will span 253 km connecting Bangkok and Nakhon Ratchasima. It will be developed at an investment of THB180 billion.

Phase 2 Line will span 355 km connecting Nakhon Ratchasima and Nong Khai. It will be developed at an investment of THB300 billion. Once approved, bidding will commence for the construction of Phase 2.

(1 THB [Thai Baht] = USD0.028)

Partial operations to commence on Map Kabao–Jira Junction Line by 2024, Thailand

The State Railway of Thailand (SRT) has announced that the Map Kabao–Jira Junction double-track Railway Line will commence partial operations by 2024. The ongoing upgrades will increase the operating speed for passenger trains from the existing 50 km/hr to 120 km/hr and for freight trains to 60 kh/hr.

The construction team has completed 98.13 per cent of the work on one of the three tunnels at Ban Hin Lab, which connects Saraburi and Nakhon Ratchasima. The tunnel is equipped with high-level security and safety measures and has passenger evacuation compartments located at every 500 metres.

The construction work of the second tunnel connecting Ban Hin Lab station and Muak Lek Mai station in Saraburi and the construction work of the third tunnel on the Lam Takhong Dam in Nakhon Ratchasima has been completed.

Trials commence on Bangkok Monorail Pink Line, Thailand

The Mass Rapid Transit Authority of Thailand (MRTA) has commenced trial operations on Bangkok's Pink Monorail Line. The Northern Bangkok Monorail Company Limited (NBM), the concessionaire, will carry out free passenger trials in September and October 2023.

Passenger operations are expected to commence in November 2023.

The 34.5-km line has 30 stations connecting Nonthaburi Civic Centre station, which interchanges with the Purple Line, and Min Buri station, which will interchange with the Orange Line.

SBS Transit to operate Bukit Merah bus services, Singapore

SBS Transit will operate Bukit Merah bus services, which include the operations of 17 bus services, including two cross-border services to Johor Bahru for a period of five years. The contract can be extended by an additional two to five years.

The bus services operate from two bus interchanges, Bukit Merah and HarbourFront, and from four bus terminals — Kampong Bahru, Marina Centre, Queen Street, and Shenton Way.

SBS Transit was previously awarded a five-year contract to operate the Bukit Merah Bus Package in 2018. The new contract will commence once the current contract expires in April 2024, following a six-month extension.

Passenger service to commence on Bangkok–Nong Khai HSR in 2027

Passenger service on the Bangkok–Nong Khai high-speed rail (HSR) line is expected to commence in 2027. Construction work on the 250.77-km-long first section has been nearly 40 per cent completed. The section will connect Bangkok and Nakhon Ratchasima province, covering six stations. The section will include an elevated rail track of 181.9 km, a ground-level track of 64 km, and a tunnel of 6.4 km.

The project is estimated to cost TBH179.4 billion.

The State Railway of Thailand (SRT) has completed the study and design for the second section which will connect Nakhon Ratchasima to Nong Khai.

(1 THB [Thai Baht] = USD0.028)

Operation commencement delayed on Jakarta–Bandung HSR, Indonesia

PT KeretaCepat Indonesia China (KCIC) has announced a delay in the commencement of passenger service on the Jakarta–Bandung high-speed rail (HSR) line as the system testing is under process. Trials were expected to commence in November 2022, with passenger service scheduled to begin in August 2023. The line will not begin operating until October 2023.

The 142.3-km-long line will cover four stations. It is expected to cost USD8 billion. Trains will operate at a maximum speed of 350 km/hr.

Passenger services commence on Greater Jakarta LRT Phase 1, Indonesia

Passenger service has commenced on the Greater Jakarta light rail transit (LRT) Line Phase 1. The line spans 44.4 km and covers 18 stations, connecting Dukuh Atas station and Jati Mulya station. The Greater Jakarta LRT stations are equipped with escalators, stairs and elevators, toilets, lactation rooms, prayer rooms, a health room, a passenger information display system (PIDS), a passenger announcement system, and CCTV.

A fleet of 31 six-car train sets, manufactured by PT IndustriKereta Api (INKA), has been deployed on the line. Each train set has a capacity to carry 1,500 passengers.

The LRT line will be integrated with TransJakarta, Jaklingko, Trans Patriot, Commuter Line, Soekarno–Hatta Airport Train, and the upcoming Jakarta–Bandung High-Speed Rail (HSR) Line.

TransJakarta to procure additional electric buses, Indonesia

TransJakarta, Indonesia's land transport company, has announced plans to add 22 electric buses to its fleet by October 2023. Once the new buses are operational, the operator's fleet will increase to 100 electric buses.

The Jakarta City government has also announced plans to implement vehicle emission testing starting in September 2023. The testing will measure key indicators, including lubricant oil temperature, engine rotation, and levels of carbon dioxide, carbon monoxide, hydrocarbon, and oxygen. New charging stations will be installed across the city to promote vehicle electrification.

Siem Reap and MoPWT to develop LRT in Cambodia

The Ministry of Public Works and Transport (MoPWT), Cambodia has announced plans to partner with Siem Reap to build a light rail line (LRT) connecting Siem Reap–Angkor International Airport to Siem Reap city.

Two options are being considered: one on the old road and the other on the new road. The technical team is collecting data on the impact of the layout of the railway construction project.

LNRE and KTMB to improve cross-border rail service, Laos and Malaysia

Lao National Railway State Enterprise (LNRE) has signed a memorandum of collaboration (MoC) with Keretapi Tanah MelayuBerhad (Malayan Railways Limited) (KTMB) to improve cross-border railway operations in Laos and Malaysia.

The agreement will allow for technology transfers between the two agencies to improve the railway industry in both the countries. KTMB will also expand its freight and passenger services. Additionally, LNRE trains will be deployed on Malaysia's rail network while KTMB trains will be deployed on Laos's rail network.

Rail link proposed between Vietnam and Laos

A joint venture (JV) of Deo Ca Group and Petroleum Trading Lao Public Company has proposed developing a 103-km-long railway link connecting Ha Tinh and Quang Binh provinces in Vietnam with the border with Laos. The project is estimated to cost VND27.485 trillion. It is part of the 554-km-long railroad project between Vientiane and Vung Ang Port.

The Vung An–Tan Ap–Mu Gia section will connect Vung Ang Port in Ha Tinh Province and Mu Gia. The trains will operate at a maximum speed of 150 km/hr. The project will be executed under a public–private partnership (PPP) model.

(1 VND [Vietnamese Dong] = USD0.00004)

First trains delivered for Bhopal and Indore Metro projects, India

Alstom has delivered the first three-car Movia trains to Madhya Pradesh Metro Rail Corporation (MPMRCL) for the Bhopal–Indore metro project. The trains are equipped with communications-based train control (CBTC) signalling equipment, train control system, and telecommunication system. The trains have a seven-year maintenance contract. They are expected to be operational by April 2024. The three-car Movia train is designed to operate at a maximum speed of 80 km/hr. Each train has a capacity to carry 50 seated passengers and 300 standing passengers.

The deployment is part of a EUR387 million contract, which includes maintenance of the trains for a period of 15 years. Alstom will supply a fleet of 27 trains for Bhopal Metro and a fleet of 25 trains for Indore Metro.

(1 EUR [Euro] = USD1.07)

India to deploy 10,000 electric buses under PM e-Bus Sewa Scheme

The Government of India (GoI) has approved the deployment of 10,000 electric buses under the 'PM e-Bus Sewa' Scheme in 169 cities over a period of 10 years. The scheme, worth INR576.13 billion, includes contributions of up to INR200 billion by the GoI . The scheme will support the government's 'Net Zero by 2070' vision.

The scheme will cover cities with a population of 0.3 million and above based on the 2011 census, including the capital cities of Union Territories, the North Eastern region, and the Hill States. Priority will be given to cities with no organised bus service. The scheme has two segments. The first segment includes augmentation of city bus services with the deployment of 10,000 electric buses on a public–private partnership (PPP) model. The scheme will generate 45,000 to 55,000 direct employment opportunities and will promote e-mobility.

The second segment will promote green initiatives like bus priority, infrastructural development, multimodal interchange facilities, NCMC-based automated fare collection (AFC) systems, charging infrastructure, etc. The charging infrastructure will be provided under the Green Urban Mobility Initiatives (GUMI). The GoI will support the bus operations by providing subsidies specified in the proposed scheme, which will foster innovation in the e-mobility sector as well as development of a resilient supply chain for electric vehicles.

Škoda Group signs MoU with Tata AutoComp Systems, India

Škoda Group has signed a memorandum of understanding (MoU) with Tata AutoComp Systems to supply automotive components for the Indian rail, metro, and bus sectors.

The MoU will strengthen the position of Škoda Group in foreign markets and expand its presence outside Europe. The agreement marks the first step towards a comprehensive feasibility study that will outline the scope of investment, the expected scale of business, and other key considerations. The MoU will focus on the development and production of electrical equipment and components for the rail and mobility markets.

Contactless ticketing system to be deployed on Adelaide buses, Australia

Busways has announced plans to deploy a contactless ticketing system on the buses in Adelaide. Passengers can book tickets by tapping their bank cards, smartphones, and watches on the validators. The machines will accept payments via metroCARD, Visa, and Mastercard, including Visa and Mastercard-enabled smartphones and watches.

The ticketing system is expected to be deployed on all buses by the end of 2023.

DTP appoints CBA as financial institution for myki ticketing system, Australia

The Department of Transport and Planning (DTP), Victoria has appointed the Commonwealth Bank of Australia (CBA) as the financial institution for the new myki ticketing system.

Victoria's bus service will feature open loop contactless card ticketing via a contactless bank card, smartphone, and smartcard.

Yarra Trams deploys navigation technology, Australia

Yarra Trams has launched a new navigation application (app), NaviLens, for blind and low-vision passengers to travel independently. NaviLens will have brightly coloured QR codes, which will be installed on every tram stop on Route 96. The codes can be scanned using the NaviLens app. The app will audibly provide passengers with information on the current location, the routes serving the location, and live tram arrival information.

The NaviLens codes will be integrated into the Yarra Trams operations centre, feeding live tram tracking information to the app, thereby ensuring that the codes produce dynamic, accurate information at each stop and on board each tram.

Munich Company procures 71 electric buses, Australia

Munich transport operator MVG, a subsidiary of Stadtwerke Munchen, has procured 71 electric buses from three different global brands.

The procurement consists of 28 articulated model buses by Ebusco; 30 eCitaro G buses by Mercedes-Benz; and 13 12E model buses by MAN Lion's City.

The buses will be delivered from mid-2024 onwards.

Testing commences on Melbourne Metro Tunnel, Australia

The Government of Victoria has begun testing the maximum speed of trains through Melbourne's Metro Tunnel. The testing will cover key systems, including electricity supply, the overhead catenary system, the signalling system, and the precaution monitoring system.

The Metro Tunnel is expected to open by 2025.

Pre-qualification bids invited for new metropolitan bus network in Victoria, Australia

The Department of Transport and Planning (DTP), Victoria, has invited pre-qualification bids for bus contracts for a period of 10 years. DTP has announced plans to deploy a modern, productive, and environmentally sustainable bus network. The last date for the submission of pre-qualification bids is August 24, 2023.

Around 4,500 diesel buses in the state's public fleet are expected to be converted to zero-emission buses by the end of the 10-year contract term.

KNR to conduct studies for urban rail services in Tajikistan

Korea National Railway (KNR) has collaborated with Woosong University and Daehan Consultants for the development and operation of urban rail services in Tajikistan.

The scope of work includes upgradation of the railway networks and facilitation of the entry of Korean railway technology in the countries of Central Asia. The work is expected to be completed by 2024.

Europe

TfL launches tender for DLR franchise agreement, UK

Transport for London (TfL) has launched a tender for the next franchise agreement for the Docklands Light Railway (DLR). The automated light metro network spans 40 km from east to southeast London and covers 45 stations.

The DLR is currently operated by a joint venture of Keolis and Amey under a franchise agreement. The agreement commenced in December 2014 for an initial term of seven years, and will expire in April 2025. The new contract will be awarded for an initial period of eight years, with an option to extend it by up to two years along with a separate seven-month extension option. The estimated total value of the contract is GBP2.3 billion.

The franchisee will be responsible for train and passenger service operations, management of the automatic train control system, and maintenance of rolling stock, infrastructure, and assets. DLR comprises a fleet of 149 driverless trains. The franchisee will be remunerated by a specified fee, along with incentives to improve performance and with deductions in case of underperformance. The new franchisee will also be expected to realise the value from the investment for the procurement of 54 new trains for the DLR network. The new fleet is due to enter service next year and is expected to increase the total capacity of the DLR network by 50 per cent.

The key objectives under the new franchise include continuation of demand recovery and growth by offering a high-quality customer experience. The operator will also support TfL to improve its environmental performance to achieve its green targets. The operator is expected to optimise the performance and financial efficiency of the DLR network through continuous improvement and innovation, while maintaining flexibility and high levels of collaboration with TfL.

A maximum of five candidates will be invited to tender bids. Requests to participate must be submitted by October 2, 2023. Invitations to participate to selected candidates are expected to be issued by January 2, 2024.

(1 GBP [Great British Pound] = USD1.25)

Harrogate procures 39 electric buses, UK

The Harrogate Bus Company has procured 39 buses worth EUR21 million, with funding support of EUR7.8 million from the UK Government's Zero Emission Bus Regional Areas (ZEBRA) Scheme. The fleet consists of 20 Mercedes-Benz eCitaro electric single-deck buses and 19 Alexander Dennis Enviro 400EV electric double-deck buses.

The single-deck buses will be deployed on Urban Route 1 between Harrogate and Knaresborough; on Urban Route 7 connecting Harrogate, Wetherby, and Leeds; and on Rural Route 24 between Harrogate and Pateley Bridge. The double-deck buses will be deployed on the relaunched 36 Service connecting Ripon, Harrogate, and Leeds.

The order follows the trials of several types of electric buses on three varied routes in and around Harrogate, and on the company's high-frequency shuttle route connecting Bradford and Keighley.

(1 EUR [Euro] = USD1.07)

TfL deploys 80 ZEBs to increase bus services, UK

Transport for London (TfL) has deployed a fleet of 80 zero-emission buses (ZEBs) in the South London borough of Sutton and has enhanced bus services to deliver an additional one million bus kilometres in outer London every year. The deployment takes the total fleet size to 1,100 ZEBs and keeps TfL on track to achieve a fully zero-emission bus fleet by 2034. TfL is expected to save an estimated 4.8 million tonnes of carbon by 2034.

The new ZEBs have been deployed in the borough of Sutton on routes 93, 154, 164, 213, and 80. The ZEBs are equipped with larger wheelchair and buggy areas, panoramic roofing on the upper deck, USB phone charging ports, and new LED display screens on the lower and upper decks.

Further, Route X26, which runs between West Croydon Bus Station and Heathrow Central Bus Station, was renumbered and rebranded to route SL7. It offers passengers an instant express bus service between West London and South London. Bus service frequency has been increased from 30 minutes to 15 minutes. SL7 is the third bus route to become part of the Superloop express bus network.

NTL invites EoIs and Chiltern Railways invites RFPs for supply of low-emission trains, UK

Northern Trains Limited (NTL) has invited expressions of interest (EoIs) under a framework contract for the manufacturing and supply of up to 450 train units to replace its ageing fleet. The framework agreement will be valid for eight years, with firm orders to be placed under a phased programme. Each phase will include an agreement to provide technical support and to supply spare parts for the new trains. The initial order under the framework includes the supply of multi-mode multiple units, with options to supply battery–electric hybrid trains, electric multiple units (EMUs), and intermediate cars. The new trains should have a minimum design life of 35 years. The hybrid trains should be convertible to electric or battery–electric traction. The new trains will be purchased by an owning party that will then lease the fleet to NTL. The last date to submit the EoIs is September 25, 2023. Invitations to tender (ITTs) are expected to be launched in October 2023.

Additionally, Chiltern Railways has invited a request for proposals (RFP) for the supply of 20–70 new or converted low-emission multiple units. The estimated value of the contract is EUR400 million and includes associated maintenance, infrastructure, and depot upgrade services. The RFP does not cover financing the new fleet, and Chiltern Railways will seek a financier separately to support the purchase. The last date to submit the bids is September 4, 2023. The contract is

expected to be awarded by mid-2024. The new fleet is expected to be deployed by 2027–28 and will replace the existing fleet of 39 two-car class 165 diesel multiple units (DMUs). This is the first stage of the fleet replacement programme outlined in the Right Route to 2030 vision, recently unveiled by Chiltern Railways.

(1 EUR [Euro] = USD1.07)

Network Rail renews rail technology cooperation agreement with ProRail, UK

UK-based Network Rail (NR) has signed a renewed memorandum of understanding (MoU) with Netherlands-based ProRail to jointly develop new rail technology. The renewed agreement builds on a previous MoU signed in 2018, to develop ETCS Level 3 hybrid and fibre optic acoustic sensing (FOAS), which uses lineside fibre optic communication cables to monitor railway infrastructure.

Under the new MoU, the FOAS and ETCS workstreams will continue as part of a wider programme considering digitisation, asset management, and ensuring sustainability in the face of climate change. This will include work on automated infrastructure inspection and embankment stability.

Both Network Rail and ProRail are committed to digitising the railway system in order to achieve a future-proof, interoperable, and reliable high-capacity railway system.

Bids received for Porto Metro Ruby Line, Portugal

Porto Metro S.A has received two bids for a contract to execute civil works on the Porto Metro Ruby Line H. The scope of the contract includes construction of two tunnels and a new bridge over the Douro River.

The bridge will have a span of 430 metres, becoming the longest concrete bridge in Europe. The estimated value of the contract is EUR370 million. It will be the largest contract to have been tendered under Portugal's Recovery and Resilience Plan (PRR).

The bidders are a consortium of Alberto Couto Alves, FCC, and Contratas y Ventas, and a consortium of Casais, Conduril, Teixeira Duarte, Alves Ribeiro, and Somafel. The two bids will be assessed by the tender committee in order to prepare an evaluation report and to recommend a preferred bidder to the Porto Metro board of directors.

The line will span 6.3 km from Casa da Música tô Santo Ovídio and will cover eight stations. The line will have intermediate stations at Campo Alegre, Arrábida, Candal, Rotunda, Devesas, Soares dos Reis, and Santo Ovídio. Interchange will be provided with the Blue, Red, Green, Violet, and Orange lines at Casa da Música, and with the Yellow Line at Santo Ovídio. Construction works are expected to commence by the end of 2023. Passenger service on Ruby Line H is expected to commence by 2026.

(1 EUR [Euro] = USD1.07)

Study undertaken for Düsseldorf light rail extensions, Germany

The City of Düsseldorf and Rheinbahn have undertaken a study of 23 potential light rail expansion projects. Seven proposals were rated 'very good'. These include a 1-km two-stop extension of the Wehrhahn Tunnel south to the university, the Benrath–Garath and Holthausen– Hassels extensions, and a 700-metre-long extension of U79 from Südpark to Universität West.

Nine projects were rated 'good', including elements of a northern and eastern orbital route. Seven projects were rated 'medium'. The results of the study will now be incorporated into the local transport plan.

Tremonia Sprinter City 45 ELECTRIC minibuses procured for Germany and Luxembourg

Germany-based bus operator Mecklenburg-VorpommerscheVerkehrs gesellschaft (MVVG) has procured three and Luxembourg-based bus operator Voyages Emile Weber has procured four Sprinter City 45 ELECTRIC minibuses. The buses have been developed by Tremonia Mobility in Dortmund, Germany, and will be delivered by Q-3 2023. The minibuses are equipped with advanced safety features and innovative technologies.

Tremonia Mobility acquired the Sprinter minibus production facilities of Daimler AG in Dortmund in 2022. The company has announced plans to include the larger minibus model, Sprinter City 75 ELECTRIC, in its electric product range.

Perspektive Bahn2050 railway strategy approved, Switzerland

The Swiss Federal Council has approved the 'Perspektive Bahn 2050' long-term railway strategy. It includes changes to, and the expansion of, projects that have previously been approved such as improvement of S-Bahn and medium-distance services and upgradation of suburban train stations.

The Lötschberg Base Tunnel will be expanded to two tracks throughout the section. This will create additional capacity and operational stability on the axis. Among the new projects, a new 9-km-long tunnel will be developed between Morges and Perroy on the Lausanne–Genève route instead of the formerly planned third track. This will help create an alternative route between Lausanne and Geneva in the event of disruptions. Further, the Swiss Federal Council has also approved increased funding for the construction of the Brütten Tunnel between Zürich and Winterthur, and for the expansion of the Zürich Stadelhofen, Genève, and Olten train stations.

ÖBB to develop southeastern rail link connecting Vienna International Airport, Austria

The Austrian Federal Railways (ÖBB) has proposed a final set of plans for the development of a 26-km-long rail line from Bruck an der Leitha to the southeast of the capital to Vienna International Airport. The plan includes deployment of more long-distance and regional trains serving the airport.

New rolling stock to be deployed on Netherlands–Belgium HSR

Netherlands Railways (NS) and Belgian National Railways (SNCB) have announced plans to deploy Alstom Coradia Stream Intercity New Generation Belgium (ICNGB) electric multiple units (EMUs) on the 125-km-long HS–South High-Speed Rail (HSR) Line connecting Amsterdam and Rotterdam in the Netherlands with Antwerp in Belgium. The EMUs will replace the IC-Direct (IC) trains comprising ICRm coaches, which are hauled by Traxx MS2 multi-voltage locomotives.

The ICNGB EMUs will be deployed to run at a maximum operational speed of 200 km/hr and will operate 16 times per day between Amsterdam and Brussels. The end-to-end journey time will be reduced from two hours and 45 minutes to two hours.

The ICNGB train service will halt at the same stations as Thalys's Eurostar train service, which operates on the same route.

The terminus at Amsterdam will be moved from Central station to Amsterdam South, which is closer to the city's business district and which is currently undergoing redevelopment.

Further, SNCB will introduce the IC train service on the HSL–South Line connecting Brussels Midi and Rotterdam Central to serve those stations where the ICNGB trains will not halt. This service will also operate 16 times per day with an end-to-end journey time of two hours seven minutes.

NS, SNCB, and Thalys are expected to operate 47 daily train services to Brussels via the Breda (Netherlands)–-Antwerp (Belgium) crossing by 2025.

PKP Intercity launches locomotive procurement and leasing tenders, Poland

PKP Intercity has launched two tenders, one for the procurement of 46 electric locomotives and another for the leasing of 10 electric locomotives.

The procurement tender has been launched under an open competition procedure. The estimated value of the contract is PLN555 million and will include repair and maintenance services. The contract is part of PKP Intercity's 2030 Fleet Renewal Strategy, with the first locomotives expected to be deployed by 2025. The first locomotive should be delivered within 18 months after the signing of the contract, with the remaining locomotives scheduled to be delivered over the next eight months. The new locomotives should be able to take traction current at 3kV dc, should have a maximum operational speed of 160 km/hr, and should be equipped with European Train Control System (ETCS) Level 2 onboard equipment. Each locomotive should have a warranty for a period of 36 months. The bids will be assessed as follows – 70 per cent weightage for price, including 60 per cent for unit price per locomotive and 10 per cent for maintenance; 10 per cent weightage for delivery date of the first locomotive; 10 per cent weightage for delivery date of all locomotives; 5 per cent weightage on warranty quality and period for each locomotive and its individual components, software, and documentation; 5 per cent weightage on maximum number of technical incidents resulting in loss of operational capacity over a cycle of 250,000 km. The last date to submit the bids is September 14, 2023.

The leasing tender has also been launched under an open competition procedure. The contracts for all five parts of the tender will run for a year and will include maintenance service agreements. The tender is split into five parts, one each for two locomotives. Six locomotives should have a maximum operational speed of 160 km/hr and four locomotives should have a maximum operational speed of 125 km/hr. The last date to submit the bids is September 12, 2023.

(1 PLN [Polish Zloty] = USD0.24)

Passenger service commences on MCD Line 3, Russia

Passenger service has commenced on the third Moscow Central Diameter (MCD) Commuter Line 3. MCD Line 3 spans 85 km at the surface, connecting the northwest and southeast districts of Moscow and covers a total of 38 stations. Of these, the stations at Mitkovo, Malino, and Rizhskaya are expected to be opened later. MCD Line 3 serves a total of 24 districts in Moscow and four districts in the Moscow region, providing rail services to 3.5 million residents. The line provides 21 interchanges with Moscow Metro lines, including the Big Circle Line (BCL) and the Moscow Central Circle (MCC), as well as with the existing MCD Line 1 and MCD Line 2. MCD Line 3 is expected to relieve pressure on three metro lines, providing an alternative route to 15 per cent of the total passengers. Service frequency is five minutes 30 seconds during peak hours, with services operating throughout the day. A fleet of 11 Ivolga and 19 type EP2D electric multiple units (EMUs) has been deployed on the line. The trains are expected to reduce emissions by up to 36,000 tonnes a year.

The project also includes upgradation of Zelenograd-Kryukovo station, while an interchange with the upcoming Moscow–St Petersburg high-speed line will be opened later.

Further, the new rolling stock will also be deployed on the existing commuter lines from Leningradsky and Kazansky stations in Moscow. This will cover replacement of 41 ED4M EMUs and 18 EP2D EMUs, aimed at renewing 100 per cent of the long-distance suburban fleet by 2024. Plans have also been announced to develop MCD Line 5 in Moscow as part of the MCD Programme.

Government of Serbia announces National Railway Plan 2027

The Government of Serbia has announced the National Railway Plan 2027. This includes development of an 18-km-long double-track electrified rail line from Zemun Polje to Beograd Nikola Tesla Airport. The project is estimated to be developed at an investment of EUR140 million. Construction works are expected to commence in 2026. The line will be later extended from the airport to Obrenovac.

Other projects include modernisation of the 23-km-long Niš–Brestovac section

of the Niš–Skopje Line; upgradation of the Niš–Dimitrovgrad Line; construction of a Niš railway bypass; completion of Beograd Centar station; and development of Beograd Metro. The first line of the Beograd Metro is expected to open in 2028.

(1 EUR [Euro] = USD1.07)

SrbijaVoz receives first Stadler Flirt EMU, Slovenia

SrbijaVoz, the national rail operator of Slovenia, has received the first of the latest batch of Stadler Flirt electric multiple units (EMUs). The delivery is part of the EUR112 million contract signed between SrbijaVoz and Stadler in December 2021 to supply 18 Stadler Flirt EMUs. The contract is being financed by the central government. Each train set is 80.7 metres long and has a capacity to carry 244 seated passengers. The trains are designed to run at an operational speed of 160 km/hr and are equipped with onboard ticket vending machines.

(1 EUR [Euro] = USD1.07)

TCDD advances infrastructure development for Bahçe–Nurdagi rail line, Turkey

The Turkish State Railways Directorate (TCDD) has announced the completion of the 18-km-long tunnel on the Bahçe–Nurdagi rail line. The tunnel will serve the new high-speed rail (HSR) line service, connecting Bahçe and Nurdagi as part of the Adana and Gaziantep rail network. The HSR service is expected to be operational in 2025.

Middle East and Africa

Operations commence on Tel Aviv Red Line LRT; Be'er Sheva LRT Project approved, Israel

NTA Metropolitan Mass Transit System Limited (NTA) has commenced operations on the Red Line light rail transit (LRT) system in Tel Aviv. The line spans 24 km connecting Petah Tikva to Bat Yam and serves 34 stations. The expected daily ridership is 200,000 passengers. The Red Line is part of a 90-km LRT system with three lines covering 14 cities. The other two lines are expected to commence operations by 2026.

Further, Israel's Committee for National Infrastructure has approved plans for the construction of a LRT line in the southern city of Be'er Sheva. The line is expected to be developed at an estimated investment of up to USD2.11 billion. The line will span 25 km from the Israel Railways station in the centre of Be'er Sheva to the new KiryatHamodi'in military intelligence base in Likit. The LRT project is expected to be completed by 2033.

Israel Railways to develop 300-km network

The Government of Israel has announced the development of a rail network spanning 300 km connecting QiryatShemona in the north to Eilat in the south. The project will be developed under the Connecting Israel Programme. The government has also approved funding of USD680 million for the project.

The rail network is divided into three sections. The northern line will span 54 km and serve three to five stations, for passenger and freight trains. It is currently under planning. The central section will cover 64 km and serve seven stations. It is under execution. It is expected to be completed in 2026. The southern section will be developed as a high-speed rail line connecting to Eilat.

Israel Railways to upgrade to double-decker fleet

The Israel Railways has approved funding of USD1.86 billion for the procurement of a double-deck train fleet to replace the existing single-deck trains under its rolling stock acquisition programme.

The funding includes procurement of 96 Alstom double-deck push-pull coaches, four Traxx electric locomotives, and 81 Siemens Mobility Desiro HC partly double-deck electric multiple units.

The modernisation project will enable Israel Railways to cater to 105 million passengers in 2025 and to 300 million passengers in 2040.

Construction works begin on Blue Line BRT in Israel

Construction works have commenced on the Blue bus rapid transit (BRT) Line . The line will span 23-km, connecting Tel Aviv, Rishon Lezion, Nes Ziona, and Rehovot, and will cover 44 stations. The expected annual ridership is 56 million passengers. The service will have a dedicated bus lane, signal priority at intersections, electric buses, and a real-time information system.

The project is estimated to cost USD790 million. The construction contract has been awarded to Ayalon Routes Company. The service is expected to be operational in 2028.

Pre-qualification bids invited for Suhar–Abu Dhabi railway link, UAE

Oman and the Etihad Rail Company have invited pre-qualification bids for the development of depots and stations on the railway line planned between Oman and Abu Dhabi. The line will span 303 km and connect the Port of Sohar in Oman to Abu Dhabi in the UAE.

Participants should be companies registered in the UAE or Oman or should be part of a consortium led by a company registered in the UAE or Oman. Participants must have prior experience in delivering similar freight and passenger rail projects. The pre-qualification bid document is available for purchase and for download till August 27, 2023.

Iraq to commence development of cross-border rail project

The Government of Iraq has announced an agreement with Turkey to develop a high-speed cross-border rail link extending up

to the Turkish border. It will invest USD17 billion for the development of the line. The project includes 1,200 km of highway and railway lines combined. The rail corridor will serve 15 stations and will be used for both passenger and freight operations. The line will include an elevated station at Baghdad. The estimated annual ridership is 13.80 million passengers. The contract for rail development and operations has been awarded to Alstom.

Kuwait Ministry of Public Works to undertake railway linkage plan

The Minister of Public Works, Kuwait has designated funds worth USD6.5 million in the 2023–2024 budget to finance the consultancy agreement for the development of a railway linkage between Kuwait and the Kingdom of Saudi Arabia. The scope of the agreement includes development of tourism and logistics infrastructure in the surrounding area, to achieve the goal of the work program of the government.

Consultations completed to implement Cairo LRT Phase 3, Egypt

Consultations have been completed between China-based company AVIC International Holding Corporation (AVIC International) and the Government of Egypt for the development of Cairo Light Rail Transit (LRT) Phase 3. The line will connect El Salam City (east Cairo) with the New Administrative Capital, and will pass through 10th of Ramadan City. LRT Phase 3 will span 20 km, covering four stations. The estimated cost of the project is USD1.2 billion. The contract for execution is yet to be signed.

Construction to commence on Kenya- Ethiopia- Sudan HSR

The LAPSSET Corridor Development Authority has announced plans to commence construction of an electric high-speed rail (HSR) link connecting Kenya to Ethiopia and South Sudan from Port of Lamu. Estimated cost of the project is USD13.8 billion. The line will span 3,000 km on a standard-gauge track, passing through the central Kenyan town of Isiolo, and further branching into three lines to Addis Ababa, Juba and Nairobi, according to the LAPSSET Corridor Development Authority, the agency in charge of the project. A grant of USD9 million is expected from the African Union infrastructure fund to undertake feasibility and engineering studies. Construction is expected to begin in 2025.

NAT develops monorail system in Cairo, Egypt

The National Authority for Tunnels (NAT) has undertaken construction of a driverless monorail system in Cairo. The estimated cost of the project is USD4 billion. Line 1 will span 56.5 km and serve 21 stations. It is expected to commence operation in 2024. The expected ridership is 45,000 passengers per hour in each direction. The details of Line 2, spanning 42 km, are yet to be announced.

Both lines will be designed, constructed, and maintained by a consortium of Alstom, Orascom Construction, and Arab Contractors.

Government of Kenya to develop National Electric Mobility Policy

The Government of Kenya has announced plans to develop the country's first National Electric Mobility Policy. The government has set up a team of 15 members to undertake the development of the policy. The deliverables of the team include developing the EV policy, the strategy and implementation plan, laws, regulations, guidelines, and the Regulatory Impact Assessment (RIA).

FCTA revives Abuja mass transit project, Nigeria

The Federal Capital Territory Administration (FCTA), has announced the rehabilitation of the Abuja Rail Mass Transit (AMRT) project. The project will be delivered by China Civil Engineering Construction Corporation Ltd (CCECC) in one year for an estimated cost of NGN 95 billion.

The AMRT project is a light rail service with a total planned network of 292 km and six lines. Phase 1 with two lines and a network of 45.25 km was completed in 2018.

(1 NGN [Nigerian Naira] = USD0.0013)

Federal Ministry of Transportation plans to adopt electric vehicle mass transit scheme, Nigeria

The Federal Ministry of Transportation, Nigeria has announced plans to transition to electric vehicles under its mass transit scheme. The scheme also plans to revive rail mass transit in Abuja, which will significantly reduce traffic congestion in the city. The details of the plan are to be announced.

LAMATA commences operation on Lagos LRT Blue Line, Nigeria

The Lagos Metropolitan Area Transport Authority (LAMATA) has commenced operations on Lagos light rail transit (LRT) Blue Line. The light rail service spans 27 km. It has been developed in two phases, with a network of 13 km and 14 km in each phase respectively. Operations on the 13-km Phase 1 commenced in January 2023. The line has been constructed by China Civil Engineering Construction Corporation (CCECC), a subsidiary of China Railway Construction Corporation (CRCC).

The expected daily ridership is 175,000 passengers.

Algiers Metro to expand network, Algeria

The Ministry of Transport, Algeria has announced plans to extend the Algiers Metro network by the end of 2023. The network will be extended by 9.5 km and will serve 15 new stations. The expansion plan includes tunnelling works and laying of railway tracks on the El Harrach–Houari Boumediene Airport and Ain Naâdja–Baraki sections. The expansion work is expected to be completed in 2026.◆

EFE

Implementing a USD5.5 billion strategic rail investment plan in Chile

Empresa de los Ferrocarriles del Estado (EFE), or State Railway Company, is the national railway operator and the oldest state-run enterprise in Chile. EFE operates a rail network of more than 2,000 km across four types of train services. Passenger transportation services are provided by EFE's three subsidiaries. These are EFE Valparaíso SA, EFE Central SA, and EFE South SA.

EFE has been implementing a USD5.5 billion strategic rail investment plan called the Chile Sobre Rieles (Chile on Rails) Programme 2027, under which several rail projects are underway. Further, EFE plays a key role in financing its rail projects through the issue of debt bonds in the domestic and international markets.

Operational rail network

EFE provides four types of train services. These are: urban, suburban, provincial, and regional services. Table 1 provides details of each of the train service types. EFE operates and manages a network of nine rail lines, collectively spanning 2,308.3 km and covering 101 stations. EFE provides passenger and freight transportation services across ten regions of the country. These regions are Santiago, Valparaíso, Concepción, Melipilla, Araucanía, Batuco, Los Lagos, Arica, Parinacota, and Visviri. EFE operates a fleet of 209 rail cars grouped under 94 trainsets. Of these, 93 per cent of the trains are electric. Table 2 provides information about the rail network operated by EFE.

Ridership and financial performance

EFE separates the operation of its real estate services, its freight operators' services, and its passenger transportation services. Passenger transportation services are provided by the three subsidiaries which are publicly traded corporations. The revenue for this segment is generated from the sale of tickets and, to a lesser extent, from subsidies received from the government for railway operations in isolated areas. Annual revenue generated through passenger operations increased by 29 per cent, reaching USD799 million in March 2023. Annual ridership increased by 26 per cent, reaching 14.2 million passengers in March 2023. Table 3 provides information about the ridership and revenue generated from passenger rail operations.

Strategic investment plans

In September 2019, EFE commenced a USD5.5 billion investment plan called Chile Sobre Rieles (Chile on Rails) Programme 2027, under which several rail projects are underway.

Table 1: Train services provided by EFE

Train service type	Share in total rail traffic (per cent)	End-to-end journey time (minutes)	Service frequency
Urban	87	30	5–10 minutes
Suburban	10	41	25 minutes
Provincial	2	119	4.5 hours
Regional	1	203	12 hours

Source: EFE Annual Report 2022

Table 2: EFE's rail network in Chile

Region	Line	Service	Average number of daily passengers
Valparaíso	Port of Valparaíso– Limache	Urban	55,000
Central Zone	Nos–Central Station in Santiago	Suburban	54,208
	Rancagua–Santiago	Suburban	15,657
	Buscarril Constitution–Talca	Provincial	139
	Chillán–Central Station	Provincial	863
South Zone	Biotren (connects seven communes of Greater Concepción)	Suburban	24,849
	Laja–Talcahuano	Provincial	1,307
	Victoria–Temuco	Suburban	1,287
Mountain region	Arica–Visviri	Regional	-

Source: EFE Annual Report 2022

Table 3: Ridership and revenue generated from passenger rail operations

Subsidiary	Revenue (USD million)			Ridership (thousand passengers)		
	March 2023	March 2022	Variation (per cent)	March 2023	March 2022	Variation (per cent)
EFE Valparaíso SA	223.7	179.7	24.4	5,182	4,030	28.6
EFE Central SA	480.5	350.9	36.9	6,732	5,307	26.8
EFE South SA	94.7	88.8	6.7	2,257	1,949	15.8
Total	798.9	619.4	68	14,171	11,286	71.2

Source: EFE Consolidated Financial Statements – March 2023

The Melipilla–Santiago Train (USD1.58 billion) and the Santiago--Batuco Line (USD0.7 billion) are the key upcoming projects under this program. The programme aims to triple the annual ridership to 150 million passengers and to double the volume of freight transported to 21 million tonnes per year by 2027. Table 4 provides details on EFE's Strategic Investment Plan – Chile Sobre Rieles 2027.

EFE's role in the financing of rail projects

EFE issues bonds in the domestic and international markets to finance the debt part of its rail projects, along with loans provided by the World Bank. These bonds are guaranteed by the Government of Chile (GoC) and mature within 20 to 30 years. The GoC is responsible for the servicing of the debt without the intervention of EFE, that is,

Table 4: EFE's Chile Sobre Rieles Programme 2027

Category	Project	Stage	Investment (USD million)
Expansion	Melipilla–Santiago	Under construction	1,581.7
Expansion	Santiago–Batuco	Under construction	705.0
Improvement	Nuevo Puente Biobío	Under construction	267.7
Improvement	Chillán–Estación Central	Design and under construction	150
Systems improvement	Railway port logistics platform	Under construction	45
Systems improvement	Payment method	Under construction	6.7
Systems improvement	Control by virtual signage	Design and under construction	107.6
Expansion	Ext. Limache–Quillota –La Calera*	Feasibility	700
Expansion	Valencia station	Under construction	15.2
Extension	Trains to Rancagua–Central station	Under construction	17.6
Replacement	Talca renewal program		25
Expansion	Stations Cajón– Padre las Casa	Design and under construction	0.6
Expansion	Coronel Extension–Lota	Design	120
New service	Arica urban service	Pre-feasibility	24.6
New service	Calera–San Felipe Los Andes	Basic design	123
Expansion	Concepción–Los Ángeles	Basic design	126
New service	Norte Concepción Extension	Pre-feasibility	118
Expansion	Ss Regionales O'Higgins, Maule, Ñuble	Pre-feasibility	200
Expansion	Service to Concepción and Norte Access	Pre-feasibility	576.3
Expansion	Biotren capacity increase	Pre-feasibility	200
Expansion	Cnx Est. Central–Quinta Normal	Pre-feasibility	196
New service	Temuco – Gorbea	Feasibility	134
New service	Pto Montt–Pto Varas–Llanq–Osorno	Pre-feasibility and basic design	60
Total			5,500

Source: EFE Annual Report 2022

Table 5: Details about the latest bonds issued

	Series	Amount (USD million)	Date of issue	Term years	Annual interest rate (per cent)
Domestic market	V	267.59	December 2012	21	3.69
	X	65.01	April 2013	26	3.54
	Z	99.49	December 2013	29.5	3.23
	AB	102.92	June 2015	29.5	3.19
	AC (1)	97.77	January 2017	29.5	2.15
	AD (2)	123.50	April 2019	30	1.90
	AF (3)	132.77	June 2020	30	1.02
International market	International	500.00	August 2020	30	3.08
	International	500.00	September 2021	40	3.84

Source: EFE Consolidated Financial Statements – December 2021

the government directly repays the bond holders of EFE. As a result, the repayment of the debt is not shown in the cash-flow statement of EFE. So far, EFE has issued 23 series of bonds in the local debt market (V-AF are new local bonds). EFE issued its first bond in the international market in August 2020, and issued another bond in September 2021. Each bond is valued at USD500 million and has a maturity of 30 years. The bonds carry an annual interest rate of 3.068 per cent, the lowest ever for any Latin American company. The proceeds of the bonds will be used to finance projects under the Chile Sobre Rieles Programme. Bonds in international markets are not guaranteed by the GoC. However, as with local bonds, debt service is budgeted for by the GoC and paid from the Chilean Treasury through a specific transfer to EFE. EFE has announced plans to issue new bonds worth around USD3.2 billion for the period 2021–2026. Table 5 provides information about the latest bonds issued. EFE will continue to issue bonds in both domestic and international markets to raise finance for Chile's rail projects. This effort needs to be aided with regular financial support from the GoC, as per the existing legal framework and budgetary framework. This will help maintain EFE's financial sustainability in case of revenue shortfalls resulting from the projects and will also help cover any financing gap resulting from the investment plan. Any negative changes in the sovereign rating of the country's economy can affect the company's ability to raise funds for its projects, thus affecting the completion of the projects on time and within budget.

Recent developments

EFE has recorded the following recent developments.

- In August 2023, EFE awarded a contract worth USD171.4 million to a consortium of China-based CRRC Qingdao Sifang and Chile-based Temoinsa to supply 32 three-car electric multiple units (EMUs) for Santiago's suburban rail service under the Trenes para Chile (Trains for Chile) programme. As part of the programme, EFE has signed an agreement with the UK's Department for Transport to increase staff and to enhance freight and passenger transport services.
- In June 2023, EFE announced plans to launch regional train services in three regions under the Trenes de Cercanía 30/30 Programme. The first train service will be on the 29.6-km-long rail line connecting Temuco with Pitrufquén in the La Araucanía region. The second train service will be on the 114.7-km-long rail line connecting Curicó with Linares. The route is part of the electrified main line that connects Santiago with Chillán. The third train service will be on the 27.4-km-long rail line connecting Llanquihue with Puerto Montt, and passing through Puerto Varas.
- In May 2023, EFE signed a memorandum of understanding (MoU) with Renfe, Spain's national transport operator. The MoU includes collaboration in the following areas: preparation of demand and feasibility studies for new lines in Chile; leasing and sale of rolling stock; planning, design, marketing, management, deployment, operation and maintenance of passenger and freight services; training, including technical training, of railway personnel. The agreement also includes a potential leasing contract for passenger rolling stock with diesel and electric traction, along with the possibility of Renfe leasing or selling spare parts and maintenance equipment to EFE.
- In January 2023, the GoC announced plans to upgrade the 187-km Santiago–Valparaíso rail route. The project is estimated to cost USD1.32 billion. Detailed engineering studies are expected to commence immediately and tenders for the project are expected to be announced in 2025. EFE is expected to commence service on the route by 2030.

Conclusion

EFE's collaboration with Renfe and with the UK's Department for Transport will help in the better implementation of rail projects with the infusion of state-of-the-art design, engineering, and operations and maintenance practices. In 2023, EFE launched two major rail programmes, – the Trenes de Cercanía 30/30 Programme and the Trenes para Chile Programme, which will further boost the procurement of rolling stock and accelerate the launch of new train services.

The continued implementation of the Chile on Rails programme will lead to more new projects as well as result in the expansion, upgradation, and systems improvement of existing projects.

Further, EFE has announced plans to acquire rolling stock for the Santiago–Chillán link and to conduct a design study for an upcoming line between Santiago and Valparaíso. The tenders for these projects are expected to be launched by the end of 2023.◆

AV policies in the US

Promoting safety through federal and state collaboration

The United States Department of Transport (USDOT) has released four federal policies governing the adoption of autonomous vehicles (AVs). The first policy was launched in 2016, and the other policies were adopted in 2017, 2019, and 2020 respectively. The policies focus on providing and establishing a regulatory framework for Highly Automated Vehicles (HAVs) and prioritise provisions for user safety. The evolution of AV policies in the US highlights the need for incremental efforts and the significance of holistic stakeholder involvement. The federal policies outline the roles and responsibilities of, and the initiatives to be taken by, multiple federal and state agencies to create a progressive ecosystem for AV technology uptake.

Levels of automation

The AV policies clearly outline vehicle classification based on the level of automation. There are five levels of automation established for regulations. Figure 1 provides an overview and definition of the levels of automation.

AV Policy 1.0, 2016

The USDOT launched the first Automated Vehicle Policy in 2016. The policy was intended to accelerate the adoption of HAVs in the US. The policy primarily pivots around directives on safety concerns related to HAVs and on establishing regulatory frameworks at the state and federal levels to remove barriers in statewide adoption. The policy provides directives for four sections.

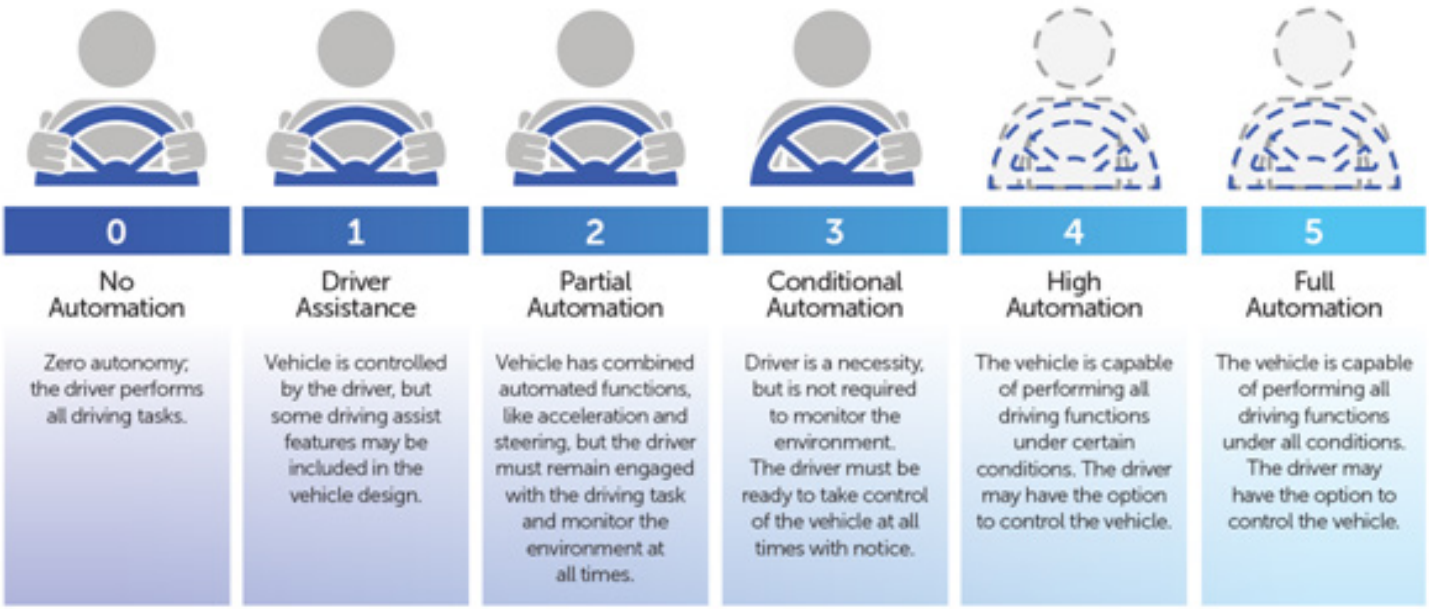
Vehicle Performance Guidance for Automated Vehicles: The guidance outlines best practices for the safe pre-deployment design, development, and testing of HAVs. It also states that the manufacturers of HAVs are to self-certify the compliance of vehicles as per the Federal Motor Vehicle Safety Standards (FMVSS). The guidelines identify the key parameters and areas that are to be addressed by the manufacturer. Figure 2 depicts the areas identified for assessment.

Model State Policy: The directives outlined in the model state policy focus on ensuring the interoperability of HAVs across states. The policy outlines the distribution of roles and responsibilities with respect to regulations governing HAVs at the state and federal levels. The states shall retain the traditional responsibilities for vehicle licensing, registration, traffic law and enforcement, and vehicle insurance. However, the preparation of laws and regulations pertaining to safety and performance standards will be within the purview of the federal government. Table 1 outlines the distribution of roles and responsibilities at the state and national levels.

NHTSA's Current Regulatory Tools: The policy states that the National Traffic and Motor Vehicle Safety Act (NHTSA), 1966 will utilise the existing tools in the current regulatory framework to govern HAVs. These include letters of interpretation, exemptions from standards, rulemaking to amend existing standards or to create new standards, and enforcement authority to address defects that pose a risk to safety. Through these tools, NHTSA will respond to the queries and concerns of manufacturers to enable regulation that aids in the development of HAVs.

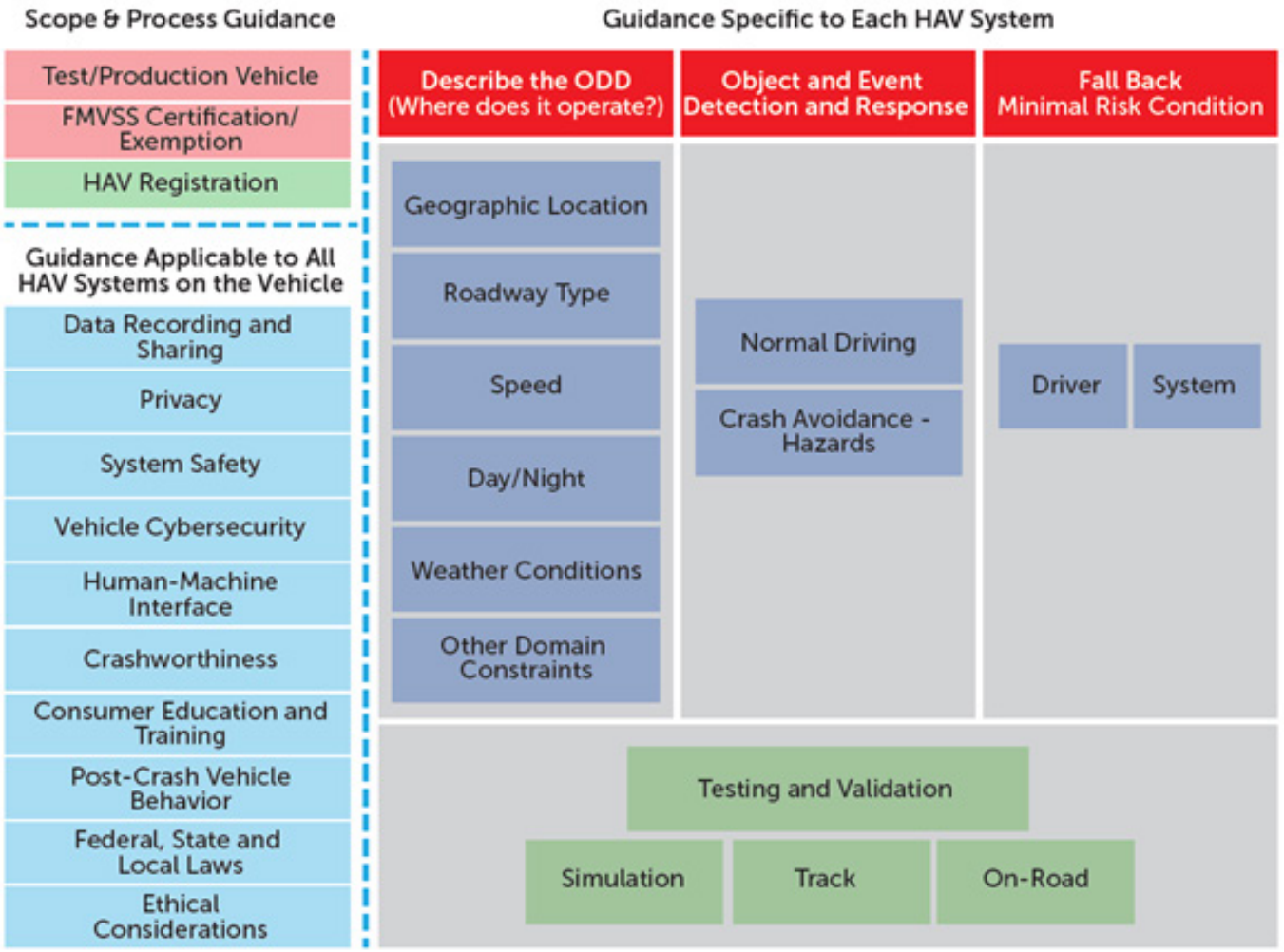
New Tools and Authorities: The policy states that NHTSA will prioritise using the existing tools in the regulatory framework to govern HAVs. However, the regulations required for HAVs may go beyond the scope of the existing tools. The policy document identifies potential new tools and regulatory structures that could aid in the safer and faster deployment of HAVs. Some of the key

Figure 1: Levels of automation



Source: Automated Driving Systems: A Vision for Safety 2.0, 2019

Figure 2: **Framework for vehicle performance guidance**



Source: AV Policy 1.0, 2016

Table 1: **Distribution of roles and responsibilities concerning HAVs**

Federal	State
Enforcing compliance with the FMVSS	Licensing (human) drivers and registering motor vehicles in their jurisdictions
Investigating and managing the recall and remedy of non-compliances and safety-related motor vehicle defects.	Enacting and enforcing traffic laws and regulations
Communicating with and educating the public about motor vehicle safety issues	Conducting safety inspections, where states choose to do so
Issuing guidance for vehicle and equipment manufacturers to follow, such as the Vehicle Performance Guidance for HAVs presented in AV Policy 1.0	Regulating motor vehicle insurance and liability

tools that have been identified are setting up new authorities for overseeing the safety assurance of HAVs, obtaining pre-market approval, adopting cease-and-desist (for imminent hazards), and setting up a post-sale authority to regulate software changes. The new tools could have regulations on variable test procedures for behavioural competence, functional and system safety, and enhanced data collection for research and development.

AV 2.0: Vision for Safety, 2017

The policy provides an in-depth understanding of voluntary guidance for HAVs and examples of best practices for state legislatures to assist states in developing legislation for HAVs as per the roles and responsibilities identified in AV Policy 1.0. The

Table 2: Efforts and initiatives by federal agencies for the uptake of AV

Area of work	Department	Key focus area
Safety	Department of Transportation (DOT)	Technological solutions and regulations for safety in AVs
Mobility for all	National Transportation Safety Board (NTSB)	Crash audit
	Department of Health and Human Services (HSS)	Ensuring mobility solutions for disabled groups
	Department of the Interior (DOI)	AV mobility aids in key locations
	Department of Justice (DOJ)	Enforcing regulations under the Americans with Disabilities Act (ADA), 1990
	Department of Transportation (DOT)	Public transport initiatives to incorporate the needs of disabled groups in transit
	US Access Board	Accessible design and development of accessibility guidelines and standards for mobility
Fundamental research	US Department of Agriculture (USDA)	AVs related to agricultural production and processing
	Department of Defence (DOD)	AV technology in future military missions
	Department of Energy (DOE)	Understanding the system-level impact of AVs in transportation
	Department of Health and Human Services (HSS)	Designs to promote and facilitate the accessibility of AVs for persons with disabilities
	Department of Justice (DOJ)	Vulnerabilities of AVs' computer systems to cybersecurity threats and countermeasures
	Department of Transportation (DOT)	Demonstration and research projects in surface transportation. Various research studies are undertaken by the Federal Highway Administration (FHWA), the Federal Motor Car Carrier Safety Administration (FMCSA), the Federal Transit Administration (FTA), and the National Highway Traffic Safety Administration (NHTSA).
	National Aeronautics and Space Administration (NASA)	Developing a broad range of technologies that are relevant to the space mission and also to surface AVs
	National Science Foundation (NSF)	Potential benefits of and challenges in the introduction of AV technologies into the current transportation system through a variety of programs
Security and cybersecurity	Department of Energy (DOE)	Vehicle-related cybersecurity in EVs
	Department of Homeland Security (DHS)	The Cybersecurity and Infrastructure Security Agency (CISA) working on data analysis for national security
	Department of Justice (DOJ)	Enforcing laws in cyberspace
Infrastructure	Department of Energy (DOE)	Big data analytics and high-performance computing infrastructure for modelling and simulating AV software
	Department of Transportation (DOT)	Detailed proposals for prototyping and testing
Spectrum and connectivity	Department of Energy (DOE)	Benefits of AVs on connectivity
	Department of Homeland Security (DHS)	Risks of 5G adoption
	Department of Transportation (DOT)	Connected vehicle development and implementation

policy focuses on ensuring safety in the directives identified for both voluntary guidance and best practices. The policy identifies 12 design elements for voluntary guidance. These include vehicle cybersecurity, human–machine interface, validation methods, object and event detection and response, operational design domain, safety systems, post-crash Automated Driving System (ADS) behaviour, crashworthiness, data recording, consumer education and training, and compliance with federal, state, and local laws. The policy directs manufacturers to self-assess how they can cater to each of the 12 design elements. However,

Figure 3: AV 4.0 key areas and principles



these assessments are not subject to federal approval. The states are encouraged to incorporate the self-assessment as a legal requirement for all phases of ADS development.

The best practice for legislation outlines four key suggestions for state nodal agencies.

- To provide a technology-neutral environment
- To provide licensing and registration procedures
- To provide reporting and communication methods for public safety officials
- To review traffic laws and regulations that may serve as barriers to the operations of ADS.

AV 3.0: Preparing for the Future of Transportation, 2019

AV 3.0 focuses on the safe, reliable, efficient, and cost-effective integration of automation into a broader spectrum of multimodal surface transportation. The policy outlines six principles guiding the DOT on automation and five strategies for translating the policy directives into actions. The six principles are to give priority to safety, to ensure that regulations remain technology neutral, to modernise regulations to support deployment, to encourage a consistent regulatory and operational environment, to take proactive steps to encourage automation, and to protect and enhance the freedom to drive privately owned vehicles. The five strategies for implementation are to encourage stakeholder engagement, to adopt best practices, to adopt voluntary standards, to conduct targeted research, and to upgrade regulations.

AV 3.0 introduces regulations and a framework for public transit. It lays the foundational components for establishing the Public Transportation Agency Safety Plans (PTASP) rule. The rule, which has been effective since July 2019, is applicable to transit agencies operating rail fixed guideways and bus services. It also outlines guidelines for the intersection of AV at railway crossings, ports, and highways.

AV 4.0: Ensuring American Leadership in AV Technologies, 2020

AV 4.0 focuses on advancing the market uptake of AV technologies and sets out the details of the collaborative efforts required from all stakeholders to achieve this goal. The policy incorporates three core areas and 10 principles of the USDOT. Figure 3 outlines the core areas and principles.

The policy document also highlights the efforts undertaken by several federal agencies to advance the uptake of AV. Table 2 outlines the agencies and their respective initiatives.

Evolution and assessment

The AV policy in the US has evolved over the past eight years.

The first policy focused on setting up the essential framework at the national and state levels to ensure the consistent adoption of AV regulations that enable the uptake of AV technology. The policy established safety as the prime focus of all regulatory frameworks. The clear distribution of roles and responsibilities at the federal and state levels has enabled the barrier-free and streamlined advancement of AV technology.

The second policy focused on involving the private sector by establishing self-assessment guidelines focusing on safety. The guidelines also provide a template for the agencies to adopt in their own areas of work and application. The third policy addressed the regulatory frameworks required for the adoption of integrated AV technology and defined the frameworks for adoption in public transport. The fourth policy focuses on establishing the US as the pioneer in AV technology uptake in all possible areas of application. The policy extends its ambit beyond transport and incorporates frameworks and directives for other crucial areas of AV adoption such as agriculture, space, and cybersecurity.

The evolution of AV policy in the US establishes a strong case for and provides ample evidence of the importance and effectiveness of incremental policy measures that are built upon one another to develop a holistic ecosystem for the uptake of AV technology.

Transit State of Good Repair Grants Program

Recent developments and funding

The State of Good Repair (SOGR) Grants Program was launched under the Bipartisan Infrastructure Law (BIL), enacted as the Infrastructure Investment and Jobs Act (IIJA), 2021. In 2023, IIJA authorized capital assistance of USD18.39 billion over the next five years for the SOGR program. This includes USD1.5 billion for the Rail Vehicle Replacement Program and an additional USD4.75 billion in advance appropriations. The objective of the program is to maintain the transit infrastructure in a good and fit condition for use. The capital assistance has doubled in the last decade and yet the anticipated assistance required for achieving a 'state of good repair' has been falling short. The repair and maintenance of transit infrastructure is lagging because the assistance approved under the program was either underestimated or its allocation has been delayed.

Trends in the last decade

Since the launch of the SOGR program, a total capital assistance of more than USD29 billion has been allocated to different states for high-intensity fixed guideways and high-intensity motorbus. The assistance has increased by 100 per cent in the last two years compared to 2014. In 2014 and 2023, the total apportionments were close to USD2 billion and USD4 billion, respectively. The scale of capital funding increased gradually every year until the outbreak of the COVID-19 pandemic. Funding declined in 2019, 2020, and 2021. However, as per the federal commitment to help the economy rebound from the effects of the COVID-19 pandemic, the assistance was increased by twofold in 2022 and 2023. Figure 1 represents the apportionments allotted over the last 10 years.

Under the SOGR program, all 50 states have been allocated capital assistance over the past 10 years. To ensure consistency in the analysis, Figure 2 excludes apportionments given to New Mexico, Iowa, and Oklahoma, as these states did not receive funding in the initial years of the program. The top states to receive the highest apportionments over the last 10 years are New York (USD8.04 billion), California (USD4.5 billion), Illinois (USD2.8 billion), New Jersey (USD1.9 billion), and Pennsylvania (USD1.9 billion). Figure 2 depicts the total capital assistance received by the listed states between 2014 and 2023.

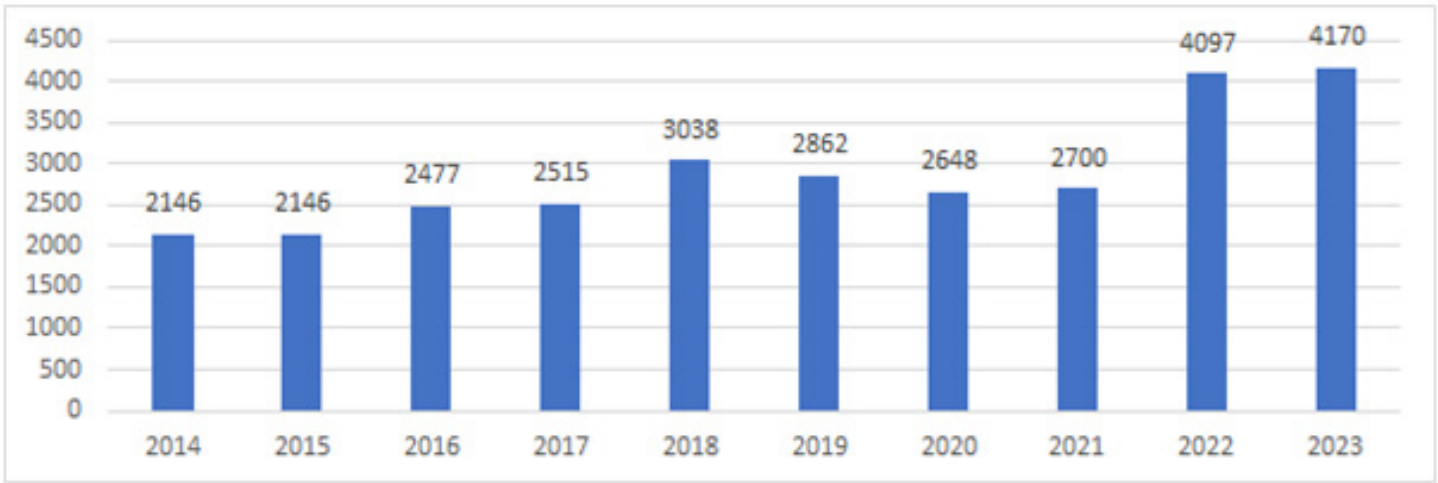
Capital assistance under the SOGR program is allocated for projects undertaking repair, maintenance, and upgradation of transit systems that are in two categories – high-intensity fixed guideways and high-intensity motorbus. Between 2014 and 2023, 97 per cent of the assistance has been allocated to high-intensity fixed guideways. The total sum amounts to USD28.7 billion. Only 3 per cent has been allocated to high-intensity motorbus. The total sum amounts to USD0.9 billion. Figure 3 shows the distribution of fund allocations between the two categories.

The allocation and distribution of apportionments between high-intensity guideway and high-intensity motorbus have been consistent over the last 10 years for the states that have been considered for analysis here. For high-intensity motorbus, the highest apportionment of USD169 million was allotted in 2017. Figure 4 shows the yearly distribution of allocation between high-intensity fixed guideway and high-intensity motorbus between 2014 and 2023.

Apportionments in FY 2023

In 2023, the states received a total capital assistance of USD4.245 billion under the SOGR. Out of this, the capital allocated to high-intensity fixed guideway projects amounts to USD4.12 billion and the capital allocated to high-intensity motorbus projects amounts

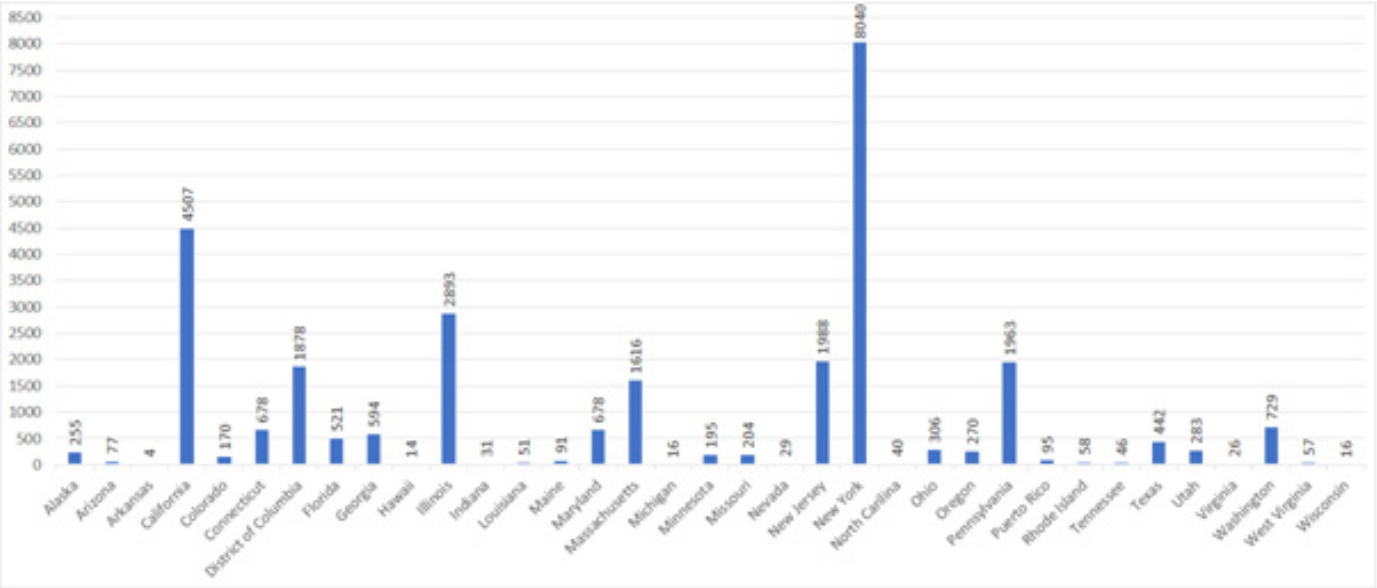
Figure 1: Capital assistance granted under SOGR from 2014 to 2023



Note: The total funding excludes funds allocated to New Mexico, Iowa, and Oklahoma for the sake of analytical consistency. The total funding to the above-mentioned states amounts to USD98 million.

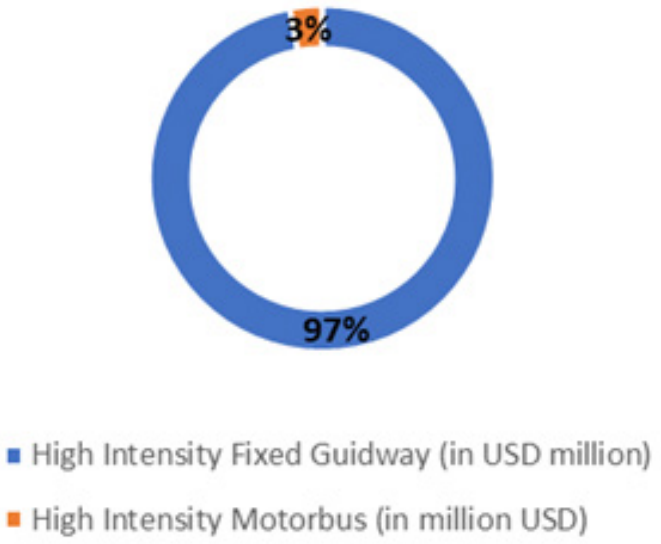
Source: Federal Transit Administration, Archived Apportionments

Figure 2: Capital assistance delivered to states from 2014 to 2023



Source: Federal Transit Administration, Archived Apportionments

Figure 3: Distribution of fund allocations between high-intensity fixed guideway and high-intensity motorbus



Source: Federal Transit Administration, Archived Apportionments

to USD119 million.

Of the total investment, apportionments to the top 10 urbanised high-intensity fixed guideway projects amount to USD2.88 billion, nearly 70 per cent of the total fund allocated under this category. For high-intensity motorbus projects, the top five urbanised areas received a total sum of USD77.98 million, nearly 66 per cent of the total apportionment allocated to this category.

The funding allocation, the share of apportionment, and the urbanised area receiving capital assistance have been similar in the past years. Although the SOGR policy is intended to cover the funding gap required to maintain the transit system across the country, the funding allocations have been skewed. For instance, New York has consistently received the highest apportionment in the last three years. The apportionment in 2021, 2022, and 2023 was USD0.74 billion, USD1.12 billion, and USD1.14 billion, respectively.

Table 1 provides details of the top 10 areas that have received the highest apportionments in FY 2023 for projects in the category of high-intensity fixed guideways.

Future funding

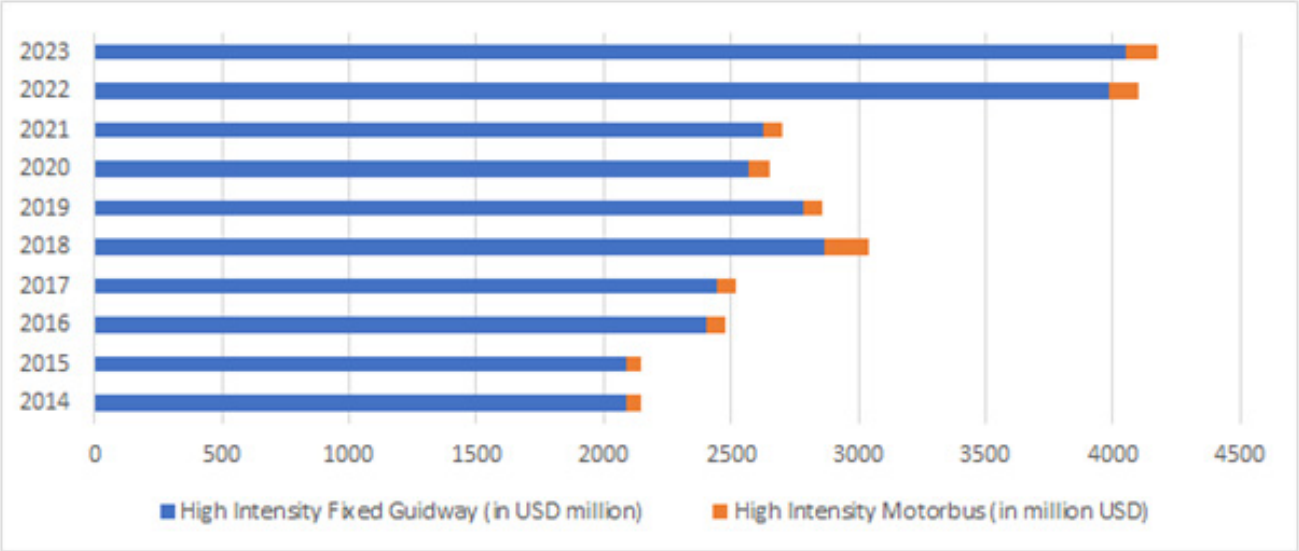
The Federal Transit Administration (FTA) has published the details of the allocated funding for the next three financial years under the SOGR program. Funding for 2024 has received an incremental allocation. However, the year-on-year increase is less than 10 per cent. The program is behind the committed funding for the repair and maintenance of transit infrastructure, yet the backlog in funding has yet to be addressed. Table 3 presents details of the allocated funding under the SOGR program for the next three years.

In addition to the two categories of transit projects discussed above, in 2021, the FTA also added competitive grants for rail vehicle replacement. The competitive grants are available for state and local governmental authorities. Program requirements and funding allocation amounts will be identified in a Notice of Funding Opportunity. Not more than three new competitive awards to eligible projects may be announced each fiscal year. The FTA may select projects for multi-year awards.

Backlog in funding: The case of the Northeast Corridor

SGOR funding is falling short in meeting the needs for the repair

Figure 4: Year-wise distribution of capital assistance under SOGR



Source: Federal Transit Administration, Archived Apportionments

Table 1: Apportionments allocated to high-intensity fixed guideways in 2023

State	Urbanised area	Amount (in USD million)
New York	New York City	1,129.60
Illinois	Chicago	405.86
New Jersey	Northeastern New Jersey	259.55
District of Columbia	Washington, DC–Virginia–Maryland	258.46
Massachusetts	Boston	227.46
Pennsylvania	Philadelphia, PA–New Jersey–Delaware–Maryland	226.79
California	San Francisco—Oakland	222.43
California	Los Angeles—Long Beach—Santa Ana	158.55
Total		2,888.7

Source: Federal Transit Administration Table 2 provides details of the top ten areas that have received the highest apportionments in FY 2023 for projects in the category of high-intensity motorbus.

Table 2: Apportionments allocated to high-intensity motorbus in 2023

State	Urbanised area	Amount (USD million)
Washington	Seattle	26.92
New York	New York City	14.79
Minnesota	Minneapolis—St. Paul	12.58
California	Los Angeles—Long Beach—Santa Ana	12.11
Texas	Houston	11.58
Total		77.98

Source: Federal Transit Administration

and maintenance of transit infrastructure in most states. In 2022, the Northeast Corridor (NEC) developed a capital investment plan for FY 2023–2027 that outlines the backlog of the SOGR program. The NEC consists of four right-of-way (ROW) infrastructure owners (Amtrak, the Massachusetts Bay Transportation Authority, the Connecticut Department of Transportation, and the New York Metropolitan Transportation Authority (NY MTA Metro-North Railroad) and multiple station owners and service providers.

Table 3: Capital assistance under the SOGR program for the next four financial years

Year	2023 (in USD million)	2024 (in USD million)	2025 (in USD million)	2026 (in USD million)
5337 State of Good Repair	4,483	4,575	4,649	4,743
High-Intensity Fixed Guideway Tier	4,064	4,153	4,225	4,316
High-Intensity Motorbus Tier	119	122	124	127
Competitive Grants for Rail Vehicle Replacement	300	300	300	300

Source: Federal Transit Administration

Table 4: Estimated cost of addressing major backlog in SOGR for NEC, FY 2023–2027

State	Project	Funding (in USD billion)
Connecticut	Connecticut River Bridge Replacement	1.1
Connecticut	Devon Bridge Replacement	3.1
Connecticut	Saugatuck River Bridge Replacement	0.6
Connecticut	Walk Bridge Replacement	1.1
Connecticut	Cos Cob Bridge Replacement	2.0
New York	Pelham Bay Bridge Replacement	0.7
New York	East River Tunnel Rehabilitation	1.6
New Jersey	Gateway: Hudson Tunnel	16.1
New Jersey	Gateway: Portal North Bridge	2.2
New Jersey	Gateway: Sawtooth Bridges Replacement	2.0
New Jersey	Gateway: Highline Renewal and State of Good Repair	0.4
New Jersey	Gateway: Highline Renewal and State of Good Repair: Dock Bridge	0.2
Maryland	Susquehanna River Bridge Replacement	2.7
Maryland	Bush River Bridge Replacement	0.7
Maryland	Gunpowder River Bridge Replacement	1.3
Maryland	Baltimore & Potomac Tunnel Replacement	6
	Total	**41.8**

Source: NEC Capital Investment Plan, Fiscal Years 2023–2027, 2022

A backlog refers to an asset that is no longer in good condition. When assets are operated beyond the state of good condition, it is more expensive to operate and maintain them. It also increases the cost of safety. Hence, the cost of addressing the backlog is higher than the original cost estimated to initiate repair at an appropriate time in the life cycle of transit infrastructure. As per the assessment in FY 2023, the cost of addressing the SOGR backlog on the NEC is USD41.8 billion. Table 4 outlines the estimated cost of investment required to address the SOGR backlog.

Support initiatives to mitigate backlog

In 2022, the US Department of Transportation (USDOT) awarded USD233 million to 11 projects in eight states under the Federal–State Partnership for State of Good Repair Grant Program 2017–2021, launched in 2017.

This program provided funding for capital projects within the United States to repair, replace, or rehabilitate qualified railroad assets to reduce the state of good repair backlog and to improve intercity passenger rail performance.

The projects include bridge and tunnel replacement along the NEC in New York (NY), New Jersey (NJ), Maryland (MD), and Connecticut (CT). Additional funds were allocated to California, Michigan, and Massachusetts to be invested in projects for improving the safety, reliability, and sustainability of rail infrastructure. Table 5 outlines the funding allocation to different states.

Table 5: Funding allocation under SOGR under the Federal–State Partnership for State of Good Repair Grant Program, 2022

State	Project	Funding [is this in USD million]	Recipient	Description
California	San Diego Rail Optimization and Resilience Programme	27.3	San Diego Association of Governments	The proposed project replaces the 100-year-old San Luis Rey River Bridge with a double-track concrete bridge and eliminates a 0.6-mile single-track bottleneck.
Connecticut	Connecticut River Bridge Replacement Project	65.2	Amtrak	The proposed project replaces the ageing Connecticut River Bridge.
Connecticut	New Haven Line Power Programme Phase I	20.0	Connecticut Department of Transportation	The proposed project replaces two power substations for the railroad signalling system along the New Haven Line.
Illinois	Chicago Union Station (CUS) Concourse Improvement Project	3.0	Amtrak	The proposed project funds the final design and construction management for the Chicago Union Station (CUS) concourse level.
Maryland	Final Design for Phase 1 of the Susquehanna River Bridge Replacement Project	20.0	Amtrak	The proposed project funds the final design for the replacement of the 115-year-old Susquehanna River Bridge.
Massachusetts	South Elm Street Bridge Replacement Project	7.5	Massachusetts Bay Area Transportation Authority	The proposed project funds the replacement of the South Elm Bridge which carries the Haverhill Line over South Elm Street between the Bradford and Haverhill stations.
Michigan	Michigan Accelerated Rail Bridge Reconstruction Project	1.5	Michigan Department of Transportation	The proposed project will fund preliminary engineering and preparation of National Environmental Policy Act (NEPA) documents for a proposed reconstruction of five deficient bridge structures.
New Jersey	Sawtooth Bridges Replacement Project	45.0	Amtrak	The proposed project will fund the completion of the final design for the Sawtooth Bridges Replacement project designed to replace two 110-year-old railroad bridges in Kearny with three new ones.
New York	East River Tunnel Rehabilitation Enabling Components Project	10.6	Amtrak	The proposed project will fund the completion of early-action capital projects necessary for the larger East River Tunnel Rehabilitation project.
New York	Pelham Bay Bridge Replacement Project	4.5	Amtrak	The proposed project will fund the completion of National Environmental Policy Act (NEPA) documentation and preliminary engineering for the Pelham Bay Bridge Replacement project.
New York	Rhinecliff Station High-Level Platform, Vertical Circulation, and Interlocking Project	28.2	New York State Department of Transportation	The proposed project will fund the final design and construction to replace the existing 520-foot-long low-level platform at Rhinecliff Station with a new, longer high-level platform.

Source: Federal Transit Administration

Conclusion

The SOGR program provides capital assistance for the repair, maintenance, and modernisation of high-intensity fixed guideway and high-intensity motorbus transit projects. Over the past 10 years, the program has allocated assistance across the states in the country. The program is, however, facing funding backlogs to support the investment required to upgrade the existing infrastructure. Transit agencies and state governments are identifying the cost of the backlog and are exploring other funding sources to mitigate the effect of the backlog on the state of infrastructure.

The federal transit agencies have launched support funding schemes such as the Federal–State Partnership for State of Good Repair Grant Program 2017–2021 and competitive grants for rail vehicle replacement to reduce the funding gap of the SOGR program.◆

Ireland: Operational statistics of bus service

Commercial bus services in Ireland are provided by private operators. The two principal contracted state-funded bus operators are Bus Éireann and Dublin Bus, which operate some of the major services such as the Bus Éireann Expressway services and the Dublin Bus Airlink services. Ridership witnessed a CAGR of 3 per cent between 2010 and 2019. Ridership saw a drastic decline of 48 per cent in 2020. Ridership decreased by 30 per cent in 2021 as compared to 2020 and increased by 20 per cent in 2022 as compared to 2020.

Table 1 provides information about the annual ridership trends on Dublin buses in 2010–2022.

Table 1: Annual ridership trend on Dublin buses in 2010–2022

Year	Ridership (million passengers)
2010	147.6
2011	145.3
2012	143.6
2013	142.9
2014	147.7
2015	151.8
2016	159.3
2017	169.3
2018	179.2
2019	196.2
2020	100.6
2021	69.9
2022	121

Source: Central Statistics Office

The distance travelled by Dublin buses decreased by 3 per cent between 2010 and 2013. The distance travelled witnessed an average increase of 3 per cent in 2014–2020. The distance covered by Dublin buses decreased by 54 per cent in 2021 compared to 2020 and increased by 20 per cent in 2022 as compared to 2020. Table 2 provides information about the distance covered by Dublin buses in 2010–2022.

Table 2: Distance covered by Dublin buses in 2010–2022

Year	Distance (million-km)
2010	87
2011	84.2
2012	82.4
2013	76.8
2014	80.3
2015	81.2
2016	82.9
2017	84.2
2018	91
2019	98.7
2020	102.6
2021	46.2
2022	50.1

Source: Central Statistics Office

The bus fleet size varied from 914 to 1,023 buses.

Table 3 provides information on the fleet size of the Dublin bus services.

Table 3: Dublin bus fleet size

Year	Number of buses
2010	1,023
2011	940
2012	914
2013	907
2014	919
2015	943
2016	967
2017	993
2018	987
2019	985
2020	998

Source: Central Statistics Office

Ireland: Operational statistics of rail service

Rail services in Ireland are operated by Iarnród Éireann (Irish Rail). Ridership in 2010–2015 was constant, with intermediate fluctuations. Ridership increased at a CAGR of 4 per cent from 2015 to 2019.

However, ridership decreased by 64 per cent in 2020 compared to 2019 due to the impact of the COVID-19 pandemic.

In 2021, there was a minor increase in ridership. Ridership witnessed an increase of 51 per cent in 2022 as compared to 2021, but it has yet to reach the pre-pandemic levels.

Table 1 provides information about the annual ridership trends on railways in 2010–2022.

Table 1: Annual ridership trend on railways in 2010–2022

Year	Ridership (million passengers)
2010	38.2
2011	37.4
2012	36.7
2013	36.7
2014	37.8
2015	39.7
2016	42.8
2017	45.5
2018	48
2019	50.1
2020	17.9
2021	17.4
2022	35.8

Source: Central Statistics Office

The distance covered by trains in2010–2015 was constant at 15.96 million-km. In 2016–2019, the distance covered by trains was constant, with only intermediate fluctuations. The distance covered by trains declined by 16 per cent in 2020 as compared to 2019. However, the distance covered by trains witnessed a y-o-y increase of 6 per cent in 2021 and of 12 per cent in 2022.

Table 2 provides information about the distance covered by trains in 2010–2022.

Table 2: Distance covered by trains in 2010–2022

Year	Distance (million-km)
2010	15.95
2011	15.96
2012	15.96
2013	15.96
2014	15.96
2015	15.96
2016	16
2017	15
2018	16.2
2019	17.7
2020	14.7
2021	15.7
2022	17.6

Source: Central Statistics Office

Individual train types such as Intercity (Intercity Railcar or ICR) and Commuter (Diesel Multiple Unit or DMU) are generally specific to a particular service. Train types like Cork Commuter (MKIV), Dublin to Belfast Enterprise (DD), and Dart services (EMU) are exclusive to a service type.

Table 3 provides information on the rail fleet size in 2020 in Ireland.

Table 3: Rail fleet size across categories in 2020

Train type	Number of trains
3 ICR (Intercity Railcar)	84
4 ICR (Intercity Railcar)	100
5 ICR (Intercity Railcar)	50
29000 DMU (Diesel Multiple Unit)	116
2800 DMU (Diesel Multiple Unit)	20
2600 DMU (Diesel Multiple Unit)	16
MKIV (Mark 4 Cork Line Train)	67
DD (De Dietrich Belfast Enterprise Train)	32
EMU (DART Electrical Multiple Unit)	144
Total	**629**

Source: Central Statistics Office

Ireland: Ridership trend and vehicle km on ILUAS light rail transit service

Transdev Ireland operates the Luas light rail transit (LRT) system serving Dublin City. The network consists of two lines. The Red Line spans 20 km from The Point to Tallaght and from Connolly to Saggart and covers 30 stops. The Green Line spans 22.1 km from Broombridge to Brides Glen and covers 35 stops.

In 2020, ridership declined drastically by 60 per cent due to the impact of the COVID-19 pandemic.

Table 1 provides information about the annual ridership trends on the Luas light rail vehicles (LRVs) in 2010–2022.

Table 1: Annual ridership trend on Luas LRT in 2010–2022

Year	Ridership (million passengers)
2010	27.5
2011	29.1
2012	29.3
2013	30.5
2014	32.6
2015	34.6
2016	34
2017	37.6
2018	41.8
2019	48.3
2020	19.2
2021	19.5
2022	38.7

Source: Central Statistics Office

The distance covered by the Luas LRVs saw a slight increase from 2010 to 2011 and then remained constant from 2011 to 2017, with only intermediate fluctuations.

Table 2 provides information about the distance covered by passengers on LRVs in 2010–2022.

Table 2: Annual operated vehicle kilometres (millions)

Year	Distance (million-km)
2010	2.9
2011	3.7
2012	3.8
2013	3.5
2014	3.7
2015	3.7
2016	3.5
2017	3.7
2018	4.1
2019	4.4
2020	4.3
2021	4.2
2022	4.1

Source: Central Statistics Office

The trams deployed were manufactured in La Rochelle, France, by Alstom Transport. The models are: Citadis 401, 402, and 502.

Table 3 provides information on the fleet size of the Luas LRT service.

Table 3: LRT fleet size in 2020

LRV type	Number of LRVs
Citadis 401	40
Citadis 402	26
Citadis 502	15
Total	81

Source: Central Statistics Office

North America

WMATA receives federal grants to support transition to electric buses, US

The Washington Metropolitan Area Transit Authority (WMATA) has received a grant of USD104 million from the Federal Transit Administration (FTA) to renovate a bus garage and to allow the parking of electric buses.

WMATA plans to make a complete transition to an electric fleet by 2042. In line with the plan, WMATA has purchased 12 electric buses this year.

The funding will be used to convert an old Metro bus garage into a bus parking facility and will be jointly used by Metro and Fairfax to house electric buses.

WMATA receives federal grant worth USD110 million for electrification, US

The Washington Metropolitan Area Transit Authority (WMATA) has received a federal grant of USD110 million from the Federal Transit Administration (FTA) to transition to battery-electric buses.

The grant is provided under the Low or No Emission Grant Program. It will be used for the development of nine bus garages and for the purchase of 1,600 zero-emission buses by 2042.

Amtrak to invest USD1 billion for rail upgradation, US

Amtrak has launched a rail upgrade and modernisation plan that is expected to cost USD1 billion. It has received part federal funding. The plan includes the modernisation of Ivy City's maintenance yard and five other maintenance facilities.

Amtrak will be inviting bids from contractors to undertake the work at Ivy City for an estimated contract cost of USD350 million. The bid is yet to be announced.

Amtrak has also announced plans to replace the existing rolling stock and has ordered 83 multi-powered Airo trains from Siemens Mobility under this plan.

The new trains are expected to run on the Palmetto route in 2026.

FRA launches funding opportunity for STC grant program, US

The United States Department of Transportation's (USDOT's) Federal Railroad Administration (FRA) has announced applications for funding of USD139 million for rail project upgrades in Alaska, South Dakota, and Wyoming. The funding will be provided through the Infrastructure Investment and Jobs Act (IIJA) under the Special Transportation Circumstances (STC) grant program.

The project proposals can include plans for improving intercity passenger rail service, enhancing safety systems, and initiating infrastructural development. The grant will cover a maximum of 80 per cent of the total project cost.

Applications will close on September 29, 2023.

Metropolitan Council agrees to provide funding for Green Line Extension, US

The Metropolitan Council and Hennepin County, Minnesota have agreed to provide joint funds to complete the Green Line Extension Light Rail Transit (LRT) project.

Green Line Extension spans 23 km and will connect Minneapolis to Eden Prairie. The Metropolitan Council will contribute 45 per cent of the construction cost. The funding is expected to be secured as a grant from the Federal Transit Administration (FTA) in 2024. Hennepin County will contribute to the remaining 55 per cent of the capital costs from revenue collected through transit sales tax.

The service is expected to commence in 2027.

RTC receives grants to develop high-capacity transit system in Las Vegas, US

The Regional Transportation Commission of Southern Nevada (RTC) has received a federal grant of USD6 million to complete the planning, analysis of alternatives, preliminary engineering, and environmental clearance of a 27-km-long mass transit line along Charleston Boulevard in Las Vegas. Two alternatives under consideration are light rail transit (LRT) and bus rapid transit (BRT) service.

USDOT announces funding for transportation data and technology systems

The United States Department of Transportation (USDOT) has announced the launch of the Strengthening Mobility and Revolutionising Transportation (SMART) Grants Program. The program is facilitated under the Bipartisan Infrastructure Law (BIL). Under this program, USDOT will allocate grants of up to USD500 million over five years to conduct demonstration projects focused on advanced smart community technologies and systems that improve transportation efficiency and safety.

Applications are open for stage 1 – Planning and Prototyping Grants. During this stage, applicants can apply to seek funds for developing innovations aimed at solving real-world transportation problems and focused on building data and technology capacity and experience for state, local, and tribal governments. The technology areas eligible for the grant include coordinated

automation, connected vehicles, sensors, systems integration, delivery/logistics, innovative aviation, smart grid, and traffic signals.

The deadline for submitting applications is October 10, 2023.

CAT approves Transit Master Plan for Chatham County and receives federal grant for bus facility upgrade, US

Chatham Area Transit (CAT) has approved the Master Transit Plan for Chatham County, Georgia. The plan is a 20-year-long vision document that includes long-term and short-term infrastructural and investment strategies. The plan focuses on expanding the public transport network, enhancing the user experience through improved bus stops, and introducing new micro transit services. The Master Transit Plan will be revised every five years to incorporate new funding opportunities and to meet community demands.

CAT has also received a grant of USD30 million from the Federal Transit Administration (FTA) under the Low or No Emission Vehicle Program and the Grants for Buses and Bus Facilities Competitive Program. The fund will also be used to replace 31 old diesel-fuelled buses with 15 battery–electric buses and 16 hybrid electric–diesel buses. The capital cost of procurement is USD57 million. The remaining funding is also expected to be granted by FTA.

Latin America

Teresina suburban rail investment package approved, Brazil

The Government of Brazil has approved the rail investment package worth BRL11 million for the renovation and extension of the existing 13.5-km-long 1,000 mm gauge suburban rail network in Teresina. Of this, BRL9.4 million has been allocated for the conversion of an additional 2.5-km-long freight rail section into a passenger rail section, and BRL1.6 million has been allocated for the renovation of the existing 4-km-long passenger rail section.

The converted extension section will run from Boa Esperança station on the existing route to the Colorado district to the east. The extension works will be completed in eight months.

The existing section will be renovated in two phases. The first phase will cover renovation of the 3.2-km-long-section between Boa Esperança station and Itararé terminus; the second phase will cover renovation of the 0.8-km-long section between Matinha and Alberto Silva in the city centre.

Further, the remaining 9.5-km-long section is expected to be renovated with a budget of BRL200 million. The financing agreement is yet to be finalised.

(1 BRL [Brazilian Real] = USD0.20)

Asia Pacific

Philippines DoTr seeks PHP163.75 billion for rail projects in 2024 National Budget

The Department of Transportation (DOTr), Philippines has sought funds worth PHP163.75 billion for the construction and maintenance of seven rail lines in and around Metro Manila in 2024.

The loan application seeks PHP76.34 billion for the development of North–South Commuter Railway (NSCR), PHP68.37 billion for the development of Metro Manila Subway Project (MMSP), PHP10.29 billion for the development of Metro Rail Transit Line 3 (MRT-3), PHP6.4 billion for the expansion and upgrade of land transport, and PHP7.07 billion for the development of aviation and maritime projects. The agency will also allocate PHP500 million for the development of active transport in urban areas, including the construction of bike lanes and pedestrian walkways. Additionally, the funding will also cover the government's contribution to develop the Light Rail Transit Line 1 (LRT-1) Cavite Extension, and to implement pre-construction works on the Metro Rail Transit Line 4 (MRT-4) and on Philippine National Railways (PNR) South Long Haul projects.

(1 PHP [Philippine Peso] = USD0.017)

TrueGreen Mobility acquires North Sydney Bus Charters, Australia

TrueGreen Mobility has acquired North Sydney Bus Charters, a private coach charter company. TrueGreen currently owns zero-emission bus companies such as Foton Mobility, Gemilang Australia, Nexport, and GoZero in Australia.

The procurement is estimated to cost AUD100 million.

(1 AUD [Australian Dollar] = USD0.64)

Europe

Siemens to acquire Heliox Energy

Siemens has confirmed plans to acquire Netherlands-based Heliox Energy from private equity firm Waterland and an entity owned by a group of employees and individual shareholders. Both the companies have signed an agreement to this effect.

Heliox Energy specialises in providing fast charging solutions for heavy-duty electric buses and trucks.

The acquisition will complement Siemens' existing eMobility charging portfolio and will extend its market reach in Europe and North America in charging equipment and infrastructure.

Siemens eMobility is part of Siemens Smart Infrastructure. It offers internet of things (IoT)-enabled hardware and software, and services for AC and DC charging from 11 to 300 kW.

Ministry of Transport and Infrastructure announces new electric rail network in Turkey

The Ministry of Transport and Infrastructure has announced the construction of a new 286-km-long electric, high-speed railway (HSR) network connecting Gaziantep to Mersin, and other ports and industrial zones in Adana, Hatay, Diyarbakır, Şanlıurfa, and Central Anatolia. The electric railway network will replace the existing diesel trains.

The project is estimated to cost USD1 billion and is jointly funded by UK Export Finance (UKEF) and Turkey's Ministry of Transport and Infrastructure. UKEF will provide USD850 million in loan guarantees and Turkey's Ministry of Transport and Infrastructure will provide a grant of USD195 million. The Rönesans Holding group has been appointed as a contracting agency to deliver the project.

Heramba to acquire Kiepe Electric, Germany

Heramba Holdings has signed a definitive agreement with Germany-based Knorr-Bremse to acquire its Kiepe Electric business. The acquisition is expected to close by the end of 2023, subject to customary closing conditions. Kiepe Electric is a company focused on decarbonisation of commercial and public transportation. It specialises in electric traction equipment for main line and urban rolling stock. This includes the design, manufacturing, and installation of power electronics products, electric drives, vehicle control hardware, and intelligent software for fleet and energy management. Kiepe Electric has more than 580 employees in six countries. It generated revenue worth USD120 million in 2022.

Heramba Holdings is a specialist company focused on investing in companies with technologies and capabilities that can accelerate the decarbonisation of urban transport.

Agreement signed for Münster–Lünen rail line upgrade, Germany

Deutsche Bahn (DB) has signed a framework agreement with the federal and state governments of Germany to upgrade the single-track line from Münster to Lünen near Dortmund in the state of North Rhine-Westphalia. The upgrade forms part of the Deutschlandtakt Programme to introduce a regular-interval timetable across the country. The programme also aims to offer passengers better connections at key nodes and to remove bottlenecks across the network.

The works will include track-doubling on the 24-km-long section between Münster-Amelsbüren and Werne an der Lippe, and deployment of passenger trains on the line with a maximum speed of 200 km/hr.

Stations between Münster-Amelsbüren and Werne an der Lippe will be refurbished, and both active and passive measures will be undertaken to reduce the noise impact of railway operations. The upgradation will be financed through the Rail Requirement Plan being implemented under the Municipal Transport Financing Act.

Unicard acquires smart ticketing business Ecebs from Visa, UK

UK-based Unicard has acquired smart ticketing business Ecebs from Visa to add contactless EMV payments to its portfolio. The smart ticketing platform will support Unicard's commercial and concessionary fare schemes alongside its suite of ITSO, account-based ticketing (ABT), Mobility-as-a-Service (MaaS), and rail ticketing solutions. Unicard has also signed a commercial agreement with Visa to use Cybersource, its global payments platform. This enables the company to offer its services within as well as outside the UK.

Further, Unicard has announced plans to migrate Ecebs from the on-premise infrastructure to the cloud to provide more scalable and cost-effective services to its customers. The solution will cater to the deployment of multi-operator, multi-token, multi-modal services across trains, buses, and other modes of transport.

Beacon Rail signs agreement to acquire MRCE

Beacon Rail Metro Finance B.V. (Beacon Rail) has signed a definitive share purchase agreement to acquire 100 per cent of locomotive rolling stock leasing company Mitsui Rail Capital Europe (MRCE) from Mitsui & Co. Ltd.

The transaction is expected to be completed before the end of March 2024, subject to regulatory approvals.

Beacon Rail (together with its affiliates) is a Luxembourg-based rolling stock leasing company. The company's portfolio includes507 locomotives, 1,200 freight wagons, and 572 passenger train vehicles and intercity coaches on lease across 18 countries.

MRCE is a Netherlands-based electric locomotive leasing company with a fleet of 222 electric locomotives.

Middle East and Africa

PRASA invests in rail infrastructure in South Africa

The Passenger Rail Agency of South Africa (PRASA) has invested USD112 million to upgrade and operationalise the rail lines in Gauteng. It has completed the upgradation of 18 corridors. Seven of these corridors are operational. The modernisation includes the rehabilitation of the Leralla–Germiston line which has a daily ridership of 10,000 passengers. The line will be extended to Johannesburg as part of this project. ◆

North America

Silver Line Bus Rapid Transit (BRT) System, Massachusetts, US

Developer: The Massachusetts Bay Transportation Authority (MBTA) is the developer and operator.

Project description: Expansion of Silver bus rapid transit (BRT) Line.

Background: The Silver Line Bus rapid transit (BRT) system spans 6.6 km from Dudley Square and Back Bay to the South Boston Waterfront and Logan International Airport. The BRT line comprises two sections, with a total of six routes and 36 stations. The Waterfront section comprises four service routes that operate from South Station.

- SL1 Logan Airport–South Station
- SL2 Drydock–South Station
- SL3 Chelsea–South Station
- SLW – Additional short turns are operational during rush hours

The Washington Street section comprises two routes between Nubian Station and Downtown Boston.

- SL4 Nubian Station–South Station
- SL5 Nubian Station–Downtown Crossing

Cost and funding: The Silver Line project was developed at an investment of USD2.1 billion.

Rolling stock: A fleet of 45 diesel hybrid buses with extended battery range has been deployed. A similar extended-battery-range hybrid bus and five battery electric buses have also been deployed.

Ridership: The average daily ridership is 39,000 passengers per day.

Service frequency: Service frequency is two minutes at Transitway and five minutes on Washington Street during peak hours. All routes (except for the SLW shuttle) run every 15 minutes during all service hours.

Planned extension:

In August 2023, the Metropolitan Transit Authority (MTA) approved the extension of Silver Line BRT service up to Gulfton. MTA has submitted the plans of the extension project to the Federal Transit Administration (FTA) and is expecting federal grants to support the USD220 million project. The extension will span 6.50 km and serve seven stations, connecting Westpark to Bissonnet. The line is expected to be operational in 2027.

Recent development:

- In August 2023, MTA approved the extension of the line up to Gulfton.

Dallas–Houston High-Speed Rail (HSR), US

Developer: Texas Central Railway and Amtrak are the developers. Texas Central Partners is the operator.

Project description: Development of a high-speed rail (HSR) corridor connecting Dallas and Houston.

Background: The Dallas–Houston HSR will span 380 km connecting North Texas with Northwest Houston. The HSR system will operate on a dedicated track without any grade crossings or without the sharing of infrastructure with existing train or rail lines.

The line will pass through Ellis, Navarro, Freestone, Limestone, Leon, Harris, and Madison counties. There will be only one stop on the line in the Brazos Valley, approximately 25 miles from College Station Texas. Passenger service is expected to commence by 2026.

Plans to develop the line were announced in August 2023. Texas Central Railway and Amtrak are undertaking the feasibility study of the project and plan to develop it jointly. The two authorities have jointly applied for federal grants for study and design work, including the Consolidated Rail Infrastructure and Safety Improvements (CRISI) Grant Program, the Corridor Identification and Development Program, and the Federal–State Partnership for Intercity Passenger Rail (FSP-National) Grant Program. The timeline of the project is yet to be announced.

On completion, the high-speed line will reduce greenhouse gas emissions by over 100,000 tonnes per year, saving 86,892 tonnes of fuel annually.

End-to-end journey time: The end-to-end journey time will be less than 90 minutes.

Service frequency: Service frequency will be 30 minutes during peak hours.

Cost and funding: The estimated project cost is around USD30 billion.

Rolling stock: The N700S Series Shinkansen trains will be deployed on the line. The trains will be deployed to run at an operational speed of 330 km/hr.

Signalling: An automatic train control (ATC) system will be deployed on the line.

Recent development:

- In August 2023, Amtrak announced plans to develop the HSR line.

Latin America

Teresina Suburban Rail, Brazil

Developer: Metropolitan Public Transport Company/ Companhia Metropolitana de Transporte Público(CMTP) is the developer and operator.

Project description: Upgradation of the suburban rail system in Piauí, Brazil.

Background: Teresina Suburban Rail spans 13.5 km and connects Engenheiro Alberto Silva in the west to Itararé in the east, covering nine stations. The line is single track from Engenheiro Alberto Silva, Matinha, Frei Serafim, Ilhotas, Boa Esperança, Renascença, Parque Ideal, Dirceu II to Itararé.

Speed: The trains run at an average speed of 30 km/hr.

Tracks: Tracks are narrow gauge (1,000 mm).

Daily ridership: The current ridership is 20,000 passengers per day.

Capital projects:

The existing suburban rail line will be renovated in two phases.

- The first phase will cover renovation of the 3.2-km-long section between Boa Esperança station and Itararé terminus.
- The second phase will cover renovation of the 0.8-km-long section between Matinha and Alberto Silva in the city centre.

The conversion of an additional 2.5-km-long freight rail section into a passenger rail section is also under construction. The converted extension section will run from Boa Esperança station on the existing route to the Colorado district to the east. The extension works will be completed by 2024.

Cost and funding: In August 2023, the Government of Brazil approved the rail investment package worth BRL11 million for the renovation and extension of the line.

Of this, BRL9.4 million has been allocated for the converted extension section, and BRL1.6 million has been allocated for the renovation of the existing 4-km-long passenger rail section. The remaining 9.5-km-long section is expected to be renovated with a budget of BRL200 million. The financing agreement is yet to be finalised.

Recent development:

- In August 2023, the Government of Brazil approved the rail investment package worth BRL11 million for the renovation and extension of the suburban rail.

(1 BRL [Brazilian Real] = USD0.20)

Buenos Aires Subway, Argentina

Developer: Anglo-Argentine Tramways Company (AATC) / Compañía de Tranvías Anglo Argentina is the developer.

Project description: Expansion of the subway system called 'Subte' in Buenos Aires.

Background: The system comprises six lines (A, B, C, D, E, and H) that together span 56.7 km and cover 90 stations.

- Line A spans 9.8 km connecting Plaza de Mayo to San Pedrito, covering 18 stations.
- Line B spans 12.5 km connecting Federico Lacroze to Juan Manuel de Rosas, covering 17 stations.
- Line C spans 4.4 km connecting Constitución to Retiro, covering nine stations.
- Line D spans 11 km connecting Catedral to Congreso de Tucumán, covering 16 stations.
- Line E spans 11.2 km connecting San José (Plaza Constitución) to Retiro, covering 18 stations.
- Line H spans 8 km connecting Once to Julieta Lanteri-Facultad de Derecho, covering 12 stations.

Rolling stock: The subway system has a total of over 503 railcars, supplied by CRRC Corporation Limited (CRRC), Construcciones y Auxiliar de Ferrocarriles (CAF), Alstom, and Fiat.

Tracks: Tracks are standard gauge (1,435 mm).

Power: Power is sourced from overhead catenary for all lines except Line B, which uses the third rail. Electrification voltages are 1.1 kV DC for Line A, 600 V DC for Line B, and 1.5 kV DC for Lines C, D, E, and H.

In November 2022, a group of Chinese companies secured the contract to install automatic braking technology supplied by Nippon Signal on the metro system. The project is funded by a USD49.5 million loan from the Japan Bank for International Cooperation (JBIC) and Deutsche Bank. Free Wi-Fi is available for passengers of Lines A, B, C, D, and E.

Fare system: A contactless smartcard called the Unified Electronic Ticket System/Sistema Único de Boleto Electrónico (SUBE) card and the Monedero sticker are used as fare media. The SUBE card is accepted on the subway, bus, and train within the Buenos Aires metropolitan area. It was introduced in February 2009.

Monedero: Benito Roggio Transporte SA and Visa introduced Monedero in August 2013. The Monedero card requires users to paste a 5-cm contactless chip sticker, Tag, on their wallet or mobile phone. The card can be recharged online through a bank account or a credit/debit card. It can be used to pay for fare on the subway and on the Urquiza commuter rail line. In addition, it functions

as a credit card for retail purchases of up to ARS100; provides a discount on taxi fares; and allows users to transfer money from one mobile phone to another using the Móvil service. Certain websites accept Monedero for online payments.

Ridership: The current ridership is 216,796 passengers per day.

Capital projects:

Plans have been announced to develop three new lines.

- *Line F (Maroon)* will span 8.5 km from Constitution to Facultad de Derecho, covering 11 stations. The line will be the first fully automated metro line in Argentina. In July 2019, SBASE invited bids to appoint a consultant to draft tenders as well as develop project and technical specifications for the line. The scope of work includes analysing the blueprints, including the layout, accessibility, circulation, and evacuation systems, and drafting tenders for the line. The estimated value of the contract is USD5 million.
- *Line G (Dark Orange)* will span 12.1 km from Retiro to Villa Park, covering 15 stations.
- *Line I (Orange)* will span 12.6 km from Parque Chacabuco to Ciudad Universitaria, covering 18 stations.

Rolling stock: In August 2023, Sbase launched a tender for the supply of 96 new air-conditioned cars to be deployed on Metro Line B in 2023. Bids will be opened on December 20, 2023. The first train should be delivered within 20 months of signing the contract with the winning bidder.

The new fleet will replace the 60-year-old Mitsubishi trains and will increase the proportion of air-conditioned trains on Line B from 45 per cent to 100 per cent. The cars should be equipped with on-board CCTV, an audio-visual passenger information system, vandal-resistant LED lighting, and seating in a longitudinal configuration. In addition, the new trains should be equipped with automatic train protection (ATP) and communication-based train control (CBTC) systems at Grade of Automation 2 (GoA 2). Each car should be 3.1 metres wide and 17 metres long with four doors per side.

Recent development:

- In August 2023, Sbase launched a tender for the supply of 96 new air-conditioned cars to be deployed on Buenos Aires Subte Metro Line B.

(1 ARS [Argentine Peso] = USD0.006)

Europe

Salerno Metro, Italy

Developer: Rete Ferroviaria Italiana (RFI) is the developer. Trenitalia is the operator.

Project description: Development of metropolitan railway service in Salerno, Italy.

Background: The metro line spans 8 km connecting Vernieri station to the Arechi Stadium, covering seven stations.

End-to-end journey time: The end-to-end journey time is 15 minutes.

Rolling stock: A fleet of Ale 501/Ale 502 trains has been deployed and runs at an average speed of 30 km/hr.

Tracks: Tracks are standard gauge (1,435 mm).

Power: Power will be sourced from overhead systems (3kV).

Planned extension:

The Salerno Metro extension will span 9 km, connecting Salerno Costa d'Amalfi Airport with the urban centres of Pontecagnano and Salerno, covering four new stations. The electrified line will be single track.

Cost and funding: In August 2023, RFI awarded a contract worth EUR169.5 million to a consortium of RCM Costruzioni, Brancaccio Costruzioni, Generale Costruzioni Ferroviarie (GCF), and the Eteria group of Itinera, Vianini Lavori, and Icop. for the design and construction of the Salerno Metro extension. The project is being funded through the National Recovery and Resilience Plan (PNRR).

Expected date of completion: Passenger service is expected to commence by 2026.

Recent development:

- In August 2023, RFI awarded a contract worth EUR169.5 million to a consortium for the design and construction of the 9-km-long Arechi–Pontecagnano extension of the Salerno Metro.

(1 EUR [Euro] = USD1.07)

Brescia–Verona–Padua High-Speed Rail (HRS) Line, Italy

Developer: Rete Ferroviaria Italiana (RFI) is the developer and Trenitalia is the operator.

Project description: Construction of high-speed rail (HSR) sections in Italy.

Background: The project involves the development of high-speed rail (HSR) sections from Brescia to Verona and from Verona to Padua.

Brescia–Verona HSR section

Italy's Inter-Ministerial Committee for Economic Strategy (CIPE) approved the development of the 73-km-long Brescia–Verona HSR section in July 2017. The section will span from Mazzano to the east

of Verona, crossing the Lombardy and Veneto regions, and serving 11 municipalities in the provinces of Brescia, Verona, and Mantua. The line will also include a 2.2-km connection with the Verona freight yard and the Verona–Brenner main line. It is estimated to be developed at an investment of EUR2.5 billion. Construction works commenced on the HSR section in October 2020 and are expected to be completed by 2024.

In 2018, the Cepav due consortium secured a EUR1.65 billion contract from RFI to construct the first 48-km-long lot of the Brescia–Verona HSR section. The Cepav due consortium comprises Saipem (59.09 per cent stake), Impresa Pizzarotti (27.27 per cent), and ICM Group (13.64 per cent). In April 2020, RFI awarded the second construction contract to the Cepav due consortium. The second construction contract includes the completion of the civil infrastructure for the Brescia Est–Verona railway section, the construction of the railway superstructure, the implementation of the electricity transmission system, and the provision of the technological equipment for the entire section. The total value of the second construction contract is EUR514 million, with EUR304 million as Saipem's share.

In December 2022, RFI invited bids to implement the executive design and construction of the Verona Junction–West Entrance subsection of the Brescia–Verona HSR section. The sub-section will grant entry for the HSR line into the Verona Porta Nuova station. The total value of the contract is EUR253 million. The scope of the contract includes constructing the entrance into the Verona Porta Nuova station, building 3.6 km of new track, and laying down 3.3 km of track for freight trains. It also includes modernisation of the Verona Porta Nuova station and expansion of existing tracks, sidewalks, and underpasses. The last date for the submission of bids was February 28, 2023. The bids are under review.

Verona–Padua HSR section

The construction of the 76.5-km-long EUR4.8 billion Verona–Padua HSR section is divided into three lots. A EUR 2.4 billion contract was signed in August 2020 for the first lot between Verona and Bivio Vicenza that will be 44.2 km. Construction for the section started in December 2020. The HSR section is estimated to be developed at an investment of EUR4.8 billion. The executive design work and preliminary activities for the second lot for the rail crossing of Vicenza have begun. The third lot for the Vicenza–Padua section of more than 26 km in length is in the final design phase.

The IRICAV 2 consortium led by the Webuild Group secured a EUR2.7 billion contract from RFI in August 2020 to carry out civil works for the first lot of the Verona–Padua HSR section. The consortium comprises Webuild (45.44 per cent), Astaldi (37.49 per cent), and Hitachi Rail (17.07 per cent). The first lot will span 44.2 km from Verona to Bivio Vicenza, covering nearly 13 municipalities. The contract awarded is the first of three lots that were planned to be awarded for the HSR section, with the first lot divided into two sub-lots. The EUR984 million first sub-lot of the first lot is fully financed by the federal government's Recovery Fund. It includes the start of civil works, construction of the railway superstructure, and installation of railway systems. The EUR1.7 billion second sub-lot of the first lot is also fully financed. It involves the completion of civil works, construction of equipment, and installation of railway systems.

In May 2021, the Iricav Due consortium signed an agreement with RFI to commence works five months ahead of schedule on the second and final sub-lots of the first lot. The project is expected to be completed by the end of 2027. The project has started before schedule due to the Government of Italy's measures that will be implemented in association with the Recovery Fund, which aims to boost economic growth in the country. Webuild and Hitachi Rail have also signed a EUR720 million agreement for designing the Vicenza crossing as part of the second functional lot that will pass through the municipalities of Altavilla Vicentina, Creazzo, Torri di Quartesolo, Vicenza, and Sovizzo.

In August 2023, RFI awarded a contract worth EUR1.8 billion to the Iricav Due consortium for the design and construction of the Altavilla Vicentina–Vicenza section of the Verona–Padua HSR main section. The contract includes development of a line from Altavilla Vicentina to the Vicenza station spanning 6.2 km. The contract also includes renewal of the existing line spanning 4.8 km. The designing of the civil works and the monitoring of the environmental impact for the new line will be undertaken by Webuild. Hitachi Rail will install the ERTMS Level 2 systems.

Tracks: Tracks are standard gauge.

Electrification: 3 kV DC for the Padua–Venice section and 25 kV 50 Hz AC for the Milan–Brescia section

Cost: The Brescia–Verona HSR section is expected to be developed at an investment of EUR2.5 billion and the Verona–Padua HSR is expected to be developed at an investment of EUR4.8 billion.

Ridership: The expected daily ridership is 3,015,000 passengers.

Recent development:

- In August 2023, RFI awarded a contract to the Iricav Due consortium for the design and construction of the Altavilla Vicentina–Vicenza section of the Verona–Padua line.

(1 EUR [Euro] = USD1.07)

Asia Pacific

Vietnam–Laos Rail Link

Developer: The governments of Laos and Vietnam have partnered with Petroleum Trading Lao Public Company (PetroTrade) under the Lao Logistics Link (LLL) to develop and operate the project.

PetroTrade has concluded the feasibility study of the electricity-powered line for the project.

Project description: Development of a railway line connecting Laos and Vietnam.

Background: The line will collectively span 555 km. The cross-border double-track rail line will connect to the existing Laos–China railway. The line will be constructed in two phases:

Phase 1 will span 139.18 km connecting Thakhek town in Laos with Vung Ang seaport in Vietnam. Phase 2 will span 312 km connecting Thakhek to Vientiane.

In April 2023, Vietnam-based infrastructure developer Deo Ca Group Joint Stock Company (Deo Ca) signed a joint venture (JV) agreement with Laos-based Petroleum Trading Lao Public Company (PetroTrade) to develop the first phase. PetroTrade also concluded the feasibility study of the electric section and is currently in the process of finalising a concession agreement with the Government of Laos. Therojectt is expected to commence construction works by 2024.

Cost and funding: The project is estimated to cost USD6.3 billion for both the phases. Of this, the 103-km-long section is expected to be developed at an estimated investment of USD1.2 billion. Phase 1 is expected to be funded by external loans, from an international financial institution.

Speed: The trains will operate at a maximum speed of 150 km/hr.

Tracks: Tracks are standard gauge (1,435 mm).

Recent development:

- In April 2023, Deo Ca Group Joint Stock Company (Deo Ca) signed a joint venture (JV) agreement with Petroleum Trading Lao Public Company (PetroTrade) to build the first phase of the line.

(1 VND [Vietnamese Dong] = USD0.00004)

Pune Metro, India

Developer: Maharashtra Metro Rail Corporation Limited (MAHA-METRO), a special purpose vehicle (SPV) owned jointly by the Government of India and the state government of Maharashtra, is the developer and operator.

Project description: Development of a metro system in Pune, India.

Background: Pune Metro comprises two lines which collectively span over 33.1 km and cover over 30 stations. The Purple Line (Corridor 1) spans 17.4 km connecting PCMC in the north to Swargate in the south. The line covers 13 stations of which five stations (PCMC, Sant Tukaram, Bhosari, Phugewadi, Shivajinagar) are operational and eight stations (Dapodi, Bopodi, Khadki, Range Hill, Civil Court, Budhwar Peth, Mandai, Swargate) are under construction. Of these, five stations are underground and nine stations are elevated. Passenger services commenced in August 2023.

The Aqua Line (Corridor 2) spans 15.7 km connecting Vanaz in the west to Ramwadi in the east. The line covers 16 stations of which six stations (Vanaz, Anand Nagar, Ideal Nagar, Nal Stop, Garware College, Ruby Hall Clinic) are operational and ten stations (Deccan Gymkhana, Chhatrapati Sambhaji Udyan, PCMC, Civil Court, Mangalwar Peth, Pune Railway Station, Bund Garden, Yerwada, Kalyani Nagar, Ramwadi) are under construction. The line is fully elevated. Trials and final checks are being carried out. The line is expected to carry passenger services by the end of 2023.

Cost and funding: The total cost of the project is INR11,400 crore. The European Investment Bank has financed a EUR150 million 20-year loan for the construction of Pune city's metro rail. The project is co-financed with Agence Française de Développement (AFD).

Rolling stock: A fleet of 27 trains has been deployed on both the lines. Each metro train will have three coaches. The trains will be designed to run at an operational speed of 80 km/hr.

Tracks: Tracks are standard gauge (1,435 mm).

Power: Power is sourced from overhead catenary (25 kV 50 Hz AC).

Capital projects and planned extension:

The following capital projects have been announced for the line:

Corridor 3, also called Metropolitan Line, will span 23.3 km, connecting Civil Court to Megapolis Circle. The line will cover 22 stations (Megapolis Circle, Dohler, Infosys Phase II, Wipro Technologies, Pall India, Shivaji Chowk, Hinjawadi, Wakad Chowk, Balewadi Stadium, NICMAR, Ramnagar, Laxmi Nagar, Balewadi Phata, Baner Gaon, Baner, Indian Agricultural Research Institute, Sakal Nagar, Savitri Phule Pune University, Reserve Bank of India, Agriculture College, Shivaji Nagar, Civil Court) which are under construction. The line will be fully elevated. Passenger service is expected to begin by the end of 2023.

Rolling stock: In April 2023, Wabtec secured a contract from Alstom Transport India to deploy braking technology on 22 three-car trains. Line 4 will span 3 km from Swargate to Pulgate. The detailed project report (DPR) is being prepared. The line is estimated to be developed at an investment of INR35 billion.

Planned extension: The Purple Line extension will span 4.5 km heading north from PCMC to Nigdi. The extension will cover three stations: Chinchwad, Akurdi, and Nigdi. Further, a proposal for a 5.5-km-long extension of the Purple Line from Swargate to Katrajhas has been submitted. Three underground stations—Gultekdi Market, Padmavati Chowk, and Katraj Junction—will be constructed.

Recent developments:

- In August 2023, passenger services commenced for Purple Line.
- In April 2023, Wabtec secured a contract from Alstom Transport India to deploy braking technology on 22 three-car trains for Pune Metro Line 3.

(INR1 [Indian Rupee] = USD0.012)

Middle East and Africa

Be'er Sheva LRT Project, Israel

Developer: Netivei Israel/ National Transport Infrastructure Company Ltd. (NTIC) is the developer.

Project description: Development of light rail transit (LRT) in Beersheba, Israel.

Background: The LRT will span 25 km connecting Israel Railways station in the centre of Be'er Sheva to the new under-construction Kiryat Ha Modi'in military intelligence base in Likit. The line will terminate near the Meitar Crossing in Yehuda, south of Hebron.

Cost: The line is expected to be developed at an estimated investment of up to USD2.11 billion. The line has been planned for almost three decades. The planning for the latest version of the project began in 2018 and the budget was approved by the government in 2020.

Power: Power will be sourced from overhead systems (25kV 50Hz AC).

Expected date of completion: The LRT project is expected to be completed by 2033.

Recent development:

- In August 2023, Israel's Committee for National Infrastructure approved plans for the construction of an LRT line in the southern city of Be'er Sheva.

Tehran Metro Rail System, Iran

Developer: Tehran Urban and Suburban Railway Company (TUSRC) is the developer and operator.

Project description: Expansion of the metro system in Tehran.

Background: The Tehran Metro network comprises seven metro lines and a commuter rail line collectively spanning 229 km and covering 150 stations. Line 1 spans 42 km from Tajrish Square to Kahrizak, covering 29 stations. Tehran Metro Line 1 extension spans 26.2 km from Parand New Town to Imam Khomeini International Airport, covering four stations. The line was constructed in two phases: Phase I spans 5.32 km from Shahed station to Imam Khomeini International Airport. Phase II spans 20 km from Imam Khomeini International Airport to Parand New Town. Line 2 spans 26 km from Farhang Sara to Sadeghieh, covering 22 stations. Line 3 spans 33.7 km from Shahid Beheshti to Vali-e Asr (Phase I), from Vali-e Asr to Azadegan (Phase II), and from Shahid Beheshti to Ghaem (Phase III), covering 23 stations. The line offers interchange facilities with Lines 1, 4, and 6. Line 4 spans 22 km from Shahid Kolahdouz Square in the east to Ekbatan Township in the west, covering 19 stations. Line 4 extension spans 2.8 km from Bimeh Station to Mehrabad International Airport, covering four stations. In May 2023, passenger services commenced on the 1.4-km-long section connecting Eram-e Sabz to Allameh Ja'fari. Line 5 (suburban line) spans 67.7 km from Tehran to the satellite town of Mehrshahr, covering 12 stations. Line 6 spans 26 km from Dowalat-Abad to Sologhan, covering 17 stations. The line offers interchange facilities for Lines 1, 2, 3, 4, and 7. In March 2023, passenger services commenced on the 9.5-km-long section connecting Tarbiat Modares University to Emam Hossein. Line 7 (suburban line) spans 22 km and covers 20 stations. In March 2023, passenger services commenced on the 1.5-km-long section connecting Meydan-e San'at to Shahid Dadman. Line 8 (suburban rail) spans 34 km from the Shahr-e-Aftab Exhibition Center to Imam Khomeini International Airport, covering four stations.

Fare system: Contactless smartcards and magnetic-stripe tickets (Isfahan Card) are used for fare collection.

Rolling stock and technology: A fleet of 900 rail cars will be deployed on the metro line. China CNR Corporation Limited has supplied 854 railcars. The company has formed a joint venture (JV) with Tehran Wagon Manufacturing Company. Each train has seven cars and the capacity to accommodate 1,290 passengers. The average operating speed of the train is 37 km/hr. The trains are managed through a centralised traffic control system. The wayside system determines the train position, distance, and slope. The on-board automatic train protection (ATP) system installed in the train control cabin includes speedometer, receiving antenna, data processing unit, optical and radio system, closed circuit television (CCTV), public message system, and central clock system.

Tracks: Tracks are standard gauge (1,435 mm). Lines 1, 2, 3, and 4 source power from the third rail (750 V DC). Line 5 sources power from overhead catenary (27.5 kV AC).

Ridership: Ridership was 3 million passengers in 2022.

Capital projects:

- Line 8 extension: On completion, the extension will span 39 km, covering 19 stations. The tunnelling work has been completed for more than 20 km, and 14 stations are under construction. The line is expected to be completed by the end of 2023.
- Line 9 will span 30 km.
- Line 10 will span 42 km and cover 31 stations. The line is expected to be developed at an investment of USD429.2 million.
- Line 11: In February 2020, plans were announced to commence feasibility studies on the line. The line will cover 17 stations. The total length and the stations covered are yet to be decided.

Recent developments:

- In May 2023, passenger service commenced on the 1.4-km-long section of Line 4.
- In March 2023, passenger service commenced on the 9.5-km-long section of Line 6 and on the 1.5-km-long section of Line 7. ◆

North America

TransLink to replace rail rolling stock, Canada

TransLink has announced plans to deploy 205 new rail cars to replace the existing Mark I model cars as part of the Expo and Millennium Upgrade Program.

The new Mark V Sky Train is supplied by Alstom and is currently under testing.

The replacement will cost USD1 billion and is funded through the Investing in Canada Infrastructure Program (CIP). It is jointly funded by the Government of Canada, the Government of British Columbia, and TransLink.

The rail cars will be designed, built, and tested in Canada. The replacement is expected to be completed in 2027.

Caltrain receives train cars from Stadler, US

Caltrain has received five train units from the manufacturer Stadler. Of these, four trains are bi-level electrical multiple units (EMUs) and one is a battery-equipped electric multiple unit (BEMU). The procurement is funded by the California Transportation Commission (CTC).

The new trains will operate on the Caltrain line from central San Francisco to San Jose.

WSP USA to undertake feasibility study for low-emission operations, US

Denver's Regional Transportation District (RTD) has appointed WSP USA, Inc. to conduct a feasibility study for the transition to low-emission operations on the fixed route.

The study will outline recommendations for fleet replacement, operations schedule for fleet replacement, project timeline, and financial budgets to be included in the transition plan.

The transition plan is expected to be finalised by 2024, based on the outcomes of the study.

MMT launches contactless payment system, US

Mountain Metropolitan Transit (MMT) has launched a contactless fare collection system, Mobile First, developed by Masabi's mobile ticketing, open platform Justride, in Colorado Springs, Colorado.

The payment system has been launched on all 27 MMT routes. MMT has installed Justride Validator (JRV) units on the bus fleet to support the contactless fare collection system.

Amtrak to procure Airo trains, US

Amtrak has placed an order for the procurement of 10 new Airo trains, taking the total order to 83 trains. The trains are manufactured by Siemens Mobility in California and are scheduled to be operational in 2026.

The total cost of procurement—including maintenance, modification, and upgradation—is USD7.3 billion and is funded by the Infrastructure Investment and Jobs Act (IIJA), also known as the Bipartisan Infrastructure Law (BIL).

The new trains will run on the Northeast Regional, Empire Service, Virginia Services, Keystone Service, Downeaster, Cascades, Maple Leaf, New Haven/Springfield Service, Palmetto, Carolinian, Pennsylvanian, Vermonter, Ethan Allen Express, and Adirondack.

HDR Engineering to undertake feasibility study of South Coast Rail Infrastructure project, US

The Orange County Transportation Authority (OCTA) has selected HDR Engineering Inc. to undertake a feasibility study and alternative concept analysis for the South Coast Rail Infrastructure project. The scope of the study includes identifying solutions and developing infrastructure that is resilient to coastal threats.

CTDOT to purchase rolling stock for modernisation, US

The Connecticut Department of Transportation (CTDOT) has announced plans to purchase 60 rail coach cars from Alstom under its coach renewal programme. The cost of procurement is estimated to be USD315 million. Delivery of the first batch of coaches is expected in 2026. The purchase agreement includes the possibility of procuring up to 313 coaches from Alstom.

The coaches will be 26 metres long and will cover 1,900 km daily at an operating speed of 200 km/hr.

They will be deployed on the Hartford Line and on the branches of the New Haven Line, connecting Connecticut and New York City.

C-TRAN appoints CarMedialab to deliver electric charging solutions, US

The Clark County Public Transit Benefit Area Authority (C-TRAN) has partnered with CarMedialab to install MOBILE charge energy-boosting software to its fleet of electric buses. The system will optimise the battery-charging process to manage electricity loading to reduce operating costs and to extend battery life. CarMedialab will also provide its services to monitor the health of the entire bus fleet through its vehicle monitoring system called MOBILEvhm.

C-TRAN plans to achieve zero emissions by 2040. It recently added 10 new electric buses that provide a range of 300 km to its fleet.

Latin America

Ferroistmo acquires withdrawn rolling stock from Angel Trains, Mexico

Mexico-based Ferrocarril del Istmo de Tehuantepec SA (Ferroistmo) has acquired withdrawn rolling stock from UK-based leasing company Angel Trains.

This includes three ex-British Rail IC125 High Speed Train diesel power cars and 11 MkIII coaches. The rolling stock will be deployed on the Trans-Isthmus passenger rail corridor linking the Pacific Ocean and the Gulf of Mexico. The corridor is being rehabilitated under the Tren Interoceánico Programme.

Further, Ferroistmo has announced plans to acquire two Vossloh España Citylink diesel tram-trains from the closed Puebla–Cholula Tourist Train service in Mexico.

Alstom-Sofratesa consortium to deliver monorail system in Dominican Republic

El Fideicomiso para el Desarrollo del Sistema de TransporteMasivode la República Dominicana(FITRAM) has selected a consortium of Alstom and Sofratesa to deliver the integrated monorail system in Santiago de los Caballeros.

The contract is worth USD500 million and Alstom's share is USD370 million.

The scope of work for Alstom includes system integration, testing and commissioning, supply of Innovia monorail trains, installation of the Cityflo 650 GOA4 driverless signalling system, and provision of Hesop reversible power supply, conductor rail, high-speed interchange switch systems, and depot equipment.

The system will span 13 km and serve 14 stations. The estimated ridership is 20,000 passengers per hour per direction. The project is being financed by the Government of France.

Asia Pacific

Knorr-Bremse to deploy braking systems on Chengdu Metro trains, China

China Railway Rolling Stock Corporation (CRRC) has awarded a contract to Knorr-Bremse to deploy electro-pneumatic braking systems on a total of 26 trains of Chengdu Metro.

The trains will be deployed by the end of Q2-2024. The trains are designed to run at a maximum operational speed of 140 km/hr.

The trains will operate on Line 13, which is currently under construction.

The line will connect the northwest and southeast districts of Chengdu city.

Tantech to supply 50 midibuses in Malaysia

Shangchi Automobile Company Limited, a subsidiary of Tantech Holdings Limited, has secured a contract to supply 50 midibuses in Malaysia. Each 6-metre-long midibus will have 18 seats and will be equipped with the MP5 system.

In compliance with Euro 3 emission standards, the buses will be powered by the DK5 diesel engine. The buses will be equipped with ergonomic seating, state-of-the-art entertainment options, and enhanced accessibility features for passenger comfort and safety.

Thales deploys ETCS Level 1 on SRT lines, Thailand

A consortium of Thales and River Engineering has completed the deployment of European Train Control System (ETCS) Level 1 on 321-km-long State Railway of Thailand (SRT) lines.

The modernisation programme commenced in 2019 and covers 48 stations around Bangkok, from Lop Buri in the north, Nakhon Pathom in the south, and Map Kabao in the northeast.

BEM and CKP to develop solar-powered mass transit system in Thailand

Bangkok Expressway and Metro Public Company Limited (BEM) has partnered with CKPower Public Limited Company (CKP) to develop the first solar-powered mass transit system in Thailand. As a part of the project, solar energy will be installed to power the MRT Chalerm Ratchamongkol Line (Blue Line) and the MRT ChalongRatchadham Line (Purple Line) in Bangkok.

As per the agreement, CKP will design, install, and construct the solar system, and will also oversee post-installation maintenance services. The design works will be completed by January 2024. Construction is scheduled to commence in February 2024. The first delivery of renewables-based electricity is expected by August 2024.

The two MRT lines will be supplied with around 452 GWh of renewable energy (RE) for a period of 25 years, which will account for 12 per cent of their total power consumption. The project will eliminate 300,000 tonnes of carbon emissions and generate 4,800 MW of solar energy by 2024.

Government of Bali and TMF to launch SMART@Ubud Program, Indonesia

The Bali Provincial Government has partnered with the Toyota Mobility Foundation (TMF) to launch the Sustainable Mobility

Advancing Real Transformation (SMART) @Ubud Program in Bali. TMF will test two mobility solutions in Ubud during a six-month-long trial from September 2023 to February 2024.

Under the first solution, ten units of an on-demand xEV shuttle service will be deployed in the Central Ubud Area.

The second solution includes installation of nine digital display monitors along high-traffic bus stops on the Trans Metro Dewata Route.

The monitors will provide real-time visualisation of bus schedules, allowing for trip planning by passengers.

TMF has invested USD1.7 billion to conduct the trial. The company has also deployed five battery and hybrid electric vans for the trial.

Project approval and consultancy contract awarded for Hyderabad Metro Phase 3, India

The state government of Telangana has approved the extension of Hyderabad Metro, adding 309 km to the light rail network.

The Phase 3 expansion will be built in three parts—A, B, and C. Part A will cover six corridors, Part B will cover the ORR Metro Corridor, and Part C will include an elevated two-level corridor for the JBS to Tumkunta route and the Paradise Junction to Kandlakoya route.

These sections will follow the route of the outer ring road of the city. The estimated project cost is INR60 billion.

Hyderabad Airport Metro Limited (HAML) has awarded a design consultancy contract to a consortium of Aarvee Associates and Systra for the development of Hyderabad Metro Phase 3.

Aarvee Associates emerged as the L1 bidder, with the highest technical score and the lowest financial bids for all four packages. Aarvee Associates has been awarded two packages.

Systra, the second-highest technical scorer, has been awarded the other two packages after matching the lowest financial price.

The consulting firms will first submit preliminary project reports (PPRs).

The scope of work includes conducting traffic surveys, anticipating travel demand, estimating ridership, analysing alternative possibilities, and proposing appropriate modes of public transportation. The work is expected to be completed in two months.

The firms will further submit detailed project reports (DPRs). The scope of work includes preparing comprehensive DPRs that include metro rail alignment, viaduct/at-grade/underground options, stations and depots, electric traction, signalling and train communication, coaches, environment/social impact assessment, transit-oriented development, last-mile connectivity, cost estimates, fare structure, financial analysis, and project implementation plans. The work is expected to be completed in three months.

(1 INR [Indian Rupee] = USD0.01)

KTK Group to supply platform screen doors for Delhi Metro Phase 4, India

China-based KTK Group Company Limited has secured a contract from Delhi Metro Rail Corporation (DMRC) to supply and install platform screen doors for three lines of Delhi Metro Phase 4.

The total contract value is INR2.36 billion.

The scope of work includes design, manufacturing, supply, installation, testing, and commissioning of both the half-height platform gate system and the full-height platform screen door system for the Mukundpur to Maujpur, Aerocity to Tughlakabad, and Janakpuri West to R.K. Ashram Marg Corridor of Delhi Metro Phase 4.

(1 INR [Indian Rupee] = USD0.01)

Civil contract awarded for Airport Express Line in Hyderabad, India

Hyderabad Airport Metro Limited (HAML) has awarded a contract to Larsen & Toubro (L&T) for the civil works of Hyderabad Metro's Airport Express Line.

The total cost of the contract is INR56.88 billion.

The scope of work includes design and construction of Hyderabad Airport Express Line from Raidurg Metro station to Shamshabad Airport station, including elevated viaduct; electromechanical (E&M) works; track works; supply and commissioning of rolling stock, traction and power supply systems, and signalling and telecommunication systems.

The 31-km line has 10 stations connecting Mindspace Junction and Rajiv Gandhi International Airport.

The trains will be able to operate at a maximum speed of 120 km/hr.

(1 INR [Indian Rupee] = USD0.01)

BEML secures rolling stock contract for Bengaluru Metro, India

Bangalore Metro Rail Corporation Limited (BMRCL) has awarded a contract worth INR31.77 billion to Bharat Earth Movers Limited (BEML) to supply a fleet of 318 standard gauge cars for the Phase-2, Phase-2A, and Phase-2B corridors of Bengaluru Metro.

The contract also includes maintenance for a period of 15 years.

A total of 96 cars each will be deployed for Phase-2 and Phase-2A. Another 126 cars will be deployed on Phase-2B.

The coach procurement program is being funded by the Japan International Cooperation Agency (JICA).

The trains are expected to be delivered from June 2025 onwards.

Suburban Connect consortium selected as preferred bidder for SRL Link, Australia

The Suburban Connect consortium has been selected as the preferred bidder to carry out tunnelling works for the first 16-km-long section from Cheltenham to Glen Waverley of the Suburban Rail Loop (SRL) in Melbourne. The consortium comprises CPB Contractors, Ghella, and Acciona Construction. The contract is expected to be awarded by the end of 2023. The tunnelling works are expected to commence by 2026.

A second contract to carry out tunnelling works for the 10-km-long section from Glen Waverley to Box Hill is expected to be awarded in 2024.

Early construction works are under way in Box Hill, Burwood, and Heatherton. Works in Monash and Clayton are expected to commence by the end of 2023.

The SRL will be developed as a 90-km-long automated line from Werribee in the southwest suburbs to Cheltenham in the southeast, linking major train services from the Frankston Line to the Werribee Line via Melbourne Airport. Transport hubs at Clayton, Broadmeadows, and Sunshine will also connect regional services. Passenger operations on the SRL are expected to commence by 2035.

Europe

Egis Group to modernise Cork Rail signalling system, Ireland

Iarnród Eireann (Irish Rail) has awarded a four-year contract to Egis Group to undertake the signalling, electrical, and telecommunication (SET) systems modernisation works on the three main corridors of the Cork commuter rail network.

The SET modernisation works will facilitate the planned increase in capacity and service frequency, improve the reliability of the signalling system, and support safe operation of the railway.

The SET modernisation project forms part of the Cork Metropolitan Area Transport Strategy (CMATS) 2040. This includes procurement of additional rolling stock, development of multimodal integrated transport hubs, and construction of new stations with park-and-ride interchanges.

The Egis team, which includes personnel from both Ireland and Britain, will also include key staff members from Cork-based engineering firm J. B. Barry & Partners Ltd. The company has recently been acquired by Egis Group.

Consortium appointed for development of MetroLink project in Dublin, Ireland

Transport Infrastructure Ireland has appointed a multidisciplinary client partner team of Turner & Townsend and WSP for the development of the MetroLink project in Dublin. MetroLink will be developed as a high-capacity, high-frequency metro line. It will span 18.8 km from Swords in the north of the city to Charlemont in the south of Dublin.

The partnership is led by Turner & Townsend and will be supported by O'Connor Sutton Cronin, Mace, and PwC. Each of the partners has collectively agreed to abide by a framework contract, which will be valid during the design, procurement, and construction phases till the commencement of operations. The client partner team will provide programme management office (PMO) services, supervising all elements of procurement, design, engineering, safety, information management, and sustainability.

MetroLink will connect the existing rail, DART commuter rail, and Luas light rail services across the Greater Dublin Area. It will also connect Dublin Airport to the city centre via key locations, including Ballymun, O'Connell Street, and St Stephen's Green. Once MetroLink is operational, the expected ridership is 50 million passengers per year.

Alstom secures train charging contract in Ireland

Iarnród Éireann (Irish Rail) has awarded a contract worth EUR28 million to Alstom for the installation of train-charging infrastructure at Drogheda. The project is being funded by the National Transport Authority as part of the DART+ Programme and will cover the electrification of three lines at Drogheda as well as supporting infrastructure at a new sub-station at Marsh Road. With planning permission obtained from the Louth County Council, preparatory works are expected to commence in late 2023.

The charging station contract follows an initial order for the procurement of 95 DART+ carriages, including 65 battery-electric carriages and 30 electric carriages. The contract is expected to be completed by the end of 2024, which will allow new DART+ trains to commence service in 2025.

(1 EUR [Euro] = USD1.07)

Tunnelling contract awarded for Mont Cenis Base Tunnel on Lyon–Turin HSR, Italy and France

Tunnel Euralpin Lyon Turin (TELT) has awarded a contract worth

EUR1 billion to a consortium of Itinera, SpieBatignolles, and Ghella to carry out civil works on the 57.5-km-long Mont Cenis Base Tunnel. The twin bore tunnel, also known as the Mont d'Ambin Base Tunnel, is part of the 65-km-long Lyon–Turin high-speed rail (HSR) project between Susa in Piedmont, Italy and Saint-Jean-de-Maurienne in Savoy, France. The HSR project will be a key part of the Trans-European Transport Network's (TEN-T's) Mediterranean Corridor that will connect southwestern Europe with Central and Eastern European countries.

The main running tunnels will be excavated using two bi-mode tunnel boring machines (TBMs), which will be able to cut through hard rock and will also use the earth pressure balance method in softer ground conditions.

A total of 2.3 million cubic metres of material is expected to be excavated during tunnelling, with up to 60 per cent being planned to be reused on the project. In addition, the contract also requires the contractor to guarantee to meet their energy needs from renewable sources. The tunnelling contract also covers underground emergency evacuation facilities at Clarea, where a third tunnel, which will be able to accommodate a 400-metre-long passenger train, will be constructed between the running tunnels.

Construction works are expected to be completed in a period of seven years and seven months. They will include excavation of a total of 28.5 km of tunnels in Italy. Once completed, the Mont Cenis Base Tunnel will be the longest rail tunnel in the world.

(1 EUR [Euro] = USD1.07)

Alstom unveils first BEMU for Mid Saxony, Germany

Alstom has unveiled the first Coradia Continental battery electric multiple unit (BEMU) for the Mid Saxony Transport Authority (VMS). A fleet of 11 BEMUs will be deployed on the 80-km-long Chemnitz –Leipzig Line. Alstom will maintain the new BEMUs up to 2032 with an option to supply an additional 36 BEMUs.

The BEMUs can travel up to 120 km/hr and operate at a maximum speed of 160 km/hr when powered with its lithium-ion batteries. The BEMUs can diversify their power source when moving from catenary systems to non-electrified lines. Each three-car train is 56 metres long and can carry 150 seated passengers.

The BEMUs are being manufactured at Alstom's Salzgitter and Mannheim sites in Germany. The battery traction system has been supplied from Tarbes in France, home of Alstom's world centre of excellence for green traction systems.

Siemens Mobility to supply Mireo EMUs for Stuttgart Rail project, Germany

Siemens Mobility has secured a contract worth EUR300 million to supply 28 three-car Mireo electric multiple units (EMUs) for DigitaleSchiene Deutschland (DSD)'s / Digital Rail Germany's Digital Node Stuttgart (DKS) pilot project. The trains will be equipped with Driver's Safety Device (DSD) equipment, European Train Control System (ETCS) Level 2 and Automatic Train Operation (ATO) at Grade of Automation 2 (GoA2).

The trains will also be equipped with the Train Integrity Monitoring System (TIMS) and the Future Railway Mobile Communication System (FRMCS).

This will enable scheduled and energy-saving operations through digitally predictive signalling and driving instructions.

The framework agreement includes a maintenance contract for a period of 10 years with an option for an extension by 20 years.

The trains will be delivered between November 2025 and April 2026. The Mireo trains will be capable of operating on steep gradients and will initially operate in the Stuttgart area as part of the DKS pilot project.

The trains will be subsequently deployed on lines across Baden-Württemberg and the neighbouring states as and when the availability of ETCS increases. Further, plans have been announced to deploy the trains for cross-border operations to Austria and to Switzerland as well.

(1 EUR [Euro] = USD1.07)

Škoda Group and TitagarhFirema to supply 370 sleeping rail cars to Trenitalia, Italy

Trenitalia has awarded a contract worth EUR732.5 million to a consortium of Škoda Group and TitagarhFirema for the supply of 370 sleeping rail cars. The procurement is being funded under Italy's National Recovery and Resilience Plan (PNRR).

The first part of the framework contract worth EUR138.6 million comprises delivery of 70 sleeping cars.

This includes supply of 44 Comfort coaches, 22 DeLuxe coaches, and four Economy coaches. Each DeLuxe coach will feature six single and two double bedrooms. Each Comfort coach will feature seven compartments, each fitted with four beds.

Each Economy coach will offer a 2+1 seating arrangement, with dividing walls between sections. The seats will be equipped with armrests, headrests, and individual lights. The vestibule area will feature luggage racks.

The coaches will be equipped with air-conditioning and modern information and audio-video infotainment systems.

The coaches will have larger areas to accommodate people with reduced mobility. The coaches will be manufactured at TitagarhFirema's plant in Caserta, Campania. The new rolling stock will be deployed on the Milan–Palermo/Syracuse Line.

(1 EUR [Euro] = USD1.07)

Solaris and Iveco Bus to supply 310 electric buses, Italy

ATM Milano has awarded two lots of the tender for the supply of electric buses in Milan to Iveco Bus and Solaris. Solaris will supply a fleet of 105 Urbino 18-metre-long electric buses. Iveco Bus will supply a fleet of 205 E-Way 12-metre-long electric buses. The contracts include maintenance and service of the buses.

RFI awards contract for Salerno Metro extension, Italy

Rete FerroviariaItaliana (RFI) has awarded a contract worth EUR169.5 million to a consortium for the design and construction of the 9-km-long Arechi–Pontecagnano extension of the Salerno Metro.

The consortium comprises RCM Costruzioni, Brancaccio Costruzioni, GeneraleCostruzioniFerroviarie (GCF), and the Eteria group of Itinera, VianiniLavori, and Icop. The project is being funded through the National Recovery and Resilience Plan (PNRR).

The scope of the contract includes construction of a single-track electrified line with four new stations.

The line will connect the Salerno Costa d'Amalfi Airport with the urban centres of Pontecagnano and Salerno. Passenger service is expected to commence by 2026.

(1 EUR [Euro] = USD1.07)

ÖBB Infrastructure signs ETCS Level 2 agreement with Siemens, Austria

ÖBB-Infrastruktur AG (Austrian Federal Railways Infrastructure) has signed a framework agreement worth EUR400 million with Siemens Mobility for long-term cooperation to install the European Train Control System (ETCS) Level 2 on ÖBB's high-level rail network. The framework agreement includes the installation and maintenance of 21 ETCS Radio Block Centres (RBCs) on the high-level network by 2038. ÖBB-Infrastruktur will invest EUR200 million by 2026.

The upgrade works are already underway. As part of the framework agreement, ETCS Level 2 operations commenced on the Linz–Wels–Vöcklabruck section of the Vienna–Salzburg Main Line and on the Wels–Haiding section of the main line to Passau in Germany, in the beginning of August 2023. The RBC for these two lines has been established in Vienna, with the trains being digitally monitored and controlled in Linz. The Vienna–St Pölten section of the Vienna–Salzburg Main Line as well as the Vienna–Breclav and Kufstein–Innsbruck–Brenner lines have been equipped with ETCS. Deployment of ETCS Level 2 is a key part of ÖBB's strategy to double the capacity of its national network by 2040.

Further, Siemens has announced plans to deploy a Distributed Smart Safe System (DS3) in all the RBCs. The DS3 platform is a new software platform for safety-relevant logic. The platform is used to migrate existing applications such as ETCS or interlockings to a standard high-performance platform based on the Commercial Off-the-Shelf (COTS) products, that is, commercially available off-the-shelf products. COTS uses multicore technology and a new communication concept for a fully internet protocol (IP)-based system architecture.

KRCBW secures rolling stock contract in Kyiv, Ukraine

KyivskiiMetropoliten has awarded a contract worth EUR79.2 million to Kryukovsky Railway Car Building Works (KRCBW) for the supply of 10 five-car metro trainsets in Kyiv, Ukraine. Each 97-metre-long train is equipped with an asynchronous traction drive with three motor cars and two trailed non-motor cars; and domestically produced bogies with central pneumatic suspension and disc brakes. The design speed of the train is 90 km/hr, with an intended service life of 50 years.

Each train has a capacity to carry 1,650 passengers, including standing passengers and including two seats for passengers in wheelchairs. Passengers can move from one car to another through hermetic gangways.

(1 EUR [Euro] = USD1.07)

Middle East and Africa

Design contract awarded for Tel Aviv Metro Line 1, Israel

NTA – Metropolitan Mass Transit System Ltd (NTA) has awarded a contract to design Tel Aviv Metro Line 1 to a consortium of MM, Dana Engineering, Yaniv Zohar Engineering, and Levy-Shtark Zilberstein Consulting Engineering.

Tel Aviv Metro Line 1 is a planned subway system for the Tel Aviv Metropolitan Area. It will consist of three underground metro lines to form a rapid transit transportation solution for the city. The M1 line is the longest of the three planned lines and extends over 85 km of branch lines from Rehovot and Lod in the south via Tel Aviv to Ra'anana and Kfar Saba in the north. The construction of this line is expected to start in 2025, with the first public opening in 2032.

BasiGo launches E9 Kubwa electric bus model, Kenya

BasiGo has launched an electric bus model, E9 Kubwa. The model has a range of 400 km and offers 36 seating spaces and 18 standing spaces. The bus will be equipped with Wi-Fi, USB charging points, and video surveillance cameras. ◆

North America

Supply of materials for light rail tracks in Alberta, Canada

Country: Canada
Organisation: Alberta Public Sector
Description: Request for quotations (RfQs) are issued to supply light rail transit tracks in Alberta.
Closing Date: August 31, 2023
Contact: Attn.: Cathy Yang, Alberta, Canada
Phone: +1 403 268 5769

Provide consultant services for Metrolinx in Canada

Country: Canada
Organisation: Metrolinx
Description: Request for Qualifications (RFQs) are invited to provide consultancy services for Metrolinx.
Closing Date: September 18, 2023
Contact: Southern Ontario, Canada
E-mail: corporate.rfx@metrolinx.com
Website: https://www.ttc.ca/en/

Provide engineering services for High Speed Rail Authority in California, US

Country: United States
Organisation: California High-Speed Rail Authority
Description: Request for Qualifications (RFQs) are invited to provide engineering services for high speed rail authority in California.
Closing Date: September 18. 2023
Contact: Attn.: Rachael Wong, 770 L Street Suite 800 Sacramento, United States
E-mail: RSES@hsr.ca.gov
Website: https://hsr.ca.gov/

To appoint business recruitment consultant for KC Metro, US

Country: United States
Organisation: US Department of Commerce
Description: Bids are invited to appoint business recruitment consultants for Kansas City Metro.
Closing Date: September 14, 2023
Contact: Attn.: Phillip L Curtis, 1401 Constitution Avenue, N.W. Washington, DC, USA
Website: https://www.commerce.gov/

Supply of top rail, Barbados

Country: Barbados
Organisation: Grantley Adams International Airport Inc.
Description: Bids are invited for supply of top rail.
Closing Date: September 4, 2023
Contact: The Engineering Department. Grantley Adams International Airport Inc., Engineering Compound, Grantley Adams International Airport, Christ Church, Barbados
E-mail: engineering@gaiainc.bb
Website: https://www.gaia.bb/

Supply of high-speed trainsets, USA

Country: United States
Organisation: California High-Speed Rail Authority
Description: Request for qualifications (RFQ) for supply of high-speed trainsets and related services.
Closing Date: November 14, 2023
Contact: Attn.:Della Leong, 770 L Street Suite 800 Sacramento, United States
E-mail: trainsets@hsr.ca.gov
Website: https://hsr.ca.gov/

Carry out repair works for West Cold Spring Station, USA

Country: United States
Organisation: Maryland Department of Transportation
Description: Bids are invited for repair work of the pier cap and the station platform at the west end of West Cold Spring Metro Station.
Closing Date: August 30, 2023
Contact: 7201 Corporate Center Drive Hanover, Maryland, US
E-mail: cwilliams@mdot.state.md.us
Website: https://mdot.maryland.gov/pages/home.aspx

Carry out railway overhaul for light rail vehicles, USA

Country: United States
Organisation: Hampton Roads Transit (HRT)
Description: Request for proposal (RfP) are invited for an overhaul of five Siemens S70 light rail vehicles.
Closing Date: October 2, 2023
Contact: Attn.: Jason Petruska, 3400 Victoria Blvd. Hampton, Virginia, United States
Phone: +6061 7572226000
E-mail: dpetruska@hrtransit.org
Website: https://gohrt.com/

Provide inspection and repair services in Alberta, Canada

Country: Canada
Organisation: Defence Construction Canada-Western Region
Description: Bids are invited to supply labour, material, supervision, and equipment necessary to provide rail line inspections which includes three inspections per year, for a three-year period in Alberta.
Closing Date: September 14, 2023
Contact: Attn.: Kara-Lea Lafosse, 623 Fortune Crescent, Canada
Phone: +1501 7808421363
E-mail: kara-lea.lafosse@dcc-cdc.gc.ca
Website: https://www.merx.com/dcc/dcc-cdc-western

Provide electrical engineering services for West Coast Express Station, Canada

Country: Canada
Organisation: Translink
Description: Request for proposal (RfP) are invited to provide electrical engineering services for West Coast Express Substations. Further details are available at https://bcbid.gov.bc.ca/page.aspx/en/bpm/process_manage_extranet/177592
Closing Date: September 12, 2023
Contact: Burnaby, British Columbia, Canada
Website: https://www.translink.ca/

Carry out railcar overhaul for MARC, USA

Country: United States
Organisation: Maryland Department of Transportation
Description: Bids are invited for an overhaul of MARC (Maryland Area Rail Commuter) railcars.
Closing Date: September 22, 2023
Contact: Maryland, 21076, United States
E-mail: scurtis@mdot.state.md.us
Website: https://mdot.maryland.gov/pages/home.aspx

Provision of maintenance and repair works for railways, Canada

Country: Canada
Organisation: The Regional Municipality of York
Description: Bids are invited to provide maintenance and repair works of railways at various locations in the York Region.
Closing Date: October 23, 2023
Contact: 17250 Yonge St Newmarket, ON, L3Y 6Z1 Canada
E-mail: purchasing@york.ca
Website: http://bids.york.ca/Module/Tenders/en

Latin America

Supply fuel for Huancayo Huancavelica Railway, Peru

Country: Peru
Organisation: Ministry of Transport and Communications (MTC)
Description: Bids are invited to supply B5 S50 diesel fuel for the transport units of Huancayo Huancavelica Railway.
Closing Date: August 16, 2023
Contact: Jirón Zorritos 1203, Lima 15404, Peru
Phone: +51 6157800
Website: https://portal.mtc.gob.pe/page_english/front-end/abouts/index.html

Carry out infrastructure improvement works of Hualane Railway Line, Chile

Country: Chile
Organisation: Hualañé Municipality
Description: Bids are invited for the improvement of stations on Hualane Railway Line.
Closing Date: August 25, 2023
Contact: Av. Libertad 90, Hualañé, Chile
E-mail: anita.gonzalez@hualane.cl
Website: https://hualane.cl/SitioMunicipal/

Acquisition of rail, Argentina

Country: Argentina
Organisation: ADIFSE
Description: Bids are invited to acquire rail as part of 'Buenos Aires Belgrano Sur Passenger Railway Line Modernization Project'.
Closing Date: October 25, 2023
Contact: Attn.: Emiliano Araneo, Av. Dr. Ramos Mejía 1302, CABA, Argentine Republic
Phone: +011 4318 3333
E-mail: compras@adifse.com.ar
Website: https://plataforma.adifse.com.ar/portal_licitaciones

Asia Pacific

Provision of signalling works for Shenzhen Metro Line 5, China

Country: China
Organisation: Shenzhen Metro Company Limited
Description: Bids are invited to supply and commission the railway signalling works on Shenzhen Metro Line 5.
Closing Date: September 15, 2023
Contact: Attn.: Wang Xuehao, Lin Gengze, Metro Building, No. 1016, Fuzhong 1st Road, Futian District, Shenzhen, Guangdong Province, China
Phone: +86 755 23992950
Website: https://www.szmc.net/szmc_en/About_SZMC/Group_Company_Profile/

Provision of signalling works for Wuhan Metro Line 12, China

Country: China
Organisation: Wuhan Metro Group Company Limited
Description: Bids are invited for the provision of automatic signalling in Wuhan Metro Line 12.
Closing Date: August 18, 2023
Contact: 77 Huanle Avenue, Hongshan District, Wuhan, China
Website: http://www.whrt.gov.cn/

Supply of mechanical goods under Package No. Gd-11, Bangladesh

Country: Bangladesh
Organisation: Bangladesh Railways
Description: Bids are invited to supply mechanical goods under Package No. Gd-11 for Bangladesh Railway in Pahartali as part of 'Rehabilitation of 100 nos. meter gauge passenger carriages of Bangladesh Railway Phase 2'.
Closing Date: September 7, 2023

Contact: Attn.: Md Anwarul Islam, Pahartali, Chittagong, Chattogram City Corporation, Chattogram – 4202, Bangladesh
Phone: +880 031 2566253
Website: https://railway.gov.bd/

Provide electrical works for Shenzhen Metro Line 16 Phase 2, China

Country: China
Organisation: Shenzhen Metro Company Limited
Description: Bids are invited for the supply, installation, testing, and commissioning of electrical works for Shenzhen Metro Line 16 Phase 2.
Closing Date: September 1, 2023
Contact: Attn.: Jiehua Zhong, Metro Building, 1016 Fuzhong 1st Road, Futian, Shenzhen, Guangdong Province, China
Phone: +86 755 23992950
Website: https://www.szmc.net/szmc_en/About_SZMC/Group_Company_Profile/

Carry out railway overhaul for Dalan Railways, Azerbaijan

Country: Azerbaijan
Organisation: State Oil Company of the Republic of Azerbaijan (SOCAR)
Description: Bids are invited for a dedicated railway line overhaul project of Dalan Railways.
Closing Date: October 11, 2023
Contact: Attn.: Qarayeva Ayten, 23, Yusif Safarov street, Xatai district, Baku, Azerbaijan
Phone: +99412 521 00 00
E-mail: ayten.e.nuriyeva@socar.az
Website: https://www.socartrading.com/socar-group/introduction

Repair and reconstruction of railway tracks of grade 5, Kazakhstan

Country: Kazakhstan
Organisation: KAP Logistics
Description: Bids are invited for the repair and reconstruction of railway tracks of grade 5 in Kazakhstan.
Closing Date: August 18, 2023
Contact: Attn.:S. Shieli, Kazakhstan
Phone: +7 778 096 0000
E-mail: ibalginova@ttk.kazatomprom.kz

Supply of electrical goods under Package No. Gd-34, Bangladesh

Country: Bangladesh
Organisation: Bangladesh Railways
Description: Bids are invited to supply electrical goods under Package No. Gd-34 for Bangladesh Railway in Pahartali as part of 'Rehabilitation of 100 nos. meter gauge passenger carriages of Bangladesh Railway Phase 2'.
Closing Date: August 23, 2023
Contact: Attn.: Md Anwarul Islam, Pahartali, Chittagong, Chattogram City Corporation, Chattogram – 4202, Bangladesh
Phone: +880 031 2566253
Website: https://railway.gov.bd/

Bids invited to appoint EIA consultant for Mumbai Metro Line 12 Phase III, India

Country: India
Organisation: Mumbai Metropolitan Region Development Authority (MMRDA)
Description: Bids are invited for the appointment of consultant for the preparation of environmental impact assessment–environmental management plan (EIA–EMP) report of Mumbai Metro Phase III Line 12 (Kalyan-Dombivli-Taloja). Further details are available at https://india-infrastructure-files.s3.amazonaws.com/VGFsb2phIGNvbnMgQXVnIDExLnBkZnVHbXp0.pdf
Closing Date: August 21, 2023
Contact: Floor/Room number: 6th floor, B-wing, Old Administrative Building, Mumbai, India
Phone: +91 022 26597656
Website: https://mmrda.maharashtra.gov.in/home

Supply of standard gauge ballastless tracks for Mumbai Metro Line 6 Phase III, India

Country: India
Organisation: Mumbai Metropolitan Region Development Authority (MMRDA)
Description: Bids are invited to install, test, and commission the ballastless track including the supply of buffer stop under Package MT-09R of Mumbai Metro Phase III Line 6 [Swami Samarth Nagar-Vikhroli (EEH)]. Further details are available at https://india-infrastructure-files.s3.amazonaws.com/TU1SREEgRE1SQyB0ZW5kZXIgQXVnIDExLnBkZnA1ME8x.pdf
Closing Date: September 11, 2023
Contact: Floor/Room number: 6th floor,
B-wing, Old Administrative Building, Mumbai,
India
Phone: +91 022 26597656
Website: https://mmrda.maharashtra.gov.in/home

Supply of platform screen doors for Chennai Metro Phase II, India

Country: India
Organisation: Chennai Metro Rail Corporation (CMRL)
Description: Bids are invited to design, manufacture, supply, install, test, and commission the half height platform screen doors under Package CP24/ASA09 of Corridor III and Corridor V under Chennai Metro Rail Project Phase II. Further details are available at https://india-infrastructure-files.s3.amazonaws.com/Y2hlbm5haSBtZXRybyB0ZW5kZXIgQXVnIDExLnBkZnZLYkVO.pdf
Closing Date: October 10, 2023
Contact: CMRL Depot, Poonamallee High Rd,
Koyambedu, Chennai, Tamil Nadu 600107,
India
Phone: +91 044 2379 2000
Website: https://chennaimetrorail.org/

Provide safety diagnosis and performance evaluation for Seoul Metro Line 4, South Korea

Country: South Korea
Organisation: Seoul Transportation Corporation
Description: Bids are invited to provide safety diagnosis and performance evaluation for the underground structures in four sections of Seoul Metro Line 4. Further details are available at https://www.g2b.go.kr:8081/ep/invitation/publish/bidInfoDtl.do?bidno=20230737243&bidseq=00&releaseYn=Y&taskClCd=5
Closing Date: August 31, 2023
Contact: Attn.: Areum Kim, 346, Cheonho-daero, Seongdong-gu, Seoul, South Korea
Phone: +82 02 6311 9249
E-mail: ahreum@seoulmetro.co.kr
Website: http://www.seoulmetro.co.kr/

Provide signal improvement facility between Neunggok and Uijeongbu, South Korea

Country: South Korea
Organisation: National Railroad Authority
Description: Bids are invited to provide signal facility improvement and related works between Neunggok station and Uijeongbu station on suburban lines. Further details are available at https://www.g2b.go.kr:8101/ep/tbid/facilBidDtl.do?tbidno=20230713801&bidseq=00
Closing Date: August 22, 2023
Contact: 242, Jungang-ro, Dong Gu, Daejeon, South Korea
Phone: +82 42 1588 7270
Website: https://english.kr.or.kr/main.do

Provide supervision service for improvement of signal facility, South Korea

Country: South Korea
Organisation: National Railroad Authority
Description: Bids are invited to provide supervision service for improvement of signal facility and station platform safety gate for 28 stations. Further details are available at https://www.g2b.go.kr:8101/ep/tbid/serviceBidDtl.do?tbidno=20230809063&bidseq=00
Closing Date: September 7, 2023
Contact: Contact: 242, Jungang-ro, Dong Gu, Daejeon, South Korea
Phone: +82 42 1588 7270
Website: https://english.kr.or.kr/main.do

Renewal and redesign of the tracks in Dhaka, Bangladesh

Country: Bangladesh
Organisation: Bangladesh Railway
Description: Bids are invited to renew and redesign the tracks for closed stations.
Closing Date: August 16, 2023
Contact: Attn.: Sushil Kumar Halder, Office of the Chief Signal and Telecommunication Engineer , Chittagong, Bangladesh
Phone: +880 312863225
Website: https://railway.gov.bd/

Supply of informatics equipment for Ha Noi Railway, Vietnam

Country: Vietnam
Organisation: Ha Noi Metropolitan Railway Project Management Board
Description: Bids are invited to supply informatics equipment for the Ha Noi Railway.
Closing Date: August 24, 2023
Contact: CC2 Building, Dong Tau Urban Area Thinh Liet Ward Ha Noi, Ha Noi Vietnam
Website: www.hanoi.gov.vn

Provide track improvement for Penang Hill Railway, Malaysia

Country: Malaysia
Organisation: Perbadanan Bukit Bendera Pulau Pinang
Description: Bids are invited to provide track improvement for the Penang Hill Railway.
Closing Date: September 13, 2023
Contact: Attn.: Haslina Binti Maslan, Floor 7, PBBPP Building, Jalan Stesen Bukit Bendera, 11500 Ayer Itam, Penang, Vietnam
Phone: +604 8288880
Website: https://www.penanghill.gov.my/index.php/en/

Carry out repair works on railway transport equipment, Kazakhstan

Country: Kazakhstan
Organisation: Bogatyr Komir
Description: Bids are invited to provide repair works on railway transport equipment.
Closing Date: August 29, 2023
Phone: +7 718 7223268
E-mail: m.salitskaya@bogatyr.kz
Website: www.bogatyr.kz

Provide basic and detailed design for Daegu Industrial Line, South Korea

Country: South Korea
Organisation: National Railroad Authority
Description: Bids are invited to provide basic and detailed design for the construction of Daegu Industrial Line. Further details are available at https://www.g2b.go.kr:8101/ep/tbid/serviceBidDtl.do?tbidno=20230822168&bidseq=00
Closing Date: September 19, 2023
Contact: 242, Jungang-ro, Dong Gu, Daejeon, South Korea
Phone: +82 42 1588 7270
Website: https://english.kr.or.kr/main.do

Supply of fire protection system for Baku Metro, Azerbaijan

Country: Azerbaijan
Organisation: Baku Metro
Description: Bids are invited to supply and install a fire protection system for the 20 Yanvar station of Baku Metro.

Closing Date: September 14, 2023
Contact: Nasimi district, Baku city, Azerbaijan
E-mail: elvin.bagirov@metro.gov.az
Website: rov@metro.gov.az

Provide basic and detailed design for electric power facilities between Hapcheon and Geoje Section, South Korea

Country: South Korea
Organisation: National Railroad Authority
Description: Bids are invited to provide basic and detailed design for electric power facilities between Hapcheon and Geoje section of the southern inland railway construction project. Further details are available at https://www.g2b.go.kr:8101/ep/tbid/serviceBidDtl.do?tbidno=20230822130&bidseq=00
Closing Date: September 18, 2023
Contact: 242, Jungang-ro, Dong Gu, Daejeon, South Korea
Phone: +82 42 1588 7270
Website: https://english.kr.or.kr/main.do

Supply of mechanical goods under Package No. Gd-35, Bangladesh

Country: Bangladesh
Organisation: Bangladesh Railway
Description: Bids are invited to supply mechanical goods under Package No. Gd-35 for Bangladesh Railway in Pahartali as part of 'Rehabilitation of 100 nos. Meter Gauge Passenger Carriages of Bangladesh Railway Phase 2'.
Closing Date: August 30, 2023
Contact: Attn.: Md Anwarul Islam, Pahartali, Chittagong, Chattogram City Corporation, Chattogram – 4202, Bangladesh
Phone: +880 031 2566253
Website: https://railway.gov.bd/

Supply of telecommunication materials under Package No. Gd-227, Bangladesh

Country: Bangladesh
Organisation: Bangladesh Railway
Description: Bids are invited to supply telecommunication materials under Package No. Gd-227 for Bangladesh Railway in Pahartali as part of 'Rehabilitation of 100 nos. Meter Gauge Passenger Carriages of Bangladesh Railway Phase 2'.
Closing Date: August 28, 2023
Contact: Attn.: Md Anwarul Islam, Pahartali, Chittagong, Chattogram City Corporation, Chattogram – 4202, Bangladesh
Phone: +880 031 2566253
Website: https://railway.gov.bd/

Provide advisory services for Canberra Light Rail, Australia

Country: Australia
Organisation: Major Projects Canberra
Description: Bids are invited to provide advisory services for the Canberra Light Rail project.
Closing Date: August 29, 2027
Contact: Callam Offices Level 3, 50 Easty Street Phillip, Australia
E-mail: tendersact@act.gov.au
Website: https://www.act.gov.au/majorprojectscanberra/home

Supply of fastening system for Mumbai Metro Line 6 under Package MT-13, India

Country: India
Organisation: Delhi Metro Rail Corporation (DMRC)
Description: Bids are invited to supply fastening systems under Package MT-13 of Mumbai Metro Phase III Line 6 project [Swami Samarth Nagar-Vikhroli (EEH)]. Further details are available at https://india-infrastructure-files.s3.amazonaws.com/TXVtYmFpIE1ldHJvIE1ULTEzIGV4dC5wZGZyT0ducA==.pdf
Closing Date: September 5, 2023
Contact: Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi, India
Website: https://www.delhimetrorail.com/

Design and construction works for Bengaluru Suburban Rail Corridor 2, India

Country: India
Organisation: Rail Infrastructure Development Company Limited (K-RIDE)
Description: Bids are invited for the design and construction of 12 stations including steel foot over bridge (FOB), roof structures, and other associated work for Bengaluru Suburban Rail Corridor 2. Further details are available at https://india-infrastructure-files.s3.amazonaws.com/S3JpZGUgRGF0ZSBleHRlbmRlZC5wZGZkRWlMOQ==.pdf
Closing Date: August 30, 2023
Contact: Samparka Soudha, 1st Floor, (Opp. Orion Mall), Dr. Rajkumar Road, Rajajinagar 1st Block, Bangalore – 560 010, India
Email: jgmrs@kride.in
Website: https://kride.in/

Provide basic and detailed design for power facilities between Gimcheon and Hapcheon Section, South Korea

Country: South Korea
Organisation: National Railroad Authority
Description: Bids are invited to provide basic and detailed design for power facilities between Hapcheon and Geoje section of the southern inland railway construction project. Further details are available at https://www.g2b.go.kr:8101/ep/tbid/serviceBidDtl.do?tbidno=20230822104&bidseq=00
Closing Date: September 19, 2023
Contact: 242, Jungang-ro, Dong Gu, Daejeon, South Korea
Phone: +82 42 1588 7270
Website: https://english.kr.or.kr/main.do

Supply of rail fastenings, Kazakhstan

Country: Kazakhstan
Organisation: Bogatyr Komir
Description: Bids are invited for the supply of rail fasteners.
Closing Date: August 28, 2023

Contact: Pavlodar region, Kazakhstan
Phone: +7 718 722 3534
E-mail: vera.patrakhina@bogatyr.kz

Design and construction works for Gwangju Songjeong-Suncheon Railway Section, South Korea

Country: South Korea
Organisation: National Railroad Authority
Description: Bids are invited for the design and construction of Gwangju Songjeong-Suncheon Railway Section. Further details are available at https://www.g2b.go.kr:8101/ep/tbid/facilBidDtl.do?tbidno=20230823381&bidseq=00
Closing Date: February 27, 2024
Contact: 242, Jungang-ro, Dong Gu, Daejeon, South Korea
Phone: +82 42 1588 7270
Website: https://english.kr.or.kr/main.do

Supply of rail fastenings, Pakistan

Country: Pakistan
Organisation: Pakistan Railways
Description: Bids are invited for the supply of rail fasteners. Further details are available at https://service.ariba.com/Discovery.aw/ad/viewRFX?id=16958297
Closing Date: September 13, 2023
Contact: Information Technology Department Pakistan Railways Headquarters Office, Empress Road, Lahore, Pakistan
Phone: +880 42 99201678
E-mail: info@ppra.org.pk
Website: http://www.ppra.org.pk/

Supply of concrete for repair works of Baku Metro, Azerbaijan

Country: Azerbaijan
Organisation: Baku Metro
Description: Bids are invited for the supply of concrete for repair works of Baku Metro.
Closing Date: September 13, 2023
Contact: Attn.: M. Rafili 16, Nasimi district, Baku city, Azerbaijan
E-mail: elvin.bagirov@metro.gov.az
Website: rov@metro.gov.az

Provide signal system for Shenzhen Metro Line 12 Phase II, China

Country: China
Organisation: Shenzhen Metro Co., Ltd
Description: Bids are invited to provide a signal system for Shenzhen Metro Line 12 Phase II. The contract also includes the renewal and renovation of the existing signal system for 56 existing trains in Line 12 Phase I.
Closing Date: September 8, 2023
Contact: Attn.: Kui Pang, Metro Building,
1016 Fuzhong 1st Road, Futian District, Shenzhen,
China
Phone: +86 755 82769524
Website: https://www.szmc.net/szmc_en/About_SZMC/Group_Company_Profile/

Carry out infrastructure improvement works of Sakuragaoka-Dori Line, Japan

Country: Japan
Organisation: Kakegawa City, Shizuoka Prefecture
Description: Bids are invited for the improvement of stations on Sakuragaoka-Dori Line and other road improvement work. Further details are available at http://www.kkj.go.jp/d/?D=c2hpenVva2Eva2FrZWdhd2FfY2l0eS8yMDIzLzIwMjMwODIzXzAwNzczCg==&L=ja
Closing Date: September 7, 2023
Contact: Kakegawa, Shizuoka prefecture, Japan

Provide survey works for Tohoku Shinkansen Railway, Japan

Country: Japan
Organisation: Iwate Prefecture
Description: Bids are invited for conducting surveys related to Tohoku Shinkansen Railway noise. Further details are available at https://www.pref.iwate.jp/kensei/nyuusatsu/sonota/1067632.html
Closing Date: September 7, 2023
Contact: Iwate Prefecture, Japan
Website: https://visitiwate.com/

Supply of silencers for Samsung-Dongtan Express Railway Sections 1, 3, and 5, South Korea

Country: South Korea
Organisation: National Railroad Authority
Description: Bids are invited to supply silencers for the construction of Samsung-Dongtan Express Railway Sections 1, 3, and 5. Further details are available at https://www.g2b.go.kr:8081/ep/invitation/publish/bidInfoDtl.do?bidno=20230813736&bidseq=00&releaseYn=Y&taskClCd=1
Closing Date: September 1, 2023
Contact: Attn.: Sookhee Lee, 242,
Jungang-ro, Dong Gu,
Daejeon, South Korea
Phone: +70 4056 8732
E-mail: sukie@korea.kr
Website: https://english.kr.or.kr/main.do

Carry out repair works on railway transport equipment, Kazakhstan

Country: Kazakhstan
Organisation: CTH Loading
Description: Bids are invited to provide repair works on railway transport equipment.
Closing Date: August 29, 2023
Contact: Karaganda Region,
Kazakhstan
Phone: +7 721 2931567
E-mail: Kamalowa_D@Karagandy.Railways.kz

Design and construction works of power facilities for platform safety gates, South Korea

Country: South Korea
Organisation: National Railroad Authority
Description: Bids are invited for the design and construction of power facilities for platform safety gates at 11 stations including Yeongdeungpo Station on the Gyeongbu Line. Further details are available at https://www.g2b.go.kr:8101/ep/tbid/facilBidDtl.do?tbidno=20230835398&bidseq=00
Closing Date: September 7, 2023
Contact: 242, Jungang-ro, Dong Gu, Daejeon, South Korea
Phone: +82 42 1588 7270
Website: https://english.kr.or.kr/main.do

Repair and upgradation of level crossing for Pakistan Railways

Country: Pakistan
Organisation: Pakistan Railways
Description: Bids are invited to repair and upgrade the level crossing of Pakistan Railways in Peshawar. Further details are available at http://www.ppra.org.pk/doc/23-8/pr238-129.jpg
Closing Date: September 12, 2023
Contact: Public Procurement Regulatory Authority, 1st Floor FBC Building Near State Bank, Sector G-5/2, Islamabad, Pakistan
Phone: +880 92519205728
E-mail: info@ppra.org.pk
Website: http://www.ppra.org.pk/

Supply of electrical goods under Package No. Gd-18, Bangladesh

Country: Bangladesh
Organisation: Bangladesh Railways
Description: Bids are invited to supply electrical goods under Package No. Gd-18 for Bangladesh Railway in Pahartali as part of 'Rehabilitation of 100 nos. meter gauge passenger carriages of Bangladesh Railway Phase 2'.
Closing Date: September 7, 2023
Contact: Attn.: Md Anwarul Islam, Pahartali, Chittagong, Chattogram City Corporation, Chattogram – 4202, Bangladesh
Phone: +880 031 2566253
Website: https://railway.gov.bd/

Supply of mechanical goods under Package No. Gd-02, Bangladesh

Country: Bangladesh
Organisation: Bangladesh Railway
Description: Bids are invited to supply mechanical goods under Package No. Gd-02 for Bangladesh Railway in Pahartali as part of 'Rehabilitation of 100 nos. Meter Gauge Passenger Carriages of Bangladesh Railway Phase 2'.
Closing Date: August 30, 2023
Contact: Attn.: Md Anwarul Islam, Pahartali, Chittagong, Chattogram City Corporation, Chattogram – 4202, Bangladesh
Phone: +880 031 2566253
Website: https://railway.gov.bd/

Consultancy bids invited for electrification works under Bengaluru Suburban Rail Project, India

Country: India
Organisation: Rail Infrastructure Development Company (Karnataka) Limited (K-RIDE)
Description: Bids are invited for electrification works under the Bengaluru Suburban Rail Project.
The scope of work includes detailed design consultancy for design of substations, auxiliary substations, extra high voltage and high voltage network, rigid overhead equipment and supervisory control and data acquisition (SCADA) system including simulation of complete system, and electromagnetic interference (EMI)/electromagnetic compatibility (EMC) study for Corridor 2. Further details are available at https://india-infrastructure-files.s3.amazonaws.com/S1JpZGUgdGVuZGVyIEF1ZyAyMywgMjAyMy5wZGZ4RW41bA==.pdf
Closing Date: September 15, 2023
Contact: Samparka Soudha, 1st Floor,
(Opp. Orion Mall), Dr. Rajkumar Road,
Rajajinagar 1st Block,
Bangalore – 560 010,
India
Email: jgmrs@kride.in
Website: https://kride.in/

Supply of rails for Line 9 and 12 of Mumbai Metro Phase III, India

Country: India
Organisation: Mumbai Metropolitan Region Development Authority (MMRDA)
Description: Bids are invited to supply 6800 MT 60E1, 1080 Grade head hardened rails under Package CA-203 of Line 9 and Line 12 of Mumbai Metro Phase III.
Closing Date: September 13, 2023
Contact: Floor/Room number: 6th floor, B-wing, Old Administrative Building, Mumbai, India
Phone: +91 022 26597656
Website: https://mmrda.maharashtra.gov.in/home

Supply and maintenance of electrical and SCADA systems of Bengaluru Metro Project Phase 2A and Phase 2B, India

Country: India
Organisation: Bangalore Metro Rail Corporation Limited (BMRCL)
Description: Bids are invited for the supply, erection, testing and commissioning of 33 KV distribution, 750V DC third rail traction electrification including traction substations, auxiliary substations, and complete supervisory control and data acquisition (SCADA) system under Package EP5-CC for Phase 2A and Phase 2B of Bengaluru Metro Rail Project.
Closing Date: October 26, 2023
Contact: Third Floor, BMTC Complex,
K.H. Road, Shanthinagar,
Bangalore, India
Phone: +91 80 2296 9300
Website: www.bmrc.co.in/

Maintenance of telecommunication system for Hualien-Zhiben Railway, Taiwan

Country: Taiwan
Organisation: Ministry of Transportation and Communications
Description: Bids are invited for the maintenance of electronic interlocking, electric remote control, and telecommunication system for Hualien-Zhiben Railway double-track electrification project in Huadong.
Closing Date: October 11, 2023
Contact: Attn.: He Zhenghong, 9th Floor, No. 7, Section 2, Xianmin Avenue, Banqiao District, New Taipei City, Taiwan
Phone: +02 80723333
E-mail: chho@rb.gov.tw
Website: https://www.motc.gov.tw/en/index

Electrification works for Biao Zhiben-Taitung Tram Line, Taiwan

Country: Taiwan
Organisation: Eastern Engineering Department, Railway Bureau, Ministry of Communications
Description: Bids are invited to provide electrification works on Biao Zhiben-Taitung Tram Line in Huadong.
Closing Date: October 3, 2023
Contact: Attn.:Lin Shiyuan, No. 25, Linsen Road, Yilan City, Yilan County, 260, Taiwan
Phone: +03 9389115
E-mail: shin_yuan@rbereo.gov.tw

Upgrade Yangon-Mandalay Railway Line, Myanmar

Country: Myanmar
Organisation: Ministry of Transport and Communications
Description: Bids are invited to upgrade the Yangon-Mandalay Railway Line.
Closing Date: September 18, 2023
Contact: Office No.-5, Zeyahtarni Road, Nay Pyi Taw, Myanmar
Phone: +95 0673411076
Website: https://www.motc.gov.mm/

Design and construction works for Omoto Futsukaichi-machi Line, Japan

Country: Japan
Organisation: Okayama City, Okayama Prefecture
Description: Bids are invited for the design and construction of the Omoto Futsukaichi-machi Line. Further details are available at https://www.kkj.go.jp/d/?D=b2theWFtYS9va2F5YW1hX2NpdHkvMjAyMy8yMDIzMDgzMF8wOTM1Mgo=&L=ja
Closing Date: September 14, 2023
Contact: Okayama City, Okayama Prefecture

Design and construction work for Gwangju Metro Line 2 Phase 14, South Korea

Country: South Korea
Organisation: Gwangju Metropolitan City Urban Railway
Description: Bids are invited for the construction of the Gwangju Metro Line 2 Phase 14. Further details are available at https://www.g2b.go.kr:8081/ep/invitation/publish/bidInfoDtl.do?bidno=20230834538&bidseq=00&releaseYn=Y&taskClCd=3
Closing Date: November 8, 2023
Contact: Attn.: Jo Wonhwi, 61999 760 Sangmudaero Seo-Gu, Gwangju Metropolitan City, Republic of Korea
Phone: +070 4056 6147
E-mail: jonny1010@korea.kr
Website: https://www.grtc.co.kr/subwayeng/contents/contentsView.do?rbsIdx=91

Provide research services for Intercity Railway, China

Country: China
Organisation: Guangdong Pearl River Delta Intercity Rail Transit Co., Ltd
Description: Bids are invited for Intercity Railway small radius curved wheel-rail relationship cooperation research project.
Closing Date: September 12, 2023
Contact: Attn.: Cai, 11th Floor, Tower B, Wansheng Plaza, No. 1220 Xingang East Road, Haizhu District, Guangzhou, China
Phone: +020 89119267
Website: https://www.casco.com.cn/en/products/case_details.aspx?id=101

Supply of spare parts for EMVs, Taiwan

Country: Taiwan
Organisation: Ministry of Communications Taiwan Railway Administration
Description: Bids are invited to supply spare parts for the Electric Multiple Vehicles (EMVs).
Closing Date: September 5, 2023
Contact: Attn.: Mr. Yang/Ms. Xie, 5th Floor, No. 3,
Beiping West Road, Zhongzheng District, Taipei City,
Taiwan
Phone: +02 23815226
E-mail: 0061925@railway.gov.tw
Website: https://law.moj.gov.tw/ENG/LawClass/LawAll.aspx?pcode=K0000107

Carry out construction works for Gwangju Metro Line 2 Phase 12, South Korea

Country: South Korea
Organisation: Gwangju Metropolitan City Urban Railway
Description: Bids are invited for the construction of the Gwangju Metro Line 2 Phase 12. Further details are available at https://www.g2b.go.kr:8081/ep/invitation/publish/bidInfoDtl.do?bidno=20230834526&bidseq=00&releaseYn=Y&taskClCd=3
Closing Date: November 8, 2023
Contact: Attn.: Jo Wonhwi, Sangmudaero Seo-Gu, Gwangju Metropolitan City, Republic of Korea
Phone: +070 4056 6147
E-mail: jonny1010@korea.kr
Website: https://www.grtc.co.kr/subwayeng/contents/contentsView.do?rbsIdx=91

Provide construction works for Gwangju Metro Line 2 Phase 7, South Korea

Country:
Organisation: Gwangju Metropolitan City Urban Railway
Description: Bids are invited for the construction of the Gwangju Metro Line 2 Phase 7. Further details are available at https://www.g2b.go.kr:8081/ep/invitation/publish/bidInfoDtl.do?bidno=20230834467&bidseq=00&releaseYn=Y&taskClCd=3
Closing Date: November 8, 2023
Contact: Attn.: Jo Wonhwi, 61999 760 Sangmudaero Seo-Gu, Gwangju Metropolitan City, Republic of Korea
Phone: +070 4056 6147
E-mail: jonny1010@korea.kr
Website: https://www.grtc.co.kr/subwayeng/contents/contentsView.do?rbsIdx=91

Provide construction works for subway at Delhi Airport, India

Country: India
Organisation: Delhi Metro Railway Corporation
Description: Bids are invited for construction of the subway between terminal 3 and terminal 2 of the Delhi Airport. The scope of work includes the design and construction of a pedestrian subway between the existing IGI Airport Metro station of Airport Express Line at terminal-3 to terminal-2, and architectural finishing works.
Closing Date: September 25, 2023
Contact: Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi, India
Website: https://www.delhimetrorail.com/

Supply of rails for Line 4 and 4A of Mumbai Metro Phase II, India

Country: India
Organisation: Mumbai Metropolitan Region Development Authority
Description: Bids are invited to supply of 9800 MT 60e1, 1080 grade head hardened rails under Package CA-202 of Mumbai Metro Line 4A (Kasarvadavali-Gaimukh) and Line 4 Project (Wadala-Ghatkopar-Teen Haat Naka (Thane)-Kasarwadavli). Further details are available at https://india-infrastructure-files.s3.amazonaws.com/Q0EyMDJ0ZW5kZXJkb2N1bWVudC5wZGZZT1g1Yw==.pdf
Closing Date: September 14, 2023
Contact: Floor/Room number: 6th floor, B-wing, Old Administrative Building, Mumbai, India
Phone: +91 022 26597656
Website: https://mmrda.maharashtra.gov.in/home

Redevelopment of Mysore Railway Station, India

Country: India
Organisation: South Western Railway
Description: Request for proposal (RfPs) are issued for the redevelopment of Mysore Railway Station Project including civil, electrical, and signal and telecom works. Further details are available at https://india-infrastructure-files.s3.amazonaws.com/TXlzb3JlX2R1ZV9hdWcyOS0yMDIzLnBkZkNQN3FZ.pdf
Closing Date: September 6, 2023
Contact: First Floor, East Block, Zonal Headquarters, Rail Soudha, Gadag Road, Hubli-580020, India
Phone: +91 080 22356644
Website: https://swr.indianrailways.gov.in/

Design and construction works for Bhopal Metro Phase I, India

Country: India
Organisation: Madhya Pradesh Metro Rail Corporation Limited
Description: Bids are invited for design and construction of the twin tunnel, cut and cover, cross-passages with/without sump, ramps, two underground stations (Nadra Bus Stand and Bhopal Railway Station) including architectural finishing, water supply, sanitary installation, and drainage works in entire underground section under Package BH-04 of Bhopal Metro Phase I.
Closing Date: September 12, 2023
Contact: 2nd Floor, Smart City, Development Corporation Limited Office Building, Kalibadi Road, Bhel Sector A, Berkheda, Bhopal 462022, India
Phone: +91 7552475605
E-mail: metrorail@mpurban.gov.in
Website: https://www.mpmetrorail.com/

Supply of mechanical goods under Package No. Gd-113, Bangladesh

Country: Bangladesh
Organisation: Bangladesh Railway
Description: Bids are invited to supply mechanical goods under Package No. Gd-113 for Bangladesh Railway in Pahartali as part of 'Rehabilitation of 100 nos. Meter Gauge Passenger Carriages of Bangladesh Railway Phase 2'.
Closing Date: September 18, 2023
Contact: Attn.: Md Anwarul Islam, Pahartali, Chittagong, Chattogram City Corporation, Chattogram – 4202, Bangladesh
Phone: +880 031 2566253
Website: https://railway.gov.bd/

Carry out construction works for Naldanga Railway Station, Bangladesh

Country: Bangladesh
Organisation: Bangladesh Railway
Description: Bids are invited to extend and raise the existing platform No-1 at Naldanga railway station as per drawing.
Closing Date: September 14, 2023
Contact: Attn.: Md Ashadul Haque, Gorhanga, Rajshahi, City: Rajshahi, Boalia, Rajshahi,
Bangladesh
Phone: +880 0721761984
Website: https://railway.gov.bd/

Provide construction supervision services for Jieyang-Huilai Railway, China

Country: China
Organisation: Guangdong Jiehui Railway Co., Ltd.

Description: Bids are invited to provide construction supervision services for the Jieyang-Huilai railway project.
Closing Date: September 21, 2023
Contact: Attn.: Mr. Yang, 5th Floor, Guangdong Railway Investment Building, No. 23 Huiyuan, Tianhe, Guangzhou, China
Phone: +020 87599376

Provide construction works for Southwest Metro Station, Australia

Country: Australia
Organisation: Sydney Metro
Description: Expressions of interest (EoIs) are invited to carry out Southwest Metro Conversion and Station works (SWM3) including construction of Bankstown station, other precinct works and rail corridor works. Further details are available at https://www.tenders.nsw.gov.au/?event=public.rft.show&RFTUUID=4CAF4D54-A41E-D05C-DF6674A96778251E
Closing Date: September 18, 2023
Contact: Attn.: Siobhan Murphy, Sydney, New South Wales, Australia
Phone: +02 8265 9400
E-mail: swm3@transport.nsw.gov.au
Website: https://www.sydneymetro.info/

Repair and reconstruction of railway tracks, Nepal

Country: Nepal
Organisation: Department of Railways, Bishalnagar, Kathmandu
Description: Bids are invited for the repair and reconstruction of railway tracks in Nepal.
Closing Date: September 8, 2023
Contact: Attn.: Kamal Sah, Bishalnagar, Kathmandu Bagmati Province, Nepal
Phone: +997 9851162200
Website: dorw.gov.np

Europe

Supply of spare parts for Citadis trams, France

Country: France
Organisation: Compagnie des Transports Strasbourgeoi (CTS)
Description: Bids are invited to supply the spare parts for Citadis trams. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:491970-2023:TEXT:FR:HTML
Closing Date: September 5, 2023
Contact: Rue de la Gare-aux-Marchandises, Strasbourg, France
E-mail: pbugnet@cts-strasbourg.fr
Website: http://www.cts-strasbourg.eu/fr

Railway track renewal work between Grellingen-Duggingen section, Switzerland

Country: Switzerland
Organisation: Schweizerische Bundesbahnen SBB Infrastruktur
Description: Bids are invited to renew and redesign the tracks in Switzerland. The scope of work includes dismantling of old tracks and the construction of the double-track, railway infrastructure, excluding safety systems between the Grellingen-Duggingen section. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:494514-2023:TEXT:DE:HTML
Closing Date: October 2, 2023
Contact: Attn: Thomas Wyss, Bahnhofstrasse 12, Olten, Switzerland
E-mail: thomas.wyss4@sbb.ch
Website: https://www.simap.ch

Design and construction works for Zalaegerszeg-Zalaszentivan section in Budapest, Hungary

Country: Hungary
Organisation: Ministry of Construction and Transport
Description: Bids are invited for design and construction of the Zalaegerszeg-Zalaszentiván section in Budapest. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:495255-2023:TEXT:HU:HTML
Closing Date: September 28, 2023
Contact: Alkotmany Utca 5, Budapest, Hungary
Phone: +36 12390420
E-mail: kozbeszerzes@ekm.gov.hu
Website: https://kormany.hu/epitesi-es-kozlekedesi-miniszterium

Supply of nine trams in Oradea, Romania

Country: Romania
Organisation: Municipality of Oradea
Description: Bids are invited to supply nine trams as part of 'Modernization of the tram fleet at Oradea-Stage 1' and 'Modernization of the tram fleet at Oradea-Stage 2'. The procurement is being financed by the European Union. Further details are available at http://www.e-licitatie.ro/pub/notices/c-notice/v2/view/100169505
Closing Date: September 20, 2023
Contact: Piața Unirii, no. 1, Oradea, Romania
Phone: +40 259408803
E-mail: adela.tirta@oradea.ro
Website: www.oradea.ro

Modernization of four rail vehicles in Toruń, Poland

Country: Poland
Organisation: Kujawsko-Pomorskie Province
Description: Bids are invited to to carry out works to modernise four rail vehicles of the SA106 series. The scope of work includes delivery and installation of a compliant passenger information system, replacement of passenger seats, and installation of sockets for charging mobile devices. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:496830-2023:TEXT:EN:HTML&src=0
Closing Date: September 11, 2023
Contact: Kujawsko-Pomorskie Province, Office Plac Teatralny, Toruń, Poland
Phone: +48 566215869
Website: https://platformazakupowa.pl/pn/kujawsko.pomorskie

Supply of 10 electric locomotives in Warszawa, Poland

Country: Poland
Organisation: PKP Intercity
Description: Bids are invited for the supply of 10 electric locomotives including provision of maintenance services into five lots. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:496013-2023:TEXT:EN:HTML&src=0
Closing Date: September 12, 2023
Contact: Al. Jerozolimskie 142A, Warszawa, Poland
E-mail: joanna.konieczna@intercity.pl
Website: https://www.intercity.pl/

Provision of construction material for track construction in Köln, Germany

Country: Germany
Organisation: Kölner Verkehrs-Betriebe AG
Description: Bids are invited to provide construction material for rail and tracks in two lots. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:502857-2023:TEXT:EN:HTML&src=0
Closing Date: September 15, 2023
Contact: Scheidtweilerstr. 38, Köln, Germany
Phone: +49 221/5473617
E-mail: norbert.hardt@kvb-koeln.de
Website: http://www.kvb.koeln

Tram track grinding services for the VAG Nuremberg subway network, Germany

Country: Germany
Organisation: VAG Verkehrs-Aktiengesellschaft
Description: Bids are invited to provide tram track grinding services for the VAG Nuremberg subway network. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:505774-2023:TEXT:EN:HTML&src=0
Closing Date: September 18, 2023
Contact: Am Plärrer 43, Nürnberg, Germany
Phone: +49 911/80258405
E-mail: klaus.kutka@vag.de
Website: www.vag.de

Supply of 46 electric locomotives in Warszawa, Poland

Country: Poland
Organisation: PKP Intercity
Description: Bids are invited for the supply of 46 electric locomotives including provision of maintenance services. The procurement is funded by the European Union. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:485212-2023:TEXT:EN:HTML
Closing Date: September 14, 2023
Contact: Al. Jerozolimskie 142A, Warszawa,
Poland
E-mail: barbara.krolak@intercity.pl
Website: https://www.intercity.pl/

Design and execution of redevelopment works of the Olkusz Railway Station, Poland

Country: Poland
Organisation: PKP Polskie Linie Kolejowe SA
Description: Bids are invited for the execution of the redevelopment of the Olkusz railway station as part of 'Unblocking of the main transport routes from Upper Silesia'. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:504752-2023:TEXT:EN:HTML&src=0
Closing Date: September 25, 2023
Contact: Attn.: Dariusz Białek, Ul.Targowa 74, Warszawa, Poland
Phone: +48 123933455
E-mail: dariusz.bialek@plk-sa.pl
Website: www.plk-sa.pl

Supply of engine repair kit in Madrid, Spain

Country: Spain
Organisation: Renfe Fabricación y Mantenimiento
Description: Bids are invited for supply of an engine repair kit. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:504298-2023:TEXT:EN:HTML&src=0
Closing Date: September 19, 2023
Contact: Antonio Cabezón-28034, Madrid, Spain
E-mail: DAVID.LANCHAS.BELTRAN@COLABORADORES.RENFE.ES
Website: https://www.renfe.com/es/es/grupo-renfe/contratacion/perfil-del-contratante

Design and execution of construction works between Limanowa-Klęczany Railway Section, Poland

Country: Poland
Organisation: PKP Polskie Linie Kolejowe SA
Description: Bids are invited for the execution of the construction works on the railway line number 104 for the Limanowa-Klęczany Railway Section. The procurement is funded by the European Union. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:503841-2023:TEXT:EN:HTML&src=0
Closing Date: August 30, 2023
Contact: Attn.: Anna Bieńczyk, Targowa 74, Warszawa, Poland
E-mail: anna.bienczyk@plk-sa.pl
Website: http://www.plk-sa.pl

Provision of maintenance and repair works of tram track in Budapest, Hungary

Country: Hungary
Organisation: Budapesti Közlekedési Zártkörűen Működő Részvénytársaság
Description: Bids are invited to provide maintenance and repair works of tram track in Budapest. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:503429-2023:TEXT:EN:HTML&src=0
Closing Date: August 29, 2023
Contact: Attn.: Dóra Hagymási, Akácfa Utca 15, Budapest, Hungary
Phone: +36 14616578

E-mail: kozbeszerzes@bkv.hu
Website: http://www.bkv.hu

Supply of electric minibus and charging station in Coltau, Romania

Country: Romania
Organisation: Comuna Coltau
Description: Bids are invited to supply an electric minibus and standard charging station as part of 'Renewal of the fleet of vehicles intended for public transport'. The procurement is being financed by the European Union. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:511907-2023:TEXT:EN:HTML&src=0
Closing Date: September 25, 2023
Contact: Petofi Sandor, nr. 65, Coltau, Romania
Phone: +40 262289289
E-mail: primaria_coltau@yahoo.com
Website: https://www.e-licitatie.ro

Supply of 12 electric buses, Bulgaria

Country: Bulgaria
Organisation: Kazanlak Municipality, Pavel Banya Municipality
Description: Bids are invited to supply 12 electric buses in Kazanlak and Pavel Banya. The procurement is being financed by the European Union. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:508729-2023:TEXT:EN:HTML&src=0
Closing Date: September 18, 2023
Contact: Kazanlak, Pavel Banya, Bulgaria
E-mail: m.toleva@kazanlak.bg, zop_pb@abv.bg
Website: https://www.kazanlak.bg/, https://pavelbanya.bg/

Supply of electric minibus and charging station in Dumbraveni, Romania

Country: Romania
Organisation: Comuna Dumbraveni
Description: Bids are invited to supply an electric minibus and standard charging station as part of 'Purchase of non-polluting microbuses for community use for the Municipalities of Dumbraveni and Siminicea'. The procurement is being financed by the European Union. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:506855-2023:TEXT:EN:HTML&src=0
Closing Date: September 6, 2023
Contact: Calea Nationala, nr. 2179, Dumbraveni, Romania
Phone: +40 730714657
E-mail: dorelgalan@gmail.com
Website: www.e-licitatie.ro

Installation of electrical equipment in Bruxelles, Belgium

Country: Belgium
Organisation: SNCB Procurement
Description: Bids are invited to install preheating sockets on eight tracks, powered by the 25 kV network for AT Arlon. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:518762-2023:TEXT:EN:HTML&src=0
Closing Date: October 4, 2023
Contact: Attn.: Claude Van Geyte, Avenue de la Porte de Hal 40, Bruxelles, Belgium
Phone: +32 492914277
E-mail: claude.vangeyte@belgiantrain.be
Website: www.B-rail.be

Supply of 16 EMUs in Warszawa, Poland

Country: Poland
Organisation: Masovian Voivodeship
Description: Bids are invited to supply and maintain 16 two-unit electric multiple units (EMUs) in Warszawa. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:517606-2023:TEXT:EN:HTML&src=0
Closing Date: September 15, 2023
Contact: Attn.: Iwona Kielczyk, Anna Wysmułek, Jagiellońska 26, Warszawa, Poland
Phone: +48 225979100
E-mail: zamowienia@mazovia.pl
Website: https://mazovia.pl/,https://www.mazowieckie.com.pl/pl

Supply of metric gauge train in Barcelona, Spain

Country: Spain
Organisation: Ferrocarrils de la Generalitat de Catalunya
Description: Bids are invited to supply a metric gauge catenary inspection train in Barcelona. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:516093-2023:TEXT:EN:HTML&src=0
Closing Date: September 28, 2023
Contact: C. dels Vergós, 44, Barcelona, Spain
Phone: +34 933663000
E-mail: mlaurin@fgc.cat
Website: https://www.fgc.cat

Supply two DEMUs in Zielona Góra, Poland

Country: Poland
Organisation: Office of the Marshal of the Lubuskie Province in Zielona Góra
Description: Bids are invited to supply two dual-drive (diesel and electric) multiple units for servicing passenger rail transport in Zielona Góra. The procurement is being financed by the European Union. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:514226-2023:TEXT:EN:HTML&src=0
Closing Date: September 21, 2023
Contact: Podgórna 7, Zielona Góra,
Poland
Phone: +48 684565404
E-mail: j.pawlowska@lubuskie.pl
Website: www.lubuskie.pl

Supply of metric gauge train for Genova-Casella Railway, Italy

Country: Italy
Organisation: Azienda Mobilità e Trasporti

Description: Bids are invited to design, supply, and commission a 36-metre narrow-gauge electric train for the Genoa Casella railway. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:505952-2023:TEXT:EN:HTML&src=0
Closing Date: September 19, 2023
Contact: Attn.:Sebastiano Durante, Via L.Montaldo 2, Genova, Italy
Phone: +39 0105582347
E-mail: garecontratti@pec.amt.genova.it
Website: www.amt.genova.it

Supply of nine trams in Oradea, Romania

Country: Romania
Organisation: Municipiul Oradea
Description: Bids are invited to supply, maintain, and commission nine trams for the urban transport of passengers in Oradea. The procurement is being financed by the European Union. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:499307-2023:TEXT:EN:HTML&src=0
Closing Date: September 20, 2023
Contact: Attn.: Adela Tirtea, Piața Unirii, nr. 1, Oradea, Romania
Phone: +40 259408803
E-mail: adela.tirtea@oradea.ro
Website: www.oradea.ro

Supply of gas for Govia Thameslink Railway, UK

Country: United Kingdom
Organisation: Govia Thameslink Railway
Description: Bids are invited to supply gas for the Govia Thameslink Railway.
Closing Date: September 8, 2023
Contact: Attn.: Nathan Dinsdale, 3rd Floor, 41 - 51 Grey St Newcastle, UK
E-mail: procurement@inspiredenergy.co.uk
Website: https://inspiredenergy.co.uk/

Supply nine trams in Olomouc, Czechia

Country: Czechia
Organisation: Dopravní podnik města Olomouce
Description: Bids are invited to supply and maintain nine uni-directional, low-floor trams in Olomouc. The procurement is being financed by the European Union.
Closing Date: September 13, 2023
Contact: Attn.: Milan Zborník, Koželužská 563/1,
Olomouc,
Czechia
Phone: +420 733140502
E-mail: milan.zbornik@olomouc.eu
Website: https://www.dpmo.cz/

Supply of 35 electric locomotives in Sofiya, Bulgaria

Country: Bulgaria
Organisation: Ministry of Transport, Information Technology and Communications
Description: Bids are invited for the supply of 35 single-deck electric locomotives including provision of maintenance services for a period of 15 years and a seating capacity for at least 200 passengers. The procurement is funded by the European Union. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:533218-2023:TEXT:EN:HTML&src=0
Closing Date: October 30, 2023
Contact: Attn.: Plamenka Vasileva, Dyakon Ignatiy St 7-9, 9 Sofia Center, Sofia, Bulgaria
Phone: +359 29409754
E-mail: mail@mtitc.government.bg
Website: https://www.mtc.government.bg/

Provide construction supervision services for Coswig Railway, Germany

Country: Germany
Organisation: DB Netz AG
Description: Bids are invited to provide construction supervision services for the erection of the noise protection walls in two lots. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:533161-2023:TEXT:EN:HTML&src=0
Closing Date: October 4, 2023
Contact: Attn.: Ruhland Jonas, Adam-Riese-Straße 11-13, Frankfurt Main, Germany
Phone: +49 9112194087
E-mail: jonas.ruhland@deutschebahn.com
Website: http://www.deutschebahn.com/bieterportal

Supply of 18 diesel locomotives in Warszawa, Poland

Country: Poland
Organisation: PKP Intercity
Description: Bids are invited to supply 18 light diesel shunting locomotives.
Closing Date: September 18, 2023
Contact: Al. Jerozolimskie 142A, Warszawa, Poland
E-mail: dawid.wolkowiecki@intercity.pl
Website: https://www.intercity.pl/

Supply of seven diesel-electric railcars in Sofiya, Bulgaria

Country: Bulgaria
Organisation: Ministry of Transport, Information Technology and Communications
Description: Bids are invited to supply seven double-deck electric locomotives including provision of maintenance services for a period of 15 years and a seating capacity for at least 300 passengers. The procurement is funded by the European Union. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:531182-2023:TEXT:EN:HTML&src=0
Closing Date: October 30, 2023
Contact: Attn.: Sonya Doncheva, Dyakon Ignatiy St 7-9, 9 Sofia Center, Sofia, Bulgaria
Phone: +359 29409385
E-mail: mail@mtitc.government.bg
Website: https://www.mtc.government.bg/

Supply of 20 electric trains in Sofiya, Bulgaria

Country: Bulgaria
Organisation: Ministry of Transport, Information Technology and Communications
Description: Bids are invited to supply 20 single-deck zero-emission electric trains including provision of maintenance services for a period of 15 years and a seating capacity for at least 300 passengers. The procurement is funded by the European Union. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:531800-2023:TEXT:EN:HTML&src=0
Closing Date: October 31, 2023
Contact: Attn.: Galina Valcheva, Dyakon Ignatiy St 7-9, 9 Sofia Center, Sofia, Bulgaria
Phone: +359 29409588
E-mail: mail@mtitc.government.bg
Website: https://www.mtc.government.bg/

Carry out track renovation works at Gernika Station, Spain

Country: Spain
Organisation: Body Delegate Committee on ETS Contracting
Description: Bids are invited to carry out track renovation works at Gernika Station in Biscay.
Closing Date: September 13, 2023
Contact: Biscay, Spain

Provide maintenance works in Athens, Greece

Country: Greece
Organisation: OSE SA
Description: Bids are invited for works related to the maintenance and renovation of the main and secondary lines, under the jurisdiction of the Larissa Line Maintenance Department. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:535981-2023:TEXT:EL:HTML
Closing Date: October 10, 2023
Contact: Attn.: Manto Minitzia,
Central Sector of Athens / Kentrikos Tomeas Athinon,
Greece
Phone: +30 2105297507
E-mail: m.mintzia@osenet.gr
Website: http://www.ose.gr

Repair and reconstruction of Vlkov U Tišnov Railway, Czech Republic

Country: Czech Republic
Organisation: Railway administration, State organisation
Description: Bids are invited for the repair and reconstruction of Vlkov U Tišnov Railway. The procurement is funded by the European Union. Further details are available at https://ted.europa.eu/udl?uri=TED:NOTICE:535465-2023:TEXT:CS:HTML
Closing Date: September 19, 2023
Contact: Attn.: Ing. Kamila Přerovská,
Dlážděná 1003/7, P
rague, Czech Republic
E-mail: prerovska@spravazeleznic.cz
Website: https://www.spravazeleznic.cz/

Provide reconstruction and electrification works for Devinska Nova Ves Railway Line, Slovakia

Country: Slovakia
Organisation: Railways of the Slovak Republic
Description: Bids are invited for the reconstruction and electrification works for Devinska Nova Ves Railway Line. The procurement is funded by the European Union.
Closing Date: October 11, 2023
Contact: Attn.: Mgr. Ľubica Ohradkova,
Klemensova 8,
Bratislava, Slovakia
Phone: +421 220293156
E-mail: ohradkova.lubica@zsr.sk
Website: http://www.zsr.sk

Middle East Africa

Provide track improvement between Kranzberg-Tsumeb Railway Section, Namibia

Country: Namibia
Organisation: TransNamib Holdings Limited
Description: Expression of interest (EoIs) are invited for track acceleration and rail condition monitoring for Kranzberg-Tsumeb railway section. Further details are available at https://www.tendersontime.com/doc_show.php/SA14829917.png
Closing Date: September 8, 2023
Contact: Mokganethy Roos Procurement, Namibia
Phone: +264 81958 2009
E-mail: procurement@transnamib.com.na
Website: https://www.transnamib.com.na/

Provision Of security guarding services for Kenya Railways Transit Shed

Country: Kenya
Organisation: Kenya Railways
Description: Bids are invited for providing security guarding services for Kenya Railways Transit Shed.
Closing Date: August 17, 2023
Contact: P.O. Box 30121 - 00100, Nairobi, Kenya
Phone: +254722484158
E-mail: jkairianja@krc.co.ke
Website: www.krc.co.ke

Provide track maintenance work at Marrakesh, Morocco

Country: Morocco
Organisation: Menara Arrondissement
Description: Bids are invited for the maintenance of track work at Marrakesh.
Closing Date: September 28, 2023
Contact: Attn.: Abdelahaq Kouissar, Menara, Marrakesh, Morocco
Phone: +0661204893
E-mail: arrondissementmenara1@gmail.com

Upgrade Tanta-El Mansoura-Damietta Railway Line, Egypt

Country: Egypt
Organisation: Egyptian National Railways (ENR)
Description: Bids are invited for upgrading the Tanta-El Mansoura-Damietta railway line including the doubling of El Mansoura-Damietta section, the re-signaling of the whole line and other ancillary works. Further details are available at https://www.eib.org/en/projects/all/20180764
Closing Date: October 1, 2023
Contact: Attn.: Ghada Hamed,
Egyptian National Railways Authority,
Purchasing & Stores Department,
Fifth Floor, above Shoubra Subway,
Cairo, Egypt
Phone: +201 287336868
E-mail: eng.ghadahamed@gmail.com
Website: https://www.enr.gov.eg

Provide security service for New Saida-Tiaret Railway Line, Algeria

Country: Algeria
Organisation: Cosider Travaux Publics
Description: Bids are invited for security service and unarmed guarding for the project 'Realization of the New Saida-Tiaret Railway Line'.
Closing Date: September 5, 2023
Contact: Cité Clément-ville - Mohammadia Alger,
Algeria
Phone: +023 751142
E-mail: tp@cosider-groupe.dz
Website: https://www.cosider-groupe.dz/fr/cosider-travaux-publics

Supply of guardrails, Mauritius

Country: Mauritius
Organisation: Government of Mauritius
Description: Bids are invited for supply of guardrails and accessories.
Closing Date: September 11, 2023
Contact: 5th Floor, Emmanuel Anquetil Building,
Port-Louis,
Mauritius
Phone: +230 2011530
E-mail: eprocdesk@govmu.org
Website: https://govmu.org/EN/Pages/default.aspx

Supply of equipments for Cairo Metro Line 1, Egypt

Country: Egypt
Organisation: Egyptian Co. for Metro Management & Operation
Description: Bids are invited for supply of spare parts and equipment for the aerial network of the Cairo Metro Line 1.
Closing Date: September 30, 2023
Contact: Ramses Square - Metro Company Building, Egypt
Phone: +20 5748353, 25748354
E-mail: hatem.elsayed@cairometro.gov.eg
Website: www.cairometro.gov.eg

Supply and maintenance of track for Prasa Rail Kzn, South Africa

Country: South Africa
Organisation: Passenger Rail Agency of South Africa (PRASA)
Description: Request for quotations (RfQs) are invited for supply and maintenance of track for Prasa Rail Kzn.
Closing Date: August 30, 2023
Contact: Attn.: Rani Padayachee, Masabalala Yengwa Ave,
Durban Central, Durban,
South Africa
E-mail: rani.padayachee@prasa.com
Website: https://www.prasa.com/

Appointment of a infrastructure contractor for Egyptian National Railways

Country: Egypt
Organisation: Egyptian National Railways
Description: Bids are invited to appoint a contractor for the railway Installation work and development of signalling and communication systems for Egyptian National Railways.
Closing Date: October 1, 2023
Contact: Railway Complex - above Shubra Tunnel - Cairo,
Egypt
Phone: +02 25771896
E-mail: enr.pscc@gmail.com
Website: www.enr.gov.eg

Provision of track maintenance works for Jinja-Iganga Railway Section, Uganda

Country: Uganda
Organisation: Uganda Railways Corporation
Description: Bids are invited for track maintenance works for Jinja-Iganga Railway Section. Further details are available at https://www.tendersontime.com/doc_show.php/SA15166286.png
Closing Date: September 29, 2023
Contact: Procurement & Disposal Unit, 1st Floor, Rm. No.10, URC Headquarters Premises at Plot 57, Nasser Road,
Uganda
Phone: +256 41 4258051
Website: https://urc.go.ug/

Provide consultancy services for Tanzania Railways

Country: Tanzania
Organisation: Tanzania Railways Corporation
Description: Expression Of Interests (EOIs) are invited to provide consultancy services for preparing a comprehensive business transformation strategy for Tanzania Railways.
Closing Date: September 21, 2023
Contact: P.O BOX 70364, Dar es Salaam, Tanzania
E-mail: pmu@trc.co.tz
Website: https://eticketing.trc.co.tz/◆

Global Mass Transit Report

Information and analysis on the global mass transit industry

The mission of **Global Mass Transit** is simple and modest - to provide decision makers with up-to-date and comprehensive information and analysis on the global mass transit industry. We cover metro, bus, light rail, regional rail, and inter-modal passenger transport.

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