



Transport & mobility



Our experience. Your growth.

A vertical photograph on the left side of the page shows a modern city at night. A tall, curved skyscraper with many lit windows is the central focus. Below it, a bridge with a railing and some greenery is visible. At the bottom, there are blurred light trails from a road, suggesting traffic. The overall scene is illuminated with warm city lights against a dark sky.

Main services

For over thirty years RINA has been a key partner in major Transport & Mobility projects for infrastructure managers, operators and contractors in their implementation and innovation challenges.

We are planners, consultants, designers, integrators of transport and mobility projects. We help our clients bring state-of-the-art technology to transport, mobility and logistics projects, keeping pace with the energy transition concerning in respect of sustainability, efficiency and safety targets.

With a long track record in the implementation of railway, metro, LRT and bus systems, we cater to clients globally, providing comprehensive services that encompass the entire project lifecycle.

Our services span from initial demand and cost analysis, conceptual design, and preliminary specification development, to detailed design, design verification, validation, system acceptance, project management, systems engineering, and test commissioning.



RAM & Safety
management



Logistics and
transport studies



Green mobility and
energy transition services



Owner's engineering and
project management



Planning, feasibility
and design



Systems engineering
and integration



Footprint in

Middle East & GCC

UAE – OMAN HAFEET RAIL PROJECT

Client: Hassan Allam Construction - Siemens Mobility

Location: UAE & Oman

RINA has been engaged as the nominated Engineer for Design Support Services and Systems Engineering Services including - but not limited to - RAMS, security, interface & integration, electromagnetic compatibility, human factor, verification & validation, requirement & configuration, test & commissioning. RINA, on behalf of the Consortium, is in charge of the overall Network System Integration. The line has a length of around 300 km connecting UAE and Oman, including border transition. The Line will be equipped with ETCS L2 and will ensure continuity with the already existing Railway Line in UAE.

BAHRAIN METRO EXTENSION

Client: Ministry of Transportation and Telecommunications (MTT)

Location: Bahrain

RINA has provided consultancy service for the feasibility and for the preliminary design of Bahrain Metro Extension (Line 1b from King Hamad International Railway Station to Bahrain Sport City). Activities include data collection, preliminary demand analyses and transport model, alignment studies, station planning, land acquisition assessment, multicriteria analysis and preliminary design.

ALEXANDRIA REGIONAL METRO – ABOU QIR to MISR STATION

Client: JV Colas Rail - Orascom

Location: Egypt

RINA has been engaged as the Independent Checking Engineer, responsible for the independent checking of the Contractor's Design related to systems, MEP and system integration. Alexandria Regional Metro line has a length of approx. 22 km, partially at grade and partially on viaduct with 20 stations, depots, and stabling yards. The line is equipped with CBTC.

HIGH SPEED RAIL – GREEN, BLUE & RED LINE

Client: JV Orascom - the Arab Contractor

Location: Egypt

RINA has been appointed as Telecom Designer, responsible for the design of the main telecommunication system and as Safety & RAM Consultant for the track works and telecomm subsystems. RINA is in charge of performing all the Safety and RAM analyses

and documentation, leading the Safety & RAM process for the High Speed Network under construction in Egypt, consisting of 3 HST lines (Green, Blue and Red) equipped with ERTMS L2 for a total of 1800+ km.

DUBAI ROUTE 2020 METRO PROJECT

Client: JV Acciona - Gulermak

Location: UAE

Within the Route 2020 Project, an extension of the Red Line of the Dubai Metro (UAE) driverless system, serving seven passenger stations along the 14.5 km extension, RINA has been appointed as the Safety Assurance Consultant for civil work and MEP system & EMC engineering systems. This includes the management of the RAM and safety lifecycle, EMC engineering, software assurance, and RAM demonstration activities.

ETIHAD RAIL STAGE I

Client: JV Saipem - Dosal - Tecnimont

Location: UAE

RINA has been engaged as the Technical Owner of the system engineering and system integration process for the Shah – Habshan – Ruwais Railway Project – Stage I. This project supports the design and build (D&B) contractor in delivering the 264 km rail line connecting the Shah gas fields in the south of the UAE with the gas distribution and processing facilities at the port of Ruwais in the north. RINA's responsibilities included interface management, RAM & safety engineering, verification & validation management, operation & maintenance management, test & commissioning management, and EMI/EMC engineering.

MARMARAY CR3 PROJECT

Client: JV OHL - Siemens

Location: Turkey

RINA has been engaged as the Technical Owner for Project Management Engineering services for the Marmaray Project. This role includes overseeing design supervision, checking construction, installation, testing, and commissioning, as well as system engineering and assurance (RAM and Safety). RINA is also in charge of integration & interface management, performance & operation, testing & commissioning, providing technical assistance during the handover process, and EMI/EMC engineering. The Marmaray Project consists of intercity passenger and freight services, along with rapid transit Commuter Rail (CR) services. The 77.8 km line is partly at grade and partly in an undersea tunnel, with 44 stations, depots, and stabling yards. The line is equipped with both CBTC and ERTMS systems.





Outlook on

2024 Key projects

CONSTRUCTION MANAGEMENT FOR RED LINE METRO EXTENSION CHICAGO

Client: Chicago Transit Authority

Location: USA

RINA North America is the lead firm in a joint venture, REDefine Southside Partners (RSP), providing construction management services for the Chicago Transit Authority's (CTA) Red Line Project. This \$3.6 billion project aims to extend the CTA's Red Line from 95th Street to 130th Street. The scope of services includes managing project controls, such as budget and schedule, as well as overseeing quality, safety, and technical aspects to ensure that the construction contractors comply with the CTA's plans and specifications. Additionally, RSP will assist the CTA with technical and project controls support for the procurement of the Design-Build Contract.

PMO FOR BOSTON RED & ORANGE LINE

Client: Massachusetts Bay Transportation Authority (MBTA)

Location: USA

RINA North America is the lead firm in a joint venture, performing the role of Program Manager and Construction Manager (PM/CM) on the Massachusetts Bay Transportation Authority's Red Line and Orange Line Infrastructure Transformation Program. The Red and Orange lines are two of the most important rail lines on the MBTA system, serving 400,000+ customers daily with over 51 km of track (17 km underground), 42 stations and 2 major maintenance facilities and yards for vehicle storage. This program was necessary to provide infrastructure improvements and system upgrades to support a new, expanded fleet of vehicles.

HYPERLOOP – FEASIBILITY STUDY

Client: JV Webuild - Leonardo

Location: Italy

Phase 1 of the Hyper Transfer project focuses on developing and demonstrating the effectiveness of an innovative transportation system based on hyperloop technology. The pilot section spans 10 km between Venice and Padua and includes a test track, stations, an operations control center (OCC), a depot, and capsules. RINA has been appointed as the subconsultant responsible for technical, functional, and administrative feasibility, system assurance and integration, as well as risk assessment. administrative feasibility, system assurance and integration and risk assessment.

PMO for RAILWAY HYDROGEN VALLEY (H2ISEO)

Client: Ferrovie Nord Milano

Location: Italy

The “H2iseO Hydrogen Valley” project aims to decarbonise public transport services and promote the transition to a more sustainable transportation system. As the first project of its kind in Italy, it will feature 3 different hydrogen production, storage, and distribution sites, supplying hydrogen to 14 trains and a fleet of 40 public buses for local transport. The PMO is responsible for supervising the timely execution of activities, managing the project GANTT chart, overseeing interface management, coordinating stakeholder engagement, and supporting the coordination of safety-related activities among stakeholders, including ANSFISA.

PMC for GENOA SKY METRO PROJECT

Client: Genoa Municipality

Location: Italy

The project consists in the extension of the existing Genoa Metro by an additional 7 km, adding 7 new stations. RINA has been appointed as Project Management Consultant responsible for technical assistance for tender preparation, design review & verification, work supervision, H&S management during construction and further technical assistance during T&C.

PMC for TANZANIA STANDARD GAUGE RAILWAY (SGR)

Client: Tanzania Railway Company

Location: Tanzania

RINA is part of the JV performing on behalf of TRC the review of design, supervision, and management of works carried out by the D&B contractor across all five phases, for a total of 1200+ km. RINA's responsibilities include overseeing rail alignment and track works, the implementation of the ERTMS Level 2 signaling system, providing expert services related to rolling stock, and developing the operational scheme for the revenue service, all aimed at the ultimate construction of the railway line in standard gauge.





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DISCOVER
our web page



RINA consists of the parent company RINA S.p.A., the holding which controls the main sub-holdings RINA Services S.p.A., RINA Consulting S.p.A. and RINA Prime Value Services S.p.A. In order to ensure compliance with the applicable recognition, authorization, notification and accreditation rules, including those relevant to the management of impartiality, RINA has adopted a governance and organizational model. According to this model, the sub-holdings are subject to direction and co-ordination by the holding in the finance, administration, strategic, organizational, managerial and business continuity fields, while technical and operational decisions remain under the exclusive responsibility of the sub-holdings and their controlled companies. The strict separation of duties in the governing bodies and the impartiality risk assessment, which identifies and manages the impartiality and conflict of interest threats coming from the company relations, ensure compliance with the applicable impartiality rules.