

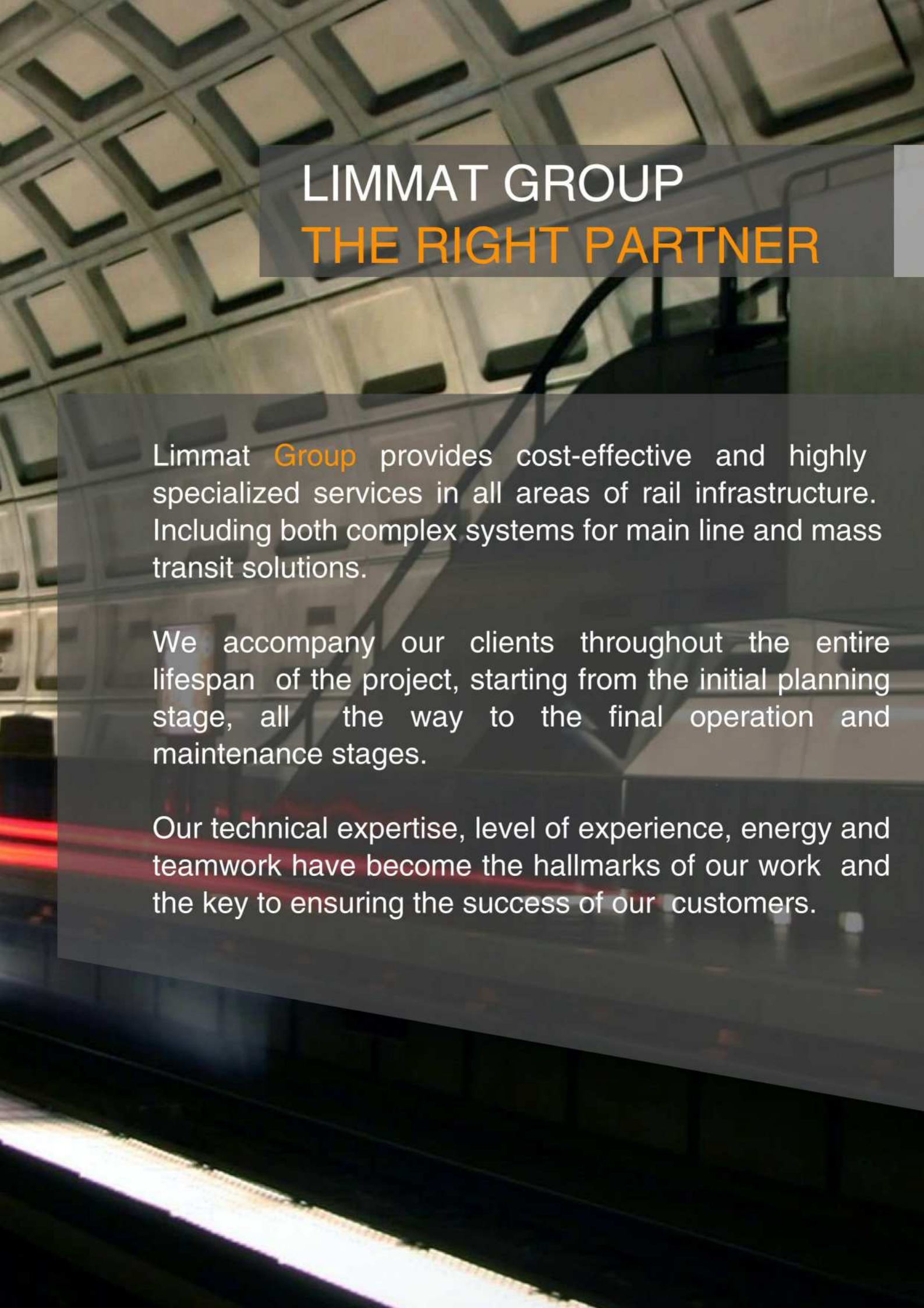


LIMMAT
group

**FULL STEAM AHEAD
TO THE FUTURE**

RAILWAY SOLUTIONS





LIMMAT GROUP

THE RIGHT PARTNER

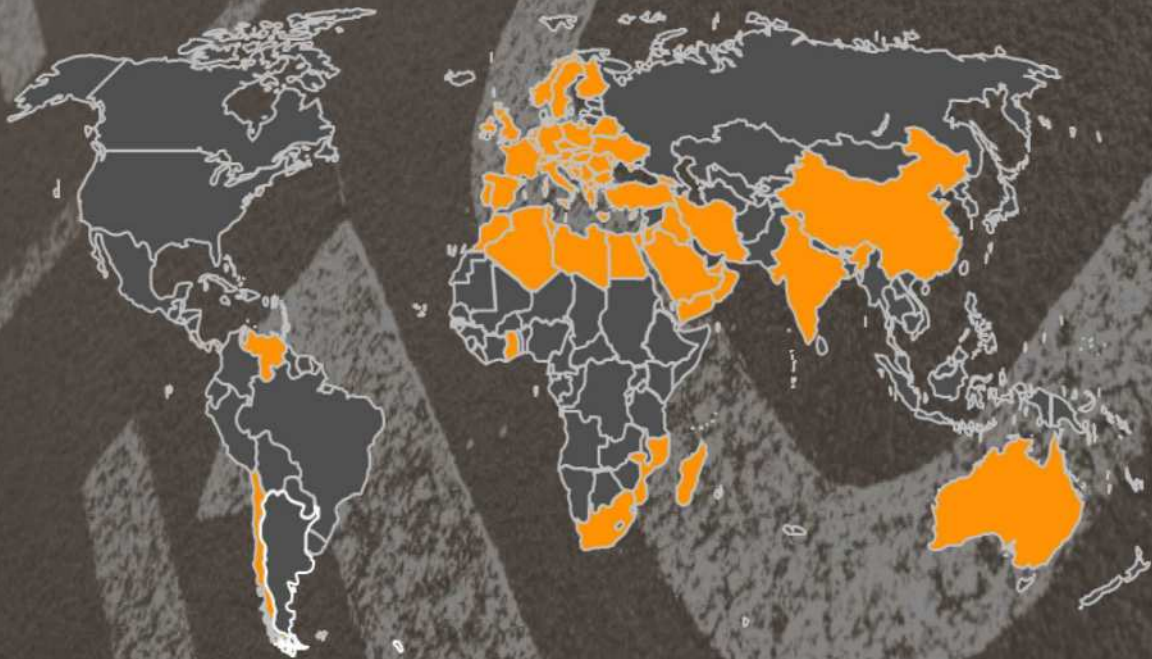
Limmat **Group** provides cost-effective and highly specialized services in all areas of rail infrastructure. Including both complex systems for main line and mass transit solutions.

We accompany our clients throughout the entire lifespan of the project, starting from the initial planning stage, all the way to the final operation and maintenance stages.

Our technical expertise, level of experience, energy and teamwork have become the hallmarks of our work and the key to ensuring the success of our customers.

INTERNATIONAL EXPERIENCE

Limmat **Group** has offices in Spain and Switzerland,
and operations in more than 40 countries.



Our company consist of three different division, proving a comprehensive range of services for the internalization of our customers.



RAILWAYS

TRADING

CONSULTING

A POWERFUL NETWORK

Our team comprises a series of technical expertise, coupled with extensive international experience. This, in addition to our collaboration with our vast network of freelancers and partners, allows us to provide the best and most specialized services to our clients.



An integrated approach is applied in each transportation project we carry out. State-of-the-art technology, creativity and intelligence are all factors that are inclusive to the fulfillment of our client's needs and expectations.

WE ARE YOUR PARTNER THROUGH EACH PROJECT PHASE

We accompany and support our customers through every phase of the project.

Our competency record and optimal service helps ensure that our customers are fully satisfied.



Procurement & Tender Preparation

LIMMAT GROUP provides optimal solutions to our customers to aid them during their tenders. This method reduces project risk and ensures the success of the project from the very beginning.

- Development of Project Scenarios and Procurement Strategies
- Preparation and Analysis of Requirements
- Feasibility Reports
- Cost Estimations
- Risk Management
- Technology Evaluation
- Concept Design and Technical Solution

Planning & Design Phase

During the Planning and Design phase, Limmat Group draws up plans and offers the vital services necessary, from the concept design to the detail design.

- Planning
- Support for the Mobilization
- Conceptual, Preliminary and Detail Design
- Rail Traffic Simulations
- System Integration
- Migration Planning
- RAMS
- Studies and Risk Analysis

Execution Phase

During the Execution Phase, Limmat Group paves the way for a successful delivery.

- Project Management
- Control & Monitoring
- Risk Management
- Reliability and Safety Management
- Contract Management
- Requirements Management
- Claims
- Integration Testing

Operation & Maintenance Phase

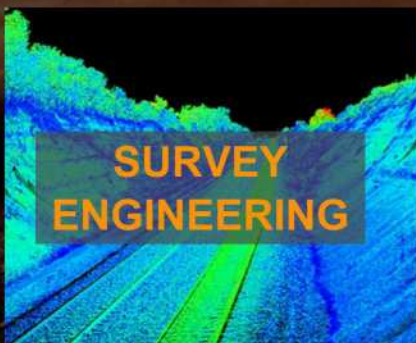
At the final phase of the project, customers will continue to rely on Limmat Group. Our service spectrum consists of both standard and operational services.

- Monitoring and RAMS
- Maintenance Concepts for Selected Technologies
- Release Management
- Cybersecurity
- Maintenance Software
- Mobile Applications

DELIVERING

TECHNICAL COMPETENCIES

Our interdisciplinary team of professionals, apply state-of-the-art technology for railway solutions. It is our goal to produce sustainable, competitive, safe and high impact products, allowing customers to maximize their return on investments.



KNOW-HOW

AREAS OF EXPERTISE

PROJECT MANAGEMENT

- Planning
- Control & Monitoring
- Project Recovery
- Risk Management

CONTRACT MANAGEMENT

- Contractual Advice
- Dispute Management
- Claims
- FIDIC

BIDS & TENDER PREPARATION

- Analysis of Requirements
- Cost Estimations
- Search for Partners
- Risk Management

PROCUREMENT

- Cost & Risk reduction
- Supplier Management
- Spend Transparency

DESIGN & DEVELOPMENT

- System Integration
- Feasibility Studies
- Technology Evaluation
- Migration Planning
- RAMS

IT SOLUTIONS

- Mobile Applications
- CAD Tools
- ERTMS Tools

SIGNALLING

- Design
- ERTMS/ETCS
- Wayside Systems
- Centralized Traffic Control System
- CBTC

COMMUNICATIONS

- GSM-R
- SCADA
- Telephone Systems
- Fare Collection
- Public Address
- Detection Systems

TRACTION POWER SYSTEMS

- AC & DC Substations
- EMC Studies
- Overhead Contact Systems
- Third Rail Systems

CYBERSECURITY

- Vulnerability Assessment
- Penetration Testing
- Consulting Services

SURVEY ENGINEERING

- 3D Modeling
- Survey of Vehicles
- Building Information Modeling

ROLLING STOCK

- Dynamic Simulation
- Consultancy

OUR EXPERIENCE



SPAIN

- Over 20 conventional and high speed lines projects.



TURKEY

- Ankara-Konya HSL: Project Management for signalling systems.
- Bandirma-Menemen: Project Management for signalling systems.
- Hasanbey Logistic Project: Project Management services.
- ETCS High speed trains: Project Management services.
- Modernization of Sansun-Kalin Line: Tender preparation & concept design.
- Ankara Metro – M4 Line: Tender preparation.



NORWAY

- ERTMS National Implementation: Consultancy services for the preparation of the RFQ Documentation.



ISRAEL

- ERTMS National Implementation: Consultancy services, revision and quality assurance of all the tender documentation.



INDIA

- Bangalore metro phase II: Detailed design consultancy for power supply & distribution systems.



QATAR

- Doha Metro Phase I: Services for tender preparation.



SAUDI ARABIA

- Haramain Phase II: Consultancy and project management services.
- S&T120-130-320: Services for tender preparation.



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SPAIN

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