

# TÜV Rheinland Global Rail: Consulting Rail.

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# Our Mission Statement: Comprehensive Consultancy for Rail Transport.

TÜV Rheinland has been one of the world's leading service providers for rail-bound traffic for 45 years: Today, more than 350 experienced experts at 40 locations in 20 nations work within a uniformly managed, globally active business field in the areas of planning, assessment, consulting and training.

Rooted in technology, but with an excellent economic understanding. We support you from the idea throughout the entire product or project life cycle with professional solutions: **PRECISELY. RIGHT.**



**TÜV Rheinland Global Rail**  
● Regions and Offices





Make-or-Buy Analysis  
 Moderation Claim & Contract Management  
 Innovation Radar Software Implementation  
 Urban Public Transport Planning H<sub>2</sub> Test Concepts  
 Lean Management IT Security Workshop Planning & Organisation  
 Bid Support Track Access Charging Schemes  
 Market Analysis E-Mobility Quality Monitoring  
 Tender Specifications Financial Risk Analysis Approval Management  
 Specification Sheet Rolling Stock Vehicle Database  
 Financing Models Benchmarking Cyber Security  
 Asset Management SMS ECM Supply Chain Management  
 Smart Ticketing Obsolescence & Spare Parts Management M&A RAMS Engineering  
 Damage Assessment Requirements Management  
 Feasibility Studies Cost-Benefit Analysis Modernisation  
 Due Diligence Operating Concept Definition  
 Fuel Cells Procurement Planning



# Our Consulting Portfolio: Everything to Make Your Project Perfect.

System houses, component suppliers, construction companies, operators, maintenance companies, financiers and leasing companies as well as supervisory authorities, public transport authorities and the public sector are among our customers.

We are active in all segments of rail-bound transport: heavy rail (high-speed traffic, conventional traffic, regional passenger rail transport, freight traffic), urban rail (e.g. metro, light rail, tram) and other systems (People Mover, cable cars, trolleys, special-purpose vehicles), both for vehicles and infrastructure: With our independent and competent support, let us find answers for tomorrow's transport.





## MARKET & COMPETITION

Solution-oriented and monitoring your risk indicators – no matter what challenge you are facing: M&A, make-or-buy decision, negotiations, new fleet or asset strategy, commissioning, re-organisation. With many years of experience and excellent knowledge of technology, operation, market, normative and contractual requirements – we help to increase market shares, develop fleet strategies, procure the right rail vehicles in the right quality or monitor contract conformity – and more.

**Market Entry & Business Development**

**Tender Support**

**Vehicle Procurement**

**Construction Supervision & Asset Assessment**

**Technical Controlling**

**Damage & Incident Appraisals**

**Implementation of Alternative Fuel / Power Systems**



## SAFETY & HOMOLOGATION

Structured requirement management and proven-in-use methods for RAMS engineering – professional support for your product development, fast and efficient approval processes or functional safety analysis.

**Approval & Homologation**

**Safety Management**

**Hazard & Risk Analysis**

**Requirements Management**

**RAM/LCC Prognosis, Modelling & Analysis**

**Cyber & Information Security**



## OPERATION & MAINTENANCE

Proven methods enabling holistically optimised maintenance and economically viable workshop operation – with the shortest possible lead times, safe and state-of-the-art production, stable and efficient processes as well as clear interfaces between workshop, operation, procurement and scheduling.

**Maintenance Strategy, Maintenance Digitalisation**

**Lean Management, Maintenance & Operation Processes**

**Workshop Strategies**

**Concept & Implementation of ECM and SMS**

**Supply Chain Management, Spare Parts Concept**



## INFRASTRUCTURE

The transport infrastructure is the connecting link between people and locations and therefore absolutely essential for a positive development of society. Our consulting services support you with your decision making, preparation and realisation of sustainable solutions at optimised investment costs considering the consequential charges for maintenance.

**Operating and Transport Plans**

**Feasibility Studies**

**Cost-benefit Analyses**

**System Engineering / Maintenance Plan and Optimisation**

**Project and Quality Management**



## **TÜV Rheinland Global Rail**

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### **Regions and Offices**

#### **Asia Pacific, Greater China**

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Seoul / Shanghai / Singapore / Taipei /  
Yokohama

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Solihull / Utrecht / Warrington / Wiesbaden

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