

TÜV Rheinland Global Rail: Assessment and Certification.

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Our Principle: Solution-oriented Assessment and Certification for Rail and Transport Technology.

In the last 40 years the world's rail supply industry, sub-suppliers and operators have relied on our experts' competence and experience. Based on our accreditations, approvals and designations as well as our involvement in national and European bodies we support you from the product idea through the entire life cycle of the product for safe application in the rail sector. Our references are excellent and thanks to our

many years of experience within passenger and freight transport, we are one of the leading service providers on the European rail transport market. Our team of experts shall be happy to advise you comprehensively and independently e.g. about rail technology, rolling stock, signalling, energy supply, technical systems or rail operation pursuant to the valid rules and regulations.



Testing Body Automation
 Inspection Body Certification Body
 Subsystems Interoperability Constituents
 Commissioning Approval Auditing Inspection
 Quality Supervision Refurbishment Support
 Test Witnessing Homologation Support (VV IBG / §32 EBO, BOStrab)
 Quality Management Rules & Standards European Legislation and Directives
 Notified Body for Interoperability (NoBo)
 Independent Assessment Body (AsBo) Designated Body for National Assessment (DeBo)
 Certification of Entities in Charge of Maintenance (ECM) Noise Measurements Common Safety Method (CSM)
 Functional Tests Accredited Experts
 Assessment Database (TRACY) Independent Safety Assessment
 State of the Art Certificates of Conformity
 Cyber and Information Security Reports & Certificates Validation & Verification
 Driverless Train Operation Innovations



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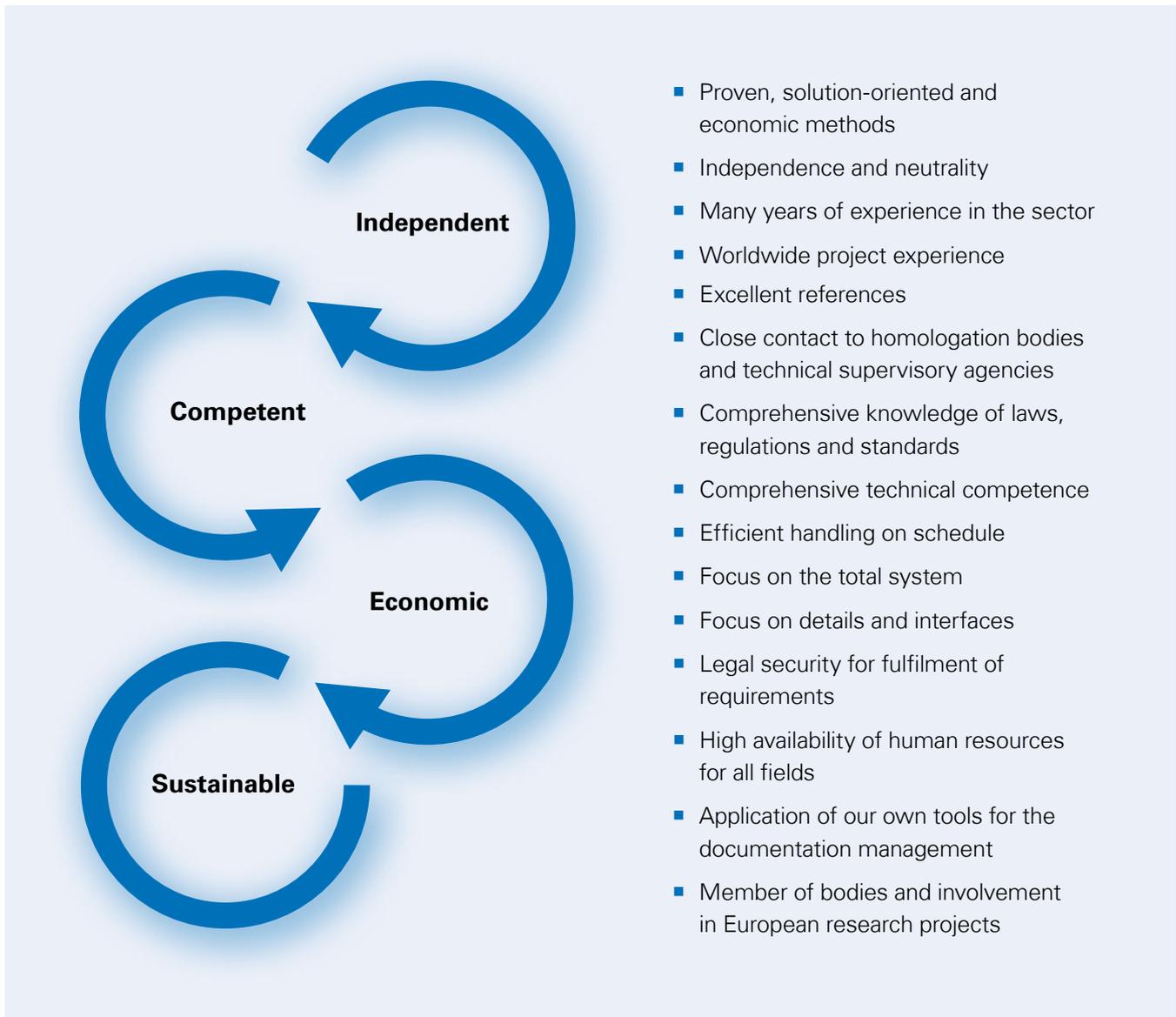
Our Services: Professional Solutions for the Safety of Your Products and Systems.

We constantly adapt our range of services to new and amended laws, regulations and standards. Use our services to develop and optimise your products and systems.

- EC-Verification acc. to the technical specifications for interoperability (TSI)
- Assessment of national requirements pursuant to the notified national technical rules (NNTR)
- Tests for evaluation and assessment of risks – common safety method (CSM)
- Independent safety assessment (ISA) pursuant to CENELEC and BOStrab
- Tests and assessment concerning functional safety and RAMS
- Conformity assessment and product certifications (ISO / IEC 17065)
- Assessment and monitoring of management systems (ISO 9001 / IRIS)
- Expert activities for technical supervisory authorities (EBA / TAB)
- Test witnessing (type test programme) and test performance (functional tests and noise measurements (ISO / IEC 17025)
- Inspection, quality supervision and approval acc. to specifications (ISO / IEC 17020)
- Homologation assistance in the form of harmonised processes, plan of evidence documentation and coordination
- Assessment and realisation of concepts for modernisation of rolling stock and operation
- Assessment of damage as well as investigation of causes and repair support



Our Added Value: The Difference for Your Success.



Our Training Offer: Get Inspired

We offer seminars, workshops and trainings for everybody as well as trainings adapted specifically to your company on the following subjects:

- Process, contents and scope of EC verifications acc. to TSI and national assessments acc. to NNTR for long-distance and regional passenger transport as well as for freight transport
- Process, contents and scope of safety assessments acc. to CENELEC and BOStrab for urban transport
- Process, contents and scope of assessments acc. to CSM and ECM
- Process, contents and scope of cyber and information security

We teach you the theoretical principles in a practice-oriented way on the basis of current project examples.

TÜV Rheinland Global Rail

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