



livRE

railway expertise

LIVRE ENGINEERING & CONSULTING COMPANY PROFILE

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About Us



- LivRE was established in **June 2020 in Ankara** to provide engineering and consultancy services for the railway industry as LivRE Mühendislik Danışmanlık San. ve Tic. Limited Şirketi.
- Parallel to the structural reforms in the European Railway sector, Turkey has taken steps towards a liberal railway market that revealed the need for services such as **technical conformity assessment, independent safety and risk assessment, certification** against various standards/regulations and **consulting**.
- In this regard LivRE started its journey in order to meet changing needs of particularly local clients blending various personal technical expertise in different transport modes, primarily railways, within its organization.



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About Us

LivRE blends various complex technical expertise that are increasingly needed with the developing railway industry.



Technical Conformity Assessments against TSIs [Technical Specifications for Interoperability](#)

- LivRE is able to carry out the technical conformity assessment process starting from module selection, document preparation up to conformity assessment and certification stages in one hand according to technical specifications for interoperability, which are mandatory for all railway systems across Europe and for the rolling stock sub-system in Turkey.
- With LivRE expertise, you can carry out all the technical and bureaucratic procedures required for newly designed railway vehicles and components to be approved by the National Safety Authority, or for approved designs to be produced by any other manufacturer.



Independent Safety Assessment against CSM RA and EN 5012X Standard Series

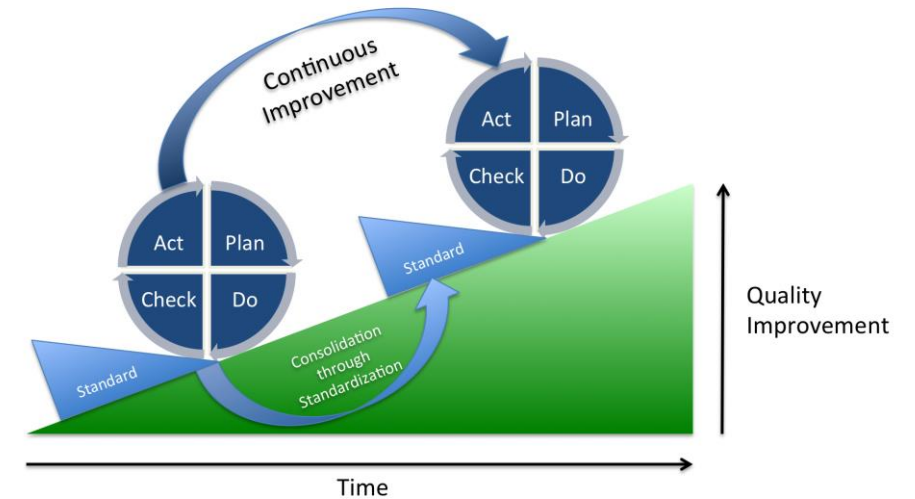
- In addition to technical conformity assessments, in Europe safety assessments are also a legal requirement for all railway systems, and our services in this field are provided with competent and authorized organizations based in Europe.
- Although the legislative framework in this field is yet to be completed in Turkey, independent safety assessments have started to be on the agenda of the operators, especially with the start of High Speed Rail operations.
- With regards to independent safety assessment; LivRE is able to oversee the safety assessments to be performed at component and / or system level as a whole and support its clients with the preparation of engineering documents and management of the entire assessment process in line with CSM RA (Common Safety Method for Risk Assessment) and also the project life cycle stages specified in EN 5012X standard series.





Consultancy Services for Urban / National Train Operators/Infrastructure Managers on Safety Management System

- Currently, both in Europe and in Turkey, train operators and infrastructure managers are obliged to carry out their activities in line with a safety management system established within their organizations. In this context, National Safety Authorities perform audits periodically and authorize operators.
- Within the context of the establishment and improvement of this management system, which hinges on the quality management system and ensures that the organization meets the minimum safety requirements in its activities, LivRE can carry out a series of activities such as document preparation, document improvement, training for the development of safety culture, and provides important support services that will contribute to the safety performance of operators.





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Services

Certification and Consultancy Services for the Entities in Charge of Maintenance (ECM)

- In accordance with the current EU regulation 2019/779 in all EU member countries and in accordance with the railway safety regulation adopted in Turkey; organizations that provide maintenance services for railway vehicles are obliged to establish a maintenance management system and obtain Entity in Charge of Maintenance certification.
- You can not only benefit from LivRE's expertise in the execution of the entire certification process with certification bodies but also in developing the maintenance management system and preparation/improvement of a series of instructions and procedures that should be prepared and implemented exclusively for the maintenance activities performed.





Key Services with respect to Railway Sub-Systems



Infrastructure

- EC Verification (TSI INF, PRM, SRT)
- ISA
- Test Witnessing (Track geometry, wheel-rail interaction)
- Product Approval (rail, sleeper, rail fastening system)
- Trainings for operation and maintenance



Energy

- EC Verification (TSI ENE, SRT)
- Independent Safety Assessment
- Test Witnessing (uplift, catenary-panto interaction)
- Trainings for operation and maintenance



Control-Command-Signalling

- EC Verification (TSI CCS, SRT)
- Independent Safety Assessment
- Test Witnessing (ERTMS, ATS)
- Product Approval (ETCS on-board, RBC, Eurobalise)
- ERTMS trainings



Rolling Stock

- EC Verification (TSI Loc&Pas, Noi, PRM, SRT)
- Independent Safety Assessment
- Approval Management
- ECM Certification
- Product Approval (bogie, wheel etc.)
- Trainings for operation and maintenance

LivRE provides engineering-consultancy services for all processes in this summary table and can carry out all the testing, certification and approval management processes at component or system level.



Please get in touch with us to learn more about our services specific to your needs.

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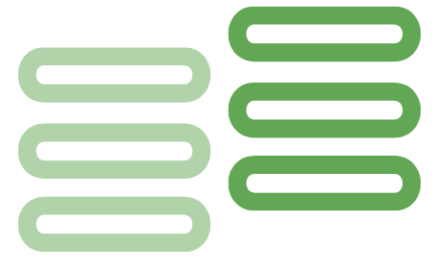


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