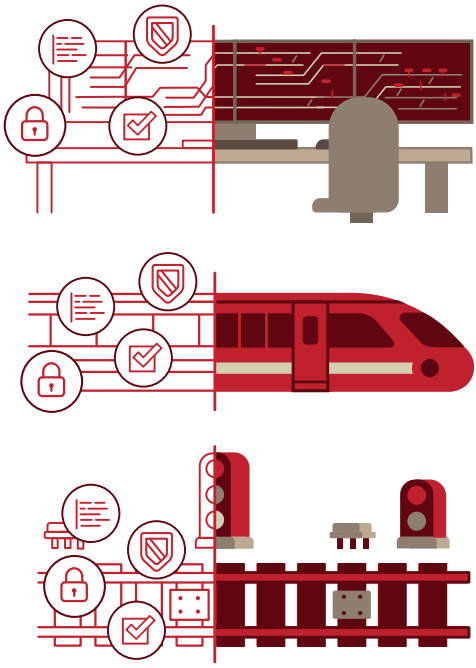
Technology you **can trust!**

critical software

Over 15 years of proven expertise supporting manufacturers, integrators, and operators in the development of rolling stock, advanced signalling systems, and innovative software solutions.

Technical domains

- Systems engineering
- Embedded software development
- Systems & software validation
- RAMS & certification support
- Cybersecurity
- Digitalization & AI



Systems engineering



- (Model-based) systems engineering
- Requirements and functional analysis
- Subsystems integration

RAMS & certification support



- Safety, RAM, and V&V assessments
- Interactions with ISA, NoBo, DeBo, and AsBo
- Support for certification and homologation

Embedded software development



- From basic integrity up to SIL 4
- FPGA and bare metal
- Real-time and virtualized applications

Systems & software validation



- Manual and automated testing
- Simulation models and digital twins
- Support for static and dynamic testing

Cybersecurity

- Secure development*
- Security assessments
- Security consulting

* *Security by design principle*

Digitalization and AI

- Micro-services-based architectures
- DevOps automation
- AI-driven optimisation

Functional knowledge

Vehicles:



Mainline



Mass transit



Locomotives

Domains:



Control centre



Trackside



Onboard

critical software

Some of our clients:

ALSTOM · ALPHA TRAINS · STADLER · Talgo · HITACHI Inspire the Next · DB · CAF · MEDWAY Transporte & Logística · SIEMENS · Infraestruturas de Portugal

Certifications & standards:

- ISO 9001
- ISO 27001
- IEC 62443
- CMMI Level5
- IEC 63452 workgroup

CENELEC EXPERIENCE

- EN 50126
- EN 50128
- EN 50129
- TS 50701
- EN 50159-1/2
- EN 50716

About us:

Foundation year
1998

Offices
7
(PT, UK, DE, US)

Customer satisfaction
9.1/ 10
average score (last 5 years)

Total revenues
€117M
(2024)

Employees
1400+
Critical Software

4500+
Critical Group

Get in touch!

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