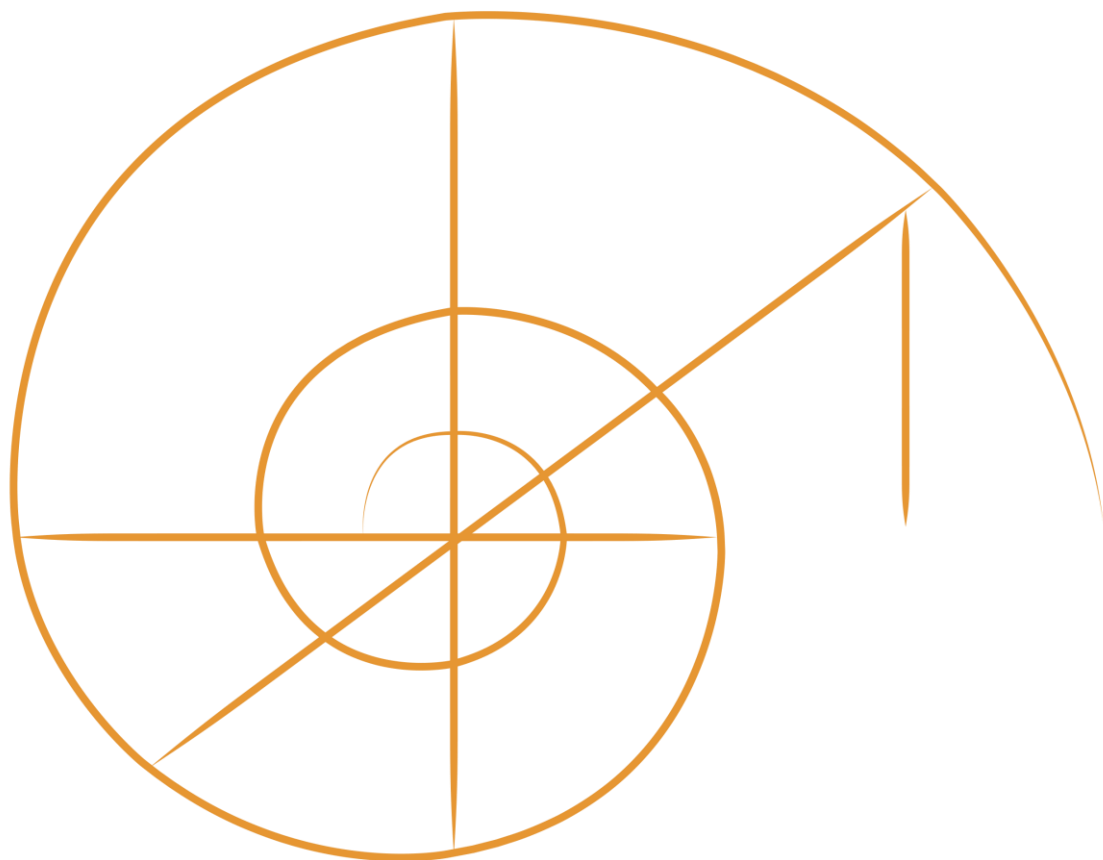




SAFETY SOLUTIONS DESIGNER



CLEARSY PRODUCTS AND SERVICES

clearsy
Safety Solutions Designer

CLEARSY OFFER
PRODUCTS AND SERVICES

CONTACT@CLEARSY.COM

COMPANY PROFILE

- French SME created in 2001
- Independent from any customer and owned by French the ICE Group, founders and employees
- About 160 employees (mainly engineers & PhDs)
- Located in France (Aix-en-Provence, Lyon, Paris, Strasbourg)
- ISO certified (9001:2015) for:
Design and implementation of safety critical control-command systems and software - Consulting
- UTO qualified for I&C design
- In-depth knowledge of signalling systems, CBTC, ERTMS/ETCS, interlocking, rolling stock, railway rules and standards
- In-depth knowledge of Energy standards and I&C safety systems
- Sectors: Railways, Energy/Nuclear, Defence, Micro-electronics
- Development of a portfolio of safety critical products for Railways
www.clearsy.com

CORE SKILLS

- Creation and maintenance of the software development toolkit: Atelier B, used by major signalling companies and technical universities worldwide, to produce mathematically proven safety critical software and systems
- Design of safety critical hardware and software SIL2 to SIL4 and classified I&C
- Provision of certified safety critical systems SIL2 to SIL4
- Use of formal methods to develop and verify such systems and software applications

EXPERTISE AND SERVICES

- Software and systems mathematically proven (B method)
- Safety critical data validation tools and services
- Safety cases using IEC 61508, 61513 and CENELEC 50126,128,129 standards
- Security of industrial systems
- Safety critical system and software architecture design and development
- Safety PLC program development
- Safety critical electronic hardware design and development
- Safety critical software and hardware commissioning
- Expertise to meet exceptional or unusual safety requirements
- Expertise in pattern recognition from sensors (laser, radar, video) and embedded algorithms
- Safe train track transmission by induction loop
- Test automation tools and solutions
- Provision of specialists in safety critical developments
- Provision of CBTC and ERTMS/ETCS specialists
- Ability to manage a complete project, from design to deployment and commissioning and level 1 maintenance management
- Management of production, multi-site manufacturing (subcontracting)

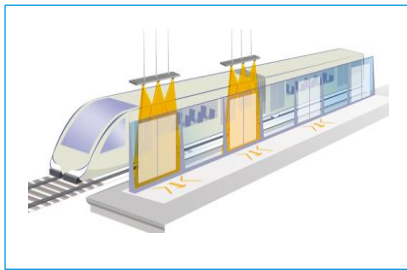
MAIN CUSTOMERS

The customers are mainly end users, operators, industrial companies, integration and installation companies.

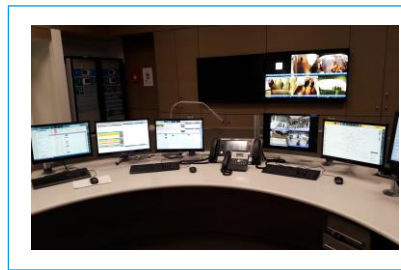


EXAMPLES OF SAFETY CRITICAL SYSTEMS AND PRODUCTS

The following products have been designed and produced by CLEARSY.
About 20 products are certified according to CENELEC standards.



> DETECTION
OF A PERSON
IN A GAP



> SAFETY
CENTRALIZED
SUPERVISOR
OF FIRE SAFETY
SYSTEMS



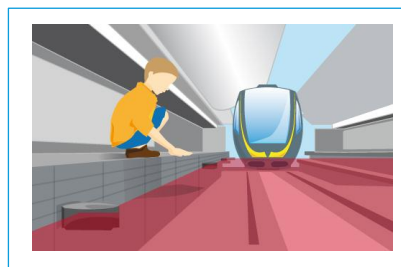
> PLATFORM
SCREEN
DOORS
CONTROL



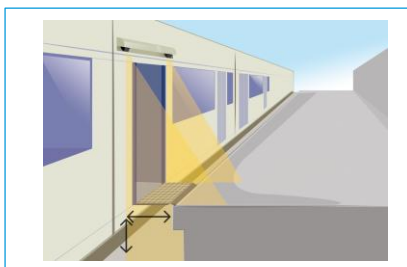
> SIL4 VITAL
RELAYS



> CONTROLLER
AND SAFETY I/O
NETWORK



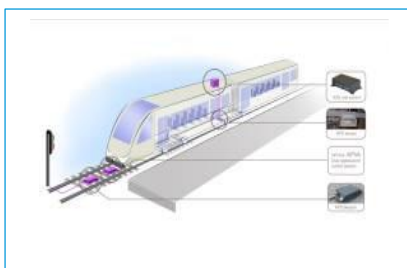
> TRACK SAFETY
MONITORING



> PLATFORM
DETECTION



> CLEARSY
SAFETY
PLATFORM
- SAFETY
CRITICAL
COMPUTER

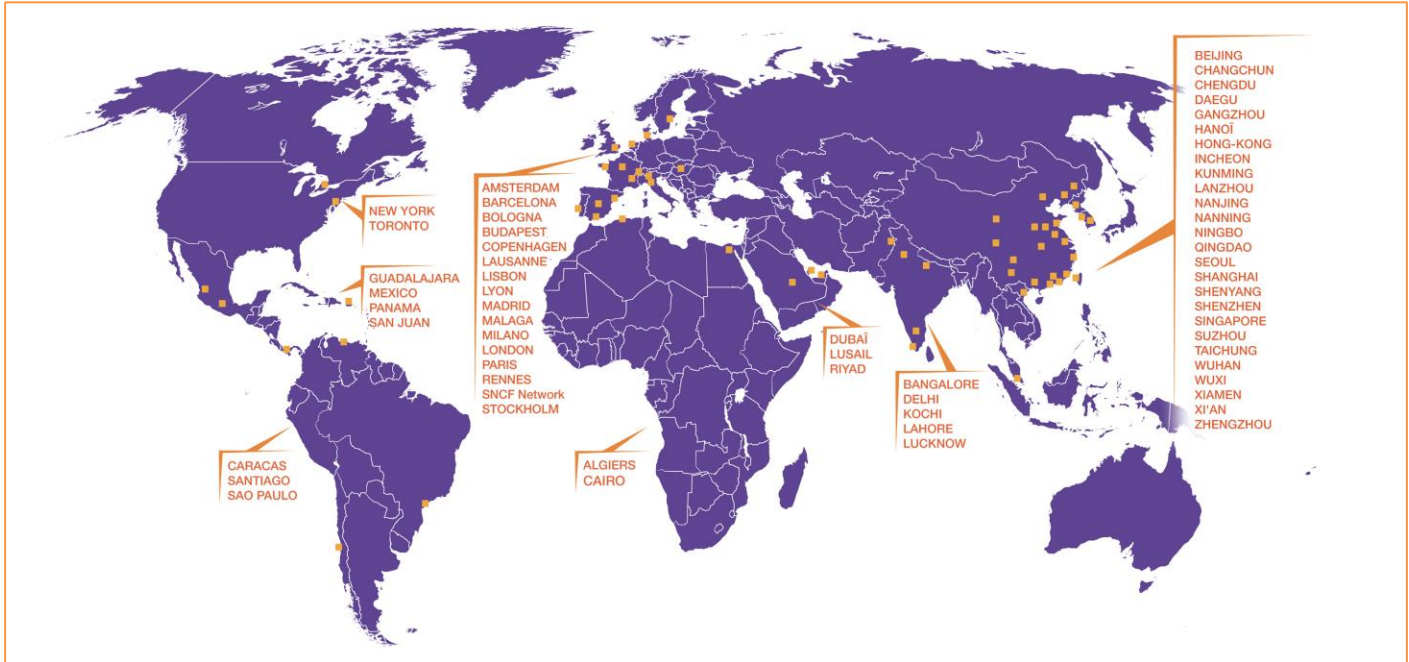


> AUTOMATIC
TRAIN STOP
- OVERSPEED
- SIGNAL



> HMI SAFETY
PLATFORM
- ETCS BASELINE 3
- FITTED FOR
INDUSTRIAL AND
NUCLEAR USE

THE B METHOD TOOLKIT DEVELOPED AND EDITED BY CLEARSY



ISO 9001:2015 CERTIFICATE

The scope of the certificate is:

« *Design and Implementation
of safety control-command and I&C
systems and software – Consulting* »





CLEARSY

Safety Solutions Designer

THE MORE AUTOMATED THE SYSTEMS ARE,
THE MORE RELIABLE AND SAFE THEY HAVE TO BE.

CLEARSY has been innovating for 20 years by designing and deploying safer systems, based on the software tools and secure computer we develop.



Energy/Nuclear
Transport
Defence



25%
Exportation



Software
Hardware
Safety

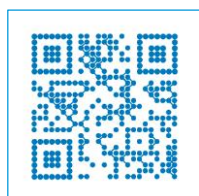


Turnkey industrial
Equipment
Supplier

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CLEARSY PRODUCTS AND SERVICES

OFFER
2024-2025