intecs
TECHNOLOGIES
the brainware company

YOUR ENGINEERING PARTNER FOR CRITICAL SYSTEMS

Safe. Scalable. Robust. Cyber-ready.

www.intecstechnologies.it

02

CROSS-DOMAIN ENGINEERING

A dedicated company for high-innovation markets and critical systems

INTECS Technologies brings together the Group's cross-domain engineering expertise to deliver advanced software and hardware technologies, engineering services and innovative solutions for safe, critical, reliable and scalable systems.

Established within the 2025-2028 Industrial Plan, the company operates in Aerospace, Defence, Traffic Control, Automotive, Smart Devices, Fintech and Telecommunications, working with industries, organisations, universities and research centres in Italy and Europe.

AEROSPACE | DEFENCE | TRAFFIC CONTROL

AUTOMOTIVE | SMART DEVICES | FINTECH

INNOVATION | EXCELLENCE | SUSTAINABILITY

The strength of INTECS Technologies lies in its people, know-how and ability to transform complex expertise into concrete, dependable solutions. Its approach combines specialist competence, continuous research and innovation, with a strong focus on quality, resilience and the protection of critical systems.

50+
YEARS OF HERITAGE

HW + SW
INTEGRATED OFFER

6
ITALIAN OFFICES

1974
Origins & Defence
Electronic systems and critical software for defence.

1984
Aerospace division
Aerospace know-how for mission-critical programmes.

2002
Automotive
Automotive Division for reliable vehicle systems.

2009
Fintech
Secure and scalable fintech platforms.

2025
INTECS Technologies
Advanced engineering for high-tech markets.

03

ONE PARTNER ACROSS THE FULL LIFECYCLE

Advanced engineering services for critical and complex systems

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SYSTEM ENGINEERING

Requirements, architecture, modelling, interfaces and integration.

SOFTWARE ENGINEERING

Embedded, real-time, cloud, serverless and full-stack applications.

HARDWARE & FPGA

Custom electronics, FPGA, rapid prototypes and test equipment.

FUNCTIONAL SAFETY & RAMS

Safety lifecycle, reliability, availability, maintainability and certification.

IV&V AND TESTING

Independent static and dynamic verification from unit to system level.

CYBERSECURITY

Security-by-design, vulnerability analysis, testing and monitoring.

PROCESS ENGINEERING

Standards, quality models, ASPICE, CMMI and process improvement.

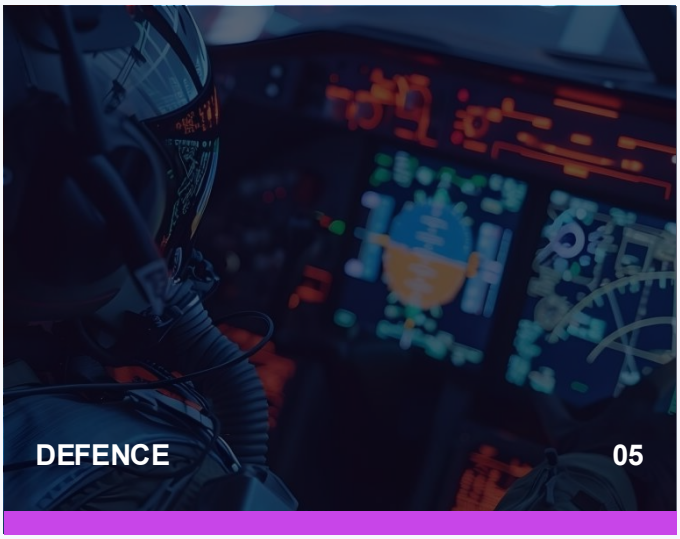
AI & GENAI

Ai based applications and GenAi for efficient and reliable product development.

04

HIGH-INNOVATION MARKETS

Cross-sector capabilities, tailored to domain standards and operational constraints



AEROSPACE

More than thirty years of advanced software and systems for space and avionics.

ON-BOARD AND GROUND SYSTEMS

Software and components for space applications, on-board platforms and ground segments supporting observation, navigation and mission operations.

GNSS AND NAVIGATION

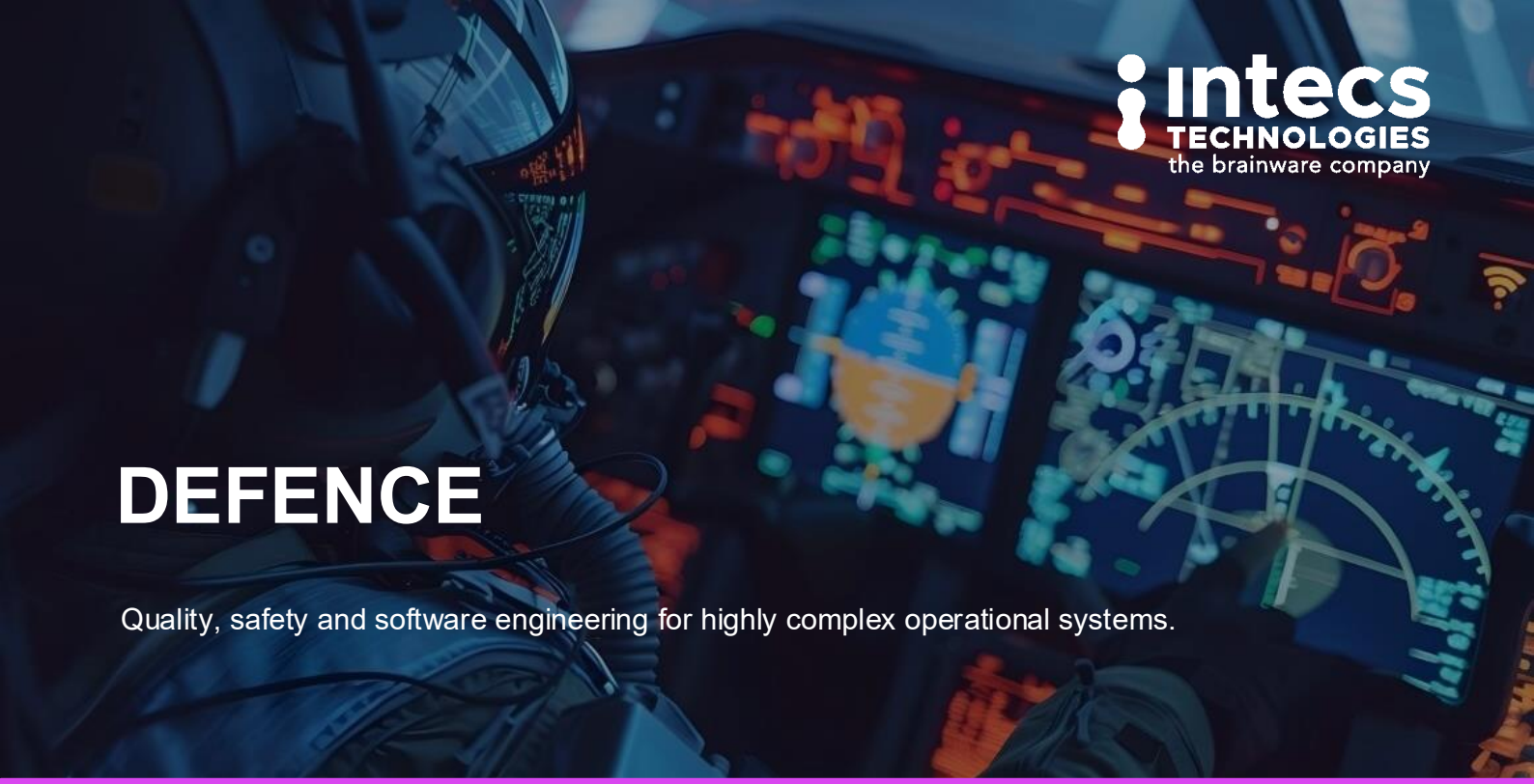
Software Defined Radio receivers, signal analysis, integrity monitoring, anti-interference methods and PNT technologies for demanding operational contexts.

AVIONICS ENGINEERING

Modelling and analysis of avionics systems, safety engineering, embedded real-time software, independent V&V and certification support.

MISSION-CRITICAL DISCIPLINE

Rigorous processes, standards compliance and evidence-based engineering for systems where reliability, robustness and timing constraints are essential.



DEFENCE

Quality, safety and software engineering for highly complex operational systems.

INTECS Technologies applies excellence in quality, safety and software engineering to complex defence systems, combining embedded technologies, real-time control, verification, process discipline and cybersecurity.

DEFENCE MISSION SYSTEMS

High-reliability software for Defence, avionics, C2 and mission systems, with real-time architectures supporting deterministic behaviour and critical functions.

EMBEDDED AND LOW-LEVEL PLATFORMS

Embedded software for heterogeneous computing and real-time Defence platforms, including RTOS, BSP, device drivers, HW/SW interfaces and low-level communication layers.

SYSTEM AND SAFETY ENGINEERING

Requirements management, architecture definition, RAMS, safety analysis and system integration across the complete lifecycle.

PROCESS DISCIPLINE AND CYBERSECURITY

Structured engineering processes aligned with military and mission-critical standards, combining verification, process discipline and cybersecurity.

TRAFFIC CONTROL

ATC, VTS and communication solutions for air and maritime traffic management.

AIR TRAFFIC CONTROL (ATC)

Software solutions for Air Traffic Management and control environments, supporting surveillance, flight data processing, controller working positions and operational coordination.

VESSEL TRAFFIC SERVICES (VTS)

Integrated solutions for maritime traffic monitoring, coordination and situational awareness, including vessel tracking, alerting and decision support.

SURVEILLANCE AND COMMUNICATION

Integration of radar, ADS-B, AIS and other surveillance sources, with communication and data-distribution services for real-time operational environments.

INTEROPERABLE COMMAND-AND-CONTROL AND SAFETY

Interoperable C2 architectures with standardised interfaces, legacy and third-party integration, operational continuity, scalability and safety-critical V&V.

SAFETY-CRITICAL SOFTWARE AND INTEGRATION

Development and integration of high-integrity software for safety-critical traffic-control applications, with rigorous verification and validation.
Engineering processes aligned with applicable aviation, maritime and safety standards.

AUTOMOTIVE

Software-defined vehicles, functional safety and cybersecurity by design.

SAFETY AND SECURITY STANDARDS

ISO 26262 and ISO 21434 introduce safety-by-design and security-by-design from the earliest product phases.

SOFTWARE VALIDATION

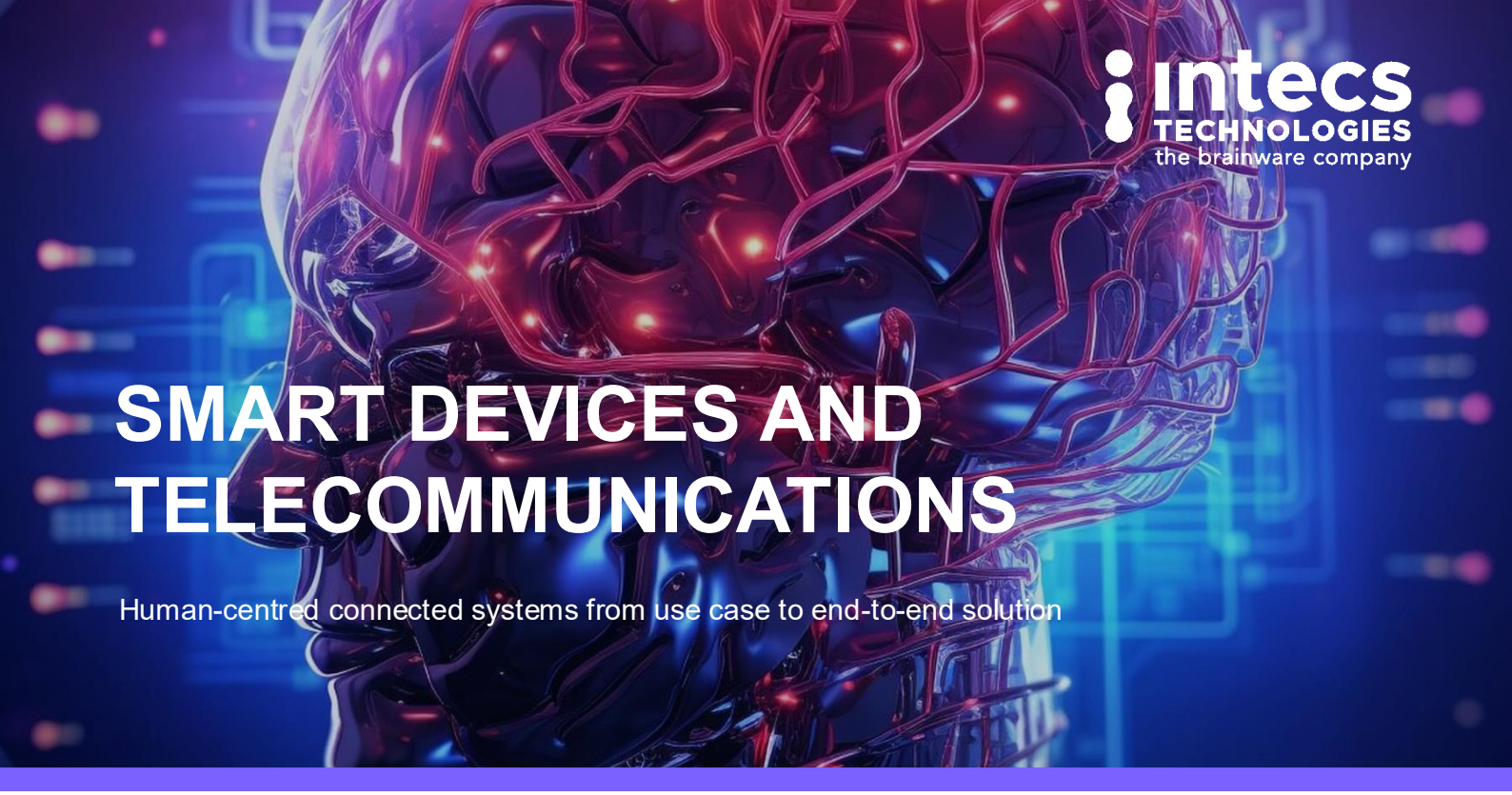
Unit, integration and functional tests using toolchains widely adopted by automotive players.

AUTOMATIC TEST EQUIPMENT

ATE platforms combining COTS components, custom hardware and dedicated software interfaces.

ECU SOFTWARE DEVELOPMENT AND PROCESSES

Strong skills in developing ECU software components both in Autosar Architecture and non-Autosar Architecture, Automotive SPICE expertise, training and process improvement.



SMART DEVICES AND TELECOMMUNICATIONS

Human-centred connected systems from use case to end-to-end solution

Smart systems apply technology to social, business, research, safety and security use cases. INTECS Technologies translates these needs into competitive end-to-end solutions for cities, vehicles, offices, civil and industrial environments.

CONNECTED DEVICES

Embedded software, sensors, gateways, edge processing and secure device integration.

INTEROPERABILITY

Standard interfaces and service-oriented architectures connecting heterogeneous systems.

IoT PLATFORMS

Data ingestion, cloud services, dashboards, remote monitoring, lifecycle management and microservices architecture.

COMMUNICATIONS

Positioning, protocols and resilient connectivity.

FINTECH

Open Banking and fintech products for secure digital financial services

INTECS Technologies brings critical-domain reliability, robustness and standards-oriented methods to Open Banking and fintech products, from PSD2/XS2A applications to validation tools and white-label payment solutions.

Building on this expertise, INTECS Technologies was the only Italian company admitted to the second Bank of Italy Regulatory Sandbox, conducting a 14-month trial from 2025 of an innovative Open Banking monitoring solution on live bank accounts.

SECURE PAYMENTS & OPEN FINANCE

Solutions for developing secure payment applications integrated with leading payment system providers.

XTP

XTP is INTECS Technologies' Open Banking solution—validated by the Bank of Italy—that prevents service disruptions by ensuring operational continuity for financial institutions. Through real-time monitoring and predictive analysis, the platform optimises performance and ensures compliance with PSD2 regulations.

FINTECH PRODUCTS

Anti-fraud - ML models for suspicious transactions.
AMEG - credit-risk portfolio network analysis.
BLOCKCHAIN - notarisation and smart contracts for digital value
V-IBAN - virtual IBANs for high-volume payment flows.
C-IBAN - real-time IBAN ownership check before payments.
XTP: Open Banking national system monitor.
XS2A Validator: Open Banking Application Validator.

XS2A VALIDATOR

Configurable ATE suite for functional, compliance, stress, robustness and regression tests, with automatic reports.

SYSTEMS DEVELOPMENT

Scalable software architectures for interoperable, cloud-native and full-stack digital systems.

SERVICE-ORIENTED ARCHITECTURE

Align business processes and IT evolution through connected services and reusable components.

SERVERLESS APPLICATIONS

Event-based, provider-managed execution models with pay-per-use scalability.

INTEROPERABILITY

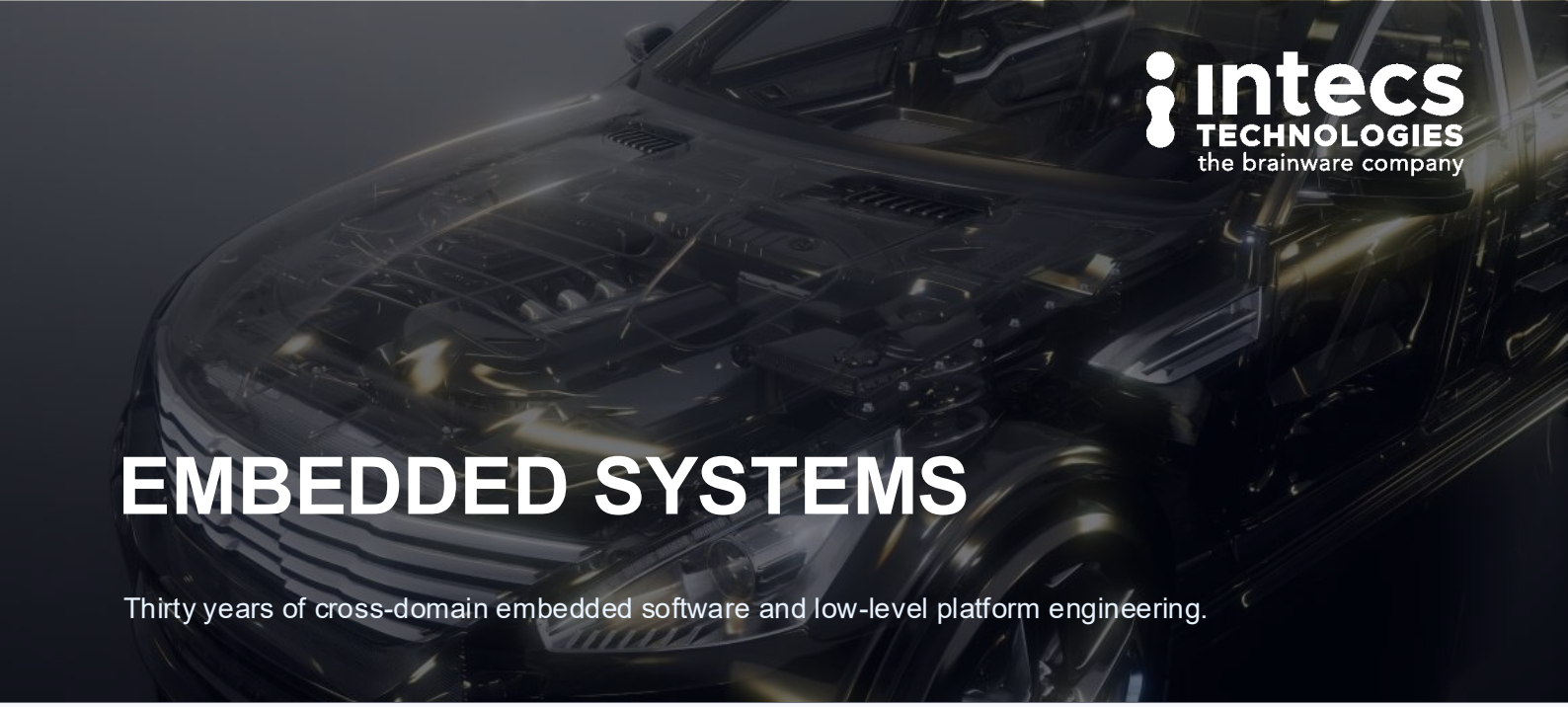
Standard interfaces, dynamic configuration and unified access across heterogeneous systems.

FULL-STACK DEVELOPMENT

Front end, business logic, databases and desktop or web-based applications.

CLOUD ARCHITECTURES

Scalable systems, migration assessment, security, portability and performance-aware design.



EMBEDDED SYSTEMS

Thirty years of cross-domain embedded software and low-level platform engineering.

FPGA PROGRAMMING

Custom acceleration algorithms, high-throughput interfaces, communication bridges, analogue signal acquisition and SoC platforms.

RTOS

Development, integration, customisation, porting and certification of real-time operating systems for embedded platforms.

BOOT SOFTWARE & BIST

Board startup, peripheral initialisation, interrupt and memory setup, test software and hardware debugging.

HARDWARE ABSTRACTION LAYER

Reusable software layers that decouple applications from hardware platforms.

PLATFORM LIBRARIES

Documented, maintainable and portable libraries encapsulating platform-specific functions.

OPERATING & CONTROL SOFTWARE

Flight, satellite, train and vehicle control software developed under applicable domain standards.

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FUNCTIONAL SAFETY, RAMS AND IV&V

Evidence-based engineering across the complete system lifecycle

INTECS Technologies is an experienced leader in functional safety for highly critical sectors. Its RAMS and IV&V methods help clients define, verify and demonstrate reliability, availability, maintainability, safety and compliance.

R

RELIABILITY

Continuity of service and dependable operation.

A

AVAILABILITY

Minimised downtime and optimised system use.

M

MAINTAINABILITY

Rapid recovery and efficient maintenance.

S

SAFETY

Risk reduction for people, assets and environment.

VERIFICATION

Performed at the end of each lifecycle phase to confirm that outputs conform to inputs and that requirements remain correctly maintained.

- Static analysis and reviews
- Unit, integration and system testing
- Traceability and evidence
- Independent teams where required

VALIDATION

Assesses whether the final system is suitable for its intended use and meets customer needs, safety objectives and applicable rules.

- Functional and acceptance tests
- Simulators and controlled environments
- Safety and usability checks
- Repeatable system-level campaigns

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TECHNOLOGY ACCELERATORS

Reusable knowledge and laboratories that shorten innovation cycles

CYBERSECURITY

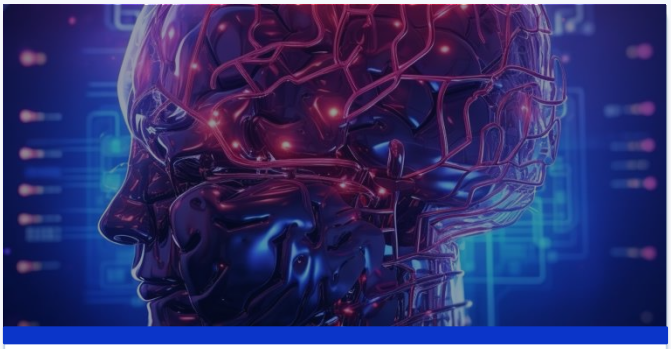
Vulnerability analysis, testing frameworks, attack monitoring and security-by-design for data and systems.

AI & BIG DATA

Machine learning, deep learning, predictive maintenance, anomaly detection and scalable analytics architectures.

SDR & GNSS

Software-defined radio, receiver architectures, signal analysis, localisation and anti-interference techniques.



BLOCKCHAIN & IoT

Distributed trust, smart contracts, connected devices, cloud integration and human-centred use cases.

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ENGINEERING YOU CAN TRUST.

Quality, safety, resilience and conscious risk management.

QUALITY AND CERTIFICATIONS

QUALITY SYSTEM CERTIFICATION
DNV
ISO 9001
AS/EN/JISQ 9100

INTECS Technologies inherits more than fifty years of quality culture in safety-critical sectors.

The certification scope covers integrated hardware and software systems for Defence, Aerospace, Air and Naval Traffic Control, Automotive and Telecommunications.

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