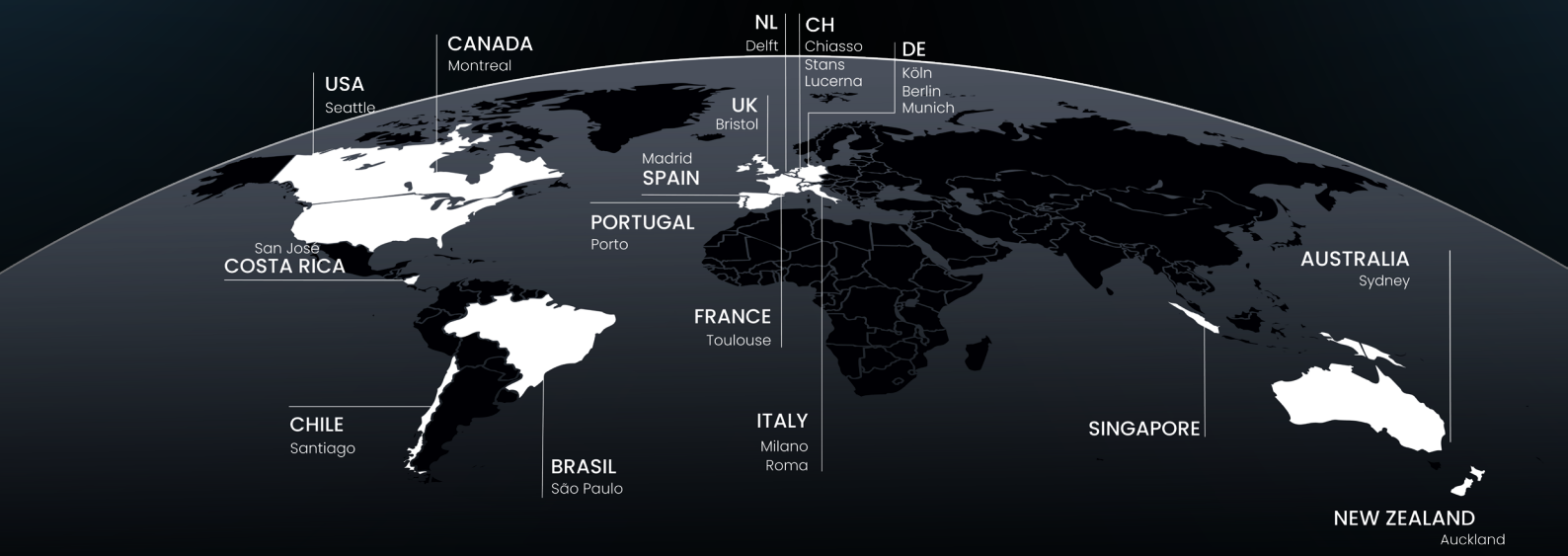
TXT

Aerospace & Defence



3000+ professionals worldwide

20+ Locations Worldwide

30+ Years Of Experience

Smart Solutions

Software Engineering

Digital Advisory

Making it Possible.

TXT Group overview

TXT is an international **software and engineering** company with over **35 years of experience in the Aerospace & Defence sector**. We specialize in the development of advanced training and simulation systems, as well as certified embedded software for on-board safety-critical applications. Leveraging deep domain expertise, we support the entire software lifecycle, from requirements definition to certification, ensuring reliability and compliance with the highest industry standards.

Aerospace & Defence
Training & Simulation solutions

TXT provides **highly specialized services** to support TDMs, OEMs and training organizations during the development of complex training systems. **We develop specific solutions** for each customer, starting from assets consolidated over 25 years of experience and already used and tested by other **big market players.**

Flight Simulator

- Flight Test support & Data Package creation
- Dynamics & Systems modeling
- Avionics, Displays & Cockpit simulation and integration
- Support Toolset
- Qualification support (up to FFS level D)

Ground, Mission and Cabin Crew

- Maintenance training
- Airport operations
- Hoist & rescue operations
- Rear crew mission training
- Radar/ECM/ESM crew training
- Cabin crew procedural training

XR Training

- Proprietary platform Pacelab WEAVR
- Training in a full digital environment

Ground Stations

- Mission planning & Debriefing
- HUMS: Aircraft systems and components status monitoring
- Map service: Development of digital maps for on-board and ground tools

Distributed Simulation

- Integration of multiple simulation systems, platforms, and domains using DIS/HLA protocols
- Integration of sensor simulation
- Real time synthetic scenario and mission simulation

Digital Twin

- High-fidelity virtual replicas of real-world systems
- Real-time synchronization with operational data
- Different levels of complexity, from standalone systems, to an entire operational scenario

Aerospace & Defence
Embedded Systems solutions

TXT provides **end-to-end support** to all development and integral processes for **avionic applications**, all the way to certification. Our expertise leverages a wide set of **V&V services** in order to ensure compliance with expected quality standards throughout the **system development phases.**

Embedded Software Engineering

- RTCA DO-178C Compliant Software
- Model based driven approach with automatic code generation

System Engineering

- Development of algorithms for the automatic control of air vehicles
- Integration of different systems and components

Test & Validation

- Collection and management of system requirements regulations
- Testing and validating software through rigorous processes to ensure security and reliability requirements

Certification Support

- DO-178C and DO-254 compliant avionics systems
- Cybersecurity in aeronautical domain

Test Evironment Development

- Re-host on COTS computers and full development cycle support through final target emulation
- Turnkey solutions for test system design and testing environment

UX | UI

- Creating wireframes and prototyping interfaces for cockpit systems
- Prototyping tools to develop interactive mockups

Aerospace & Defence
Smart solutions

Vaps

VAPS XT is a full-feature software for rapid development of interactive graphical **HMI displays for avionics, embedded applications & safety critical systems**. It provides qualifiable code generation for rapid development of DO-178C certifiable software.

Weavr for aviation

WEAVR is a uniquely holistic platform designed to completely manage **XR training environment**. It is easy to use, highly configurable and scalable to the enterprise level.

InstructIQ

InstructIQ provides data-driven pilot competency analytics using **Artificial Intelligence to make training more efficient and effective**. It analyzes flight simulator data in real time, showing insights into the performance of each flight maneuver.

Fpo Ace Desmo Missions

TXT

Italy
Cologno Monzese (MI), Milano
Via Milano 150

www.txtgroup.com

Never Better.