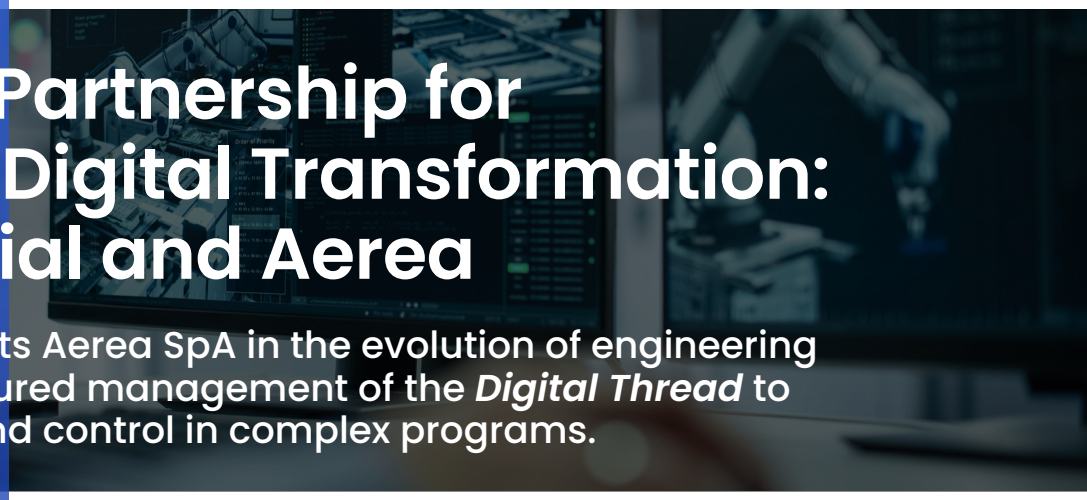
Excellence Partnership for Aerospace Digital Transformation: TXT Industrial and Aerea



TXT Industrial supports Aerea SpA in the evolution of engineering processes and structured management of the ***Digital Thread*** to ensure traceability and control in complex programs.

Informazioni Progetto

Customer Name:

Aerea S.p.A.

Location:

Turate (CO), Italia

Sector:

Aerospace & Defense

Solutions:

SmartGate, SmartThread

Strategic Objective:

Creating an integrated digital thread in Industry 5.0 optics

Output:

Integration of PLM, ERP, and Supply Chain flows

AEREA

Founded in 1927, Aerea SpA has nearly a century of experience in the design and production of aerospace components, role-playing equipment, and logistics support systems for fixed- and rotary-wing aircraft. Active in major international defense programs, the company operates according to the most rigorous industry standards, positioning itself as an excellence in the national and international Aerospace & Defense landscape. In a market characterized by extensive supply chains and stringent regulatory requirements, Aerea has chosen to consolidate its product lifecycle governance through advanced data management.

The Technological Solution

Aerea adopted SmartGate, a SmartApp within TXT Industrial's SmartConnext ecosystem, built on three technological pillars to bridge engineering and operations.

Digital Thread Management:
integrates and ensures consistency of information flows between internal departments and external entities (suppliers, partners, customers).

Digital Symmetry:
through SmartImport and SmartExport modules, ensures cross-platform synchronization and interoperability, keeping data structured, secure, and aligned across heterogeneous systems, specifically between PLM and ERP.

Configurability:
flexible and fully traceable approach to transforming raw data into consistent, actionable information throughout the entire product lifecycle.

TXT INDUSTRIAL

Year of completion 2026
industrial@txtgroup.com

AEREA

Turate (CO), Italy
Aviation and aerospace industry

"The collaboration with Aerea fully represents TXT Industrial's vision: to accompany industrial companies on sustainable, measurable, and long-term transformation paths. We provide vertical expertise to support customers in managing complexity and creating value throughout the product lifecycle".

Mirco Mariani,
Managing Director TXT Industrial

1927

Year of foundation of Aerea SpA

Smart Thread

Comprehensive integration of information flows between PLM, ERP and supply chain

Smart Gate

Solution adopted for digital symmetry of data

Key Achievements

The implementation of an integrated digital ecosystem allows Aerea to obtain a "single version of the truth" of the data, bringing concrete benefits:

Operational efficiency:

Reduction of errors and redundancies thanks to the synchronization of information between different business functions.

Quality and Compliance:

Ensuring complete traceability and data quality, critical factors for success in long-term aerospace programs.

Competitiveness:

Acceleration of decision-making processes and time-to-market, strengthening the Italian aeronautical industry's position on the global stage.

"We do design, manufacturing and maintenance, so we cover the entire product lifecycle. This is where the need to adopt a Plm system came from. We collaborated with TXT and Aras to understand the needs and potential of the Plm. Initiatives that allowed us to explore all possible aspects of as is optimization. Connecting the various departments, connecting people and above all connecting data. In the implementation path, needs emerged that had not been foreseen initially, thus leading to the adoption of additional tools for task management and process monitoring"

Andrea Guastella
Program/Contract Manager MRO

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