



# Orchestrating Innovation, Integrating Excellence

From Product Engineering to Process Intelligence:  
a unified framework for the Enterprise of the Future

2026, February

A conceptual image showing a green tree growing out of a transparent cube, which is placed on a dark blue circuit board. The background is a blurred grid of similar cubes and circuit patterns, creating a sense of depth and technology.

# VISION

**Empowering Digital Intelligence,  
Engineering the Future**

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To be a strategic partner in enabling innovation and delivering sustainable value through the seamless integration of engineering expertise and cutting-edge digital technologies

# MISSION

**Orchestrating Innovation,  
Integrating Excellence**

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To deliver tailored digital ecosystems that streamline design and manufacturing, transforming technological complexity into a tangible competitive advantage for our clients





**Engineering**

→ THE HEART



**ICT & HPC**

→ THE SKELETON



**Software  
Development & AI**

→ THE BRAIN



**Digital  
Manufacturing**

→ THE MUSCLES

**PMO  
Services & Consulting**

**ONE UNIFIED FRAMEWORK**



## Engineering

40 years of excellence  
in numerical simulation



## SW Dev. & AI

Custom development and AI  
to transform data into strategic decisions



## Digital Manufacturing

Optimization of production processes,  
Smart factories and Integrated  
systems



## ICT & HPC

Cloud, HPC, and security to support  
large-scale workloads

# 4 INTEGRATED BUSINESS LINES

# PMO Services & Consulting

## Ensuring Success



We bring a new governance model to guarantee the success of digital transformation.

Through our PMO Services, we create a coherent and winning ecosystem: we provide strategic, centralized project management, value-added consulting, and continuous performance monitoring, acting as the glue between different business lines and the client's business objectives.





# Why partner exclusively with EnginSoft?

## **ENGINEERING EXPERTISE**

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We master product physics  
and understand  
engineering challenges

## **DIGITAL HORIZONTALS**

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We know how to scale solutions on  
HPC infrastructures and  
cutting-edge AI platforms

## **DATA CONTINUITY**

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We manage the entire value lifecycle,  
removing barriers between design,  
infrastructure, and production

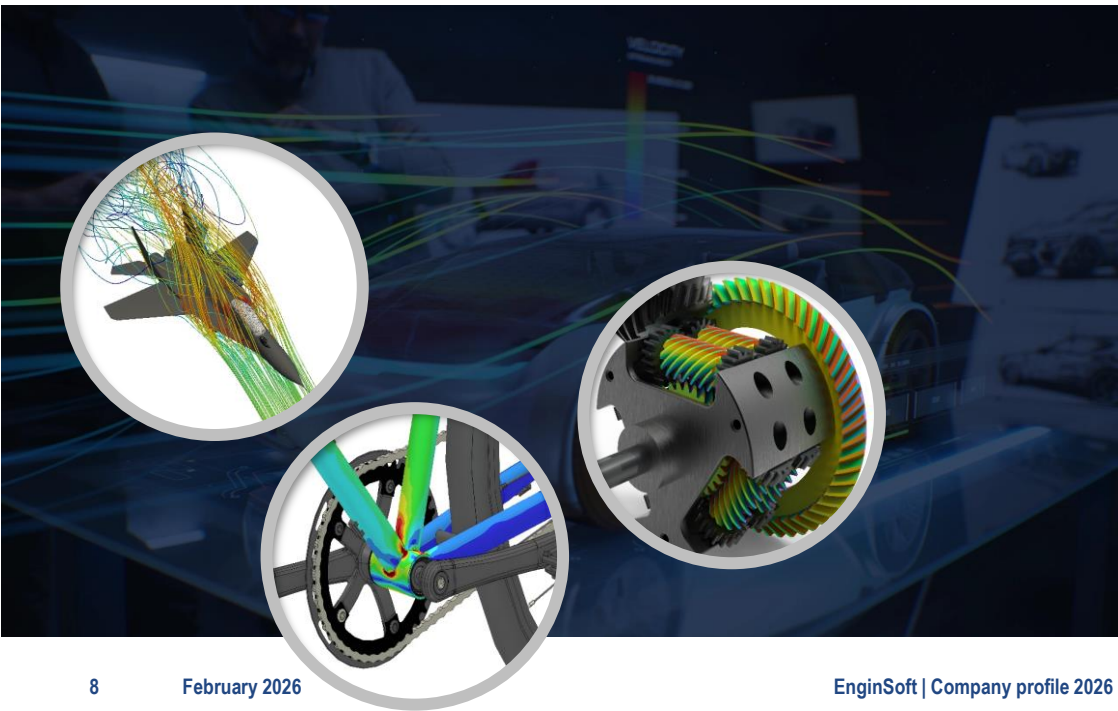
# OUR HISTORY

## Over 40 years of experience



# Engineering

## Solutions for Innovation and Digital Transformation



We help companies identify where, when, and how digital technologies and simulation can create real impact.

We tackle innovation challenges with the right combination of tools and expertise: through an interdisciplinary approach and highly skilled personnel, we have become over the years the ideal partner to support companies in enhancing their design processes and driving digital transformation.



# Engineering

## → Added Value



### → ASSESSMENT

Comprehensive analysis of the industrial landscape, in-depth insight into its growth potential, and precise evaluation of investment returns

### → CUSTOMIZATION AND INTEGRATION

Partnerships with leading technology providers, Integration of diverse solutions, development of environments and applications

### → VERTICAL EXPERTISE

A multidisciplinary team able to tailor systems and processes to company size, sector, and specific needs

Focused consulting and interventions to solve design and operational issues, emphasizing efficiency and sustainability

# Engineering

## → Skills



### **FLUID DYNAMICS SIMULATION**

1D and 3D fluid dynamics analyses, Mesh-free fluid dynamics, Turbulence and heat transfer, Moving and rotating meshes, Reactive flows and multiphase flows

### **STRUCTURAL, MECHANICAL & ELECTROMAGNETIC SIMULATION**

Acoustics & vibroacoustics, Dynamic characterization and damping studies, Turbomachinery performance analysis, Oil & Gas pipeline and conduit analysis, Pressure vessel and containment analysis, Offshore structural analysis, Amusement ride structures (e.g., roller coasters), Fire and safety analysis, Industrial safety assessment, Biomechanical analysis, Packaging design optimization, including sustainable packaging, Custom solutions and industry-specific verticalizations, Digital Twin development and emerging technology applications

### **TOLERANCE MANAGEMENT**

Geometric product specification, Tolerance analysis, Model-Based Definition (MBD), ISO-GPS and ASME GD&T standards, Technologies for tolerance management

### **FOUNDRY PROCESS SIMULATION**

Co-design, Material characterization, Process optimization, Reverse analysis, Software solutions to improve metal processing quality, optimize process conditions and reduce production costs

### **VERIFICATION OF REGULATORY COMPLIANCE**

### **SUSTAINABILITY & ENVIRONMENTAL IMPACT**

Evaluating and selecting materials, Optimizing performance, Reducing emissions and resource consumption, Enhancing product lifecycle efficiency, Implementing predictive maintenance

# SW Dev. & AI

## Turning data into a strategic advantage



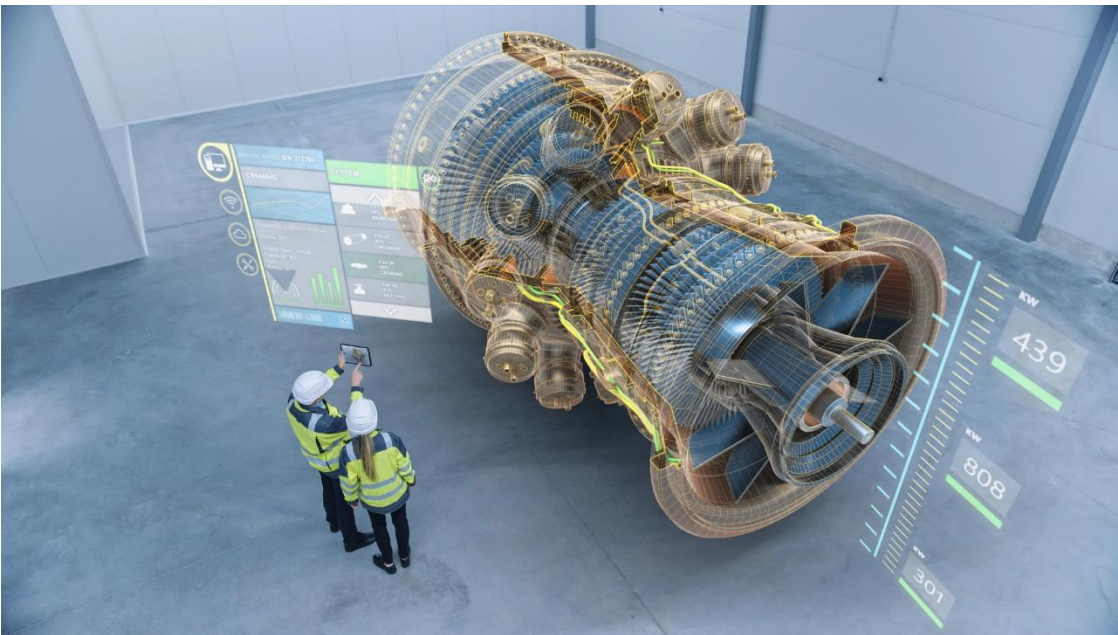
We transform raw data into knowledge: our advanced data analytics solutions enable companies to fully harness the potential of their data, make informed decisions, and optimize operations.

From data preparation to sophisticated modeling and real-time visualization, our solutions deliver seamless integration and unmatched performance.



# SW Dev. & AI

## → Added Value



### → DIGITAL TWIN

Designing digital twins for real-time monitoring, predictive maintenance, and optimization of industrial assets and processes

### → ARTIFICIAL INTELLIGENCE & DATA ANALYTICS FOR PREDICTIVE MODELING

Leveraging AI and advanced data analytics to create predictive models that improve decision-making and operational performance

### → CUSTOM SOFTWARE DEVELOPMENT

Delivering tailored software solutions to simplify business processes, boost productivity, and drive digital transformation

# SW Dev. & AI

## → Skills



### **DESIGN AND SIMULATION**

Machine learning algorithms for optimizing structural and mechanical designs

### **PREDICTIVE MAINTENANCE**

Advanced data analytics to predict failures and real-time performance monitoring using sensors, AI, and connected technologies

### **GENERATIVE DESIGN**

AI algorithms for generating innovative design solutions that comply with engineering specifications

### **DATA ANALYTICS**

AI and machine learning tools to analyze large volumes of engineering data, uncover hidden trends, and extract actionable insights

### **PROCESS OPTIMIZATION**

Automation of production processes using AI to increase efficiency

### **SAFETY AND RISK**

Predictive risk and safety analysis on construction sites using AI to monitor working conditions and prevent accidents

### **SUSTAINABILITY**

Use of AI to design more sustainable systems and products, reducing environmental impact

### **INTELLIGENT CONTROL SYSTEMS**

# Digital Manufacturing

## Solutions and Technologies for a Smart Factory



We support our clients in the critical process of digitizing their data and industrial processes.

We provide tailored tools and solutions for the efficient management of production flows, enabling real-time visibility of operations, and rapid response to unexpected events or deviations from plans.



# Digital Manufacturing

## → Added Value



### → EFFICIENCY & PRODUCTIVITY

Advanced Planning & Scheduling (APS) systems to optimize production planning and maximize plant and resource efficiency

### → COST REDUCTION

Manufacturing Execution System (MES) solutions to manage and optimize production in real time, reducing operational costs

### → QUALITY & CONTINUOUS IMPROVEMENT

Quality Management System (QMS) solutions for digital quality management and monitoring

### → DATA-DRIVEN DECISION MAKING

Data Lake platforms combined with DataOps methodologies to store, manage, and make large volumes of data actionable

### → FLEXIBILITY, CUSTOMIZATION & INTEGRATION

Tailored, fully integrated solutions where data and control are seamlessly embedded throughout every process stage

# Digital Manufacturing

## → Skills



### **SUPPLY CHAIN MANAGEMENT**

Methodologies and software tools for modeling and scheduling (APS), supported by advanced algorithms – including machine learning and other forms of AI

### **DIGITAL MANUFACTURING SOLUTIONS**

MES (Manufacturing Execution Systems) to manage and optimize production, and QMS (Quality Management Systems) for digital quality management

### **DATA LAKE AND DATAOPS SOLUTIONS**

Data Lake solutions (systems for storing large volumes of data in their native format) and implementation of DataOps methodologies

### **PRODUCTION FLOW SIMULATION**

### **APPLIED DATA SCIENCE FOR OPERATIONS**

### **DIGITAL VALUE CHAIN**

### **FACILITY LAYOUT**

### **DIGITALIZATION OF PLANT PRODUCTION FLOWS**

### **DATA INTELLIGENCE & OPTIMIZATION**

### **DATA INTELLIGENCE FOR PREDICTIVE FLEET MAINTENANCE**

### **MACHINE LEARNING MODELS FOR PREDICTIVE INLINE QUALITY**

### **ENERGY CONSUMPTION REDUCTION**

# ICT & HPC

## Design and implementation of IT, Cloud and HPC infrastructures



We simplify technological complexity and make it functional by building integrated, efficient, secure, and results-driven ecosystems.

We provide scalable platforms optimized for scientific simulations, AI, and advanced analytics, ensuring high reliability and reduced processing times.

We support clients in adopting hardware and software architectures to improve efficiency and reduce implementation costs.



# ICT & HPC

## → Added Value



### → CUSTOMIZED SOLUTIONS

Tailored ICT solutions to optimize operational efficiency and digital security

### → HPC ARCHITECTURES

HPC consulting for advanced computing and analytics: from scientific modeling to big data analysis, offering scalable and optimized solutions

### → SCALABILITY AND RESILIENCE

Scalable infrastructures for data centers and cloud computing, ensuring continuity and high performance

### → INNOVATION AND SECURITY

Support for digital transformation with innovative ICT strategies and specialized technical assistance

# ICT & HPC

## → Skills



### **HPC INFRASTRUCTURES AND SERVICES**

Design and provisioning of scalable HPC environments

### **CLOUD/HYBRID INFRASTRUCTURES**

Design and implementation of cloud and hybrid architectures, cost management and optimization, integration with on-premise environments

### **ON-PREMISE INFRASTRUCTURES**

Design, implementation, proactive monitoring and maintenance

### **PARALLEL COMPUTING AND OPTIMIZATION**

Parallel architectures (multi-core CPUs, GPUs, clusters), optimization of scientific and industrial codes

### **BIG DATA & AI ON HPC**

Integration of AI frameworks on HPC infrastructures, large-scale data analytics

### **CYBERSECURITY**

Implementation of security and compliance policies, vulnerability management, and penetration testing

# THE NUMBERS

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+40

**EXPERIENCE**  
Over 40 years of  
pioneering history

+20

**STABILITY**  
Revenue target  
of over €20 million

+150

**TALENT**  
An international team  
of over 150 multidisciplinary experts

+100

**INNOVATION**  
Over 100 research projects  
aimed at anticipating  
future technologies

12

**PRESENCE**  
12 offices to ensure global  
proximity to our clients

# INTERNATIONAL PRESENCE

**12**  
OFFICES

**+150**  
EXPERTS

USA

United Kingdom

France

Italy

Germany

Türkiye

**EnginSoft Headquarters**

Trento, ITALY

Bergamo

Firenze

Mesagne (BR)

Modena

Padova

Torino

**EnginSoft Germany**

Frechen-Königsdorf

**EnginSoft France**

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# Orchestrating Innovation, Integrating Excellence

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Engineering | SW Dev. & AI | Digital Manufacturing | ICT & HPC

ENGINEERING  
EXPERTISE

We master product physics and  
understand engineering challenges

DIGITAL  
HORIZONTALS

We know how to scale solutions on  
HPC infrastructures and cutting-edge AI platforms

DATA  
CONTINUITY

We manage the entire value lifecycle, removing  
barriers between design, infrastructure, and production

**+40**  
EXPERIENCE  
Over 40 years of history

**+20**  
STABILITY  
Million revenue target

**+150**  
TALENT  
International and multidisciplinary team

**12**  
PRESENCE  
Offices in Italy and abroad

**+100**  
INNOVATION  
Research projects

# The challenges facing the Aerospace Industry

The real challenge is to integrate all of the technologies in a design and optimization process

→ [www.enginsoft.com/industries/aerospace.html](http://www.enginsoft.com/industries/aerospace.html)

## Revolutionizing aerodynamic design with a VR-enabled workflow [Futurities Year 22 n°1]

→ [www.enginsoft.com/expertise/revolutionizing-aerodynamic-design-with-a-vr-enabled-workflow.html](http://www.enginsoft.com/expertise/revolutionizing-aerodynamic-design-with-a-vr-enabled-workflow.html)



**AERONAUTICS & SPACE** | References



## Facing new technological challenges

→ [www.enginsoft.com/industries/automotive.html](http://www.enginsoft.com/industries/automotive.html)

## Fuel tank sloshing: digital modelling with meshless CFD

[Futurities Year 21 n°4]

→ [www.enginsoft.com/expertise/fuel-tank-sloshing-digital-modelling-with-meshless-cfd.html](http://www.enginsoft.com/expertise/fuel-tank-sloshing-digital-modelling-with-meshless-cfd.html)

## A perspective on simulation in the automotive industry

Face to face with Paul Stewart, design process leader and consultant

[Futurities Year 20 n°2]

→ [www.enginsoft.com/expertise/a-perspective-on-simulation-in-the-automotive-industry.html](http://www.enginsoft.com/expertise/a-perspective-on-simulation-in-the-automotive-industry.html)



**AUTOMOTIVE, RAIL & TRANSPORT** | References



## Oil & Gas Industry

Complete Solutions for Design and Analysis of Oil & Gas Industry, Subsystems and Parts

→ [www.enginsoft.com/industries/oil-gas.html](http://www.enginsoft.com/industries/oil-gas.html)

### A world on water

Tackling the engineering challenges of offshore oil and gas production

[Futurities Year 21 n°1]

→ [www.enginsoft.com/expertise/tackling-the-engineering-challenges-of-offshore-oil-and-gas-production.html](http://www.enginsoft.com/expertise/tackling-the-engineering-challenges-of-offshore-oil-and-gas-production.html)

OIL&GAS | References





## The energy scenarios

The development and extensive use of technology that makes the goals possible

- [www.enginsoft.com/industries/energy.html](http://www.enginsoft.com/industries/energy.html)
- [www.enginsoft.com/industries/environmental.html](http://www.enginsoft.com/industries/environmental.html)

## DEM-FEM coupling for simulating the manufacturing process of all-solid-state batteries

[Futurities Year 21 n°3]

- [www.enginsoft.com/expertise/dem-fem-coupling-for-simulating-the-manufacturing-process-of-all-solid-state-batteries.html](http://www.enginsoft.com/expertise/dem-fem-coupling-for-simulating-the-manufacturing-process-of-all-solid-state-batteries.html)

**ENERGY & ENVIRONMENTAL** | References



# The Construction Industry

Consultancy in a wide range of civil engineering applications: EnginSoft is your ideal partner for specific project and for the development of integrated tailor made design solutions

→ [www.enginsoft.com/industries/civil-engineering.html](http://www.enginsoft.com/industries/civil-engineering.html)

## Structural Engineering

Beyond the Otherness between Art and Technique

**[Futurities Year 21 n°2]**

→ [www.enginsoft.com/expertise/structural-engineering.html](http://www.enginsoft.com/expertise/structural-engineering.html)

**CIVIL ENGINEERING** | References



## The Structural Design of Roller Coasters

An integrated CAD-CAE procedure

→ [www.enginsoft.com/expertise/structural-roller-coasters.html](http://www.enginsoft.com/expertise/structural-roller-coasters.html)

### The roller coaster

A design challenge combining excitement and rigour

[Futurities Year 20 n°4]

→ [www.enginsoft.com/expertise/the-roller-coaster.html](http://www.enginsoft.com/expertise/the-roller-coaster.html)

AMUSEMENT | References



## The growing importance of numerical simulation in the nautical sector

Face to face with Ignazio Maria Viola and Ubaldo Cella

[Futurities Year 20 n°3]

→ [www.enginsoft.com/expertise/the-growing-importance-of-numerical-simulation-in-the-nautical-sector.html](http://www.enginsoft.com/expertise/the-growing-importance-of-numerical-simulation-in-the-nautical-sector.html)

## MICAD, engineering aimed at the sea's jewels

CAE technologies in the Marine Industry

[Futurities Year 13 n°1]

→ [www.enginsoft.com/expertise/micad,-engineering-aimed-at-the-sea%E2%80%99s-jewels.html](http://www.enginsoft.com/expertise/micad,-engineering-aimed-at-the-sea%E2%80%99s-jewels.html)

**MARINE** | References





# The role of mechanical variation management in medical devices

A case study of drug delivery devices developed by Flex

[Futurities Year 22 n°2]

→ [www.enginsoft.com/expertise/the-role-of-mechanical-variation-management-in-medical-devices-a-case-study-of-drug-delivery-devices.html](http://www.enginsoft.com/expertise/the-role-of-mechanical-variation-management-in-medical-devices-a-case-study-of-drug-delivery-devices.html)

## LIFESAVER

Living Impact on Fetal Evolution: Shelter - Analyze - Validate - Empower Regulations

Progetto di ricerca Novembre 2021 – Ottobre 2025

→ [www.enginsoft.com/research/lifesaver.html](http://www.enginsoft.com/research/lifesaver.html)

## YOGA

Miniaturized cartilage tissue culture wells for point-of-care diagnosis and personalized treatment of osteoarthritis and Your Arthritis Goes Away

Progetto di ricerca Dicembre 2023 – Giugno 2025

→ [www.enginsoft.com/research/yoga.html](http://www.enginsoft.com/research/yoga.html)

HEALTH CARE & MEDICINE | References

