



SHIFT2RAIL Info Day

ENGINSOFT S.p.A (SME)

Italy, France, Germany, the UK, Sweden, Turkey, U.S.A.

Carla Baldasso

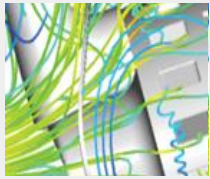
Research & Development

c.baldasso@enginsoft.com

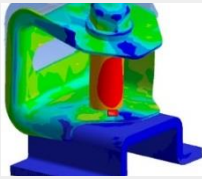
www.enginsoft.com

EnginSoft S.p.A. in brief

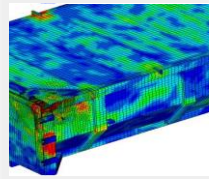
- EnginSoft is an SME leader for **simulation-based engineering and sciences (SBES), Simulation Process and Data Management**
- Funded in 1984
- 35 Years Experience using CAE software
- Turnover approx. 35 Million Euro
- Seats in Italy, France, UK, Sweden, Germany, Turkey, USA



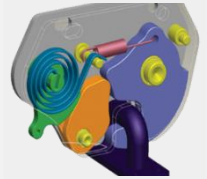
FLUID DYNAMICS



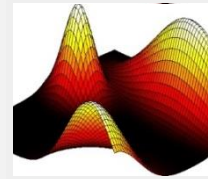
MECHANICS



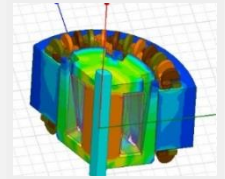
CRASH AND FAST DYNAMICS



TOLERANCE ANALYSIS



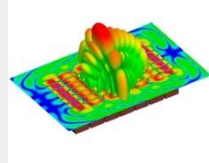
OPTIMIZATION



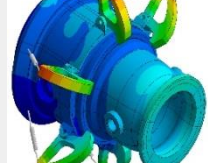
ENVIRONMENTAL AND VIBROACOUSTICS



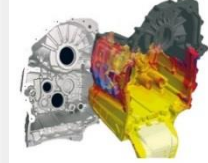
MULTIBODY



ELECTRO-MAGNETISM



FATIGUE AND DURABILITY



PROCESS SIMULATION



HIGH-PERFORMANCE COMPUTING

Our activities

CONSULTING



4.000

SOFTWARE



1.500+

TRAINING

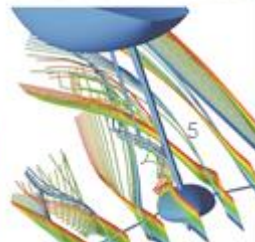
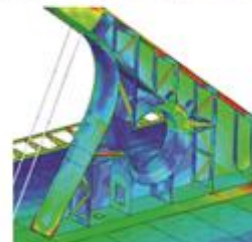
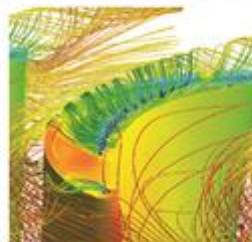


130+

RESEARCH



70+



Our research facts and numbers

- From 2003 involved in 90+ co-funded research projects
- Invest 10%+ of turnover in R&D
- Laboratory certified by the Italian ministry of R&D (MIUR)
- 150+ engineers and mathematicians supporting research in many fields: **smart manufacturing, aerospace, automotive, new materials, biomedical, energy**
- Multidisciplinarity and Cross fertilization from one sector to another
- Member of **DITECFER**

Our expertise for SHIFT2RAIL Calls

IP	Call	EnginSoft expertise
IP1: Cost-efficient and reliable trains	S2R-OC -IP1-01-2020 Support to Development of next generation of Traction systems	Work-stream 1: 3D additive manufacturing and new manufacturing technologies - 3D printing process simulation and new materials implementation Work-stream 4: Big Data, Artificial Intelligence (AI) applied to Traction systems smart and predictive maintenance – data mining
	S2R-OC-IP1-03-2020 Innovative technologies for Carbodies and Running Gear of the future	Materials modelling and performance behaviour simulation
IP3: Cost-Efficient and Reliable High-Capacity Infrastructure	S2R-OC-IP3-01-2020: Next Generation Track Transition Zones	Novel materials modelling Optimised design for reliability Manufacturing techniques
	S2R-OC-IP3-02-2020: Technology Development for Railway Systems Asset Management	Data analytics tools to implement a Decision Support System (DSS) Multi-objective decisions' optimization tools for IAMS integrating data-driven models into the DSS
	S2R-OC-IP3-03-2020: Advanced tools and equipment: collaborative robots & wearable mobile machines	Wearable mobile machines behavior simulation and optimization
S2R-OC-CCA-01-2020: Noise and Vibration Call	S2R-OC-CCA-01-2020: Noise & Vibration Call	Frequency-based noise and vibration simulation and prediction

Carla Baldasso
c.baldasso@enginsoft.com
www.enginsoft.com

Thank you!

 **ENGINSOFT**
www.enginsoft.com

