



Factories of the Future for the Automotive Sector

28 February 2018

Brussels, FEBIAC, Woluwedal 46

Organised by EFFRA & ERTRAC/EGVIA

This workshop will focus on the results of projects that address manufacturing in the automotive sector and will provide opportunities for networking between project presenters and participants.

Agenda

9:00 Registration

9:30 – 10:15 Opening Session

- Zeljko Pazin (EFFRA)
- Stefan Neugebauer (BMW), Chairman of ERTRAC and EGVIA
- Jürgen Tiedje (DG RTD), Head of Unit D2 Advanced Manufacturing Systems and Biotechnologies
- Jean-François Aguinaga (DG RTD), Head of Unit H2 Surface Transport

10:15 – 12:30 Projects/Results Session-Part 1: Advanced Materials Processing

- Introduction to the Factories of the Future (FoF) PPP and manufacturing for the automotive sector: Chris Decubber, EFFRA

FlexHyJoin	Flexible production cell for hybrid joining.
COMMUNION	Net-shape joining technology to manufacture 3D multi-materials components based on metal alloys and thermoplastic composites.
KRAKEN	Hybrid automated machine integrating concurrent manufacturing processes, increasing the production volume of functional on-demand using high multi-material deposition rates.
DREAM	Driving up reliability and efficiency of additive manufacturing.
BARBARA	Biopolymers with advanced functionalities for building and automotive parts processed through additive manufacturing.
CAXMAN	Computer aided technologies for additive manufacturing surface treatment.
FORTAPE	Research on efficient integrated systems for the manufacturing of complex parts based on unidirectional tapes for the automotive and aeronautical sectors.
RECOTRANS	Integrated manufacturing of recyclable hybrid metalthermoplastic composites for the transport sector.

12:30 – 13:30 Lunch break

13:30 – 15:30 Projects/Results Session – Part 2: Robotics, Digitisation & Humans in Manufacturing

MEGAROB	Development of flexible, sustainable and automated platform for high accuracy manufacturing operations in medium and large complex components using spherical robot and laser tracker on overhead crane.
Z-BREAK	Strategies and predictive maintenance models wrapped around physical systems for zero-unexpected-breakdowns and increased operating life of Factories.
YVES, OPERATORINFO	Augmented workers using smart robots in a manufacturing cell bi-directional context-sensitive information sharing for operators.
ConnectedFactories CSA	Industrial scenarios for connected factories.
PREVIEW	Predictive system to recommend Injection mold setup in wireless sensor networks.
MASHES	Multimodal spectral control of laser processing with cognitive abilities.
PreCOM	Predictive cognitive maintenance decision support system.
Clear5G	Investigate and demonstrate some of the key enablers necessary to support machine type communications (MTC) traffic in 5G networks, in particular in the Factories-of-the-Future (FoF) environment.

15:30 – 15:45 Coffee Break

15:45 – 16:45

- Overview of manufacturing-related EGVI projects, Thilo Bein (Fraunhofer LBF) co-chair ERTRAC Global Competitiveness WG
- Discussion: Future automotive manufacturing challenges and outlook towards FP9 – Facilitated by David Storer (CRF), co-chair ERTRAC Global Competitiveness WG

16.45 Close