General Presentation of CONNECTA & Safe4RAIL

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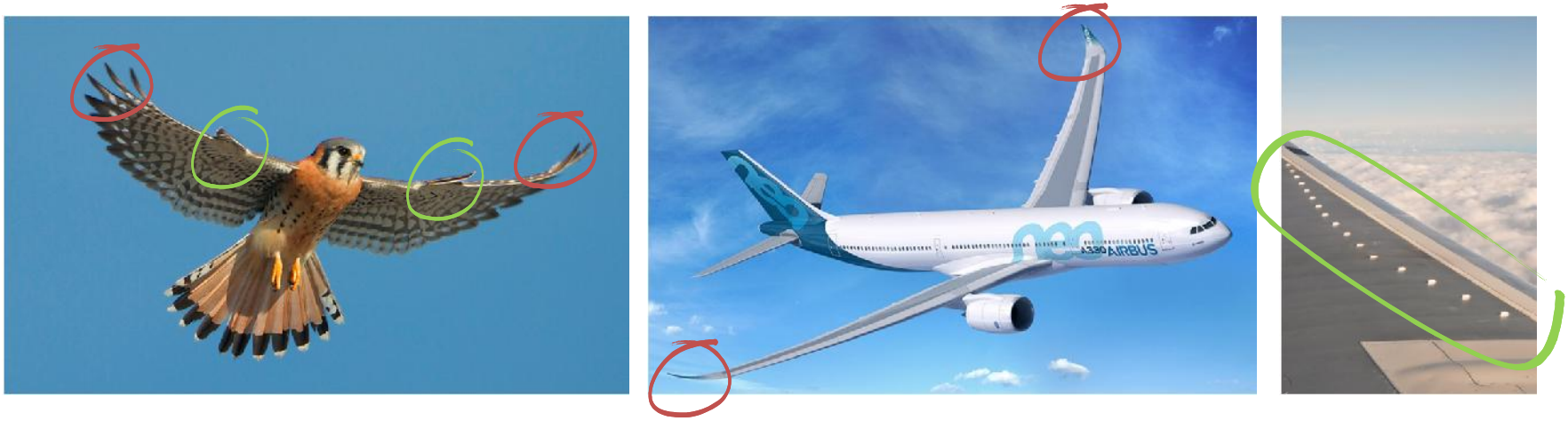
CONNECTA has received funding from the European Union's Horizon 2020 research and innovation programme under agreement No: 730539. Safe4RAIL has received funding from the Shift2Rail Joint Undertaking under grant agreement No: 730830. This Joint Undertaking receives support from the European Union's Horizon 2020 research and innovation programme.

Safe4RAIL – SAFE architecture for Robust distributed Application Integration in roLling stock (730830)

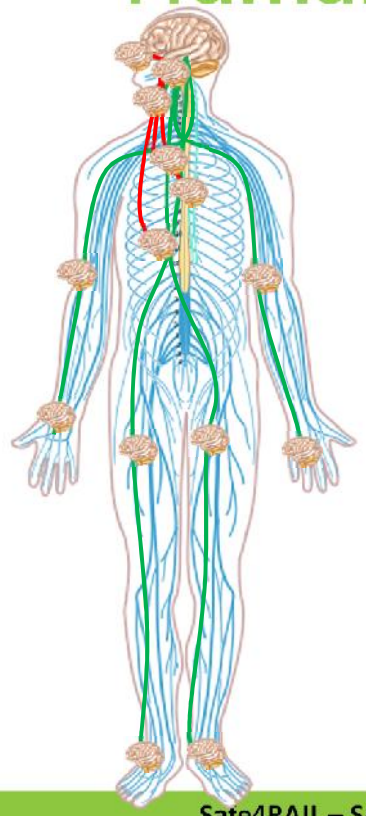
CONNECTA – CONtributing to Shift2Rail's NExt generation of high Capable and safe TCMS and brAkes (730539)

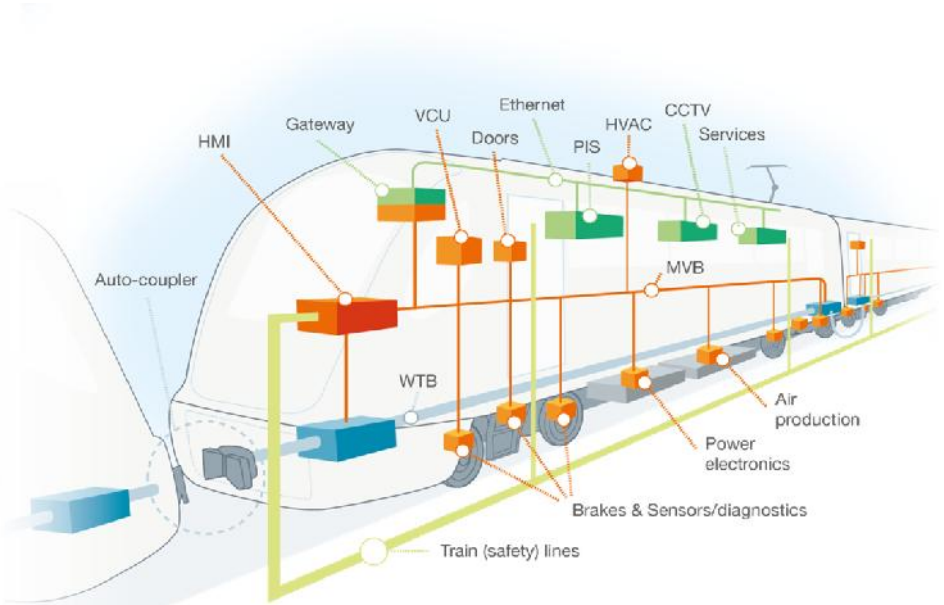
Who is the best engineer ever?



Human body, a clever system

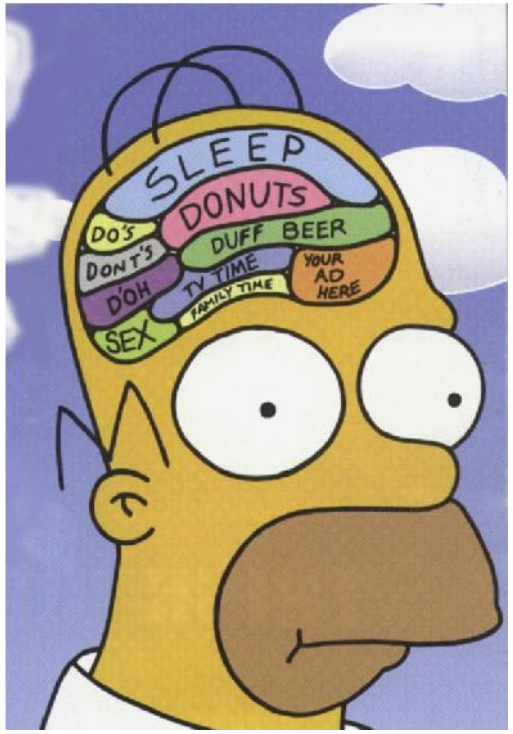
Human nervous central system



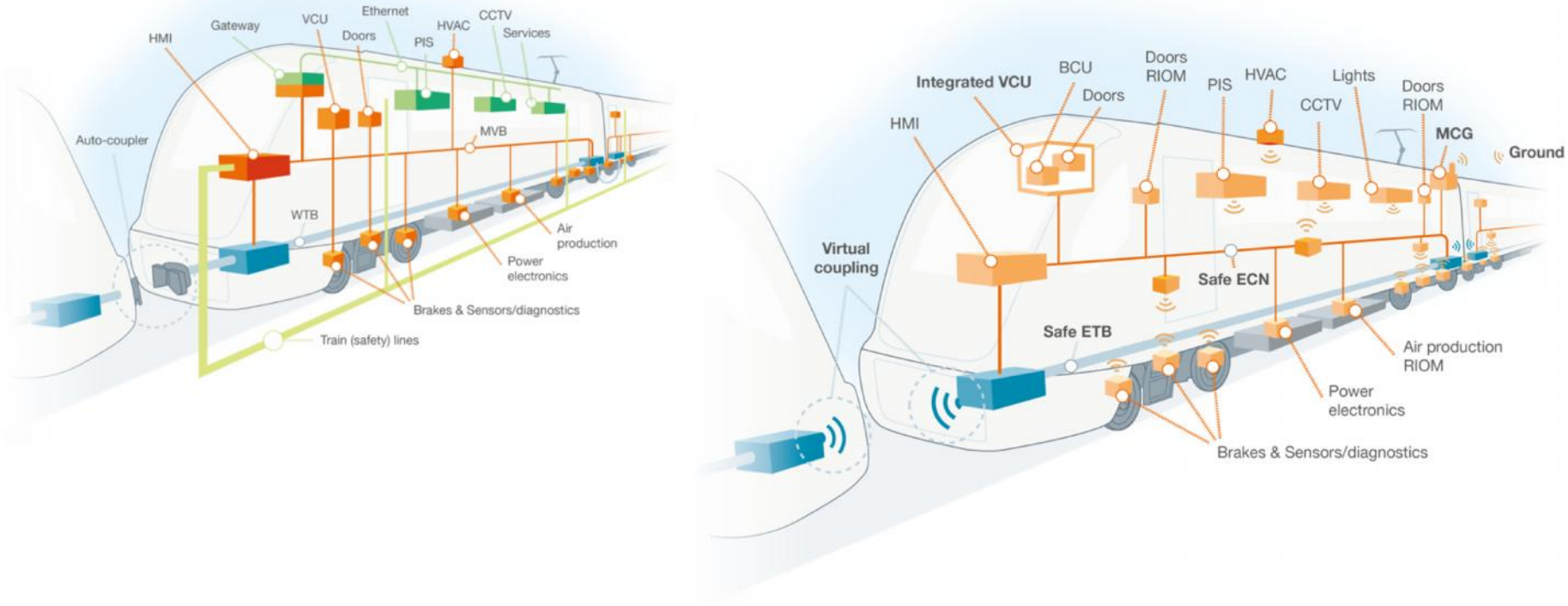


Train nervous central system

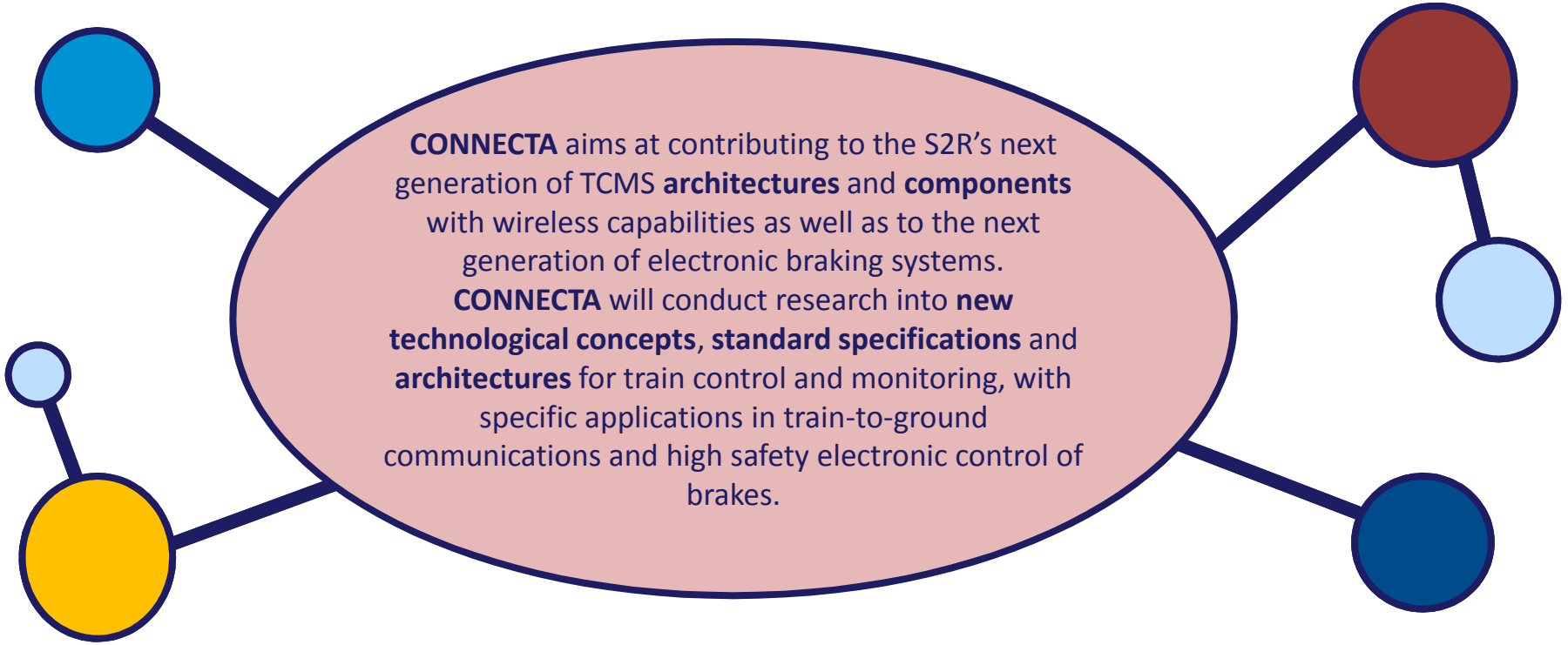
A well structured brain



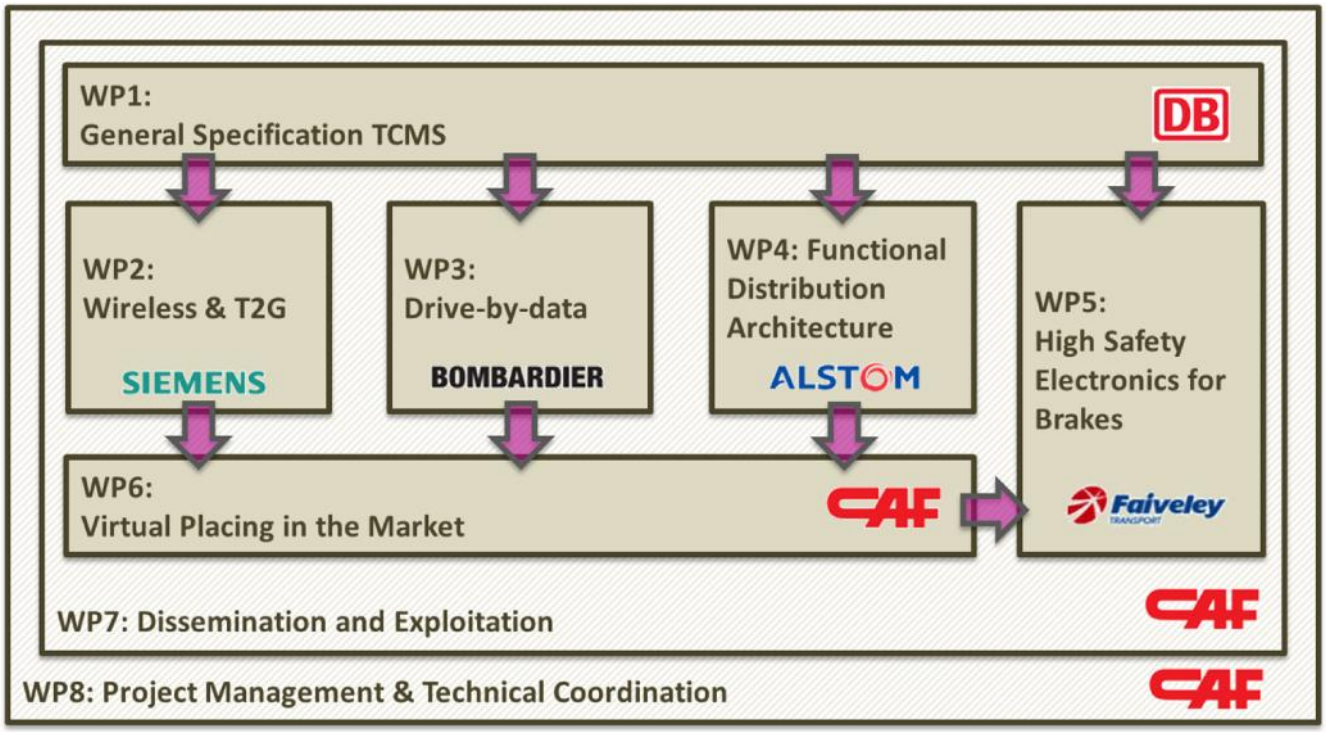
CONNECTA (TD1.2) vision



CONNECTA objectives



Project structure and main facts



1 September 2016

30 September 2018

33 deliverables

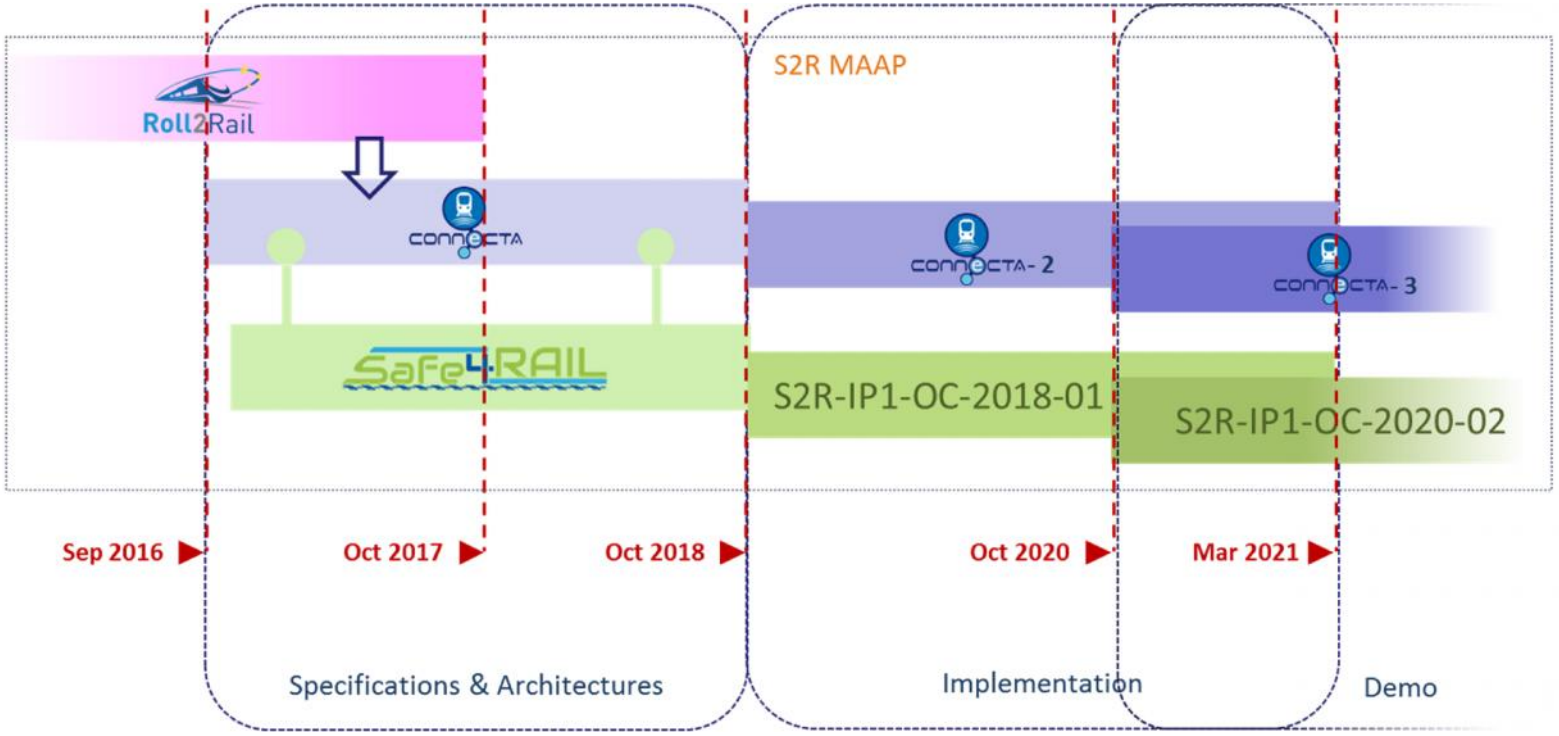
13.3 M€

5.9 M€

www.s2r-connecta.eu

ALSTOM BOMBARDIER SNCF Ansaldo STS A Hitachi Group Company CAF Faiveley DB SIEMENS KNORR-BREMSE

Shift2Rail TD1.2 TCMS



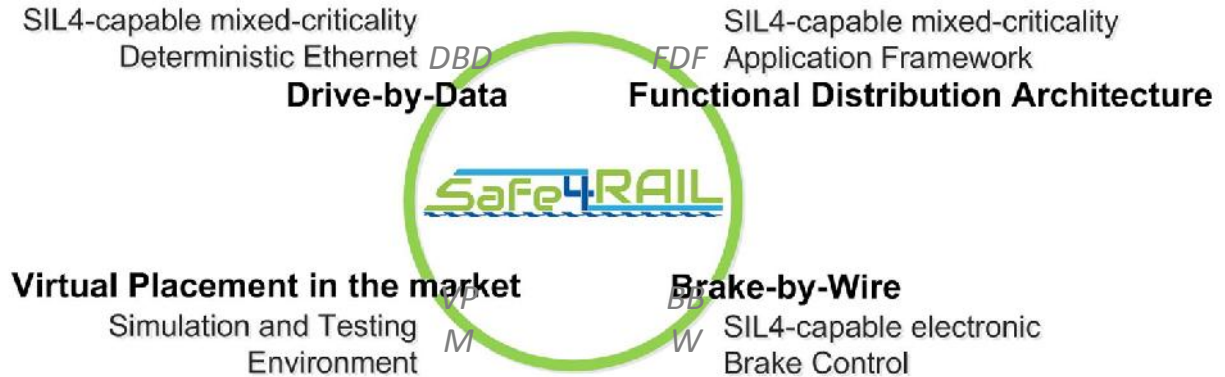
About Safe4RAIL

- „Open Call“ Project to support the achievements of Shift2Rail
  - IP1 “Cost-effective and Reliable Trains”
  - TD1.2 “Train Control and Monitoring System (TCMS)”

- Project data:
  - Start of the project: Oct 2016
  - End of the project: Dec 2018 (27 months)
  - Complementary project: CONNECTA

- Project partners:

Safe4RAIL Project objectives



Technology and feasibility studies

Safe4RAIL Partner overview

Enterprise	TTTech Computertechnik AG	AT
	IAV Ingenieursgesellschaft für Auto und Verkehr GmbH	DE
	Eletech S.r.l.	IT
	TÜV Süd Rail GmbH	DE
SME	NIER Ingegneria S.p.A.	IT
	TECHNIKON Forschungs- und Planungsgesellschaft mbH	AT
	UniControls A.S.	CZ
	NewTec GmbH System-Entwicklung und Beratung	DE
RTD	IK4-Ikerlan SCL	ES
	Universität Siegen	DE
	IFSTTAR	FR