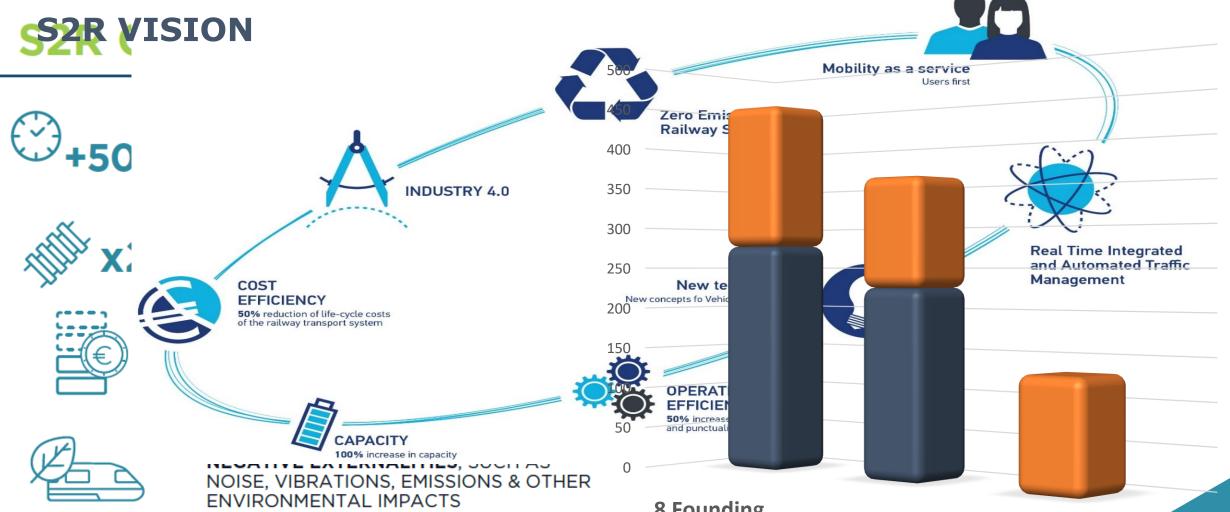
2nd International Scientific Discussion: the S2R Programme

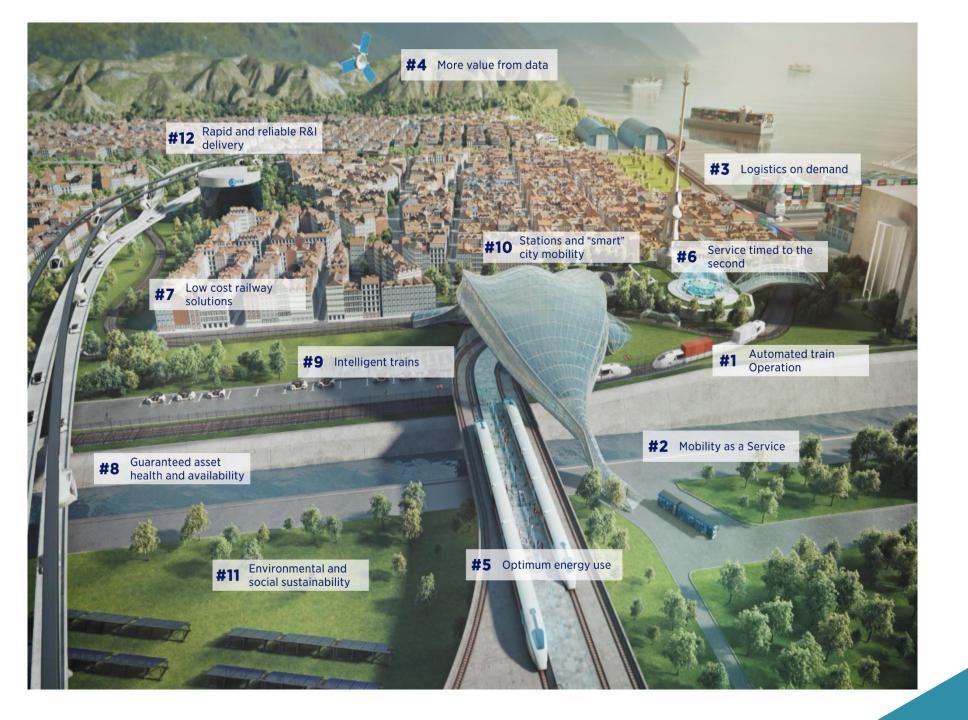
4 October 2018





To deliver through railway research and innovation the capabilities to open calls bring about changestosus tainable encost-efficient, high-performing, time driven, The light and Competitive, customer-driven transport mode for Europe

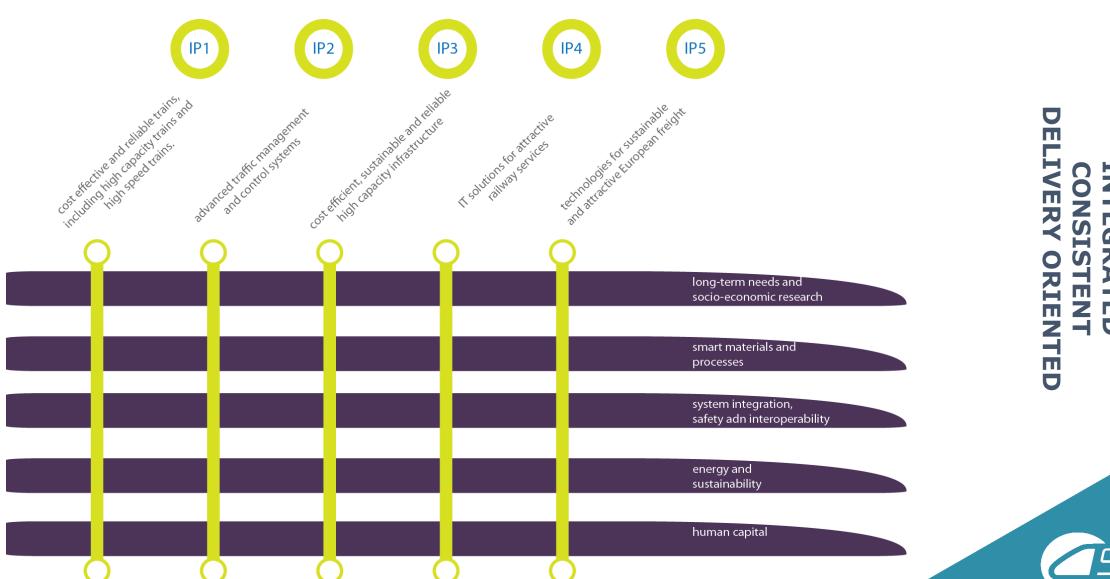




INNOVATION CAPABILITIES

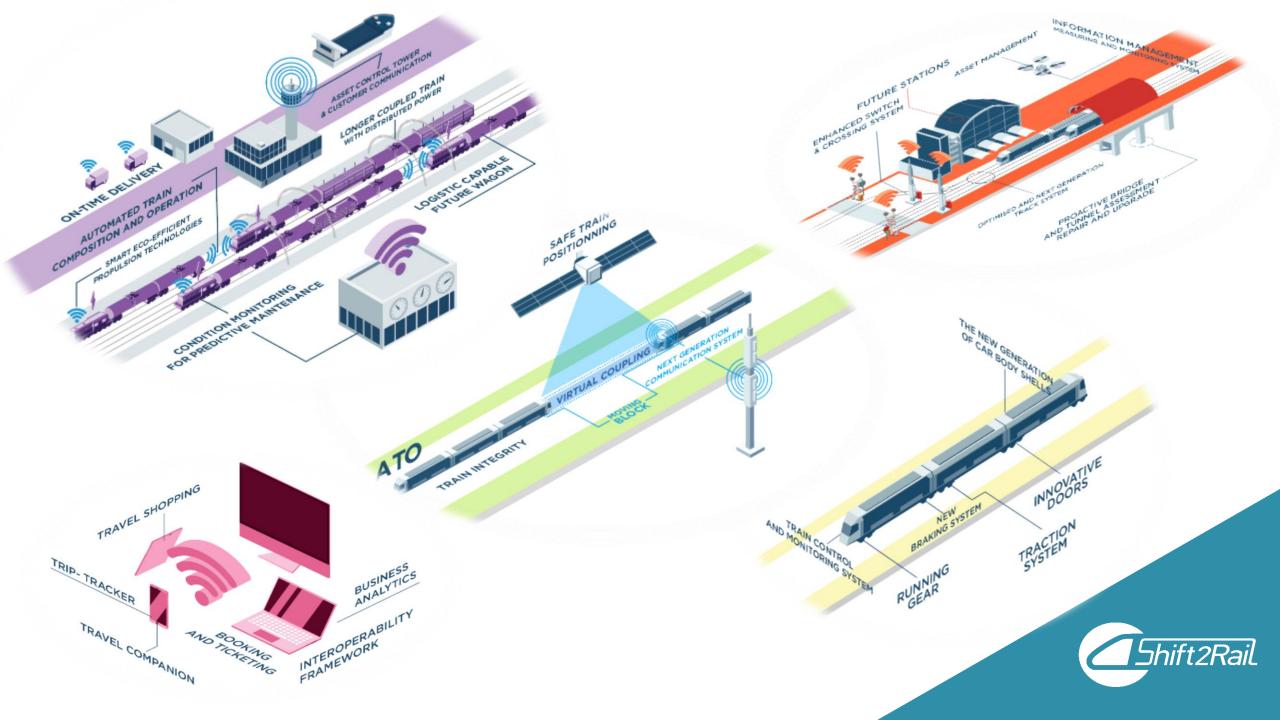


R&I for Innovation Capabilities



PROGRAMM Ш





From "piecemeal" to S2R DigitRail System Architecture

- ✓ Innovation: evolutionary, by steps or disruptive
- ✓ Time to market: moving from R&I to deployment => system approach to decrease fragmentation
- √ "Do not reinvent the wheel": Open System Interface (or interconnection) model
- ✓ Innovation Skills and Competences : still the same needs in the Digital Railway?

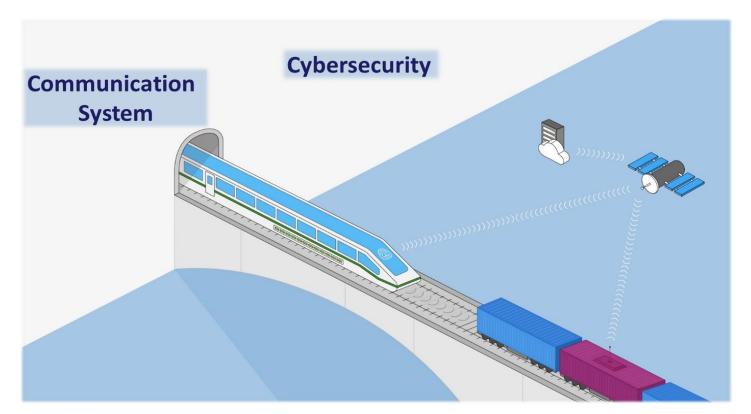
THE FUTURE RAIL SYSTEM: TRAINS MAXIMIZING THE SYSTEM PERFORMANCE BY A COMBINATION OF DISTRIBUTED INTELLIGENCE AND SUPERVISION BY 2030

- ✓ Enablers: digital technologies, automation, artificial intelligence, data, cloud and supercomputing, connectivity, satellite, but also new regulatory concepts and framework, traction, braking systems, etc....
- ✓ Deployment: from zero on site testing through integrated testing to revenue services testing, large real time demos, transition models



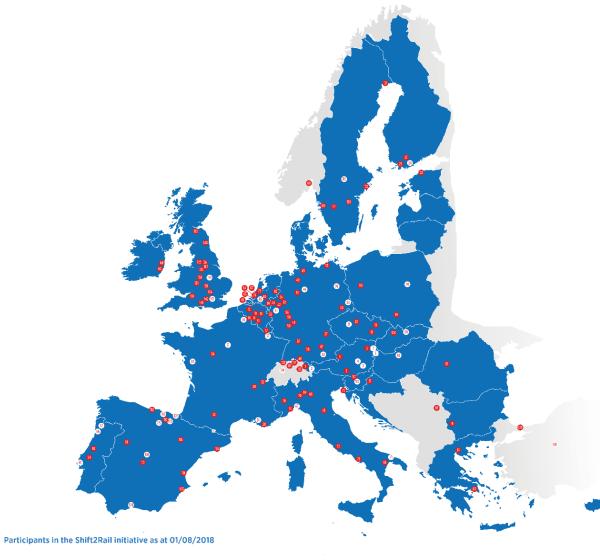
Automation, Digitalization and Sustainability: agree on the automation intelligence

- on the vehicle
- on infrastructure
- a mix of both
- shared intelligence between modes a railway could be responsible for example of the network management of automated car systems



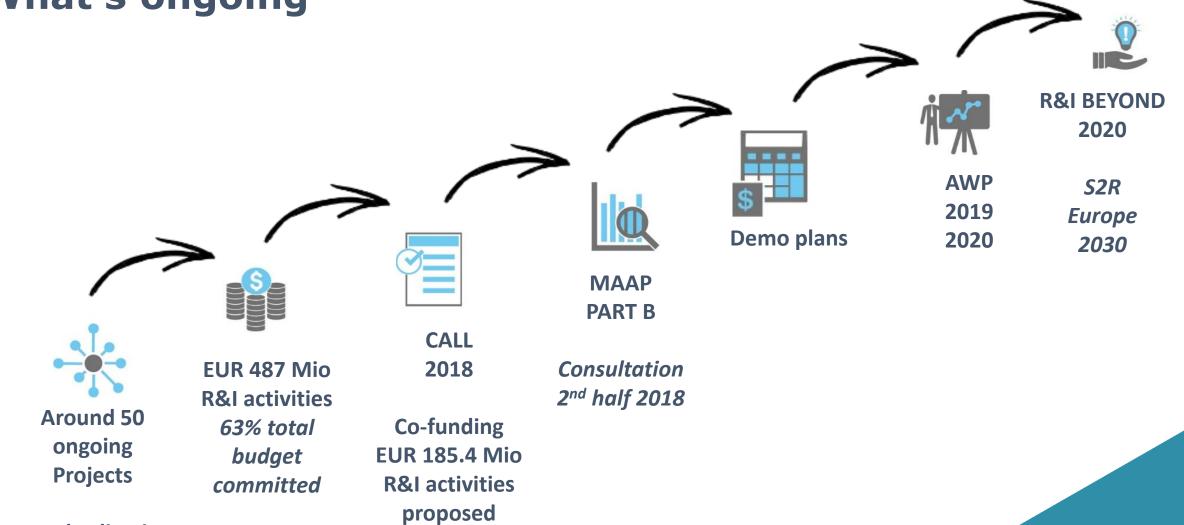


Together to deliver S2R DigitRail System Architecture





What's ongoing



18 topics

standardization roadmap



BOMBARDIER

















































kapsch >>>











