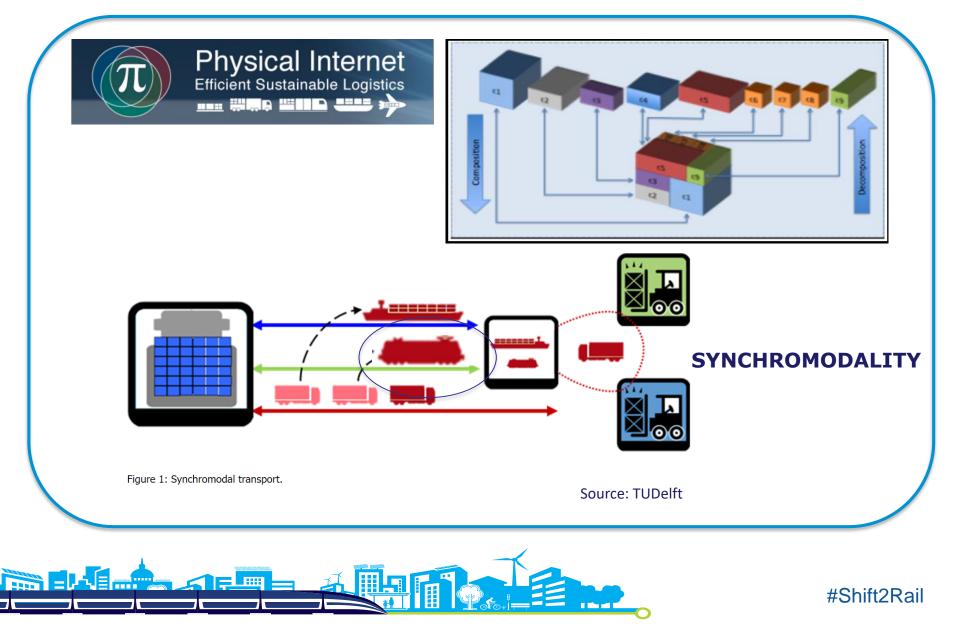


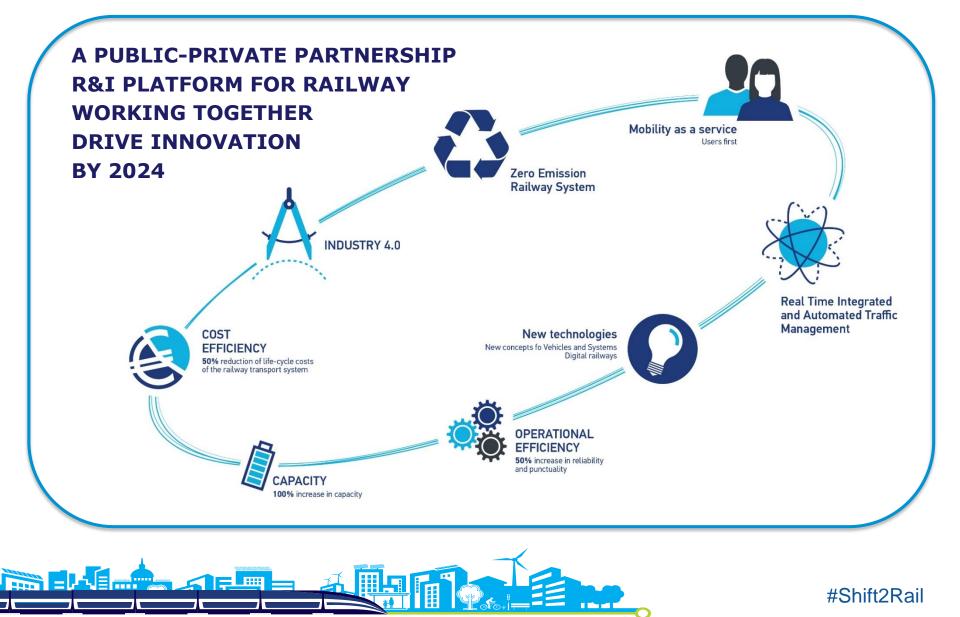
Rail in the Physical Internet: views and role of S2R

Carlo M Borghini, Executive Director











SINGLE EUROPEAN RAILWAY AREA

Council Resolution Levino 642 2014 of 16 June 2014 52R Resolution **ATTRACTIVENESS & COMPETITIVENESS OF** THE EUROPEAN **RAILWAY SYSTEM**

LEADERSHIP ON THE **GLOBAL MARKET**

S2R Regulation

S2R Master Plan

S2R Multiannual Action Plan

S2R Annual Work Plans





S2R PROGRAMME: INTEGRATED CONSISTENT DELIVERY ORIENTED

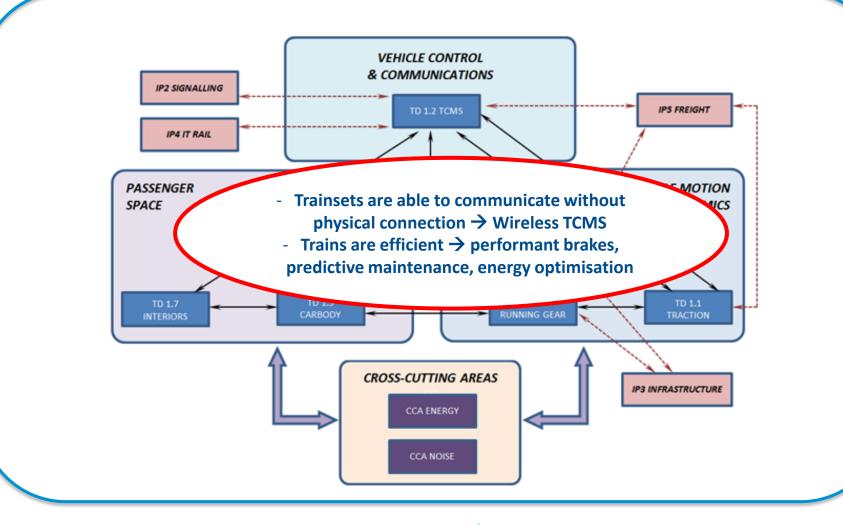
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Long-term needs and socio-economic research Smart materials and processes	Trains, including d gh speed trains t	18 Control	Cost-efficient, Sustainable and Reliable High ਰ Capacity Infrastructure	Attractive Railway Services	& Attractive
System integration, safety and interoperability	eliable and hig	Traffic Management &	inable an ure	active Rai	Sustainable
Energy and sustainability	t and · train	Traffic Ma	cient, Sustaina Infrastructure		gies for Sus 1 Freight
Human capital	Cost-efficient high capacity	Advanced [.] Systems	Cost-efficie Capacity Ir	IT Solutions for	Technologi European I





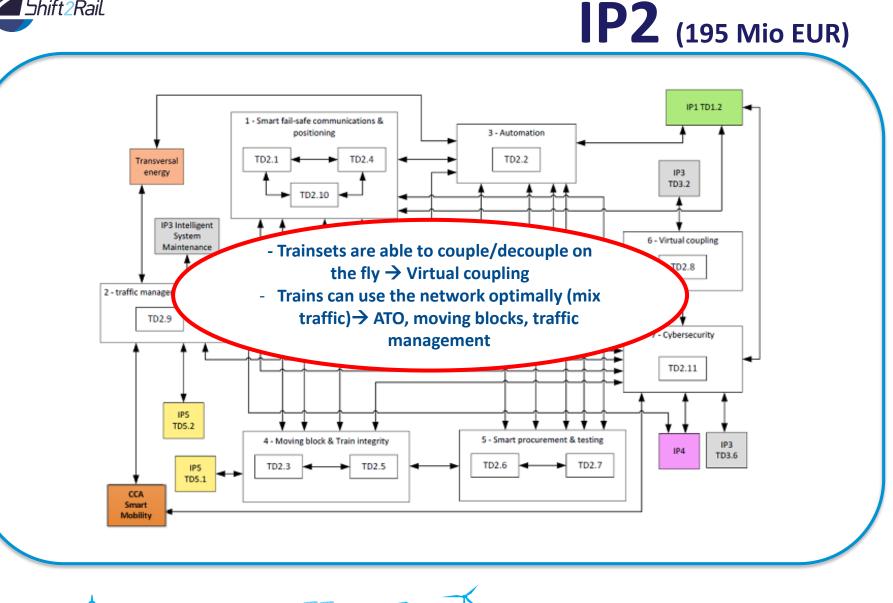




ift2Rail





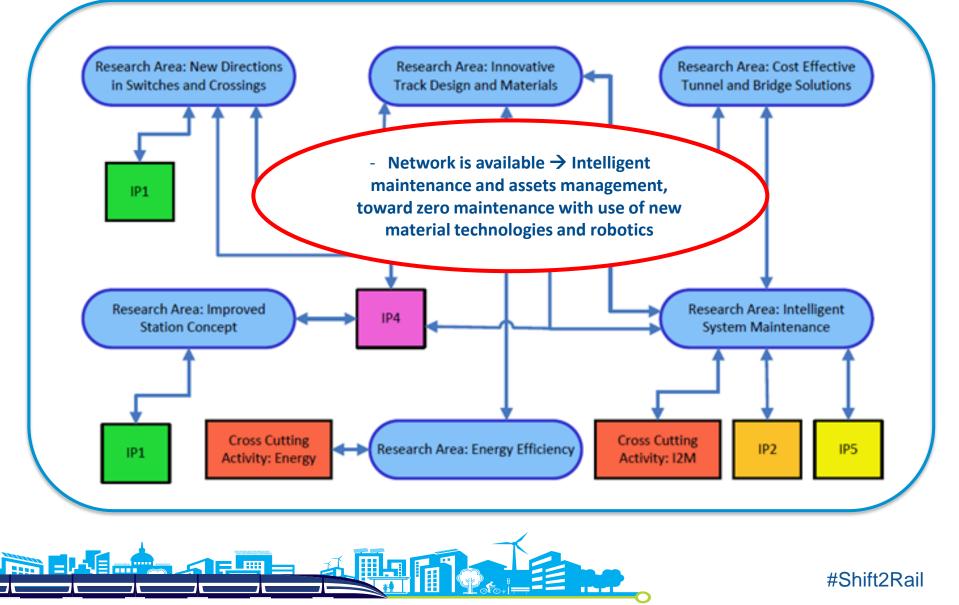






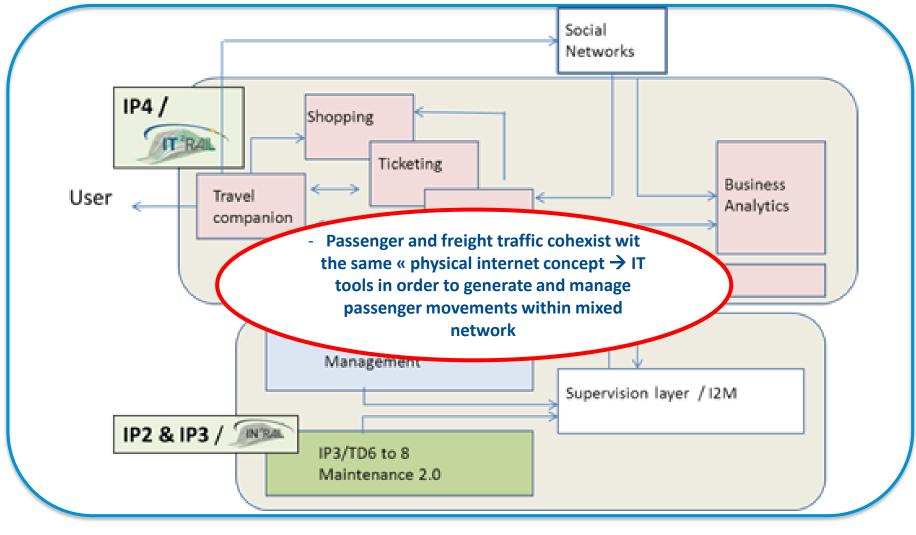


IP3 (153 Mio EUR)





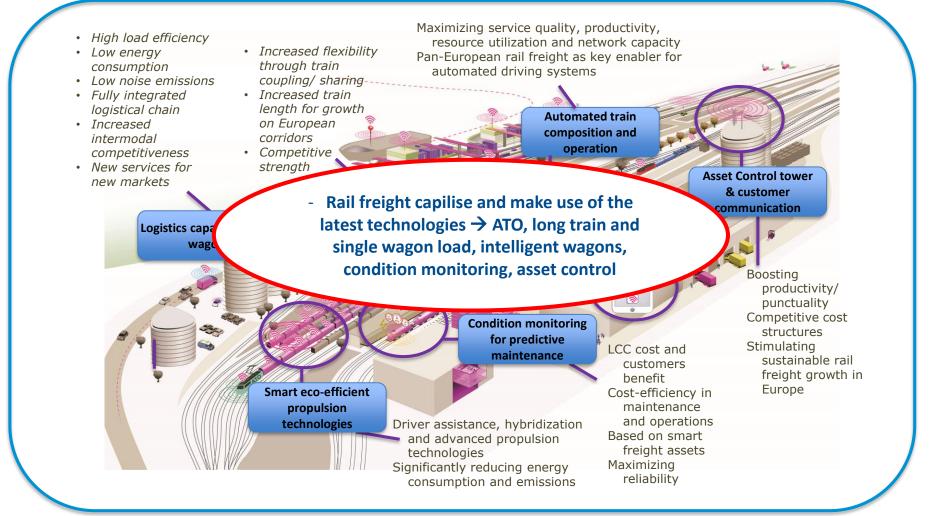
IP4 (86 Mio EUR)







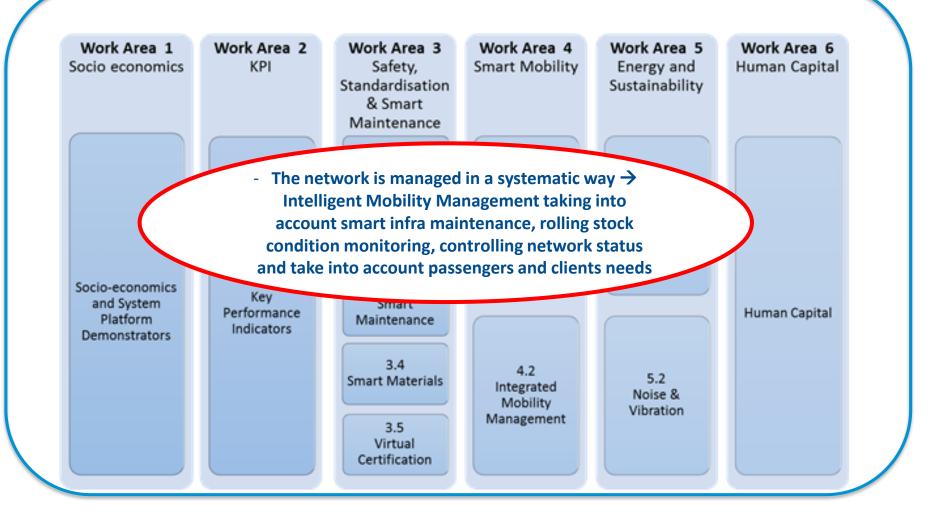
IP5 (83 Mio EUR)







CCA (35 Mio EUR)

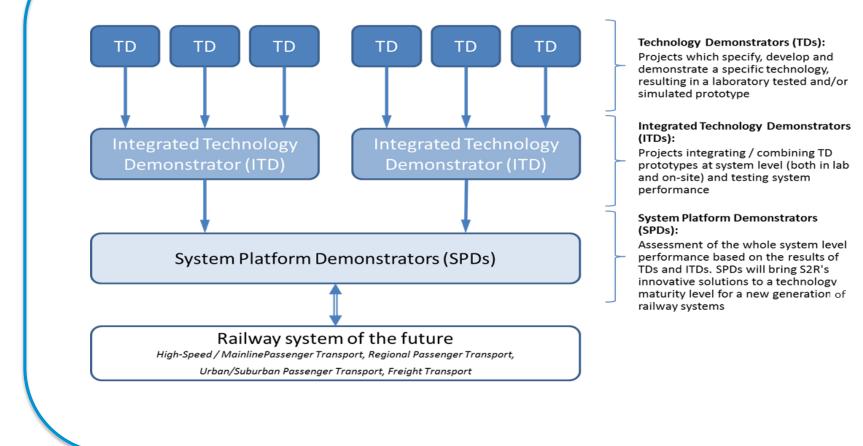






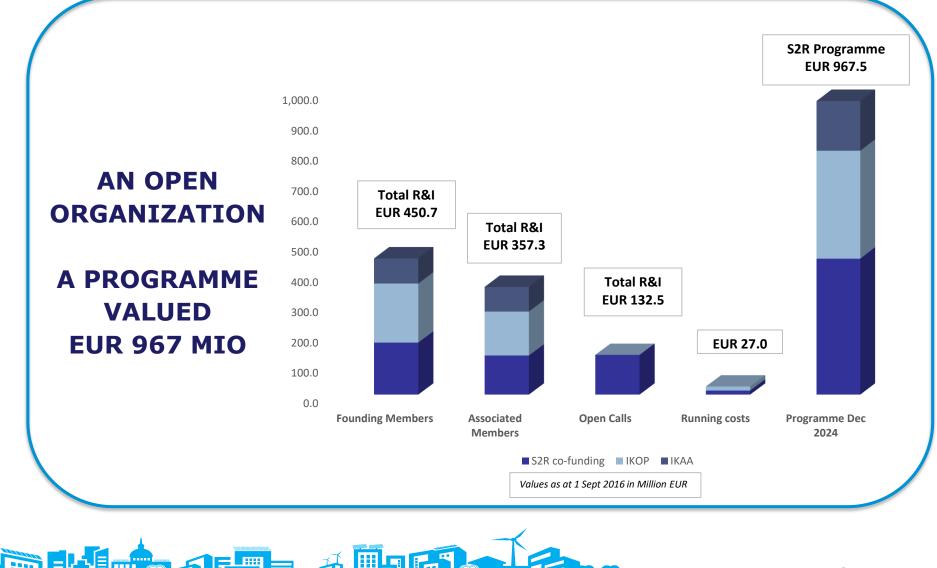


From TRL0 to TRL6/7







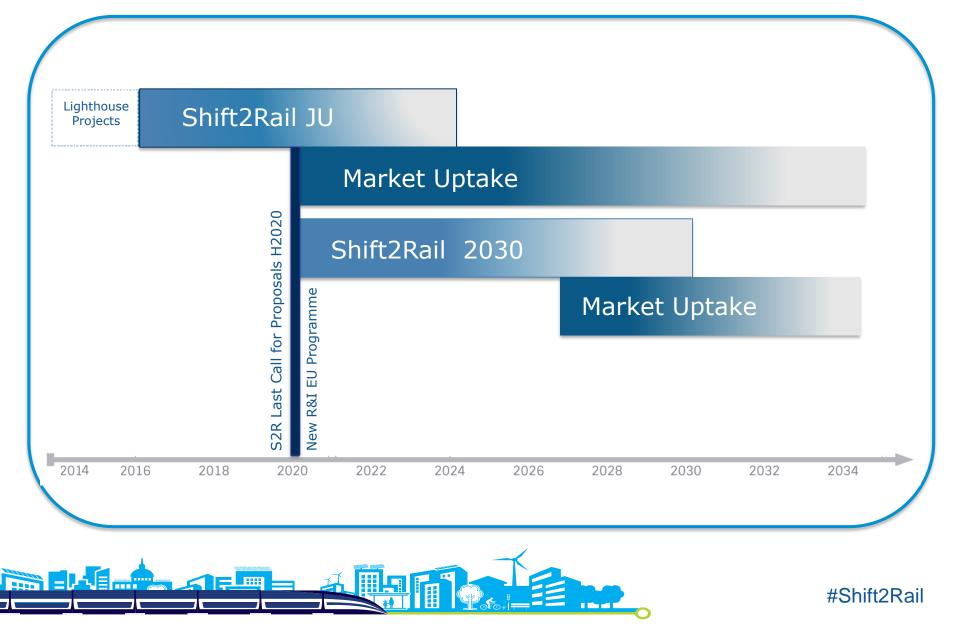






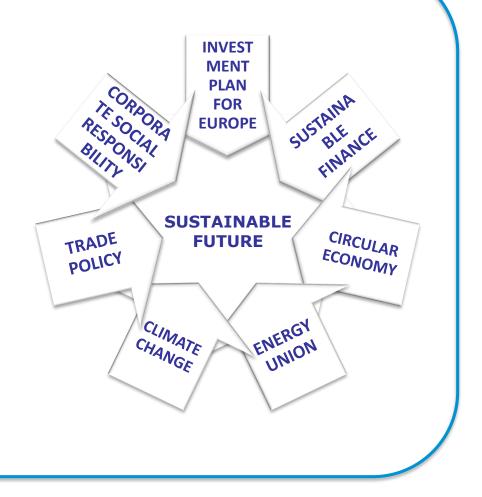


R&I BEYOND 2020





UNION COMMITMENT TO IMPLEMENT 2030 GLOBAL AGENDA AND SUSTAINABLE DEVELOPMENT GOALS









	NEEDS	SERVICE COST/ EFFICIENCY	COMPETITIVENESS
RAIL R&I	of rail and market stakeholders (e.g. end users, citizens, industry) evolving demand a more targeted effort (mobility in the urban, regional and long distance)	versus across the components of the system (also through Big Data, Cloud, IoT, Smart Materials, Robotics, Artificial Intelligence to Social Behaviour, etc.)	driver for a more competitive and stronger European Railway industry and system













