IN2TRACK contextualization in Shift2Rail

IN2TRACK Final Conference Paris 22 January 2018

Nikolaos ATHANASOPOULOS

Programme Manager S2R Joint Undertaking





what is Shift2Rail

- ✓ A <u>Public-Private Partnership</u>, a platform for the rail sector as a whole, to work together to drive innovation in the years to come until 2024
- ✓ S2R has been tasked by EU "to establish and develop a strategic Master Plan", which encompasses rail R&I until 2030 Council Regulation (EU) No 642/2014 of 16 June 2014 (S2R Regulation)







28 MEMBERS



343

PARTICIPANTS INVOLVED FROM **27** COUNTRIES

AN OPEN and ACTIVE ORGANISATION



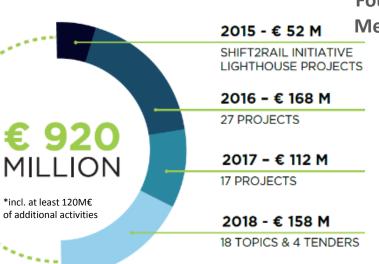
92 SMEs

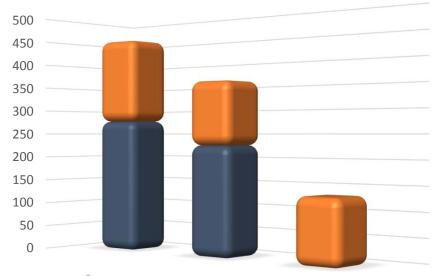


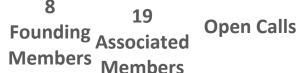
84

RESEARCH CENTRES AND UNIVERSITII

¹Data extracted from CORDA database in April, 2018









S2R Key Objectives & Vision

S2R OBJECTIVES



INCREASE RELIABILITY 8
PUNCTUALITY BY 50%



DOUBLERAILWAY CAPACITY



HALVE LIFE-CYCLE COSTS OF RAILWAY TRANSPORTS



CONTRIBUTE TO **REDUCTION OF NEGATIVE EXTERNALITIES**, SUCH AS
NOISE, VIBRATIONS, EMISSIONS & OTHER
ENVIRONMENTAL IMPACTS

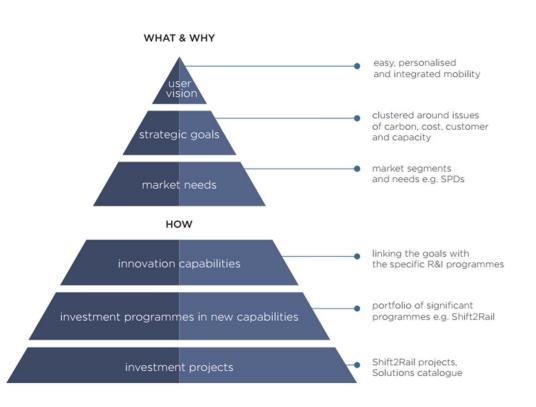


CONTRIBUTE TO THE ACHIEVEMENT OF THE SINGLE EUROPEAN RAILWAY AREA

To deliver through research and innovation the capabilities to bring about the most sustainable, cost-efficient, high-performing, time driven, digital and competitive, customer-driven transport mode for Europe



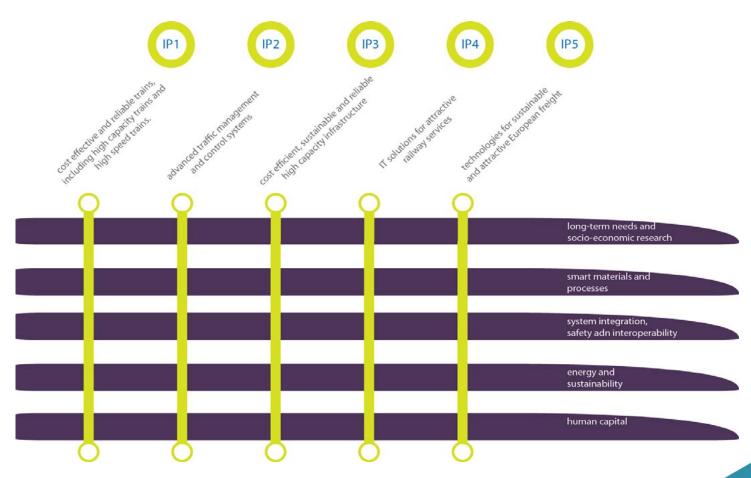
A Shift2Rail holistic approach...







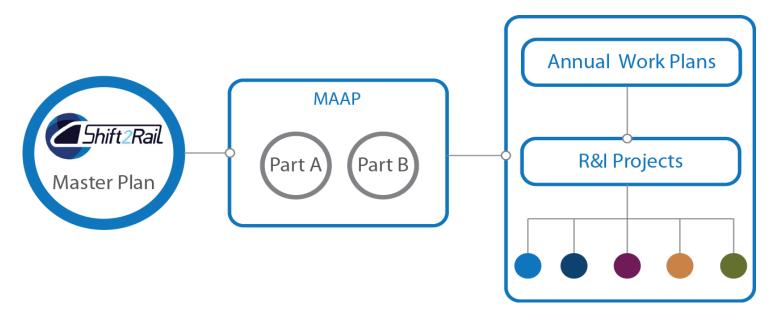
R&I Programmes for Innovation Capabilities



S2R PROGRAMME:
INTEGRATED
CONSISTENT
DELIVERY ORIENTED



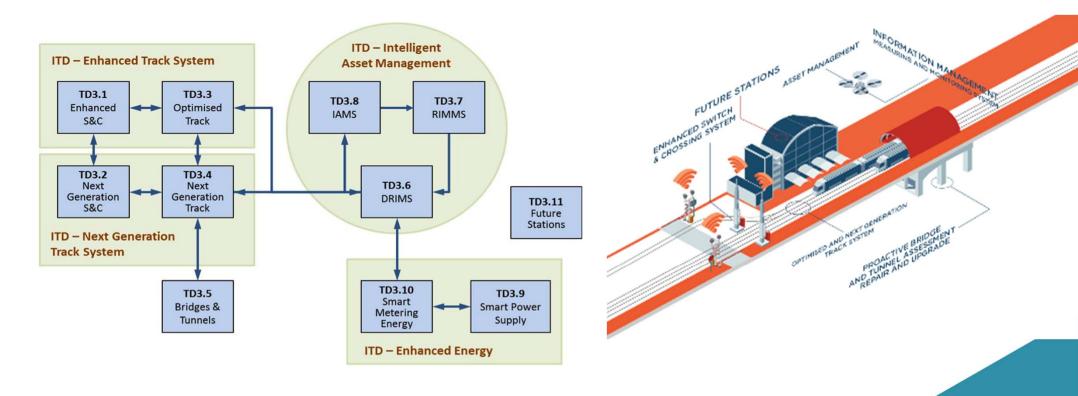
The S2R Programme implementation

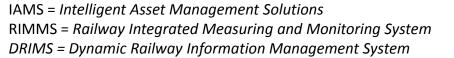


- **Shift2Rail Master Plan** defines the strategic R&I Priorities and the Vision for the Railway sector.
- Shift2Rail Multi-Annual Action Plan (MAAP) provides the Innovation Capabilities, and defines the concrete R&I activities, milestones & deliverables
- Annual Work Plans are result-oriented, and include Call for Proposals and Tenders
- R&I Projects are awarded grants to implement parts of S2R MAAP



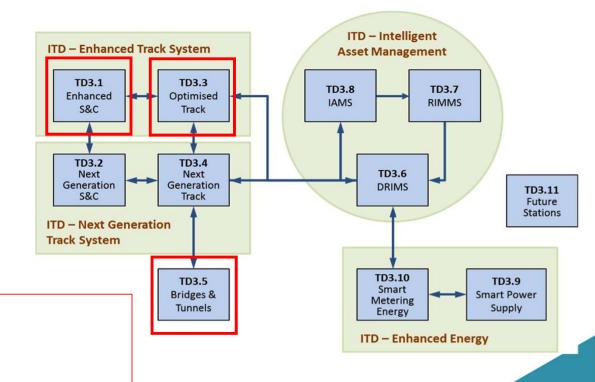
Innovation Programme 3: Cost Efficient and Reliable High Capacity Infrastructure







IN2TRACK contextualisation in Shift2Rail programme

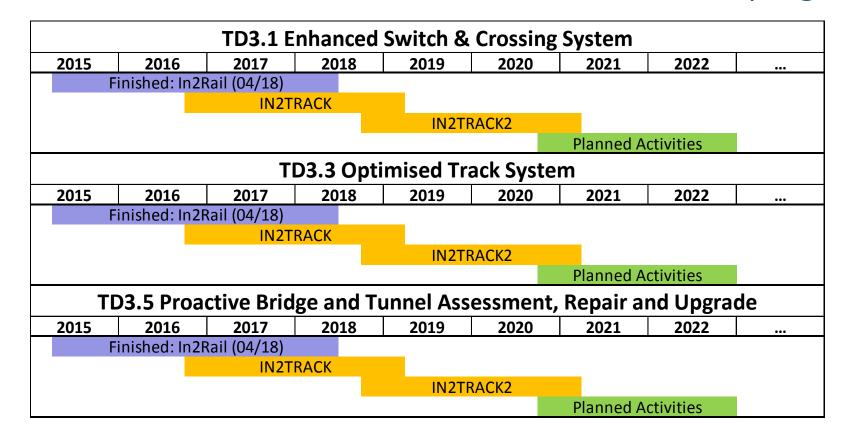


Relation to S2R MAAP:

- ✓ TD3.1 Enhanced Switches & Crossings (S&C) System
- ✓ TD3.3 Optimized Track System
- ✓ **TD3.5** Proactive Bridge and Tunnel Assessment, Repair and Upgrade

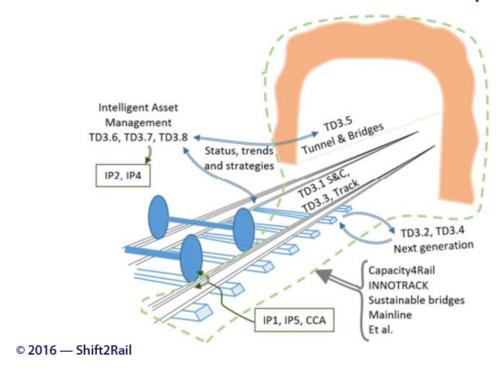


IN2TRACK contextualisation in Shift2Rail programme





IN2TRACK contextualisation in Shift2Rail programme



Complementarities with running S2R Actions:

- ✓ S2R-OC-IP3-01-2016 S-CODE, receiving input for work in TD3.1
- ✓ S2R-CFM-IP3-01-2018 IN2TRACK2, acting as predecessor for work continuation in TDs 3.1, 3.2, and 3.5
 to reach higher TRL
- ✓ **S2R-OC-IP3-01-2018 ASSETS4RAIL,** cooperating within TD3.5



FOUNDING MEMBERS



ALSTOM

Ansaldo STS A Hitachi Group Company

BOMBARDIER





SIEMENS

THALES



ASSOCIATED MEMBERS

















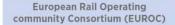


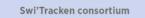






Virtual Vehicle Austria consortium+ (VVAC+)





Smart DeMain (SDM) consortium

















acciona











SBB CFF FFS

Slovenske železnice











voestalpine

KIRCHDORFER





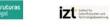


TCDD

PKP

POLSKIE KOLEJE PAŃSTWOWE



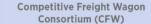






















RAILINIUM

Smart Rail Control

(SmartRaCon) consortium























WBN