IN2TRACK contextualization in Shift2Rail

IN2TRACK Final Conference
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Nikolaos ATHANASOPOULOS
Programme Manager
S2R Joint Undertaking
**what is Shift2Rail**

- **A Public-Private Partnership**, 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)*
AN OPEN and ACTIVE ORGANISATION

28 MEMBERS
343 PARTICIPANTS INVOLVED FROM 27 COUNTRIES
92 SMEs
84 RESEARCH CENTRES AND UNIVERSITIES

Values as at 1 Sept 2016 in Million EUR

Founding Members: 8
Associated Members: 19
Open Calls: 8

€ 920 MILLION

1 Data extracted from CORDA database in April, 2018

*incl. at least 120M€ of additional activities
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 Delivery Oriented

- IP1: CO2 effective and reliable systems, including high-speed trains and high-speed roads
- IP2: Advanced traffic management and control systems
- IP3: Cost-effective, sustainable and reliable high-capacity infrastructure
- IP4: IT solutions for attractive railway services
- IP5: Technologies for sustainable and attrative European freight

- Human capital
- Energy and sustainability
- System integration, safety and interoperability
- Smart materials and processes
- Long-term needs and socio-economic research
• **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

IAMS = Intelligent Asset Management Solutions
RIMMS = Railway Integrated Measuring and Monitoring System
DRIMS = Dynamic Railway Information Management System
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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

### TD3.1 Enhanced Switch & Crossing System

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### TD3.3 Optimised Track System

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### TD3.5 Proactive Bridge and Tunnel Assessment, Repair and Upgrade

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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

- **EU**
- **Alstom**
- **Ansaldo STS** (Hitachi Group Company)
- **Bombardier**
- **CAF**
- **Network Rail**
- **Siemens**
- **Thales**
- **Trafikverket**

### Associated Members

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- **AERFITEC**
- **Competitive Freight Wagon Consortium (CFW)**
- **Smart Rail Control (SmartRaCon) consortium**

- **AERTOVA**
- **ConTraffic**
- **DIE BAHNINDUSTRIE**
- **CEiC**
- **CEiC**
- **NSL**