Welcome!

Join us on **Sli.do** and on **Twitter**

#S2RCall2019

Wi-Fi Login: **Shift2Rail**
Wi-Fi Password: **InfoDay**

Share ideas ONLINE: **#S2RCall2019**

Questions NOW: www.Sli.Do - **#S2RCall2019**

Questions LATER: info-call@s2r.europa.eu

Shift2Rail

LIVE POLL!

Opening address

Elisabeth WERNER

Director of Land Transport

DG Mobility & Transport, European Commission

Shift2Rail

Opening address

Clara DE LA TORRE

Director of Transport

DG Research & Innovation, European Commission

Shift2Rail

Questions?

www.Sli.Do: #S2RCall2019

info-call@s2r.europa.eu

Shift2Rail

Opening Address

Carlo BORGHINI

Executive Director

Shift2Rail Joint Undertaking

#4 More value from data

#12 Rapid and reliable R&I delivery

#3 Logistics on demand

#10 Stations and smart city mobility

#6 Service timed to the second

#7 Low cost railway solutions
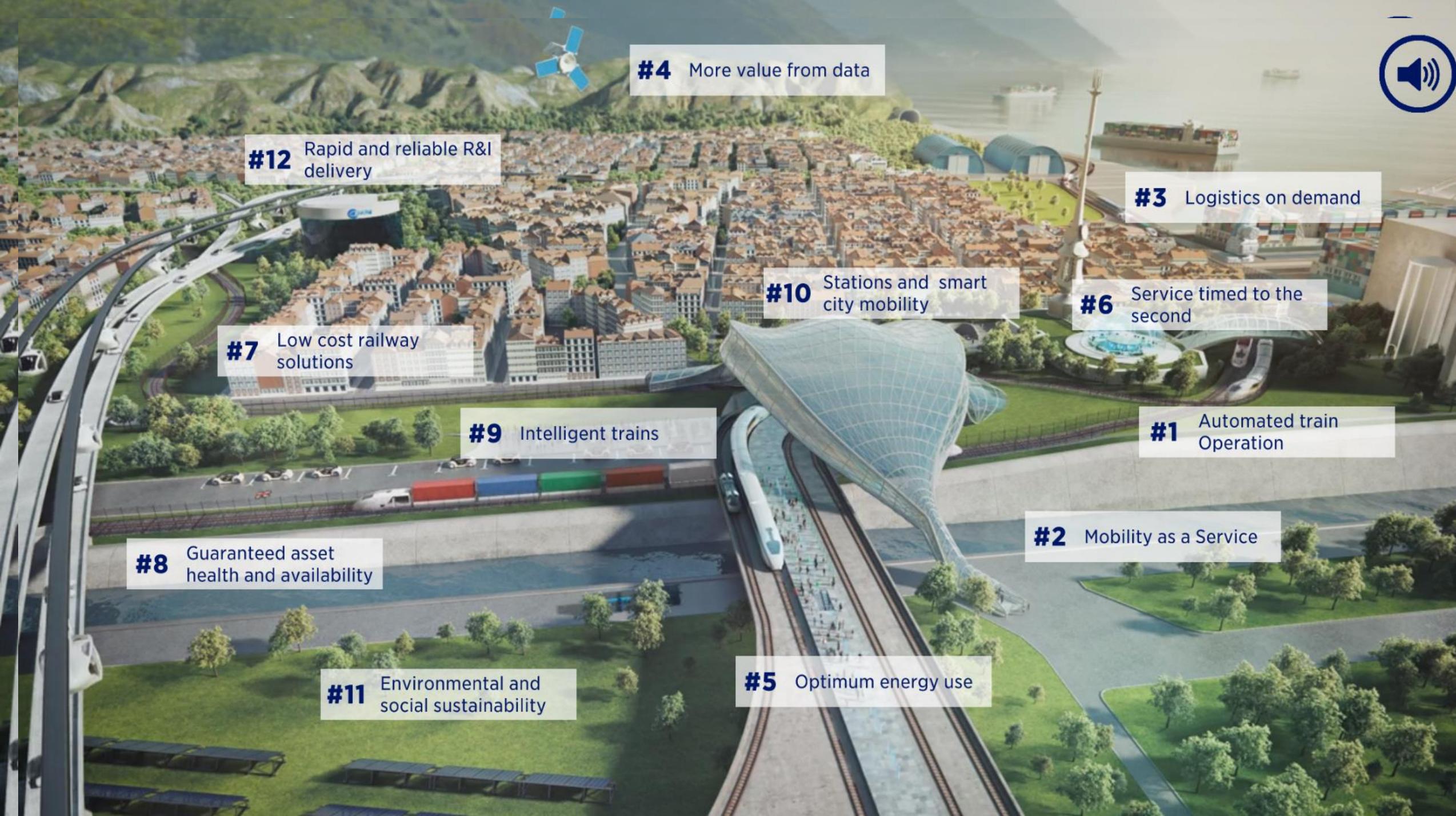
#9 Intelligent trains

#1 Automated train Operation

#8 Guaranteed asset health and availability

#2 Mobility as a Service

#11 Environmental and social sustainability

#5 Optimum energy use

DELIVERING TOGETHER RAILWAY RESEARCH & INNOVATION

Questions?

www.Sli.Do: #S2RCall2019

info-call@s2r.europa.eu

Shift2Rail

European Transport Network Alliance

The *NCP network* for the H2020 Societal Challenge 4 "Smart, green and integrated transport".

Elena Angiolini

Brussels 06.02.2019

ETNA 2020 ID

Topic Addressed: *MG-9.5-2015 Fostering transnational cooperation in European transport research and innovation – NCP network*

Funding scheme: CSA

Status: ongoing

Start date: 1st January 2016

Duration: 48 months + 6 months (amendment under negotiation)

N° of partners: 16

EC Project Officer: Oana Melinceanu (since November 2017)

ETNA 2020 CONSORTIUM

1) APRE (coordinator)

2) ASE

3) ABAE

4) CDTI

5) CVTISR

6) EI

7) FCT

8) IFSTTAR

9) TSB

10) IPPT PAN

11) ISERD

12) FORTH

13) RPF

14) RTU

15) RVO

16) SVEMO

In addition to the beneficiaries of the ETNA 2020 consortium, NCPs from Member States and Associated Countries or third countries are involved, somehow, in the project activities.

ETNA 2020 OBJECTIVES

Raise the general understanding of the EU Transport R&I landscape

Support the capacity building of NCPs & Upgrade their set of tools for assistance

Strengthen the participation of stakeholders to Horizon 2020 funding opportunities

Create & promote networking opportunities within the Transport constituency.

SERVICES FOR NCPs & STAKEHOLDERS

ETNA 2020 SERVICES FOR NCPs & STAKEHOLDERs
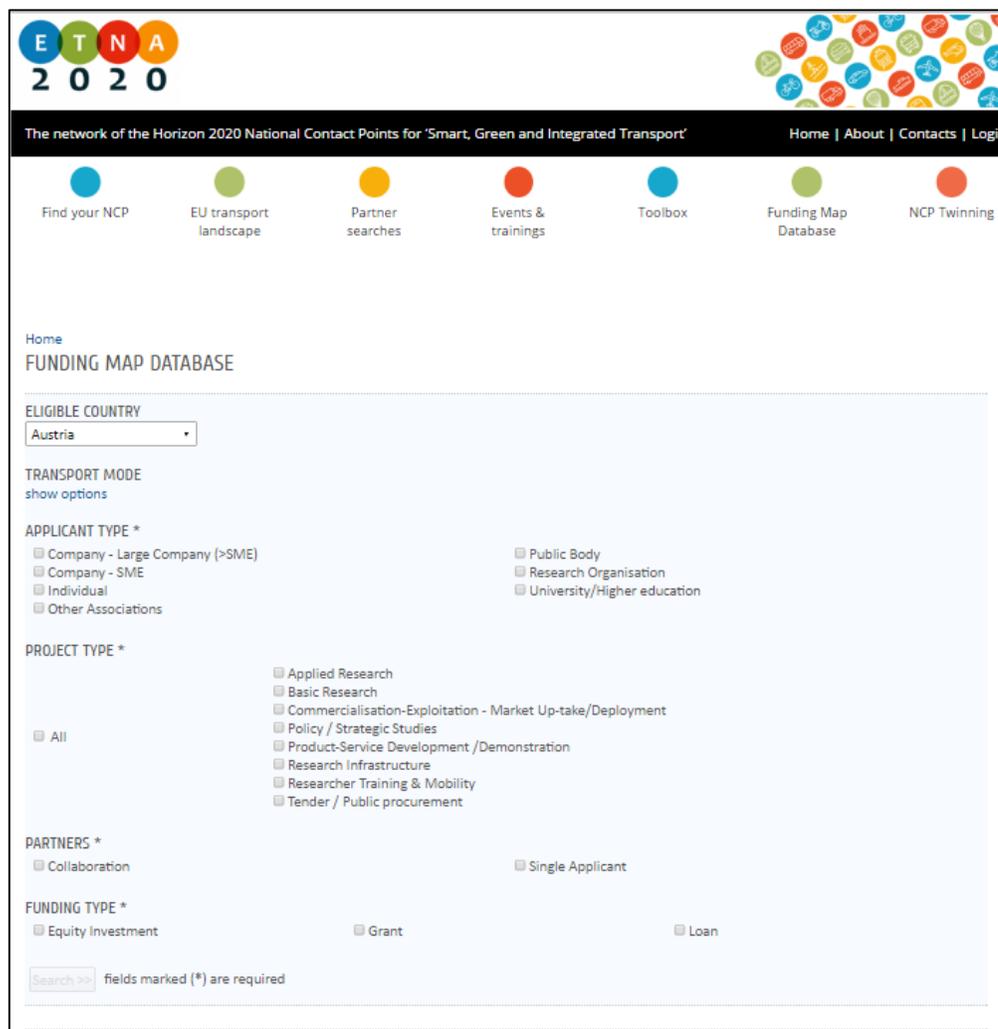
FUNDING MAP DATABASE

What is it?

➢ **Single entry point web-based tool** including European sources of public and private funding for transport R&I

➢ simple signposting service that can be used as a precursor to project submission

➢ Information on complementary EU funds

Who can use it?

➢ **NCPs** as time saver, redirecting clients that have ideas but are not familiar with the landscape

➢ **Seasoned participant** to widen the reach as preferred funding opportunities might not prioritise complementary activities

➢ **a new/ inexperienced** participant to familiarise with the priorities of a wide array of funding programmes

https://www.transport-ncps.net/funding-map-database/

ETNA 2020 SERVICES FOR NCPs & STAKEHOLDERs

PARTNER SEARCH SYSTEM:

- Organisations' profiles' database
- EEN Business offers and requests (embedded)
- TRIMIS database (linked)
- **Partner searches database ready to be launched**
- Available at the following link:

http://www.transport-ncps.net/partner-search/

ETNA 2020 SERVICES FOR NCPs & STAKEHOLDERs

TOOLBOX: https://www.transport-ncps.net/toolbox/

ETNA 2020 SERVICES FOR NCPs & STAKEHOLDERs

EUROPEAN TRANSPORT ORGANISATIONS

A searchable database, available at: https://www.transport-ncps.net/toolbox/

ETNA 2020 SERVICES FOR NCPs & STAKEHOLDERs

EUROPEAN TRANSPORT DOCUMENT REPOSITORY

available at: https://www.transport-ncps.net/toolbox/

ETNA 2020 SERVICES FOR STAKEHOLDERs

BROKERAGE EVENTs 1/4

1. **ETNA2020 Brokerage Event (BE) @ TRA2016 (Warsaw, 21st April 2016).**
   - Participants to the event: 237 participants from 31 different countries (mainly from Poland, Spain, Italy and Germany).
   - Oral presentations: 40.
   - Bilateral meetings: 237 meetings + 30 spontaneous. 181 participants to the bilateral meetings session.
   - PS live station – see task 3.1 for more details
2. **EEN - ETNA2020 Brokerage event @ ILA Berlin Air Show (Berlin, 2nd June 2016).**
   - Participants from 28 different countries (mainly from Germany, Poland, Spain and Italy).
   - Bilateral meetings: 232 meetings
3. **BioHorizon - ETNA2020 BE @ Be Smart, Think Blue Conference 2016 (Gdansk, 20th September 2016).**
   - Participants attending the conference Day 1: 119
   - Participants attending the day 2 and brokerage event: 31,
   - Bilateral meetings: 35
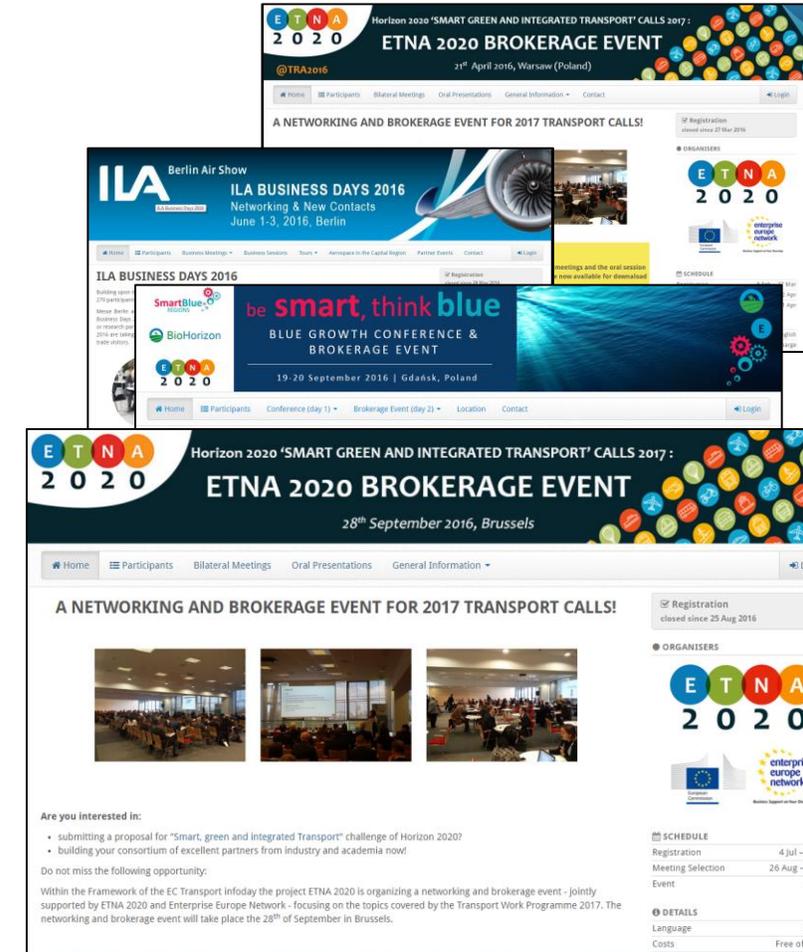
ETNA 2020 SERVICES FOR STAKEHOLDERs
BROKERAGE EVENTs 2/4

4. **ETNA2020 BE @ EC Transport Info-day** (Brussels, 28th September 2016).
   - Participants to the event: 358 participants from 31 different countries (mainly from Spain, Italy, Belgium, UK).
   - Oral presentations: 43
   - Bilateral meetings: 453
   - PS live station – see task 3.1 for more details
5. **EEN-ETNA2020 Matchmaking event @ DroneDays 2017** (Brussels, 10th March 2017).
   - ETNA2020 (BEA) supported EEN.
   - Participants to the event: 56 participants from 15 different countries (mainly from Belgium, France and Luxembourg).
   - Bilateral meetings: 224
6. **EEN-ETNA2020 BE @ European Maritime Days** (Poole, 19th May 2017)
   - ETNA2020 (TSB) supported EEN.
   - Participants to the event: 53 participants from 11 different countries (mainly from UK, France and Norway).
   - Bilateral meetings: 129
7. **EEN-ETNA2020 BE @ E² Tech4Cities 2017** (Brussels, 23th June 2017).
   - ETNA2020 (BEA) supported EEN
8. **ETNA2020-EEN BE @ EC Transport Infoday 2017** (Brussels, 13 December 2017)

ETNA 2020 SERVICES FOR STAKEHOLDERs

BROKERAGE EVENTs 3/4

9. EEN – ETNA2020 BE @ The World City Expo 2018 (Barcelona, 13-14 November 2018)

10. ETNA2020 networking support session @ KOREA-EU R&I Cooperation Day 2018 (Seoul, 12 September 2018)

11. ETNA2020 – EEN BE @ International Air and Space Fair FIDAE (Santiago (Chile), 3-5 April 2018)

12. ETNA2020 BE @ TRA2018 (Vienna, 17-19th April 2018)

13. ETNA2020 Support to the Shift2rail Brokerage Event (29/11/2018, Strasbourg)

SERVICES FOR STAKEHOLDERS

ETNA 2020 training for stakeholders

➢ **2 ETNA2020 ACADEMIES. Training events addressed to potential coordinators** willing to participate in H2020 transport calls (in whichever H2020 pillar).

➢ **8 trainings in total: 7 training events already performed so far** Training for new groups of stakeholders (physical training/webinar).

ETNA 2020 SERVICES FOR STAKEHOLDERs

Proposal PreCheck Event 29.09.2017 in Zagreb (Croatia)

- Inspired by the IDEALIST model
- 10 participants

**SAVE THE DATE!
Next PreCheck Event to be held in September 2019**

ETNA2020 ACADEMY

Pre-proposal check in Zagreb, September 29th 2017

Session	Room	Time	Topic	Evaluators	NCPs	Participants
						Country
I	1	Welcome coffee& Briefing for session I 09.00-09.15	MG-7-2-2017	Mrs. Małgorzata Szyszko	Louise Mothersole	Jorge Pinho de Sousa/Portugal
	2		MG-7.3-2017	Mrs. Rebecca Kovačič Lukman	Zbigniew Turek	Mikel Borras/Spain
	3	Evaluation session I 09.15-11.15	MG-1.3-2017	Mrs. Anna Boczkowska	Louise Mothersole	Elena Jubete/Spain
11.15-11.30 Coffee break for session I and welcome coffee for session II						
II	1	Welcome & Briefing for session II 11.30-11.45	MG-2.4-2017	Mrs. Małgorzata Szyszko	Zbigniew Turek	John Morgan/UK
	2		MG-4.1-2017	Mrs. Rebecca Kovačič Lukman	Louise Mothersole/ Zbigniew Turek	Kate Mouncher/UK
	3	Evaluation session II 11.45-13.45	MG-1.3-2017	Mrs. Anna Boczkowska	Louise Mothersole	NicolasBlanc/Switzerland
13.45-14.15 Lunch for all						
III	1	Welcome & Briefing for session III 14.15-14.30	MG-1.4-2017	Mrs. Anna Boczkowska	Zbigniew Turek	Snježana Rimac-Drlie/Croatia
	2		MG-7-2-2017	Mrs. Małgorzata Szyszko	Zbigniew Turek	Irina Stipanovic Oslakovic /Croatia
	3	Evaluation session III 14.30-16.30	MG-2.1-2017	Mrs. Rebecca Kovačič Lukman	Zbigniew Turek	Ivan Østvik/Norway (via skype)

ETNA 2020 SERVICES FOR STAKEHOLDERs

WORKSHOPs ON INTERNATIONAL COOPERATION

- **Workshop on International Cooperation @ TRA2018**
  19.04.2018
  Vienna (Austria)
- **Workshop on International Cooperation @ FIDAE**
  In cooperation with EEN
  3-5.04.2018
  Santiago (Chile)
- **Workshop on International Cooperation @ KOREA-EU R&I Cooperation Day**
  12/09/2018
  Seoul (Rep. of Korea)

ETNA 2020 INFORMATION

www.transport-ncps.net

WEBSITE, NEWSLETTER, BRANDING TOOLBOX, DISSEMINATION EVENTS, SOCIAL MEDIA
Aiming at providing information on H2020 transport-related calls & the project services
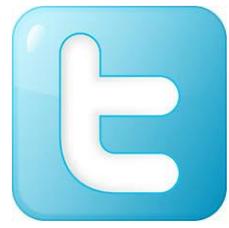
Follow @ETNA2020network

ETNA 2020

The network of the Horizon 2020 National Contact Points for 'Smart, Green and Integrated Transport'

Home | About | Contacts | Login

Either you fly, drive or sail, we help you lead the way.

Find your NCP

EU transport landscape

Partner searches

Events & trainings

Toolbox

Funding Map Database

NCP Twinning

WELCOME!

ETNA 2020 strengthens the linkage between the 'Smart, Green and Integrated Transport' NCPs and all the research and business stakeholders in the transport sector, including all the transport modes and several cross-cutting areas (e.g. Safety,

ETNA 2020 SERVICES FOR STAKEHOLDERs
NEWSLETTERs

- 5 Newsletters issued
- 6° Issue on the way
- 2 new sections introduced:
  - *Voices from EEN*
  - *Get to know your fellow NCP*

Focus: Matchmaking session

How it works

1) 30' round of 6 pitches: 5 slides in 5 min.

2) Parallel discussion groups – one for each pitch (30 min.)

Tips 1/2

- **The aim of the pitch**: To clearly and convincing present your project idea/knowhow proposition **in a few minutes**

- **What are you looking for?** Consortia with already a coordinator? or partners to complete your consortium?

- **Convince the audience** with clear figures and schemes:

The first 30 seconds are crucial, you have **to make an impact** by presenting:
What problem you are going to solve (based on the scope of the Call topic)
Your value proposition (how does your project idea solve such problem?)
Why you and your partners of the consortium are the right persons to achieve the result

Tips 2/2

A good presentation contains:
- Introduction
- Message
- Conclusion
- Perform an energetic and motivating show that summarizes

The project idea
The potential impact
The consortium as the dream team

FURTHER INFORMATION ABOUT ETNA 2020

www.transport-ncps.net
https://twitter.com/ETNA2020network.
etna2020@apre.it

Thank you for the attention

Questions?

www.Sli.Do: #S2RCall2019

info-call@s2r.europa.eu

Shift2Rail

Coffee Break
Panoramic Hall, 5th floor

After the break

	Hall 400, 4th floor
11:00-12:45	• **Presentation of the Call for Proposals 2019** • **Presentation of the activities of each Innovation Programme**

Shift2Rail

Annual Work Plan 2019 topics and S2R Programme specificities

Giorgio TRAVAINI

Head of Research & Innovation

S2R Joint Undertaking

Shift2Rail

The S2R Programme implementation
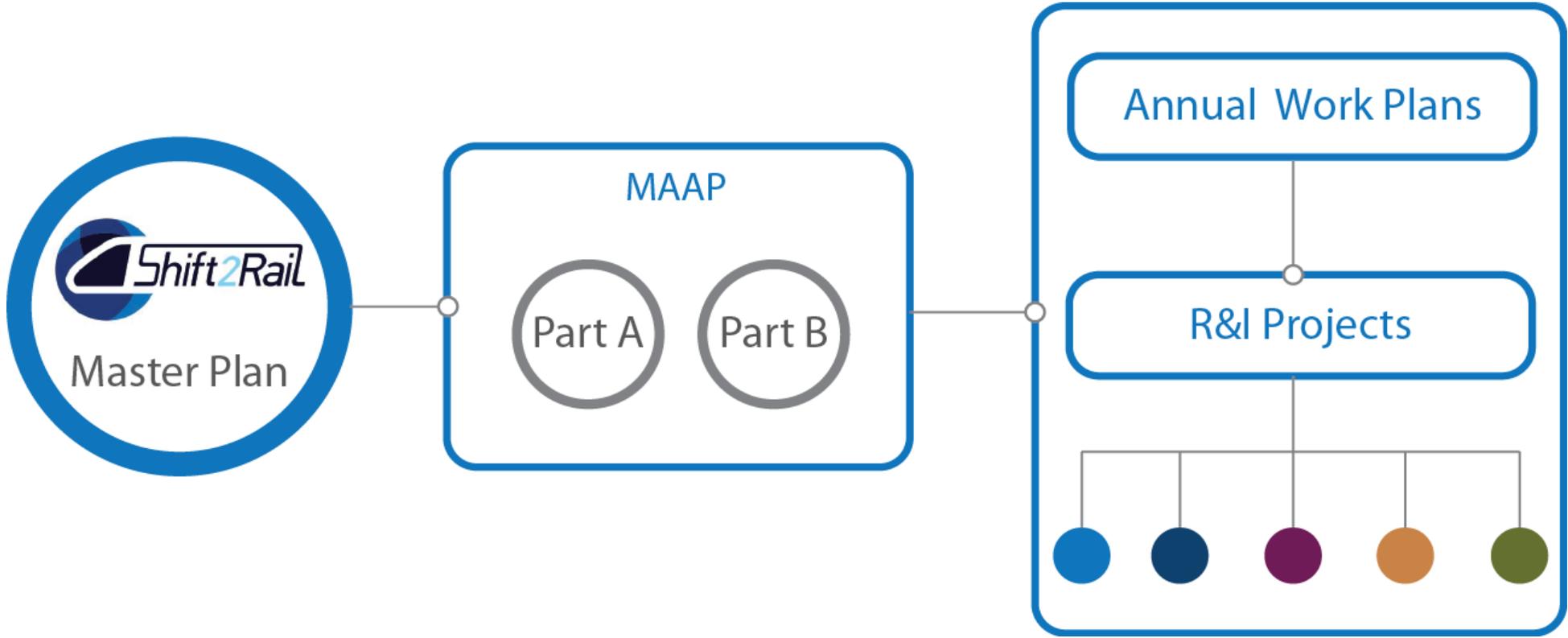
The S2R MAAP*

- is a collaborative long-term investment planning document, which now also contains an Executive View (**Part A**) providing the **S2R vision and Capabilities**
- translates strategic R&I priorities for the Railway sector – as per S2R Master Plan - into **concrete R&I activities, milestones and deliverables**
- contains the description of R&I activities worth an estimated **value of about EUR 777 million**
- **is a living document** (ongoing "maintenance" for **Part B**)
- enables the preparation of result-oriented **Annual Work Plans** and **Calls for Proposals or Tenders**
- **grants awarded** for the actions(Projects) should aim to implement part(s) of the MAAP

* multi-annual action plan

AWP 2019 S2R Programme specificities

Million of EUR	Total	Members only	Open to non-Members
Value of the Call for Proposals R&I	150.3	129.5	20.8
S2R Maximum Co-funding	76.8	57.5	19.3
In-Kind Contribution	73.4	71.9	1.5
No of topics	18	6	12
Value of Call for tender R&I	1.4	0	1.4
No of topics	4	0	4

Number	IP1	IP2	IP3	IP4	IP5	CCA	IPX
CFM topic	1	1	1	0	1	1	1
OC topic	3	2	1	1	2	1	2
Linked tender topic		1			1		2

Shift2Rail

AWP 2018 S2R Programme specificities

How to read the topic acronyms

Topic number - IP	Topic name	Type of action and expected TRL	Value of action (*) EUR	Maximum S2R co-funding (*) EUR	Other contributions from non-Members (*) EUR
S2R-**OC-CCA-01**-2019	**Noise & Vibration**	RIA TRL 4	1,309,000	1,309,000	0

Number of topic

Who can apply OC (open call) CFM (call for member)

Which area (IP/CCA)

Technology Readiness Level

RIA – Research and Innovation Action (100%) Innovation Action (70%)

Shift2Rail

Technology Readiness Levels definition

Where a topic description refers to a TRL, the following definitions apply, unless otherwise specified:

TRL 1 – basic principles observed

TRL 2 – technology concept formulated

TRL 3 – experimental proof of concept

TRL 4 – technology validated in lab

TRL 5 – technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)

TRL 6 – technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)

TRL 7 – system prototype demonstration in operational environment

TRL 8 – system complete and qualified

 TRL 9 – actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space)

System Test, Launch & Operations — TRL 9, TRL 8

System/Subsystem Development — TRL 7

Technology Demonstration — TRL 6

Technology Development — TRL 5, TRL 4

Research to Prove Feasibility — TRL 3

Basic Technology Research — TRL 2, TRL 1

Shift2Rail
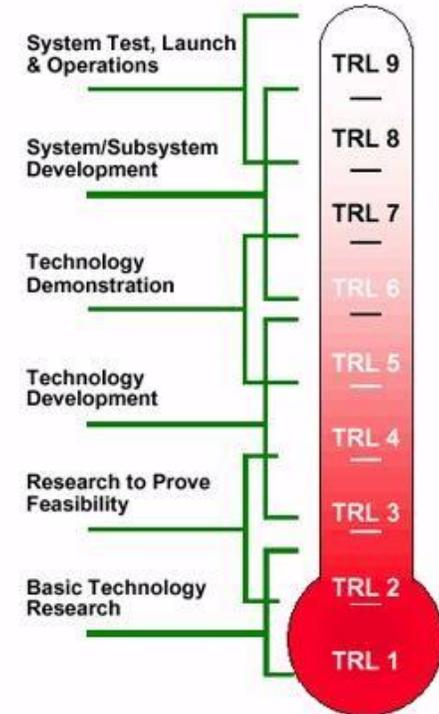
Programme approach, future/current projects

- EACH PROJECT contributes to the **achievement of the Master Plan and the MAAP objectives**

- EACH PROJECT is part of a programme and **cooperation with other projects** must be ensured

  → Through the **collaboration and input to the JU Members,** EACH PROJECT will support the realization of **long-term S2R technological demonstrations or innovative break-through**

- Particular attention is given to ensure that there is **no duplication of work** between EACH PROJECT and current/future R&I activities

- EACH PROJECT results are taken into consideration for the next annual work plans to ensure sufficient **complementarity** and **coherence**

Shift2Rail

Complementarity & Collaboration Agreement

1. Complementary is **defined at topic level**

2. Complementarity between topics is **compulsory established in the Grant Agreement** (need for a Collaboration Agreement)

3. IP/CCA SteCos, high level synchronization points: Project Coordinators may attend the SteeCo meetings as observer and IP Coordinators cooperate with project coordinator to **foster/promote synergies**

4. S2R Programme Managers: Central Contact Point for both projects

Complementarity & Collaboration Agreement

Issues to be tackled in the Collaboration Agreement (COLA) (examples/non-exhaustive list)

- Rules for collaboration, "who does what?"; Point of Contacts etc.

- Handling review of documents

- Agreement on action to be performed by both sides + linked timing (e.g. project A provides "user requirements" by M6 to project B; project B provides input by M18 to project A → project A uses input for deliver their deliverable 2.3).

- Participation to restricted meetings (for specific purpose) or to public meetings (including Advisory Groups, etc…).

Shift2Rail

FOUNDING MEMBERS

- (European Union flag)
- ALSTOM
- Ansaldo STS A Hitachi Group Company
- BOMBARDIER
- CAF
- NetworkRail
- SIEMENS
- THALES
- TRAFIKVERKET

ASSOCIATED MEMBERS

- aMaDEUS
- AŽD PRAHA
- DB
- DIGINEXT be visionary
- Faiveley Transport A Wabtec Company
- HaCon
- indra
- kapsch >>>
- KNORR-BREMSE
- MERMEC AN ANGEL COMPANY
- SNCF
- Talgo

Virtual Vehicle Austria consortium+ (VVAC+)

- virtual vehicle
- WIENER LINIEN
- FCP
- TATRAVAGÓNKA POPRAD
- getzner engineering a quiet future
- AC²T research
- KIRCHDORFER CONCRETE SOLUTIONS
- Plasser & Theurer
- MCL Materials Center Leoben
- voestalpine ONE STEP AHEAD.
- PJM
- AVL

European Rail Operating community Consortium (EUROC)

- ÖBB Immer in Bewegung
- bls
- COMBOIOS DE PORTUGAL
- Liikennevirasto
- PKP POLSKIE KOLEJE PAŃSTWOWE Spółka Akcyjna
- SBB CFF FFS
- ProRail
- Infraestruturas de Portugal
- TCDD
- Slovenske železnice

Swi'Tracken consortium

- RAILENIUM
- Universidad del País Vasco / Euskal Herriko Unibertsitatea
- U.PORTO
- University of Minho
- TATA STEEL
- vossloh
- TRONICO ALCEN
- izt Institut für Zukunftsstudien und Technologiebewertung
- egis
- EURO TUNNEL

Smart DeMain (SDM) consortium

- Strukton Rail
- cemosa
- Fraunhofer IVI
- acciona
- DLR

AERFITEC

- AERnnova
- FIDAMC
- tecnalia Inspiring Business

Competitive Freight Wagon Consortium (CFW)

- ConTraffic Consulting Network for Traffic System
- DLR
- DIE BAHNINDUSTRIE. VDB VERBAND DER BAHNINDUSTRIE IN DEUTSCHLAND E.V.
- ceit IK4 Research Alliance
- WBN

Smart Rail Control (SmartRaCon) consortium

- DLR
- RAILENIUM
- ceit IK4 Research Alliance
- NSL

Shift2Rail

Questions?

[www.Sli.Do](): #S2RCall2019

[info-call@s2r.europa.eu]()

Shift2Rail

IP1: Cost-efficient and reliable trains, including high-capacity trains and high-speed trains

Sébastien DENIS

Programme Manager
Shift2Rail Joint Undertaking

THE NEW GENERATION OF CAR BODY SHELLS

HVAC

INNOVATIVE DOORS

NEW BRAKING SYSTEM
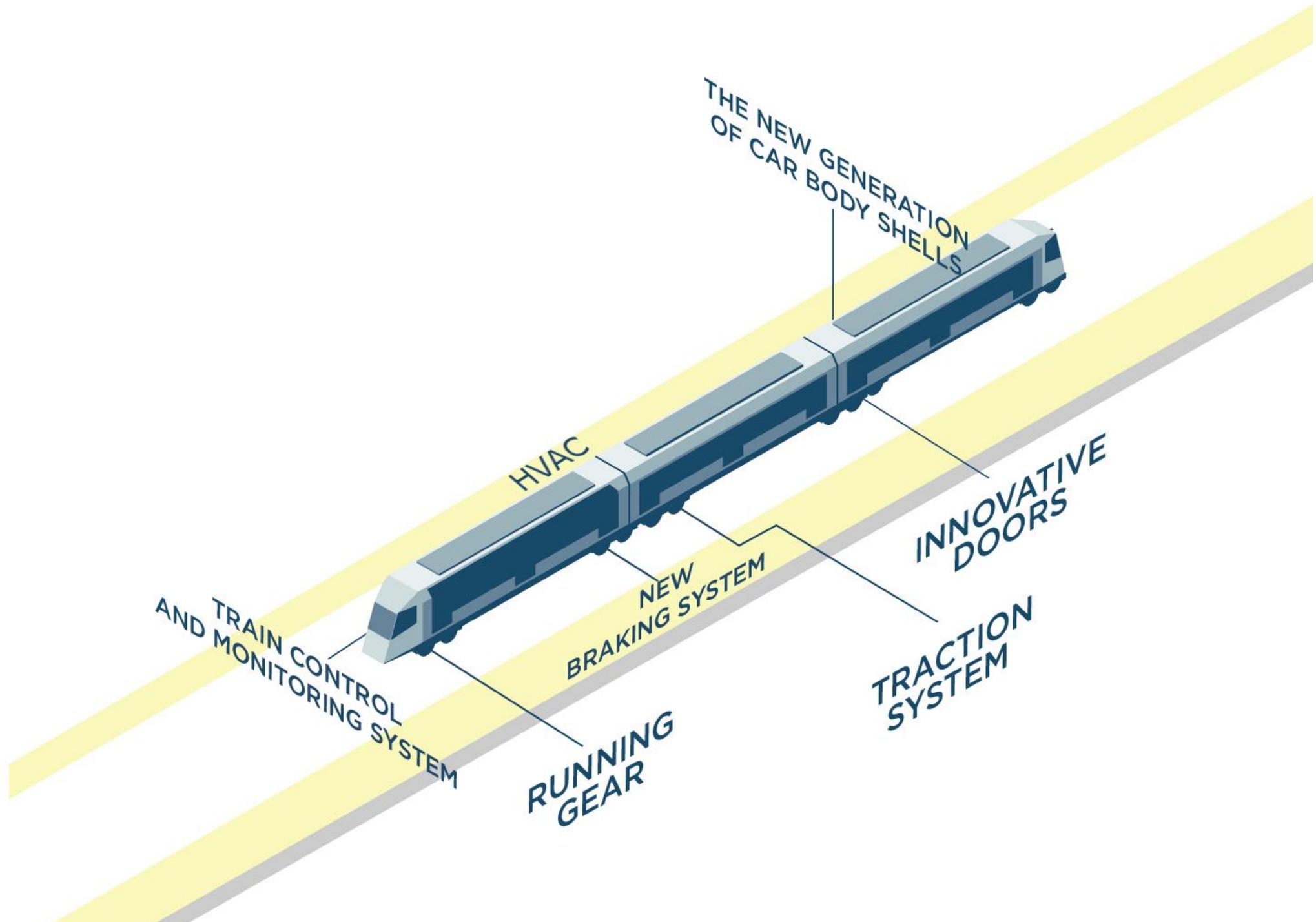
TRACTION SYSTEM

TRAIN CONTROL AND MONITORING SYSTEM

RUNNING GEAR

IP1: Planning of activities per TD

TD1.1 Traction Systems demonstrator

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: Roll2Rail, PINTA

Ongoing: PINTA2

Planned activities

TD1.2 Train Control and Monitoring System Demonstrator

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: Roll2Rail, CONNECTA, SAFE4RAIL

Ongoing: CONNECTA-2, Safe4RAIL-2

Planned activities

TD1.3 Carbody Shell Demonstrator

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: Roll2Rail

Ongoing: PIVOT,Mat4Rail

AWP 2019: CFM + OC

Planned activities

TD1.4 Running Gear Demonstrator

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: Roll2Rail

Ongoing: PIVOT,Run2Rail

AWP 2019: CFM + OC

Planned activities

Shift2Rail

IP1: Planning of activities per TD

TD1.5 Brake Systems Demonstrator

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: Roll2Rail, CONNECTA, SAFE4RAIL,PINTA

Ongoing: PIVOT, PINTA-2

AWP 2019: CFM, OC

TD1.6: Doors and Access Systems Demonstrator

2015	2016	2017	2018	2019	2020	2021	2022	...

Ongoing: PIVOT,Mat4Rail

AWP 2019: CFM, OC

TD1.7: Train Modularity In Use (TMIU)

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: Roll2Rail

Ongoing: PIVOT,Mat4Rail

AWP 2019: CFM, OC

TD1.8: HVAC

2015	2016	2017	2018	2019	2020	2021	2022	...

AWP 2019: CFM

Planned activities

Shift2Rail

IP1: Open Calls 2019

Topic number - IP	Topic name	Expected TRL	Type of action	Maximum S2R Co-funding EUR	Complementarity
S2R-OC-**IP1-01**-2019	**Advanced Car body shells for railways and light material and innovative doors and train modularity**	5/6	RIA	3,550,000	▪ S2R-CFM-IP1-01-2019: Development of new technological concepts towards the next generation of rolling stock, applied to major subsystems such as Car body, Running Gear, Brakes, Doors, Modular interiors and HVAC. ▪ PIVOT (GA 777629)
S2R-OC-**IP1-02**-2019	**Tools, methodologies and technological development of next generation of Running Gear**	5/6	RIA	2,580,000	▪ S2R-CFM-IP1-01-2019 ▪ PIVOT (GA 777629) ▪ IMPACT-2 (GA 777513)
S2R-OC-**IP1-03**-2019	**Support to the development of technical demonstrators for the next generation of brake systems**	4	RIA	2,130,000	▪ S2R-CFM-IP1-01-2019 ▪ PIVOT (GA 777629)

Questions?

www.Sli.Do: #S2RCall2019

info-call@s2r.europa.eu

Shift2Rail

IP2: Advanced Traffic Management and Control Systems

Léa PATIES

Programme Manager
Shift2Rail Joint Undertaking

Shift2Rail

SAFE TRAIN POSITIONNING

CYBER SECURITY
ZERO ON SITE TESTING
SMART PROCUREMENT

VIRTUAL COUPLING

NEXT GENERATION COMMUNICATION SYSTEM

ATO

TRAIN INTEGRITY

MOVING BLOCK
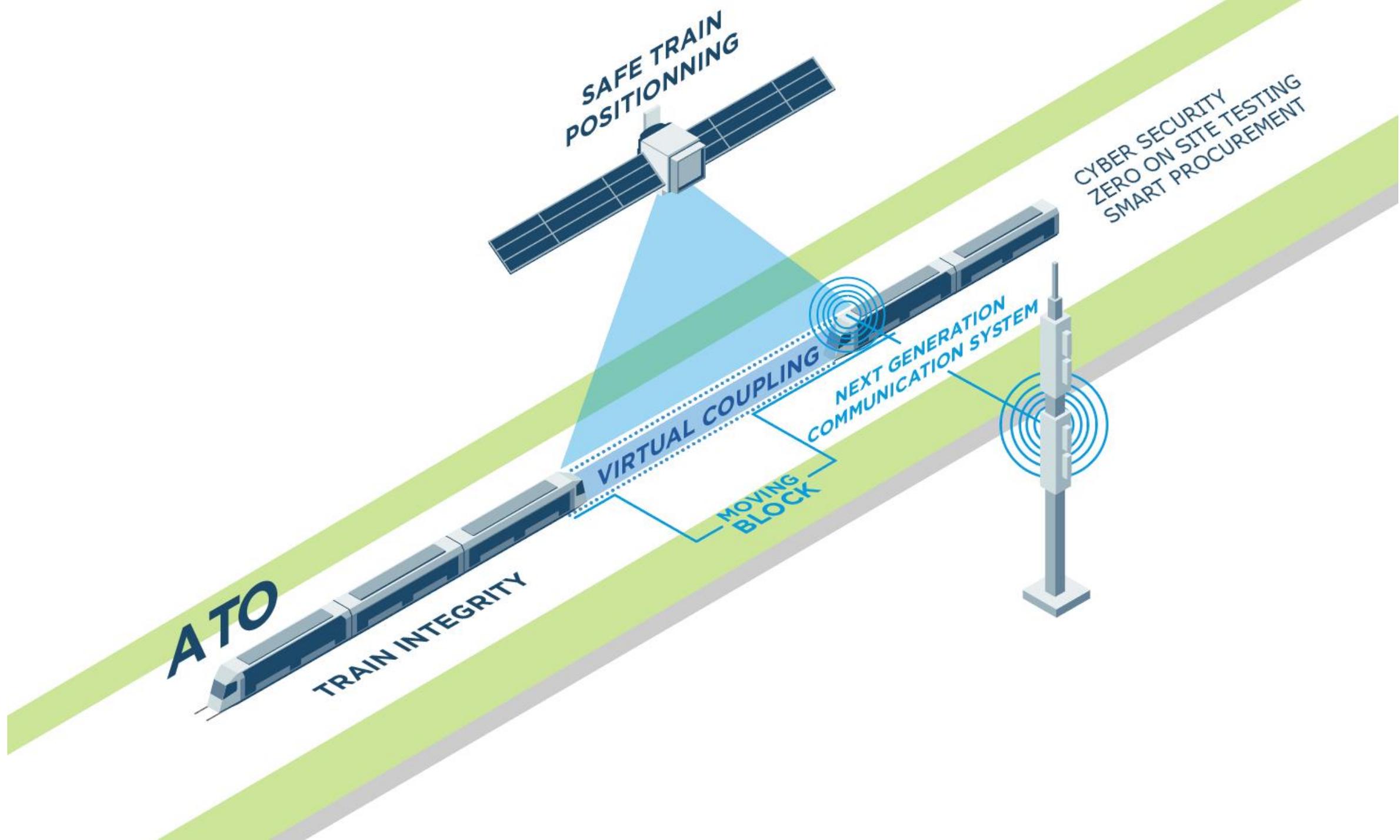
IP2: Planning of activities per TD

TD2.1: Adaptable communications for all railways (quality of service, interfaces to signalling)

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: MISTRAL

Ongoing: X2Rail-1, X2Rail-3, EMULRADIO4RAIL

Planned Activities

TD2.2: Railway network capacity increase (ATO up to GoA4 – UTO)

2015	2016	2017	2018	2019	2020	2021	2022	...

Ongoing: X2Rail-1, ASTRail

AWP 2019: CFM

TD2.3 Moving Block

2015	2016	2017	2018	2019	2020	2021	2022	...

Ongoing: X2Rail-1, ASTRail, X2Rail-3, MOVINGRAIL

Planned Activities

TD2.4: Fail-Safe Train Positioning (including satellite technology)

2015	2016	2017	2018	2019	2020	2021	2022	...

Ongoing: X2Rail-2; ASTRail, GATE4Rail

Planned Activities

Shift2Rail

IP2: Planning of activities per TD

TD2.5: On-board Train Integrity								
2015	2016	2017	2018	2019	2020	2021	2022	...

Ongoing: X2Rail-2; ETALON

AWP 2019: CFM

Planned Activities

TD2.6: Zero on-site testing (control command in lab demonstrators)								
2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: VITE

Ongoing: X2Rail-1, X2Rail-3, GATE4Rail

Planned activities

TD2.7: Formal methods and standardisation for smart signalling systems								
2015	2016	2017	2018	2019	2020	2021	2022	...

Ongoing: X2Rail-2; ASTRail

AWP 2019: CFM,OC

Planned activities

TD2.8: Virtually – Coupled Train Sets (VCTS)								
2015	2016	2017	2018	2019	2020	2021	2022	...

Ongoing: X2Rail-3, MOVINGRAIL

Shift2Rail

IP2: Planning of activities per TD

TD2.9: Traffic management evolution

2015	2016	2017	2018	2019	2020	2021	2022	...

Ongoing: X2Rail-2

AWP 2019: CFM, OC

TD2.10: Smart radio-connected all-in-all wayside objects

2015	2016	2017	2018	2019	2020	2021	2022	...

Ongoing: X2Rail-1, ETALON

AWP 2019: CFM

TD2.11: Cyber Security

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: CYRAIL

Ongoing: X2Rail-1

AWP 2019: CFM, OC

Planned activities

Shift2Rail

IP2: Open Calls 2019

Topic number - IP	Topic name	Expected TRL	Type of action	Maximum S2R co-funding EUR	Complementarity
S2R-OC-**IP2-01**-2019	**Demonstrator development for the use of Formal Methods in railway environment and Support to implementation of CSIRT to the railway sector**	4/5	RIA	550,000	▪ X2RAIL-3 (GA 826141) ▪ X2RAIL-2 (GA 777465).
S2R-OC-**IP2-02**-2019	**Support to development of demonstrator platform for Traffic Management**	6/7	IA	1,900,000	▪ S2R-CFM-IP2-01-2019: Completion of activities for enhanced automation systems (including Freight ATO GoA4), train integrity, object controller. ▪ S2R-CFM-CCA-01-2019: Integrated mobility management (I2M), Energy and Noise & Vibration.

Questions?

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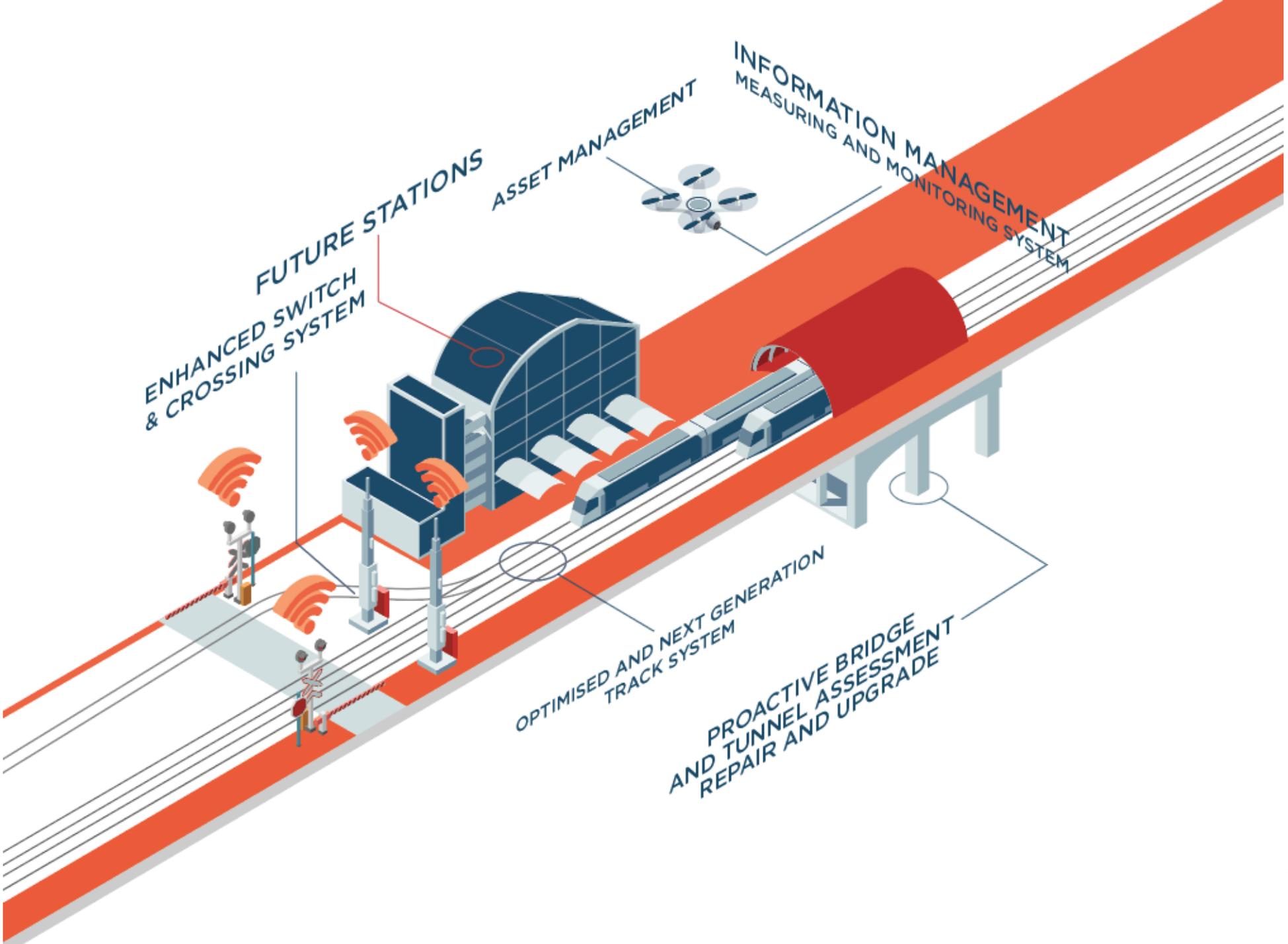
IP3: Cost-Efficient and Reliable High-Capacity Infrastructure

Nikolaos ATHANASOPOULOS

Programme Manager

Shift2Rail Joint Undertaking

Shift2Rail

FUTURE STATIONS

ENHANCED SWITCH
& CROSSING SYSTEM

ASSET MANAGEMENT

INFORMATION MANAGEMENT
MEASURING AND MONITORING SYSTEM

OPTIMISED AND NEXT GENERATION
TRACK SYSTEM

PROACTIVE BRIDGE
AND TUNNEL ASSESSMENT
REPAIR AND UPGRADE

IP3: Planning of activities per TD

TD3.1 Enhanced Switch & Crossing System

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: In2Rail (04/18)

Ongoing: IN2TRACK, IN2TRACK2

Planned Activities

TD3.2 Next Generation Switch & Crossing System

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: In2Rail (04/18)

Ongoing: S-CODE, IN2TRACK2

Planned Activities

TD3.3 Optimised Track System

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: In2Rail (04/18)

Ongoing: IN2TRACK, IN2TRACK2

Planned Activities

TD3.4 Next Generation Track System

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: In2Rail

Ongoing: IN2TRACK2

Planned Activities

Shift2Rail

IP3: Planning of activities per TD

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

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: In2Rail

Ongoing: IN2TRACK, IN2TRACK2, Assets4Rail

Planned Activities

TD3.6 Dynamic Railway Information Management System (DRIMS)

2015	2016	2017	2018	2019	2020	2021	2022	...

Ongoing: IN2SMART, IN2DREAMS

AWP 2019: CFM

Planned Activities

TD3.7 Railway Integrated Measuring and Monitoring System (RIMMS)

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: In2Rail

Ongoing: IN2SMART, MOMIT, Assets4Rail

AWP 2019: CFM

Planned Activities

TD3.8 Intelligent Asset Management Strategies (IAMS)

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: In2Rail

Ongoing: IN2SMART

AWP 2019: CFM

Planned Activities

IP3: Planning of activities per TD

TD3.9 Smart Power Supply

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: In2Rail

Ongoing: IN2STEMPO

AWP 2019: OC

Planned Activities

TD3.10 Smart Metering for Railway Distributed Energy Resource Management System

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: In2Rail

Ongoing: IN2STEMPO, In2Dreams

TD3.11 Future Stations

2015	2016	2017	2018	2019	2020	2021	2022	...

Ongoing: In2Stempo, FAIR Stations

Shift2Rail

IP3: Open Calls 2019

Topic number - IP	Topic name	Expected TRL	Type of action	Maximum S2R Co-funding EUR	Complementarity
S2R-OC-**IP3-01**-2019	**Future traction power supply for railways and public transport**	3/4	RIA	750,000	IN2STEMPO (GA 777515)

Questions?

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IP4: IT Solutions for Attractive Railway Services

Esther BRAVO

Programme Manager

Shift2Rail Joint Undertaking

TRAVEL SHOPPING

TRIP-TRACKER

TRAVEL COMPANION

BOOKING AND TICKETING

BUSINESS ANALYTICS

INTEROPERABILITY FRAMEWORK

IP4: Planning of activities per TD

TD 4.1 Interoperability Framework

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: IT2RAIL, GOF4R, ST4RT

Ongoing: CONNECTIVE, SPRINT

AWP 2019: OC

TD4.2 Travel Shopping

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: IT2RAIL

Ongoing: Co-Active, MaaSive

AWP 2019: OC

Planned activities

TD4.3 Booking and Ticketing

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: IT2RAIL

Ongoing: Co-Active, MaaSive

AWP 2019: OC

Planned activities

TD4.4 Trip Tracker

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: IT2RAIL

Ongoing: ATTRACkTIVE, My-TRAC, MaaSive

AWP 2019: OC

Planned activities

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IP4: Planning of activities per TD

IP4: Open Calls 2019

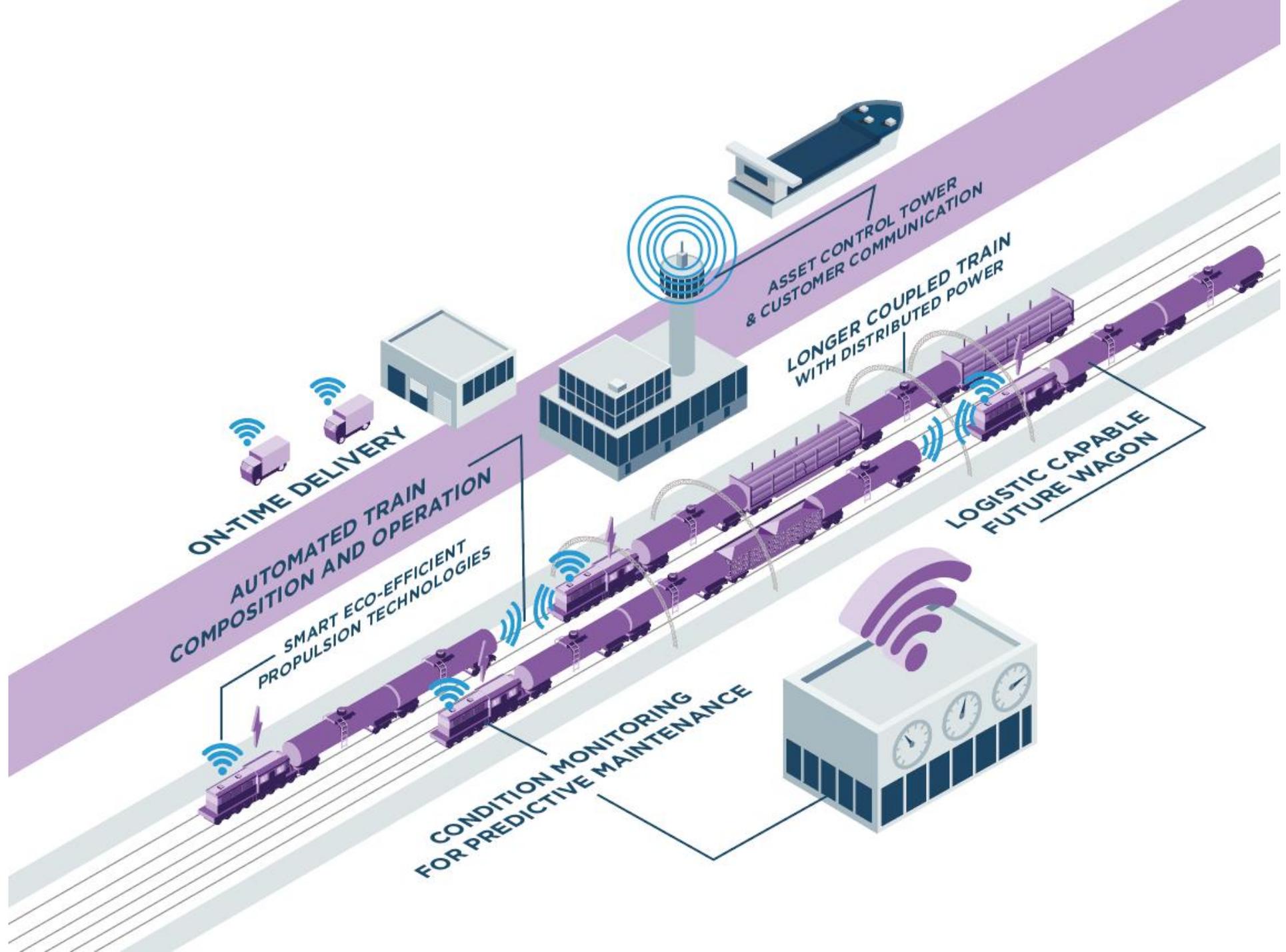| Topic number - IP	Topic name	Expected TRL	Type of action	Maximum S2R Co-funding EUR	Complementarity
S2R-OC-**IP4-01-**2019	**Complementary Travel Expert Services**	5	RIA	3,000,000	• MaaSive (GA 826385) • COHESIVE (GA777599) • CONNECTIVE (GA 777522)

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Questions?

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IP5: Technologies for Sustainable & Attractive European Rail Freight

Lucas GARVIA

Programme Manager

Shift2Rail Joint Undertaking

ASSET CONTROL TOWER & CUSTOMER COMMUNICATION

LONGER COUPLED TRAIN WITH DISTRIBUTED POWER

ON-TIME DELIVERY

AUTOMATED TRAIN COMPOSITION AND OPERATION

SMART ECO-EFFICIENT PROPULSION TECHNOLOGIES

LOGISTIC CAPABLE FUTURE WAGON

CONDITION MONITORING FOR PREDICTIVE MAINTENANCE

IP5: Planning of activities per TD

TD5.1 Fleet Digitalisation and Automation

2015	2016	2017	2018	2019	2020	2021	2022	...

ARCC, SMART, FR8RAIL, INNOWAG, FR8HUB, FR8RAIL II

AWP 2019: CFM, OC

Planned Activities

TD5.2 Digital Transport management

2015	2016	2017	2018	2019	2020	2021	2022	...

Ongoing: ARCC, SMART, OPTIYARD, FR8HUB, FR8RAIL II

AWP 2019: CFM

TD5.3 Smart Freight Wagon Concepts

2015	2016	2017	2018	2019	2020	2021	2022	...

Ongoing: FR8RAIL, INNOWAG, FR8RAIL II

AWP 2019: CFM

Planned Activities

Shift2Rail

IP5: Planning of activities per TD

TD 5.4 New Freight Propulsion Concepts

2015	2016	2017	2018	2019	2020	2021	2022	...

Fin: DYNAFREIGHT

Ongoing: FFL4E, FR8HUB, FR8RAIL II, M2O

AWP 2019: CFM

Planned Activities

TD 5.5 – Business analytics and implementation strategies

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: SMART-RAIL

Ongoing: FR8RAIL, INNOWAG, FR8HUB

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IP5: Open Calls 2019

| Topic number - IP	Topic name	Expected TRL	Type of action	Maximum S2R Co-funding EUR	Complementarity
S2R-OC-**IP5-01**-2019	**Condition-based and preventive maintenance for locomotive bogie**	5/6	RIA	1,500,000	▪ FR8HUB (GA 777402) ▪ FR8RAIL (GA 730617)
S2R-OC-**IP5-02**-2019	**Advanced obstacle detection and track intrusion system for autonomous freight train**	6/7	IA	1,500,000	▪ S2R-CFM-IP2-01-2019: Completion of activities for enhanced automation systems (including Freight ATO GoA4), train integrity, object controller.

Questions?

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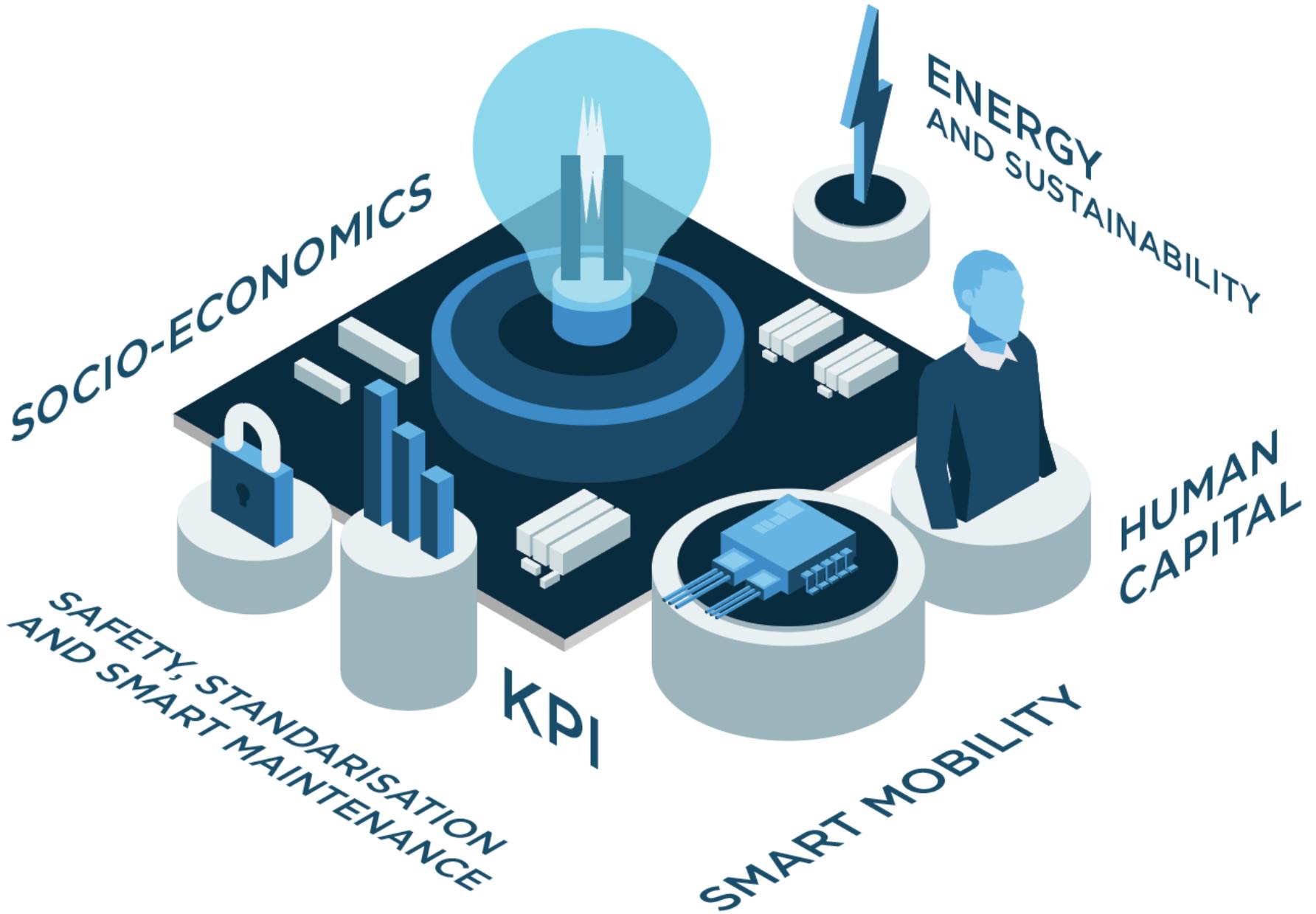
CCA: Planning of activities per TD

WA1 Long-term needs and socio-economic research & SPD's								
2015	2016	2017	2018	2019	2020	2021	2022	...

Fin: IMPACT-1, NEAR2050

Ongoing: IMPACT-2

Planned activities

WA2 KPI method and integrated assessment								
2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: Roll2Rail, IMPACT-1

Ongoing: Tender KPIs, IMPACT-2

WA3 Safety, Standardisation, Maintanance, Materials, Virtual Certification								
2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: PLASA

Ongoing: GoSAFE RAIL, IMPACT-2, SMaRTE, PLASA-2

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CCA: Planning of activities per TD

WA4 Smart Planning, I2M

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: IN2RAIL, PLASA

Ongoing: GoSAFE RAIL, IMPACT-2, PLASA-2

AWP 2019: CFM

WA5 Energy and sustainability

2015	2016	2017	2018	2019	2020	2021	2022	...

Finished: Roll2Rail, DESTINATE

Ongoing: FINE 1, OPEUS

AWP 2019: CFM, OC

Planned activities

WA6 Human Capital

2015	2016	2017	2018	2019	2020	2021	2022	...

Tender HC

Ongoing: IMPACT-2, SMaRTE

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CCA: Open Calls 2019

Topic number - IP	Topic name	Expected TRL	Type of action	Maximum S2R co-funding EUR	Complementarity
S2R-OC-**CCA-01-**2019	**Noise & Vibration**	4	RIA	1,309,000	▪ S2R-CFM-CCA-01-2019: Integrated mobility management (I2M), Energy and Noise & Vibration. ▪ FINE-1 (GA 730818)

Questions?

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IPX

Giorgio TRAVAINI

Head of Research & Innovation

S2R Joint Undertaking

Shift2Rail

IPX: Open Calls 2019

Topic number - IP	Topic name	Expected TRL	Type of action	Maximum S2R co-funding EUR	Complementarity
S2R-OC-**IPX-01-**2019	**Artificial Intelligence (A.I.) for the railway sector**	2/3	RIA	300,000	-
S2R-OC-**IPX-02-**2019	**Breaking language barriers**	5 - 7	RIA*	250,000	-

*in this specific topic the minimum condition shall be the participation of one legal entity established in a Member State or Associated Country.

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Questions?

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Lunch
Panoramic Hall, 5th floor

Afternoon programme

	Hall 400, 4th floor	Panoramic Hall, 5th floor
14:00-18:00	**Pitch-Matchmaking Session**	**Shift2Rail Market Place**
		Video Presentations on Legal and Financial Guidlines

Shift2Rail