



Shift2Rail Info Day 2019

6 February 2019 - Brussels

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

LIVE POLL!

Opening address

Elisabeth WERNER

Director of Land Transport

DG Mobility & Transport, European Commission

Opening address

Clara DE LA TORRE

Director of Transport

DG Research & Innovation, European Commission

Questions?

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

info-call@s2r.europa.eu

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](https://twitter.com/S2RCall2019)

info-call@s2r.europa.eu

E T N A
2 0 2 0

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)  | 9) TSB  |
| 2) ASE  | 10) IPPT PAN  |
| 3) ABAE  | 11) ISERD  |
| 4) CDTI  | 12) FORTH  |
| 5) CVTISR  | 13) RPF  |
| 6) EI  | 14) RTU  |
| 7) FCT  | 15) RVO  |
| 8) IFSTTAR  | 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.



ETNA 2020 SERVICES FOR NCPs & STAKEHOLDERS



The screenshot shows the ETNA 2020 website interface. At the top, there is a navigation bar with the ETNA 2020 logo and a tagline: "The network of the Horizon 2020 National Contact Points for 'Smart, Green and Integrated Transport'". Below this, there are several service icons: "Find your NCP", "EU transport landscape", "Partner searches", "Events & trainings", "Toolbox", "Funding Map Database", and "NCP Twinning". The "Funding Map Database" icon is highlighted. The main content area shows the search filters for the "FUNDING MAP DATABASE". The filters include:

- ELIGIBLE COUNTRY:** A dropdown menu with "Austria" selected.
- TRANSPORT MODE:** A link to "show options".
- APPLICANT TYPE *:**
 - Company - Large Company (>SME)
 - Company - SME
 - Individual
 - Other Associations
 - Public Body
 - Research Organisation
 - University/Higher education
- PROJECT TYPE *:**
 - All
 - Applied Research
 - Basic Research
 - Commercialisation-Exploitation - Market Up-take/Deployment
 - Policy / Strategic Studies
 - Product-Service Development / Demonstration
 - Research Infrastructure
 - Researcher Training & Mobility
 - Tender / Public procurement
- PARTNERS *:**
 - Collaboration
 - Single Applicant
- FUNDING TYPE *:**
 - Equity Investment
 - Grant
 - Loan

At the bottom, there is a search button and a note: "fields marked (*) are required".

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?

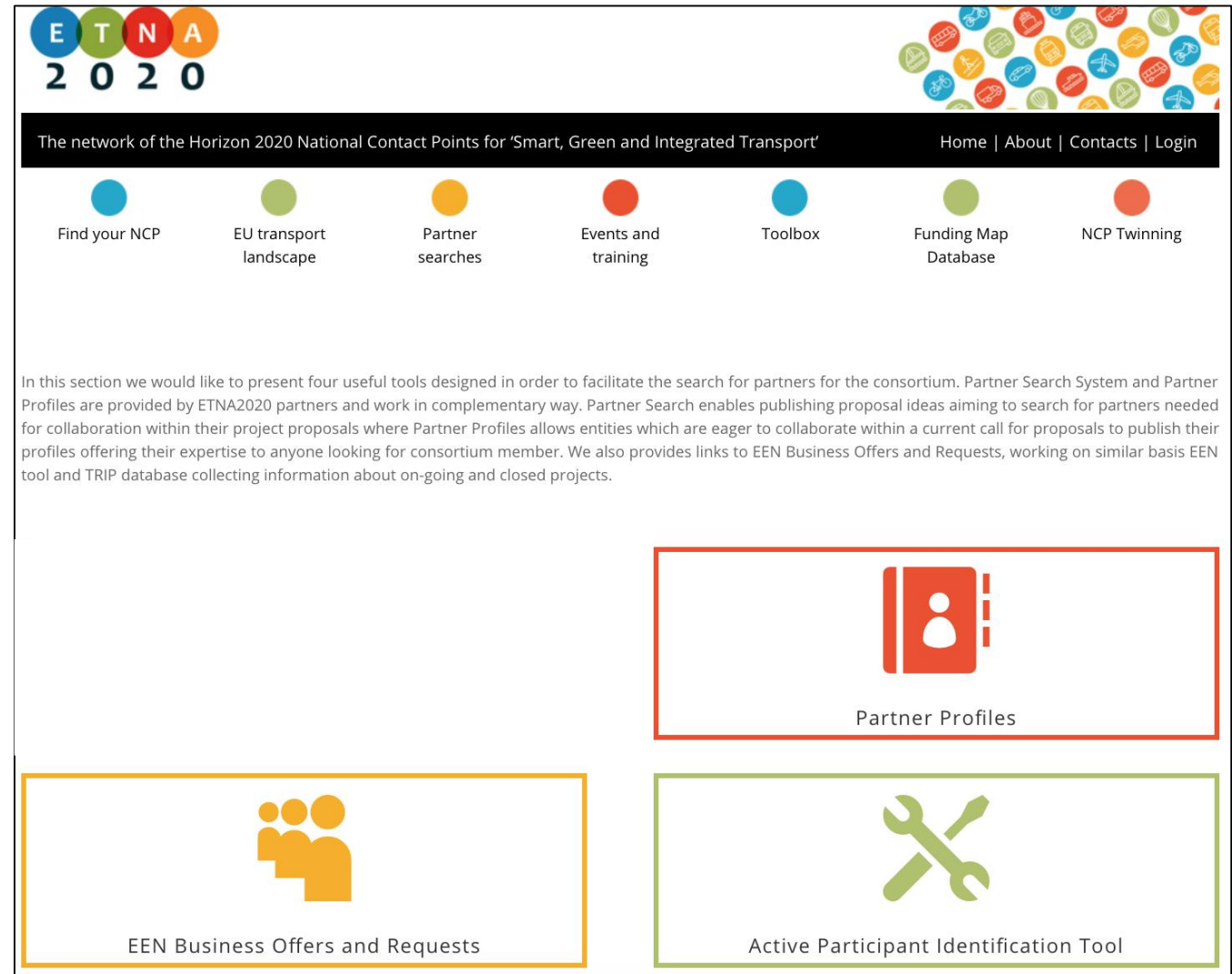
- **NCPs** as time saver, redirecting clients that have ideas but are not familiar with the landscape
- **Seasoned participant** to widen the reach as preferred funding opportunities might not prioritise complementary activities
- **a new/ inexperienced** participant to familiarise with the priorities of a wide array of funding programmes



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/>




The network of the Horizon 2020 National Contact Points for 'Smart, Green and Integrated Transport' Home | About | Contacts | Login

Find your NCP
EU transport landscape
Partner searches
Events and training
Toolbox
Funding Map Database
NCP Twinning


In this section we would like to present four useful tools designed in order to facilitate the search for partners for the consortium. Partner Search System and Partner Profiles are provided by ETNA2020 partners and work in complementary way. Partner Search enables publishing proposal ideas aiming to search for partners needed for collaboration within their project proposals where Partner Profiles allows entities which are eager to collaborate within a current call for proposals to publish their profiles offering their expertise to anyone looking for consortium member. We also provides links to EEN Business Offers and Requests, working on similar basis EEN tool and TRIP database collecting information about on-going and closed projects.



EEN Business Offers and Requests



Partner Profiles



Active Participant Identification Tool



ETNA 2020 SERVICES FOR NCPs & STAKEHOLDERS




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

[Home](#) | [About](#) | [Contacts](#) | [Login](#)

-  Find your NCP
-  EU transport landscape
-  Profiles Database
-  Events and training
-  Toolbox
-  Funding Map Database
-  NCP Twinning

ETNA 2020 Team would like to present few useful tools from our Toolbox. Here you will find ETNA 2020 factsheets (about PCPs, JTIs, SME Instrument, IPR and many more), already published issues of ETNA 2020 Newsletter and periodic reports of ETNA 2020 project.

We would also like to invite you to use our great repository of documents concerning European R&I Area. Just choose transport mode which is interesting for you and get familiar with them.

ETNA2020 Factsheets And Leaflets 

ETNA 2020 Newsletter 

ETNA 2020 Project Reports 

European Transport Organisations 

European Transport Document Repository 

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



ETNA 2020 SERVICES FOR NCPs & STAKEHOLDERS

EUROPEAN TRANSPORT ORGANISATIONS

European Transport Organisations

There are many European organisations that are involved in research, development and innovation that are relevant to the transport domain. Some of these are very pertinent to academia, some to industry and some to any and all involved in European framework programmes. This tool should enable you to identify what the roles of the different organisations are and which organisations are the ones that you should be engaging with for different purposes.

Type of organisation *

make a choice

Type of membership *

make a choice

Sector *

- Aerospace/Aviation
- Automotive/Road
- Freight/Logistics
- Rail
- Waterborne/Maritime
- Urban Mobility/Smart Cities
- Infrastructure
- Intelligent Transport Systems
- Other

All

Activity Type *

make a choice

fields marked (*) are required

ACARE

ACEA

ACEM

AEA

AET

ALICE

ASD

ASECAP

EAPA

CEDR

Civitas

Clean Sky JU

CLEPA

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





ETNA 2020 SERVICES FOR NCPs & STAKEHOLDERS

EUROPEAN TRANSPORT DOCUMENT REPOSITORY

European Transport Document Repository

toolbox

toolbox

- AVIATION
- CROSS CUTTING
- ITS AND CONNECT...
- LOGISTICS
- MARITIME
- RAIL
- ROAD
- URBAN MOBILITY

Title	Size	Hits	Date added	Download
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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

The screenshots show the ETNA 2020 Brokerage Event web pages for three different events:

- Top Screenshot:** ETNA 2020 Brokerage Event @ TRA2016, Warsaw, Poland, 21st April 2016. The page features a navigation menu (Home, Participants, Bilateral Meetings, Oral Presentations, General Information, Contact) and a registration status of 'closed since 21 Mar 2016'. It also lists organizers: ETNA 2020 and Enterprise Europe Network.
- Middle Screenshot:** ILA Business Days 2016, Berlin, 1-3 June 2016. The page features a navigation menu (Home, Participants, Business Meetings, Business Sessions, Tours, Atmosphere in the Capital Region, Partner Events, Contact) and a registration status of 'closed since 21 Mar 2016'. It also lists organizers: ETNA 2020 and Enterprise Europe Network.
- Bottom Screenshot:** ETNA 2020 Brokerage Event @ Be Smart, Think Blue Conference 2016, Gdansk, Poland, 20th September 2016. The page features a navigation menu (Home, Participants, Bilateral Meetings, Oral Presentations, General Information) and a registration status of 'closed since 25 Aug 2016'. It also lists organizers: ETNA 2020 and Enterprise Europe Network. A 'SCHEDULE' table is visible:

Activity	Date
Registration	4 Jul - 25 Aug
Meeting Selection	26 Aug - 21 Sep
Event	28 Sep

Additional details from the bottom screenshot include: 'Are you interested in: submitting a proposal for "Smart, green and integrated Transport" challenge of Horizon 2020? building your consortium of excellent partners from industry and academia now! Do not miss the following opportunity: Within the Framework of the EC Transport infoday the project ETNA 2020 is organizing a networking and brokerage event - jointly supported by ETNA 2020 and Enterprise Europe Network - focusing on the topics covered by the Transport Work Programme 2017. The networking and brokerage event will take place the 28th of September in Brussels.' The 'DETAILS' section shows Language: English and Costs: Free of charge.





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)



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 29 th 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 Kovačić Lukman	Zbigniew Turek	Mikel Borrás/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 Kovačić 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	Nicolas Blanc/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-Drnje/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 Kovačić 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](https://twitter.com/ETNA2020network)






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*

E T N A
2 0 2 0

Focus: Matchmaking session

PITCH





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 convincingly 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.](https://twitter.com/ETNA2020network)

etna2020@apre.it

Thank you for the attention

Questions?

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

info-call@s2r.europa.eu

Coffee Break

Panoramic Hall, 5th floor

After the break

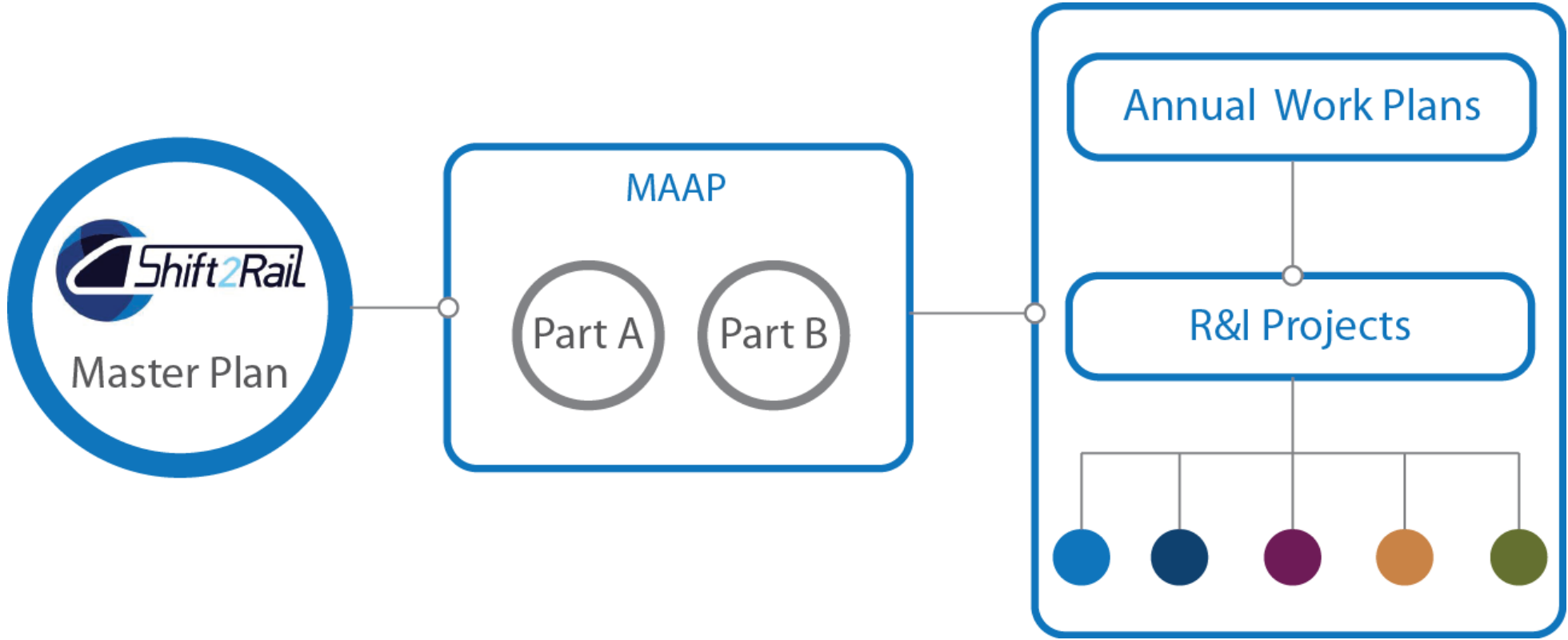
	Hall 400, 4 th floor
11:00-12:45	<ul style="list-style-type: none">• Presentation of the Call for Proposals 2019• Presentation of the activities of each Innovation Programme

Annual Work Plan 2019 topics and S2R Programme specificities

Giorgio TRAVAINI

Head of Research & Innovation
S2R Joint Undertaking

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
<i>S2R Maximum Co-funding</i>	76.8	57.5	19.3
<i>In-Kind Contribution</i>	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

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%)

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

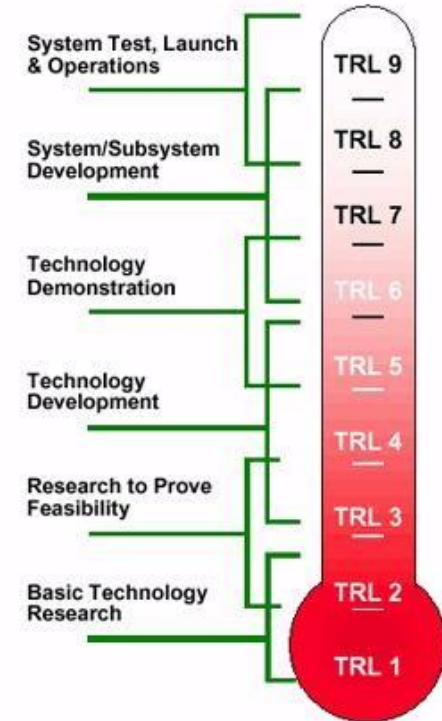
TRL 5 – technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)

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)



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**

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...).

FOUNDING MEMBERS



ALSTOM

Ansaldo STS A Hitachi Group Company

BOMBARDIER

CAF

NetworkRail

SIEMENS

THALES

TRAFIKVERKET

ASSOCIATED MEMBERS



Virtual Vehicle Austria consortium+ (VVAC+) European Rail Operating community Consortium (EUROC) Swi'Tracken consortium Smart DeMain (SDM) consortium



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



Questions?

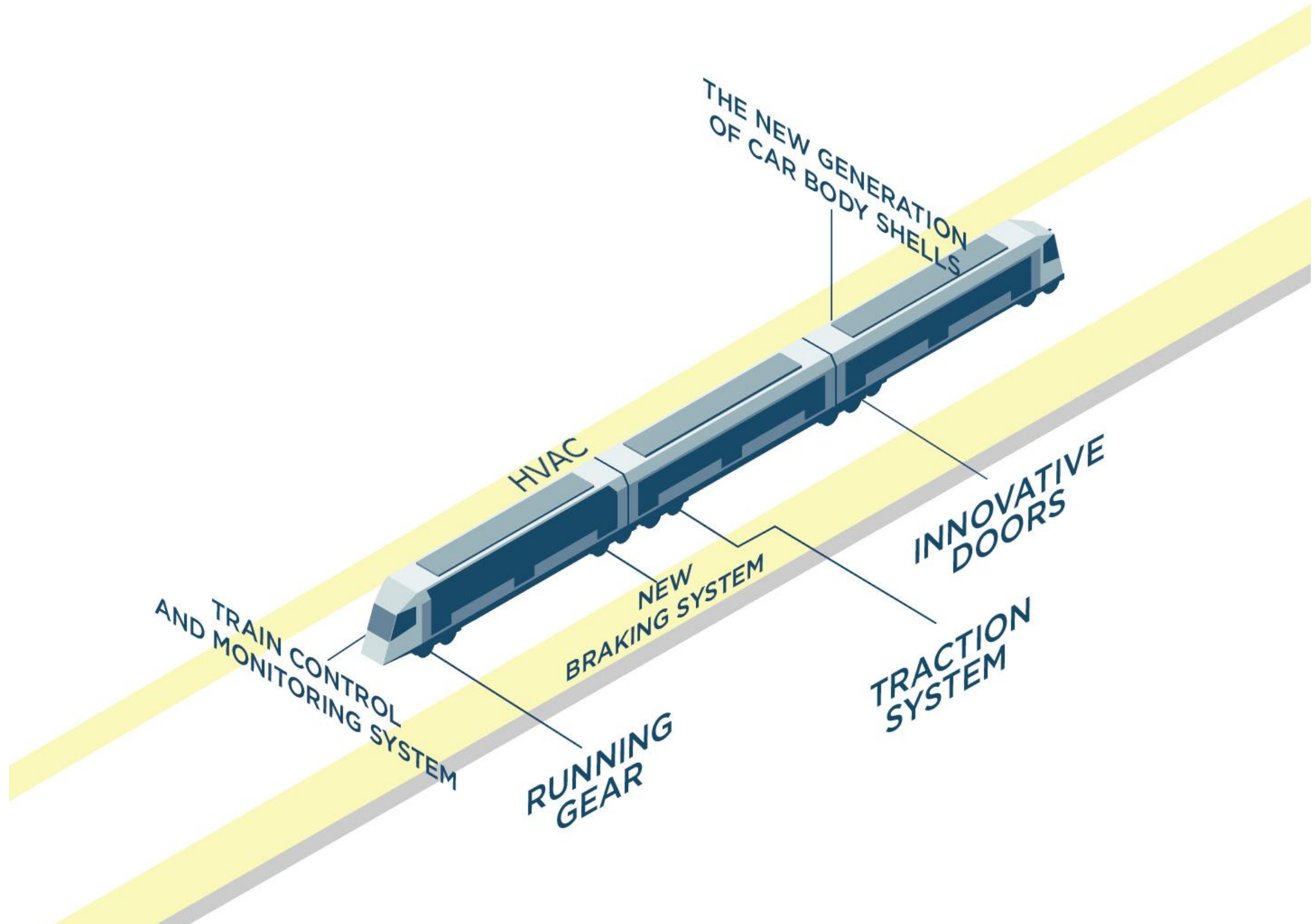
[#S2RCall2019](http://www.Sli.Do)

info-call@s2r.europa.eu

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

Sébastien DENIS

Programme Manager
Shift2Rail Joint Undertaking



TRAIN CONTROL
AND MONITORING SYSTEM

RUNNING
GEAR

HVAC

NEW
BRAKING SYSTEM

TRACTION
SYSTEM

INNOVATIVE
DOORS

THE NEW GENERATION
OF CAR BODY SHELLS

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	

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		

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	<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ S2R-CFM-IP1-01-2019 ▪ PIVOT (GA 777629)

Questions?

www.Sli.Do: [#S2RCall2019](https://twitter.com/S2RCall2019)

info-call@s2r.europa.eu

IP2: Advanced Traffic Management and Control Systems

Léa PATIES

Programme Manager
Shift2Rail Joint Undertaking

SAFE TRAIN
POSITIONING



CYBER SECURITY
ZERO ON SITE TESTING
SMART PROCUREMENT

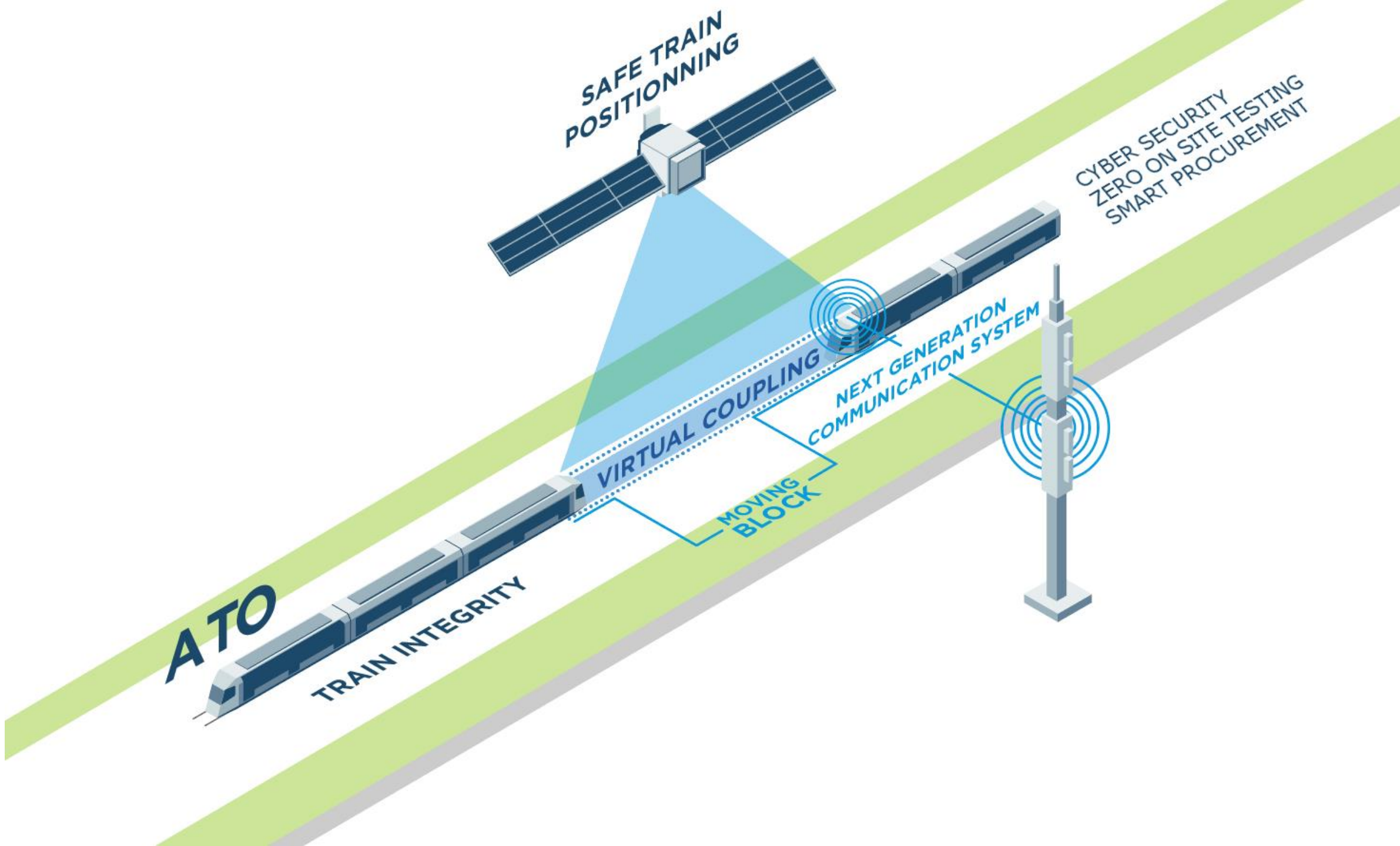
ATO

TRAIN INTEGRITY

VIRTUAL COUPLING

MOVING
BLOCK

NEXT GENERATION
COMMUNICATION SYSTEM



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		

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					

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			

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	<ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ 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?

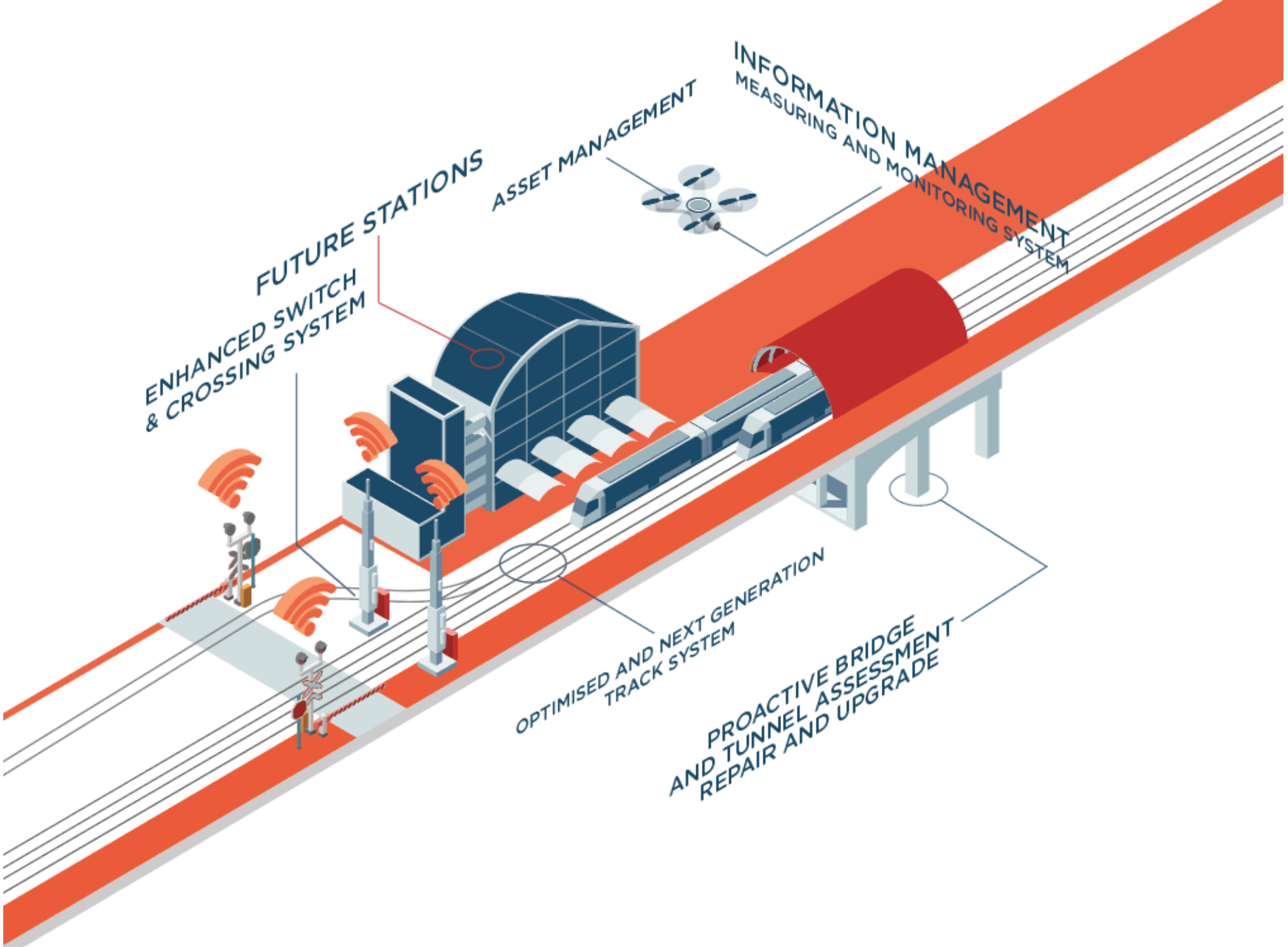
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IP3: Cost-Efficient and Reliable High-Capacity Infrastructure

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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			

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			

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

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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								

IP4: Planning of activities per TD

TD4.5 Travel Companion								
2015	2016	2017	2018	2019	2020	2021	2022	...
Finished: IT2RAIL			Ongoing: ATTRACKTIVE, My-TRAC, MaaSive			AWP 2019: OC		Planned activities

TD4.6 Business Analytics								
2015	2016	2017	2018	2019	2020	2021	2022	...
Finished: IT2RAIL, GOF4R, ST4RT			Ongoing: CONNECTIVE					

TD4.7 Integrated Technical Demonstrator								
2015	2016	2017	2018	2019	2020	2021	2022	...
Finished: IT2RAIL			Ongoing: COHESIVE, SPRINT, Shift2MaaS					



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	<ul style="list-style-type: none">• MaaSive (GA 826385)• COHESIVE (GA777599)• CONNECTIVE (GA 777522)

Questions?

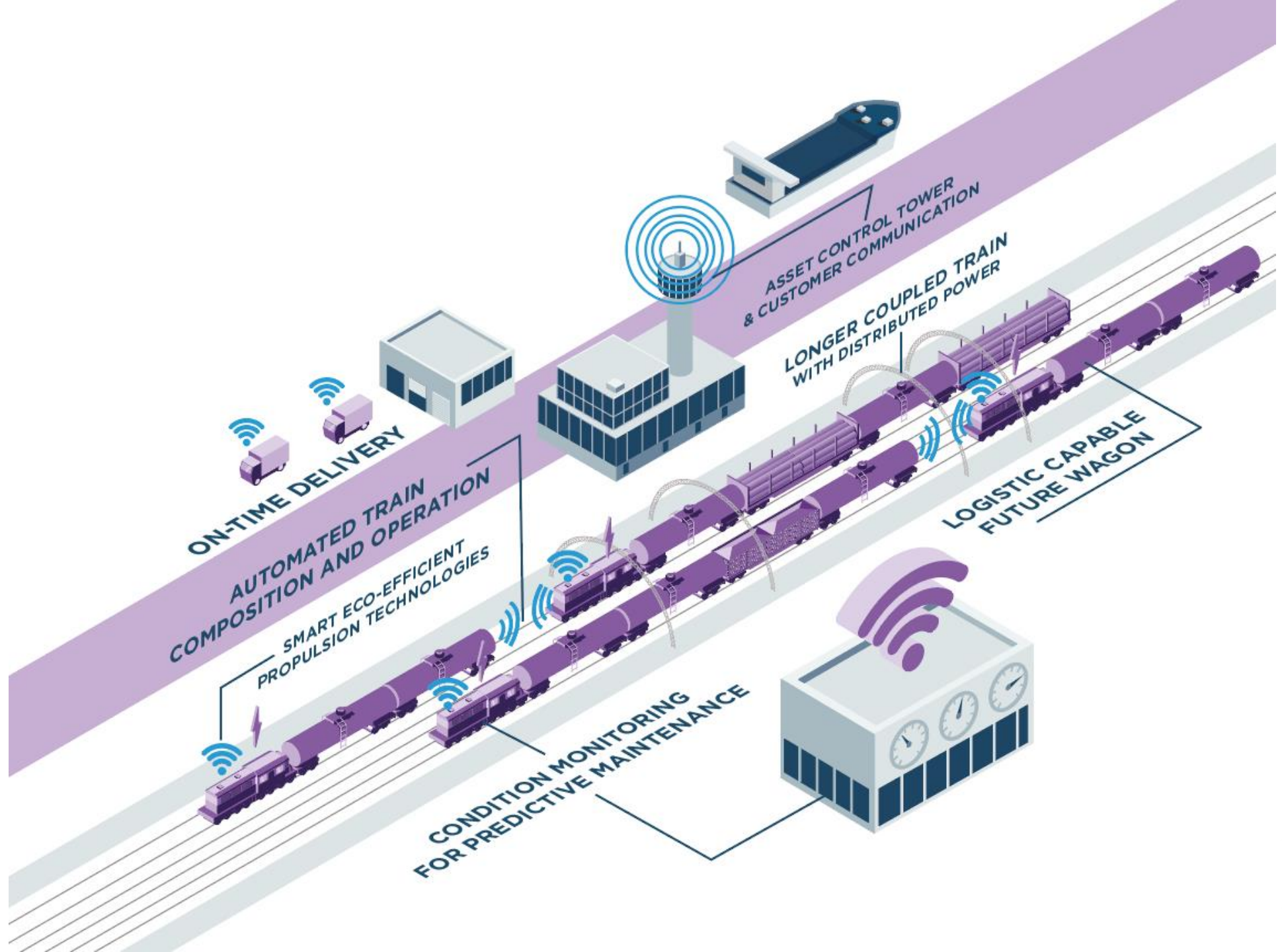
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IP5: Technologies for Sustainable & Attractive European Rail Freight

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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		

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							

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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> S2R-CFM-IP2-01-2019: Completion of activities for enhanced automation systems (including Freight ATO GoA4), train integrity, object controller.

Questions?

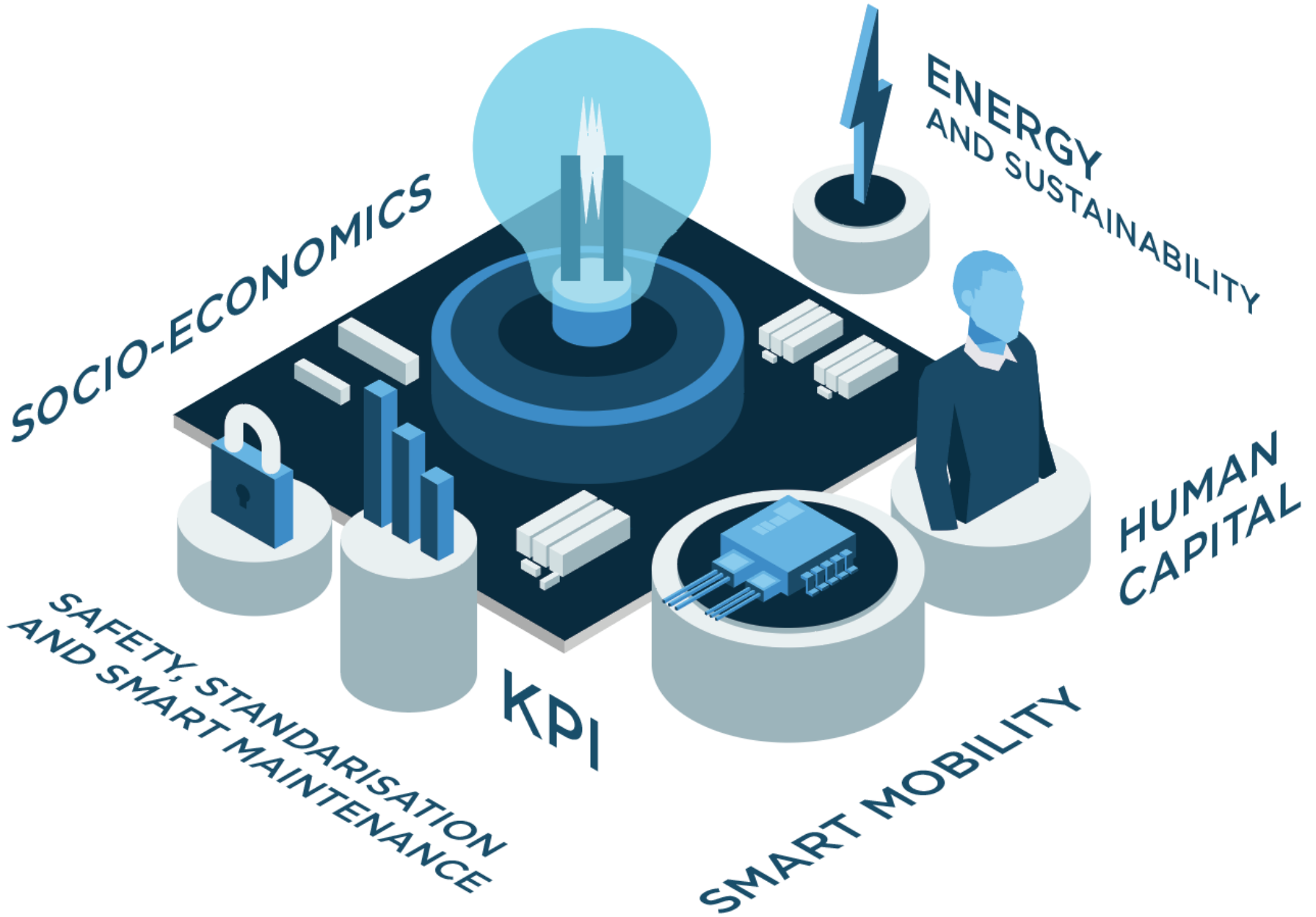
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Cross Cutting Activities (CCA)

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Shift2Rail Joint Undertaking



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, Maintenance, Materials, Virtual Certification								
2015	2016	2017	2018	2019	2020	2021	2022	...
Finished: PLASA			Ongoing: GoSAFE RAIL, IMPACT-2, SMaRTE, PLASA-2					

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			

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	<ul style="list-style-type: none">▪ S2R-CFM-CCA-01-2019: Integrated mobility management (I2M), Energy and Noise & Vibration.▪ FINE-1 (GA 730818)

Questions?

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IPX

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S2R Joint Undertaking

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.

Questions?

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FOUNDING MEMBERS



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Virtual Vehicle Austria consortium+ (VVAC+) European Rail Operating community Consortium (EUROC) Swi'Tracken consortium Smart DeMain (SDM) consortium



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



Lunch

Panoramic Hall, 5th floor

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Afternoon programme

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