

ERRAC Plenary

30 November 2018 - Brussels





- 1) Welcome from the Chair— Alberto Parrondo
- 2) Approval of the Agenda
- 3) Approval of the Minutes of 16 May Plenary
- 4) Keynote speeches European Commission viewpoint
 - 1) Elisabeth Werner, DGMOVE
 - 2) Clara de la Torre, DG RTD
- 5) Shift2Rail update Carlo Borghini
- 6) ERRAC Working Groups
 - 1) WG1 Vision&Strategy Ulrich Meuser
 - 2) WG2 Collaboration Johan Jonsson
 - 3) WG3 Communications Lotta Andersson
- 7) ERRAC Academia PAG Prof. Sebastian Stichel
- 8) Guest Speaker Fernando Liesa, Secretary General, ALICE
- 9) TER4RAIL Armando Carrillo, Secretary General, EURNEX
- 10) Concluding remarks and 2019 dates Alberto Parrondo



- 1) Welcome from the Chair— Alberto Parrondo
- 2) Approval of the Agenda
- 3) Approval of the Minutes of 16 May Plenary
- 4) Keynote speeches European Commission viewpoint
 - 1) Elisabeth Werner, DGMOVE
 - 2) Clara de la Torre, DG RTD
- 5) Shift2Rail update Carlo Borghini
- 6) ERRAC Working Groups
 - 1) WG1 Vision&Strategy Ulrich Meuser
 - 2) WG2 Collaboration Johan Jonsson
 - 3) WG3 Communications Lotta Andersson
- 7) ERRAC Academia PAG Prof. Sebastian Stichel
- 8) Guest Speaker Fernando Liesa, Secretary General, ALICE
- 9) TER4RAIL Armando Carrillo, Secretary General, EURNEX
- 10) Concluding remarks and 2019 dates Alberto Parrondo



- 1) Welcome from the Chair— Alberto Parrondo
- 2) Approval of the Agenda
- 3) Approval of the Minutes of 16 May Plenary
- 4) Keynote speeches European Commission viewpoint
 - 1) Elisabeth Werner, DGMOVE
 - 2) Clara de la Torre, DG RTD
- 5) Shift2Rail update Carlo Borghini
- 6) ERRAC Working Groups
 - 1) WG1 Vision&Strategy Ulrich Meuser
 - 2) WG2 Collaboration Johan Jonsson
 - 3) WG3 Communications Lotta Andersson
- 7) ERRAC Academia PAG Prof. Sebastian Stichel
- 8) Guest Speaker Fernando Liesa, Secretary General, ALICE
- 9) TER4RAIL Armando Carrillo, Secretary General, EURNEX
- 10) Concluding remarks and 2019 dates Alberto Parrondo



Approval of the Minutes of 16 May Plenary

	ERRAC The European Rail Research Advisory Council	ropean Rail Research Advisory Council
		ERRAC Plenary MINUTES
		Vedinesday, 16 May 2018, 09:30 — 16:00 ns Internationales (MAI) Rue Washington, 40, 1050 Brussels Meeting Room: Magistrat
1	Welcome from the Chairman Prof Andy Doherty — ERRAC Chairman	Prof A.Doherty welcomed and thanked the participants for aften first ERRAC Plenary of 2018. Prof A.Doherty presented Nicolas Castres Saint-Martin's a (ERRAC Vice-Chair) who could not attend this ERRAC Plenary.
		Prof A.Doherty presented the agenda. The agenda of the event was approved by the participation.
2	Key note speech from the European Commission Keir Fitch – Head of Unit, Rail Safety and Interoperability, DG Move, European Commission	In his speech, K. Fitch underlined the following: The rail sector was well represented during the Transport R. Arena (TRA) in Vienna. Many rail stakeholders actively part in TRA, which shows the vitality of the sector when it or research and innovation. The S2R JU organized at nu events, in particular to present the first results and achieve the so-called S2R Lighthouse Projects. Innovation is important, but deployment is essential. This innovation was one of the most relevant topics addresse the TEN-T Days organised by DG MOVE in Ljubijana from April. On 2 May, the Commission published its proposal for I Multiannual Financial Framework (MFF). The future Cor Europe Facility (CEF) has a budget increase, leading to a EUR 30.6 billion for 2021-2027 – roughly 20% more contine current period. For research and innovation, Horizon with a budget of 697.9 billion, is the biggest ever resea innovation funding programme put forward by the Commis ERRAC Rail 2060 Vision. Now its time to turn this vis concrete proposals, if rail wants to play a prominent roll Horizon Europe. KFiltch is pleased to see the sector u supporting the continuation of Shift2Rail in the programming period.

- No comments received.
- Plenary is asked to approve the Minutes as presented.



- 1) Welcome from the Chair— Alberto Parrondo
- 2) Approval of the Agenda
- 3) Approval of the Minutes of 16 May Plenary
- 4) Keynote speeches European Commission viewpoint
 - 1) Elisabeth Werner, DGMOVE
 - 2) Clara de la Torre, DG RTD
- 5) Shift2Rail update Carlo Borghini
- 6) ERRAC Working Groups
 - 1) WG1 Vision&Strategy Ulrich Meuser
 - 2) WG2 Collaboration Johan Jonsson
 - 3) WG3 Communications Lotta Andersson
- 7) ERRAC Academia PAG Prof. Sebastian Stichel
- 8) Guest Speaker Fernando Liesa, Secretary General, ALICE
- 9) TER4RAIL Armando Carrillo, Secretary General, EURNEX
- 10) Concluding remarks and 2019 dates Alberto Parrondo



Keynote speech – European Commission viewpoint

Elisabeth Werner, Director – Directorate C Land, DG MOVE



Keynote speech – European Commission viewpoint

Clara de la Torre – Director DG Research and Innovation



R&I for rail transport: Horizon Europe and STRIA

ERRAC Plenary 30 November 2018

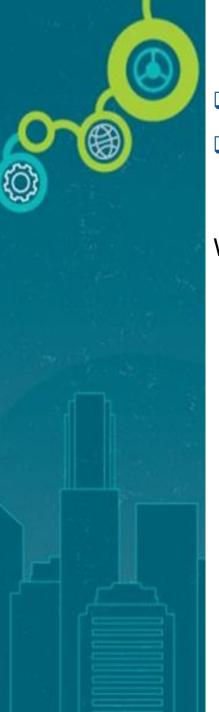
Clara de la Torre
Director Research and Innovation for Transport



Context:

- Europe on the move
- Horizon Europe STRIA
- Roadmaps
- Workplan

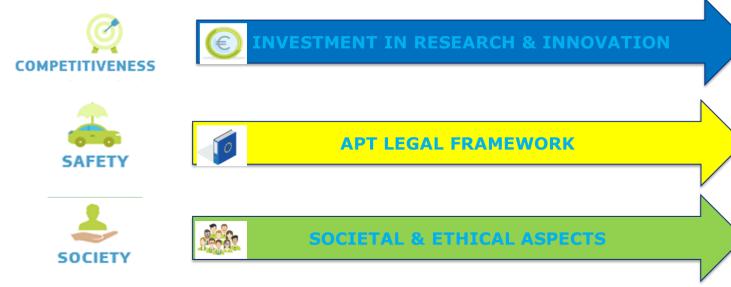




Europe on the move

- □ Part of the 3rd Mobility Package (17 May 2018)
- Comprehensive EU approach to support the development and deployment of connected and automated (road) vehicles in Europe

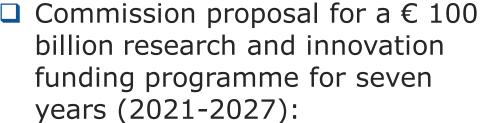
What needs to be done?







Horizon Europe



- to strengthen the EU's scientific and technological bases;
- to boost Europe's innovation capacity, competitiveness and jobs; and
- to deliver on citizens' priorities and sustain our socio-economic model and values.

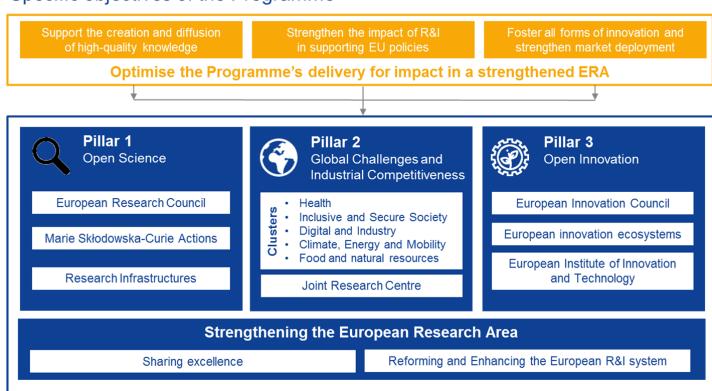






Horizon Europe: "evolution, not revolution"

Specific objectives of the Programme







Horizon Europe

Pillar 2

Global Challenges & Industrial Competitiveness:

boosting key technologies and solutions underpinning EU policies & Sustainable Development Goals

Clusters implemented through usual calls, missions & partnerships	Budget (€ billion)
Health	€ 7.7
Inclusive and Secure Societies	€ 2.8
Digital and Industry	€ 15
Climate, Energy and Mobility	€ 15
Food and Natural Resources	€ 10
Joint Research Centre supports European policies with independent scientific evidence & technical support throughout the policy cycle	€ 2.2





Horizon Europe: new approach to European partnerships

New generation of objective-driven and more ambitious partnerships in support of agreed EU policy objectives

Key features

- Simple architecture and toolbox
- Coherent life-cycle approach
- Strategic orientation

Based on
Memoranda of
Understanding /
contractual
arrangements;
implemented
independently by
the partners and
by Horizon Europe

Based on a joint programme agreed by partners; commitment of partners for financial and inkind contributions & financial contribution by Horizon Europe

Based on longterm dimension and need for high integration; partnerships based on Articles 185 / 187 of TFEU and the EIT-Regulation supported by Horizon Europe

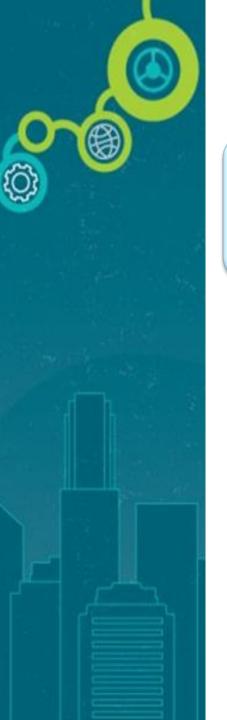




Horizon Europe: next steps







STRIA roadmap on Connected and Automated Transport (CAT)

R&I roadmap on CAT (rail) R&I roadmap on CAT (waterborne)

R&I roadmap on CAT (road)

STRIA roadmap on CAT



STRIA roadmap on Connected and Automated Transport (CAT)

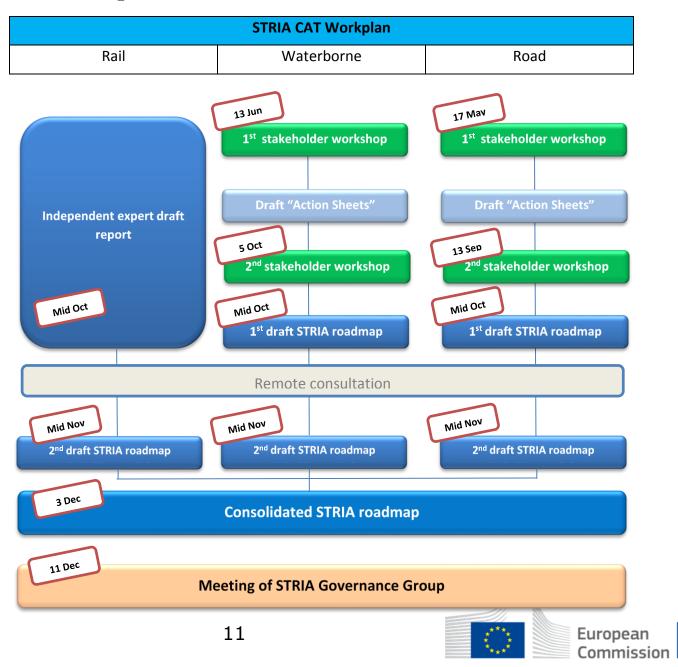


- R&I strategy to support the development and deployment of connectivity and automation technologies for transport
 - Concrete list of potential short, medium and long-term R&I Actions
 - Other actions to accelerate deployment
 - □ Fields of cooperation and common actions between Member States, the EC and Industry
 - Better coordination of national and multinational funding programmes in the area of CAT





Workplan





How does STRIA CAT Rail fit in?

- Uses ERRAC SRRIA & Shift2rail MAAP, inputs from UITP etc to ensure consistency, complementarity and coherence with existing rail research strategy documents
- Advisory document
- An element of the overall approach to Connected & Automated Mobility







- 1) Welcome from the Chair— Alberto Parrondo
- 2) Approval of the Agenda
- 3) Approval of the Minutes of 16 May Plenary
- 4) Keynote speeches European Commission viewpoint
 - 1) Elisabeth Werner, DGMOVE
 - 2) Clara de la Torre, DG RTD
- 5) Shift2Rail update Carlo Borghini
- 6) ERRAC Working Groups
 - 1) WG1 Vision&Strategy Ulrich Meuser
 - 2) WG2 Collaboration Johan Jonsson
 - 3) WG3 Communications Lotta Andersson
- 7) ERRAC Academia PAG Prof. Sebastian Stichel
- 8) Guest Speaker Fernando Liesa, Secretary General, ALICE
- 9) TER4RAIL Armando Carrillo, Secretary General, EURNEX
- 10) Concluding remarks and 2019 dates Alberto Parrondo

ERRAC Plenary





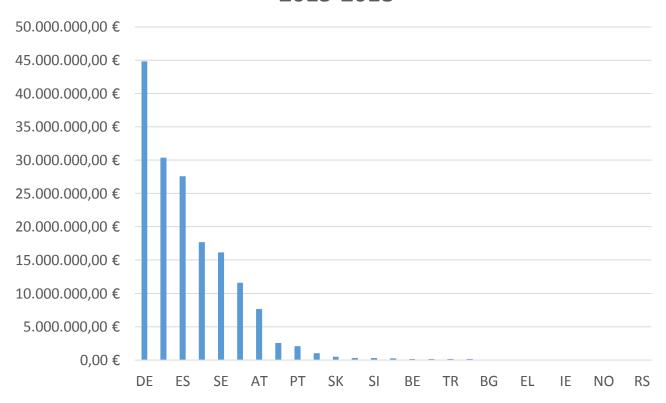
What's going on

Programme

- Successful presentation of InnoTrans quick-wins and demos
- CFM and OC Projects' reviews show Programme in line with objectives but overall slower funding absorption
- Adjustments of Projects and transfer of resources to next year Projects
- Successful completion of the 2018 Call process
- 2018 Grant agreements signed within 2 months of notification letter
- transfer of results (link with CCOLA)
- FCH study first report published
- System approach

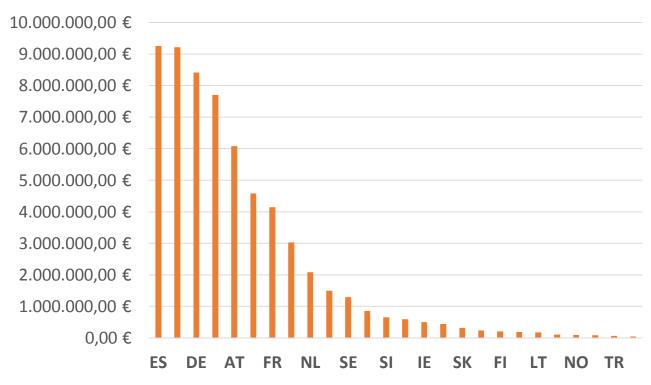


CFM – AMOUNT GRANTED PER COUNTRY 2015-2018





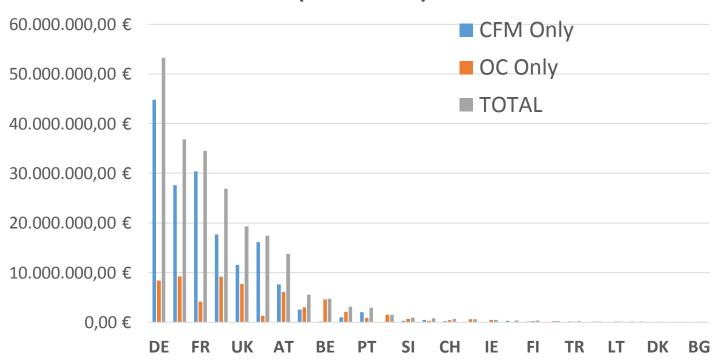
OC's - AMOUNT GRANTED PER COUNTRY (2015-2018)



Country	% SME's (2015 2018)
NO	100%
RS	100%
BE	86%
HR	85%
ΙE	85%
FI	78%
SK	73%
PT	59%
FR	51%
CZ	46%
СН	40%
EL	26%
IT	26%
AT	25%
NL	19%
UK	18%
DE	18%
ES	12%
BG	0%
DK	0%
LT	0%
PL	0%
RO	0%
SE	0%
SI	0%
TR	0%

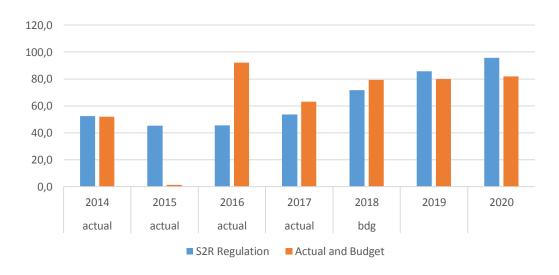


CFM + OC's AMOUNT GRANTED PER COUNTRY (2015-2018)





What's going on



		actual	actual	actual	actual	bdg			
Commitments EUR Mio		2014	2015	<u>2016</u>	2017	2018	2019	<u>2020</u>	<u>Total</u>
S2R Regulation	admin	0.5	1.4	1.6	1.6	1.6	1.6	5.2	13.5
	lighthouse	52.0	0.0	0.0	0.0	0.0	0.0	0.0	52.0
	ops	0.0	44.0	44.0	52.0	70.0	84.0	90.5	384.5
	total	52.5	45.4	45.6	53.6	71.6	85.6	95.7	450.0
Actual and Budget	admin	0.0	1.4	1.6	1.6	1.7	1.7	5.6	13.5
	lighthouse	52.0	0.0	0.0	0.0	0.0	0.0	0.0	52.0
	ops	0.0	0.0	90.6	61.5	77.6	78.3	76.4	384.5
	total	52.0	1.4	92.2	63.1	79.3	80.0	82.0	450.0



Draft AWP 2019 and Call for proposals 2019

Million of EUR	Total	Members only (and affiliated entities)	Members
Value of the Call for Proposals R&I	150.3	134.1	21.1
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	1.9	N/A	N/A
No of topics	3	N/A	N/A

Any question related to the call must be address through the functional mailbox info-call@s2r.europa.eu



MAAP Part B (next steps)

March 19 S2R demo plan integration

new IPx system architecture / CDM integration

→ first draft publication

May 19 Possible adjustment of Part A (pending also RCA and

outcome workshops discussions)

Jun 19 Formal submission to the GB for discussion and open

consultation



Standardisation Rolling Development Plan

- 16 October a S2R standardisation rolling development plan (RDP) was presented to RASCOP
- All parties and stakeholders involved have been invited by the EC to provide feedback (ERA, JPC-R, UIC, etc.) by the end of November
- The RDP is continuously updated
- Discussion with stakeholders taking place (S2R participation to the UIC standardisation conference on 6 November)
- Mind mapping / training of researchers necessary: awareness about standards is important from the start of the activity



INFRASTRUCTURE TEST FACILITIES WORKING GROUP

Input on Technology Infrastructures (DG RTD)

- Validation Workshop "European approach on Technology Infrastructures - How to ensure success?" on 14/11/2018
 - Bridging gap between R&I and Market uptake
 - Lack of testing facilities hinders deployment of S2R results
- EC Working Document on Technology Infrastructures
 - Adding railway sector and S2R
 - Testing Facilities regarded as Technology Infrastructure
 - Improving Competitiveness with outside Europe
 - Input sent to RTD on 21/11/2018
 - possible further addition of S2R position paper



INFRASTRUCTURE TEST FACILITIES WORKING GROUP

Position Paper on testing facilities

- Working Group Meeting on 10/10/2018
- Position Paper based on input of SRG questionnaire, IP3 questionnaire, WG Members, S2R members
- Lack of testing capacities (utilisation of existing facilities very high) and testing capabilities (one-stop shop missing)
- 4 Scenarios (and combination of)
 - Enhanced mapping and logistics
 - Use of abandoned / not finished / underused lines (cooperation with regions, SMEs)
 - Upgrade of existing facilities (also to virtual testing and simulation)
 - Design & construction of new facilities
- Quick Win: participation in "Mapping Exercise" of DG RTD



What's going on

- Agreement with Regions/MS, other Bodies and Organizations
 - Sesaari: signed @ InnoTrans at the presence of the Commissioner
 - ETSI: expected to be signed by early 2019
 - UIC: under discussion similarly to ERA / UIC exchange of letters
 - Agreement with CZ Republic: expected to be signed early December 2018
 - CUTRIC: follow-up Jan 2019

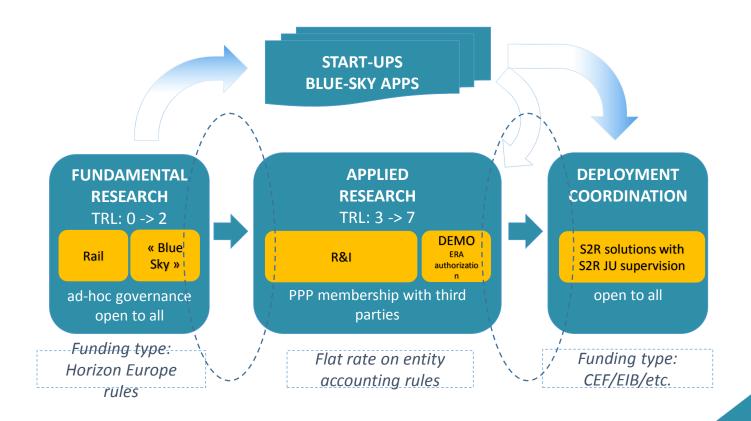


KPI model results, status 2018 Draft Release 1

SPD	LCC	Capacity	Punctuality
Target	-50%	+100%	+50%
High speed	-18%	74%	+19%
Regional	-24%	+49%	+15%
Urban	-18%	+28%	+11%
Freight	-40%	+91%	+71%



S2R Europe 2030 Research and Innovation beyond 2020

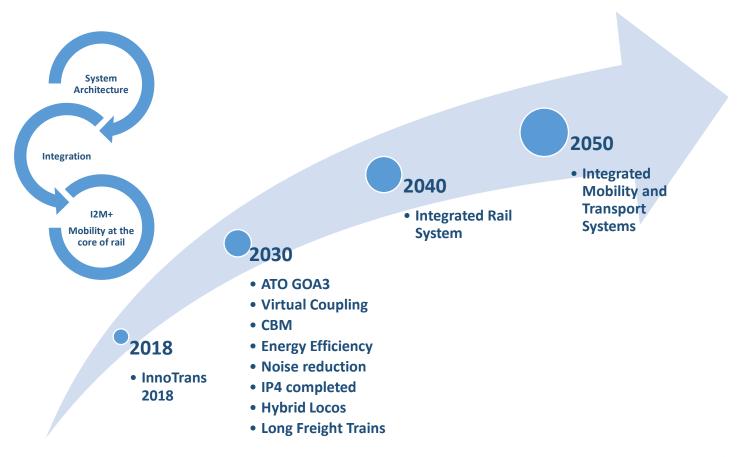




Programme Content: Operations -> Systems -> Innovation Capabilities

RAILWAY CUSTOMER CENTRIC SUSTAINABLE 6. Services Timed to the Second **AUTOMATION** 1. ATO 4. More Value from Data 2. MAAS 3. Logistic on Demand 5. Optimum use of Energy **DIGITAL** 8. Guaranteed Assets Health and 10. Stations, Smart City Mobility availability 9. Intelligent Trains **Relation with Air Transport** 7. Low Cost Railway 11. Environmental and Social Other Concessions (?) technologies/ Sustainability **Energy Efficient Processes Cost Efficient** 12. Rapid and reliable R&D delivery

Programme Content: towards an Integrated Rail System



FOUNDING MEMBERS



Ansaldo STS A Hitachi Group Company

BOMBARDIER





SIEMENS

THALES



#Horizon2020

ASSOCIATED MEMBERS

















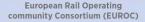








Virtual Vehicle Austria consortium+ (VVAC+)







Smart DeMain (SDM) consortium

virtual 🌎 vehicle





COMBOIOS DE PORTUGAL











acciona





TATRAVAGÓNKA POPRAD









TATA STEEL









AVL 💑

KIRCHDORFER









Slovenske železnice





















Smart Rail Control

(SmartRaCon) consortium







AERFITEC

AERNNOVA

FIDAMC ***

tecnalia inspiring



















Agenda

- 1) Welcome from the Chair— Alberto Parrondo
- 2) Approval of the Agenda
- 3) Approval of the Minutes of 16 May Plenary
- 4) Keynote speeches European Commission viewpoint
 - 1) Elisabeth Werner, DGMOVE
 - 2) Clara de la Torre, DG RTD
- 5) Shift2Rail update Carlo Borghini
- 6) ERRAC Working Groups
 - 1) WG1 Vision&Strategy Ulrich Meuser
 - 2) WG2 Collaboration Johan Jonsson
 - 3) WG3 Communications Lotta Andersson
- 7) ERRAC Academia PAG Prof. Sebastian Stichel
- 8) Guest Speaker Fernando Liesa, Secretary General, ALICE
- 9) TER4RAIL Armando Carrillo, Secretary General, EURNEX
- 10) Concluding remarks and 2019 dates Alberto Parrondo







This project has received funding from the Shift2Rail Joint Undertaking under the European Union's Horizon 2020 research and innovation programme under grant agreement no. 826055 (TER4RAIL)

ERRAC WG1

ERRAC Plenary 30th November 2018 Brussels Ulrich Meusser



ERRAC WG1 (1/3)

- Kick-Off Meeting 23 October 2018
- Participants at the KO Meeting: SNCF, Trenitalia, ERA, S2R, KB, Strukton Rail, EPF, DB, ACstyria Mobilitätscluster, UITP and UNIFE
- Objective of the KO meeting: To agree on the process to deliver a draft of the ERRAC vision/priorities by 2030.
- ERRAC WG1 agreed that this document should be **high-level** (target: decision-makers), not **too detailed** and short (30 pages).
- Content: Should address all the rail sector priorities by 2030

ERRAC WG1 (2/3)

- The document will be used for the preparation of Horizon Europe.
- The ERRAC WG1 agreed that the starting point will be the ERRAC 2050 vision and the priorities identified by ERRAC Stakeholders (UIC capabilities, UNIFE Key Enablers, UITP priorities).
- ERA mentioned the ERA document "Target Railway System".
 This document will be considered by the group as well as the Foster Rail Roadmaps.
- S2R should clarify their contribution to ERRAC WG1.

ERRAC WG1 (3/3)

Process:

- Task Force should be set up before Christmas (members UIC, UITP and UNIFE) / Objective: Propose a first skeleton of the document.
- This first skeleton will be reviewed during next ERRAC WG1 meeting.
- Next ERRAC WG 1 meeting: 24.01.2019
- Objective of WG1: To present a first draft at the next ERRAC SC (Feb 2019)

Questions:

- The timeline of WG1 should be aligned with the Horizon Europe Timeline. When will ERRAC be consulted by the EC to provide the rail sector's vision and priorities for Horizon Europe?
- How could ERRAC WG1 be linked with STRIA activities? Needs of clarification on the impacts of STRIA on Horizon Europe?







This project has received funding from the Shift2Rail Joint Undertaking under the European Union's Horizon 2020 research and innovation programme under grant agreement no. 826055 (TER4RAIL)

ERRAC WG2

ERRAC Plenary 30th November 2018 Brussels Johan Jonsson



The road to ERRAC Vision 2050





ERRAC WG2 - why?

- Allow ERRAC stakeholders to align their efforts towards innnovation driven collaborative research
- Less duplication through twinning and co-programming
- Active involvement of industry, program owners and researchers



ERRAC WG2 – how?

- Follow-up of projects supporting ERRAC activities
- Initiate and promote demand driven R+I and deployment
- Collaborate with other ETPs to find boundaries and commonalities.
- Provide networking opportunities with other economic sectors
- Strategic R+I coordination mechanism



ERRAC WG2 – next step

Meeting: 4th December 2018, 14.00-17.00h
 UIC Brussel
 53 Avenue des arts

Contact:

WG2 Chair: johan.jonsson@trafikverket.se

ERRAC secr. brennan@uic.org



Thank you for your attention.







This project has received funding from the Shift2Rail Joint Undertaking under the European Union's Horizon 2020 research and innovation programme under grant agreement no. 826055 (TER4RAIL)

ERRAC WG3

ERRAC Plenary 30th November 2018 Brussels Lotta Andersson



Aims to enable proactivity,

same-but different)

decoration.

Review and update the Make the strategy more handy,

business.

ERRAC flag

communication strategy

communicate

interesting S2R

deliveries that

vision?

How get hold of and

strengthen ERRAC's

formulate a good enough level and reduce "emergency work" (same-

logo. Flags that can easily be taken

Ensures we can have a nice stand

concrete and shorter so it can be

comprehensive contributions that

have a clear benefit and impact on freight.

used as a handrail in the work.

the railways for citizens and

Identify the 10 most

even if roll up etc is gone. Can also be used as complementary

ERRAC

ERRAC

Focus on benefits for

passengers and

Produce 4-5 flags with ERRAC's

in luggage to trade fairs etc.

ERRAC WG3 Actionlist

SUBJECT	OBJECT	STAKEHOLDER	FORMAT	CHANNEL	READY	In CHARGE	BUDGET	Comments
Message platform	Formulate three central messages with supportive arguments. Helps to easily focus and highlight ERRAC's value creation contributions	Should be aimed at all identified stakeholders in general	Powerpoint to be downloaded from the ERRAC website	material	January 2019. Anchored with SC - other groups?	Lotta together with WG3 and the ERRAC secretary	None	Regarding the stakeholder group "ctizens" and value of ERRAC for people's daily lives, we have to be cautious since the primary purpose of ERRAC is to provide advice for the framework programmes. Also, because ERRAC is self-funded, it has a limited capacity.
ERRAC Boilerplate	Ensure a boiler plate that will always be included in correspondence, mail and other documents where ERRAC is a sender.	Should be aimed at all identified stakeholders in general	The boiler plate (and errac.org) will always be included in mail and other documents where ERRAC is the sender.		January 2019. Anchored with SC - other groups?	Lotta together with WG3 and the ERRAC secretary	None	
Stakeholderlist	Identify the relevant stakeholdergroups. Ensure coordinated analysis with other org./groups	ERRAC and those who are interested	Excel list to be downloaded from the ERRAC website	Basic working material	January 2019. Anchored with SC - other groups?	XX together with WG3 and the ERRAC secretary	None	ERRAC has the same stakeholders as other groups like Unife, UITP, UIC, ERA, CER etc.
Basic presentation (powerpoint) for ERRAC	Prepare and formulate. Ensure common messages. In support of those who needs to present the ERRAC's work	Should be aimed at all identified stakeholders in general	Powerpoint to be downloaded from the ERRAC website	Used when general presentation about ERRAC is needed. Can be used at fairs etc	March 2019	Lotta together with WG3 and A Gouglet (webb)	None	The presentation can be used in its entirety, or parts and can also be integrated into a larger presentation
Events of the year	Identify recurrent communication opportunities, channels and events on yearly basis	ERRAC and those who are interested	Excel list to be downloaded and updated from the ERRAC website.	Basic working and living material	January 2019. Anchored with SC - other groups?	Martin together with WG3.	None	
Conceptualized event package.	Prepare a conceptualized event package. (flags, presentations, tips to think of, recommended number of brochures, timetanble etc.)		Material to be downloaded from the ERRAC website and booked and ordered	On fairs and wherever relevant	June 2019	Lotta together with WG3 and ERRAC secretary.	Can we ask S2R, others?	

from ERRAC secretary.

Short, non-technical /

common template that

package of examples of delivered items.

can then be compiled in a

easy-to-understand

articles based on a

secretary.

Fabric flags, about 100 cm On fairs and

Basic working

Basic working

material to be

stakeholders.

used by all

material

x 60 cm to be booked and wherever

ordered from the ERRAC | relevant

February 2019

June 2019.

Anchored with SC -

Plan for a "Multi-

other groups?

stage rocket"

XX together with

ERRAC secretary

Martin together

Lotta togehter with Professional

with WG3.

WG3

WG3 and the

Can we ask

S2R, others?

reporter and

layout

Help probably needed from S2R to

deliverables.

identify a broad range of interesting



Work in Progress

Message platform and Q&A – Compile input from ERRAC to formulate relevant central messages. Cleared and agreed. Helps to focus and promote ERRAC's value creation contributions.

Communication Plan – What/Why/Who/When. Focus on specific expected benefits for passengers, freight, society... Input: Results from WG1 and WG2. (Dissemination)

Basic presentation (powerpoint) for ERRAC.

Conceptualized event package - Aims to enable proactivity, formulate a good enough level and reduce "emergency work" (same-same-but different).

ERRAC Eventlist - Avoid collisions, utilize synergies.





Agenda

- 1) Welcome from the Chair— Alberto Parrondo
- 2) Approval of the Agenda
- 3) Approval of the Minutes of 16 May Plenary
- 4) Keynote speeches European Commission viewpoint
 - 1) Elisabeth Werner, DGMOVE
 - 2) Clara de la Torre, DG RTD
- 5) Shift2Rail update Carlo Borghini
- 6) ERRAC Working Groups
 - 1) WG1 Vision&Strategy Ulrich Meuser
 - 2) WG2 Collaboration Johan Jonsson
 - 3) WG3 Communications Lotta Andersson
- 7) ERRAC Academia PAG Prof. Sebastian Stichel
- 8) Guest Speaker Fernando Liesa, Secretary General, ALICE
- 9) TER4RAIL Armando Carrillo, Secretary General, EURNEX
- 10) Concluding remarks and 2019 dates Alberto Parrondo



ERRAC Academia PAGProf. Sebastian Stichel

Brussels, 30 November 2018





ERRAC Academia Permanent Advisory Group

Mission

This PAG is largely autonomous but shall systematically report to the Steering Committee.

This PAG shall establish an agenda that follows the aims and missions of ERRAC and which will be communicated to the Steering Committee. Likewise, the Steering Committee will propose topics on which it seeks the advice of the PAG.

This agenda shall ensure coordination and foster harmonisation between the objectives proposed and the work carried out by ERRAC.



Meetings

Meetings held:

17 April 2018 – 9:00-14:00, Vienna

29 November 2018, 14.30-17.30, Brussels



Recent and upcoming activities

Recent

- Input to "Capabilities and Areas of Development" as preparation of next phase of S2R
- Started work on "Expert Database"

Upcoming

- Input to medium term vision of ERRAC
- Work on Expert Database
- Participation in TRA2020 Programme Committee



What can the PAG Academia do for ERRAC?

- Guide railway research in Europe by defining future research activities
- Provide advice for the European Commission
- Provide a wider academic perspective (e.g. for Shift2Rail), formulate ideas on blue sky research
- Support other ERRAC working Groups, e.g. contribute to the vision/input ideas
- Ensure research capability for future railway research needs
- Help to provide the next generation of railway professionals, e.g. discuss railway education and make proposals for educational need in the sector



Agenda

- 1) Welcome from the Chair— Alberto Parrondo
- 2) Approval of the Agenda
- 3) Approval of the Minutes of 16 May Plenary
- 4) Keynote speeches European Commission viewpoint
 - 1) Elisabeth Werner, DGMOVE
 - 2) Clara de la Torre, DG RTD
- 5) Shift2Rail update Carlo Borghini
- 6) ERRAC Working Groups
 - 1) WG1 Vision&Strategy Ulrich Meuser
 - 2) WG2 Collaboration Johan Jonsson
 - 3) WG3 Communications Lotta Andersson
- 7) ERRAC Academia PAG Prof. Sebastian Stichel
- 8) Guest Speaker Fernando Liesa, Secretary General, ALICE
- 9) TER4RAIL Armando Carrillo, Secretary General, EURNEX
- 10) Concluding remarks and 2019 dates Alberto Parrondo





ERRAC Plenary, Brussels, 30 November 2018

An insight into ALICE:

The European Technology Platform for Logistics

Fernando Liesa Secretary General, ALICE





ALICE Focus and singularity

Focus on developing Medium-Long term vision for logistics:

Trends, New Business models... → New Challenges and Opportunities

Define a Research & Innovation Strategy/agenda linked to Industry interest

→ Formal mandate of the European Commission in defining R&I Programs H2020 as European Technology Platform*



Mapping and analysis progress: R&I projects, Industry initiatives, Start-ups

→ Facilitate access to knowledge generated

Create an open Network for Collaborative Logistics Innovation in Europe

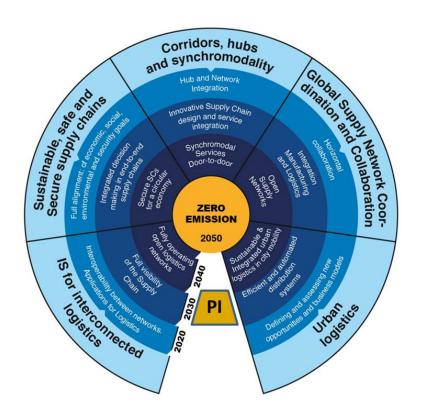
→ Building knowledge and supporting innovation

* What are the European Technology Platforms, what do they do and what is the European Commission Role





ALICE Roadmap Renewal



ALICE VISION is to realize PI by 2030 to pave the way to Zero Emissions by 2050

Physical Internet will bring efficiency and sustainability to Logistics. It cannot fully solve the Decarbonization Challenge, but it will make it less onerous to meet.

And can deliver results in the critical next 10 years



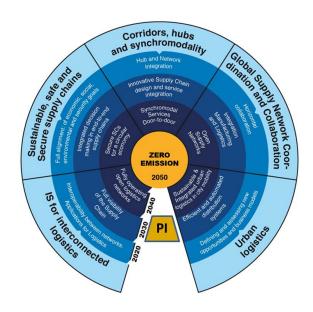


ALICE Roadmaps & Renewal

Combining Physical Internet (2030) and Zero Logistics Emissions (2050)

Roadmaps





- Roadmap "Towards Zero Emissions Logistics" → In Progress
- Roadmap "Towards the Physical Internet" → In Progress



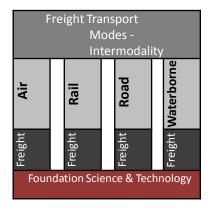


ALICE Scope

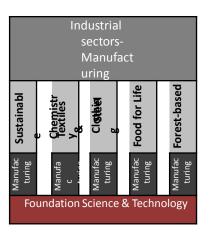
The connection between Modes and Industry for Optimized Logistics and Supply Chain Management

Logistics + Supply Chain

How to Transport



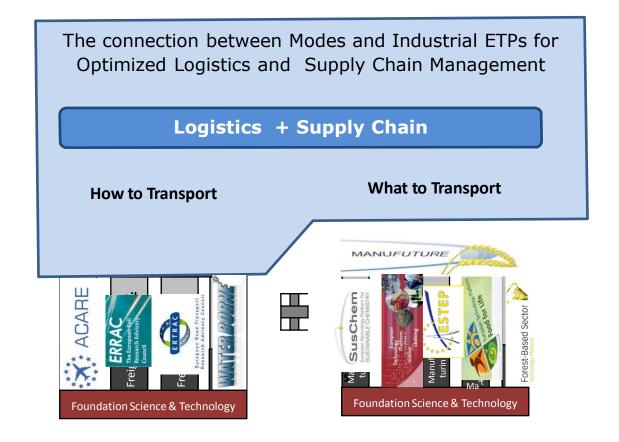
What to Transport





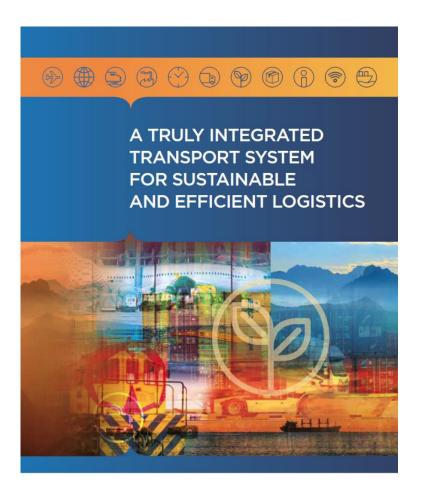


ALICE and related ETPs









We envision a **System of Systems**

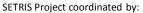
Report: http://www.etp-logistics.eu/?p=1298









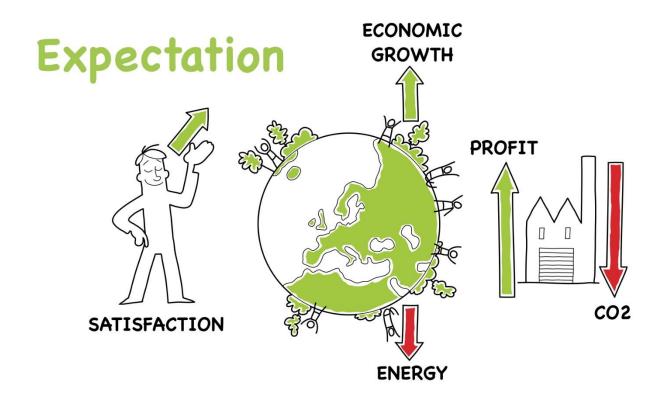








Who is the User?

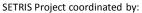


















From what it is to what it should be

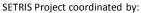










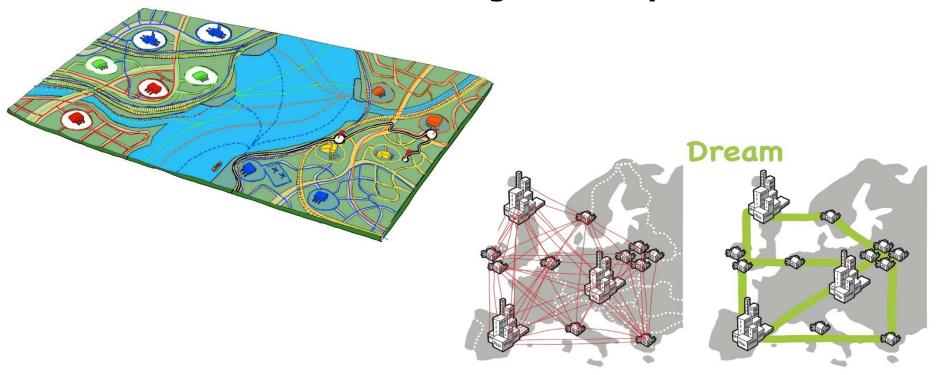








Who is deciding on transport?

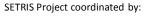


















Market dynamics

Ill defined regulatory framework

Lack of transhipment and modularization technology

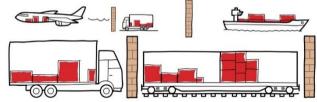
Barriers

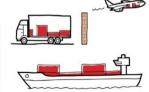
Lack of trust on sharing information

Lack of IT/ICT Systems interoperab ility

Lack of industry well recognized business and operational models







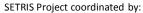








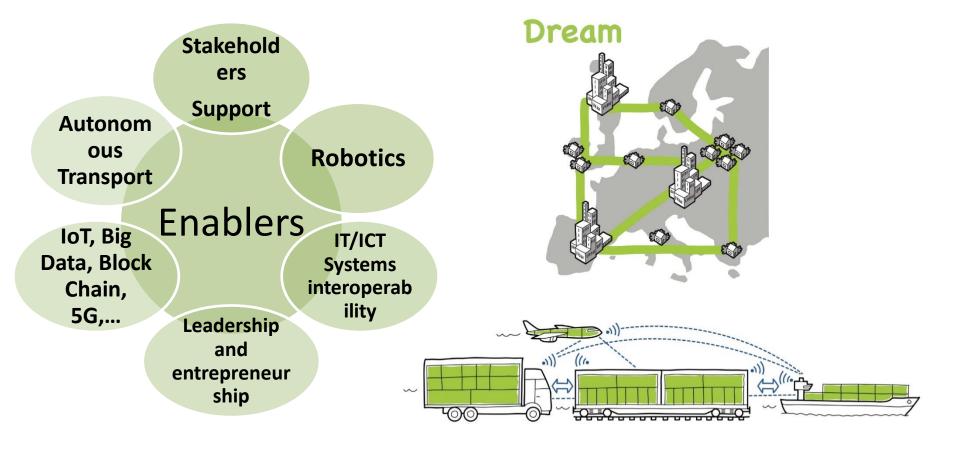










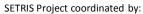


















ALICE development

Jun 2013

Creation and

recognition as ETP

Recommendations

H2020 First Calls

	2013	2014	2015	2016	2017
Nr. Members	32	62	84	101	107

2014

ALICE R&I
Road

Tenders, high services and s

Recommendations H2020 2016-2017

2015

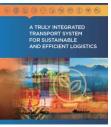
IPIC Paris (250+ attendees)

Alice established as Legal Entity

SETRIS Project
Starts

2016-2017

Truly Integrated Transport System



Roadmaps Implementation Status

Recommendations H2020 2018-2020



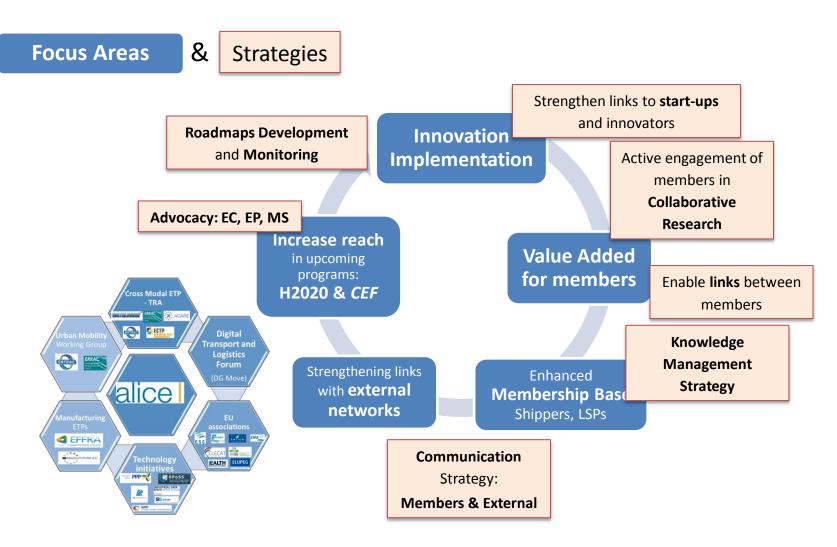
by EC

ALICE membership per type of organization **Type of Organization** Members **EU/International Associations** P&G L'ORÉAL cefic Casino **Shippers & Retail** Atlas Copco NOURRIR UN MONDE ESC **ELUPEG** SOLVAY BORUSAN LOJISTIK **Logistics Service Providers, Courier** CCLECAT Gebrüder Weiss FM>LOGISTIC **Poste**italiane and Postal operators & Freight **GEODIS** ECG CHEP **EALTH** LINEAS -AULTILOG ... **KALEIDO Forwarders** INTERPORTO BOLOGNA TRAFIKVERKET **ECO** SLC Ports, Hubs, Intermodal terminals & Transport Infrastructure EPORT HUTCHISONPORTS duisport 5 ECT ROTTERDAM Port de Barcelona Vehicle Manufacturers & Logistics OGIFRUIT VOLVO DAIMLER eucar operations, handling (modular units) SILENT'S SENSORS argus / MARLO UIRNet s.p.A. ebpi Information and Communication **6** nallian interlogistics **Technologies & Consultancy** TRAXENS bluegreen enide RIA mosaicfactor LastMile LastMile **HaCon** TKI DINALOG 🚼 nov@log **CLOSER Regional & National Logistics Clusters** VEREIN NETZWERG LOGISTIK **30**9 & Associations EffizienzCluster Fraunhofer Research and technology Centers ECTRI Fraunhofer TUDelft TNO innovation 2 / right CATAPULT BIBA L C Q CMC-LOGISTICA - ITEM **European Technology Platforms / PPPs** ERTRAC MANUFUTURE:EU Department for Transport Member States and innovation Funding*

* Involved in ALICE Mirror Group

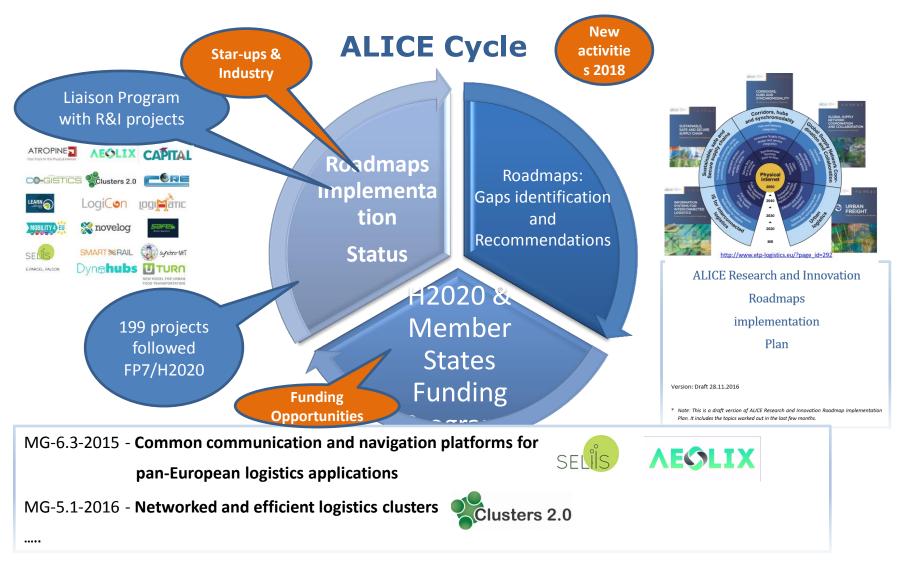








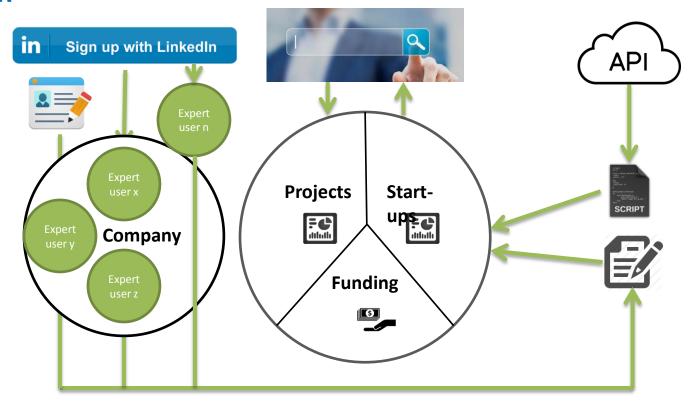








Building a "social" Knowledge Platform







Investment in Research and Innovation on logistics:

199 projects and initiatives (Mainly EU research) have been identified as potentially contributing to

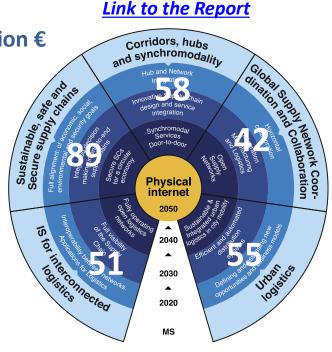
ALICE Research and Innovation Roadmaps implementation.

The **investment** in these initiatives altogether has been **1000 Million** €

with a public funding of **780 Million** € in the period **2010-2017**.

Impact will be higher if funded projects will respond to an overall strategy!!!

We need a strategy ahead of (more) Money!!!







Logistics innovation for a more competitive and sustainable industry

Thank you!

The Best Way To Predict The Future Is To Create It!

Source: President Abraham Lincoln

www.etp-alice.eu

<u>info@etp-alice.eu</u>





Agenda

- 1) Welcome from the Chair— Alberto Parrondo
- 2) Approval of the Agenda
- 3) Approval of the Minutes of 16 May Plenary
- 4) Keynote speeches European Commission viewpoint
 - 1) Elisabeth Werner, DGMOVE
 - 2) Clara de la Torre, DG RTD
- 5) Shift2Rail update Carlo Borghini
- 6) ERRAC Working Groups
 - 1) WG1 Vision&Strategy Ulrich Meuser
 - 2) WG2 Collaboration Johan Jonsson
 - 3) WG3 Communications Lotta Andersson
- 7) ERRAC Academia PAG Prof. Sebastian Stichel
- 8) Guest Speaker Fernando Liesa, Secretary General, ALICE
- 9) TER4RAIL Armando Carrillo, Secretary General, EURNEX
- 10) Concluding remarks and 2019 dates Alberto Parrondo







This project has received funding from the Shift2Rail Joint Undertaking under the European Union's Horizon 2020 research and innovation programme under grant agreement no. 826055 (TER4RAIL)

TER4RAIL

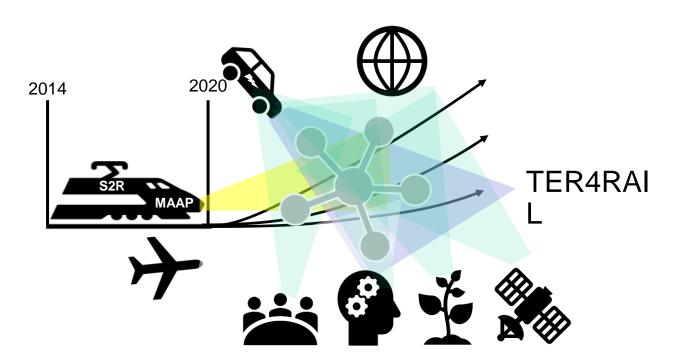
Transversal Exploratory Research Activities for Railway

Plenary ERRAC, 30.11.2018

Dr.-Ing. Armando Carrillo Zanuy Sec. General EURNEX

TER4RAIL

TER4RAIL entails a coordination and support action to determine **transversal exploratory research activities** among different actors that are beneficial for **railways**.



- To select and synthetize a considerable amount of information regarding railways' futures
- To transmit it in a consolidated, improved, clear, and understandable manner
- 1+2) Become the CSA of reference for the evolution of EU railways.

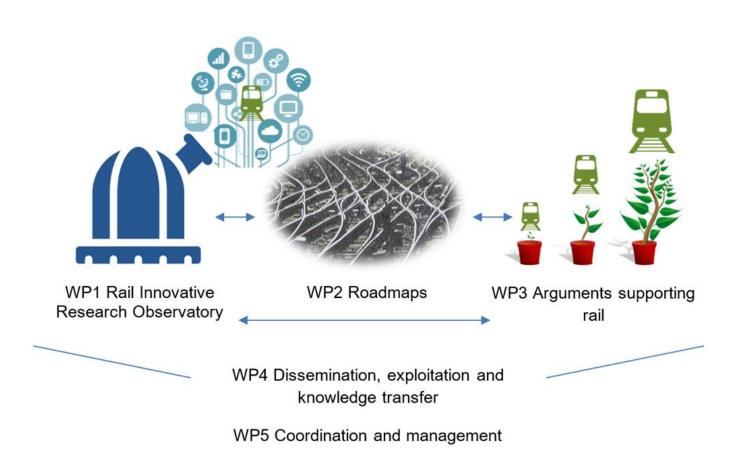


table FOR discussion





METHODOLOGY





Partners

Participant no.	Participant organisation name	Participant short name	Country
1 (CO)	EURNEX e.V.	EURNEX	Germany
2	UNION DES INDUSTRIES FERROVIAIRES EUROPEENNES - UNIFE	UNIFE	Belgium
3	UNION INTERNATIONALE DES CHEMINS DE FER	UIC	France
4	UNIVERSITY OF NEWCASTLE UPON TYNE	NEWRAIL	United Kingdom
5	UNION INTERNATIONAL DES TRANSPORTS PUBLIC	UITP	Belgium
6	NEWOPERA AISBL	NEWOPERA	Belgium
7	FUNDACIÓN DE LOS FERROCARRILES ESPAÑOLES	FFE	Spain

Budget: 500k€

Effort: 44 MM







This project has received funding from the Shift2Rail Joint Undertaking under the European Union's Horizon 2020 research and innovation programme under grant agreement no. 826055 (TER4RAIL)

questions

Thank you for your kind attention!

EURNEX, Sec. General Armando Carrillo Zanuy

OPTIYARD



Agenda

- 1) Welcome from the Chair Alberto Parrondo
- 2) Approval of the Agenda
- 3) Approval of the Minutes of 16 May Plenary
- 4) European Commission viewpoint
 - 1) Elisabeth Werner, DGMOVE
 - 2) Clara de la Torre, DG RTD
- 5) Shift2Rail update Carlo Borghini
- 6) ERRAC Working Groups
 - 1) WG1 Vision&Strategy Ulrich Meuser
 - 2) WG2 Collaboration Johan Jonsson
 - 3) WG3 Communications Lotta Andersson
- 7) ERRAC Academia PAG Prof. Sebastian Stichel
- 8) Guest Speaker Fernando Liesa, Secretary General, ALICE
- 9) TER4RAIL Armando Carrillo, Secretary General, EURNEX
- 10) Concluding remarks and 2019 dates Alberto Parrondo



Next meetings

☐ ERRAC 1st 2019 Plenary – Thursday March 21

☐ ERRAC 2nd 2019 Plenary – Thursday November 28



Thank you for your attention!