

Jornada Connect-EU

Impulsa el teu projecte d' **R+D**
i **innovació** a Europa



Co-organitzadors:

ACCIÓ i AGAUR

Amb el suport de:

iberCaja 



Applus⁺
IDIADA

YOUR DEVELOPMENT PARTNER

EARPA, ERTICO, EGVIA & H2020

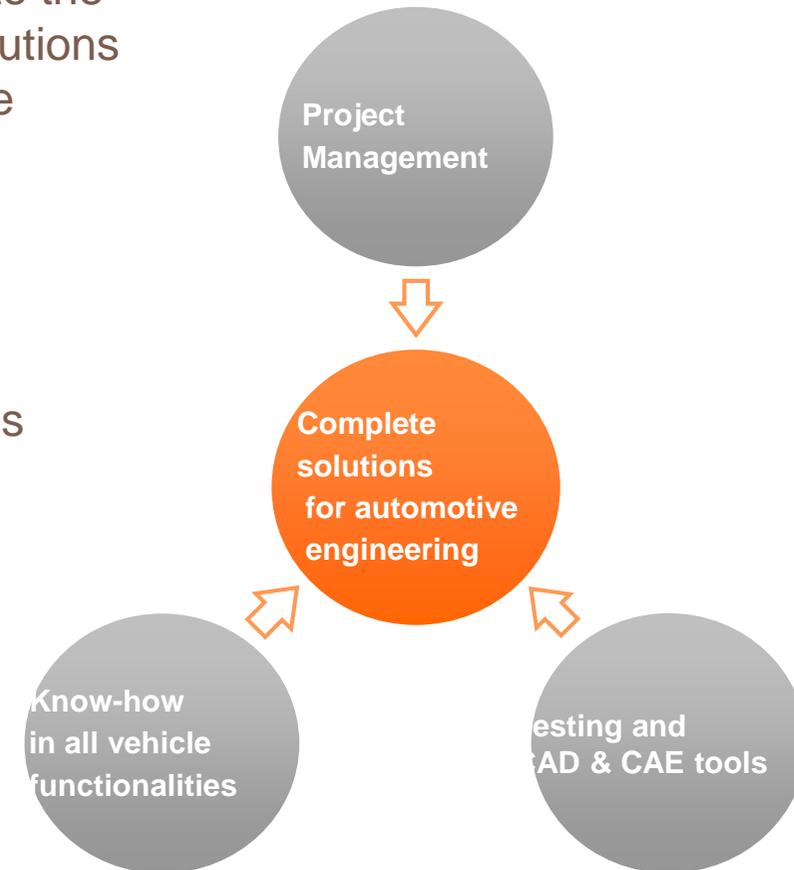
**Jornada CONNECT-EU: "Smart, Green and
Integrated Transport: Principales plataformas"**

6th November 2017

Applus IDIADA is an engineering partner to the automotive industry providing complete solutions for product development projects worldwide

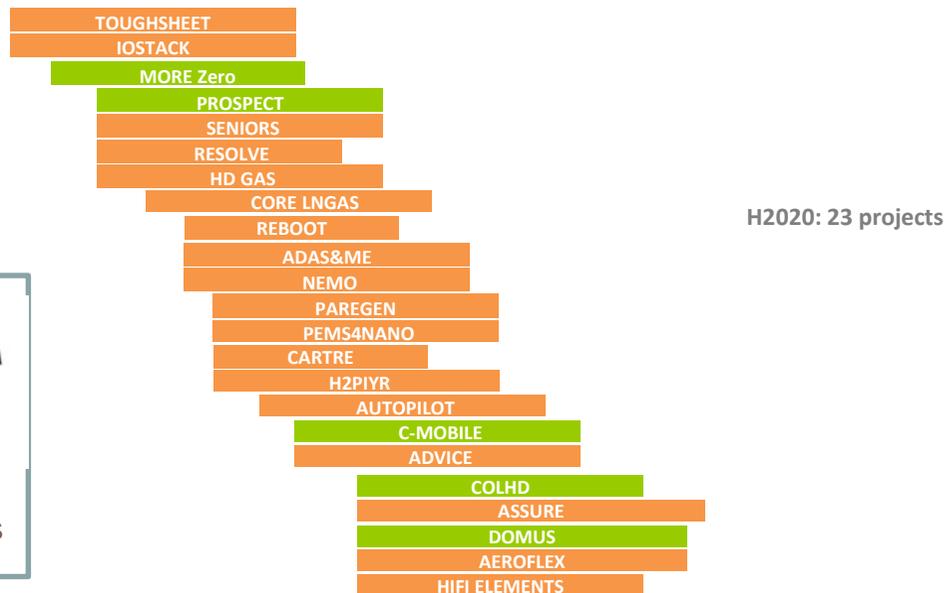
Our assets:

- ⊕ Team of more than 2.250 professionals
- ⊕ First class state-of-the-art testing facilities
- ⊕ International presence in 25 countries with 55 local offices
- ⊕ Innovation in new services and technologies



EU Projects in IDIADA

2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022

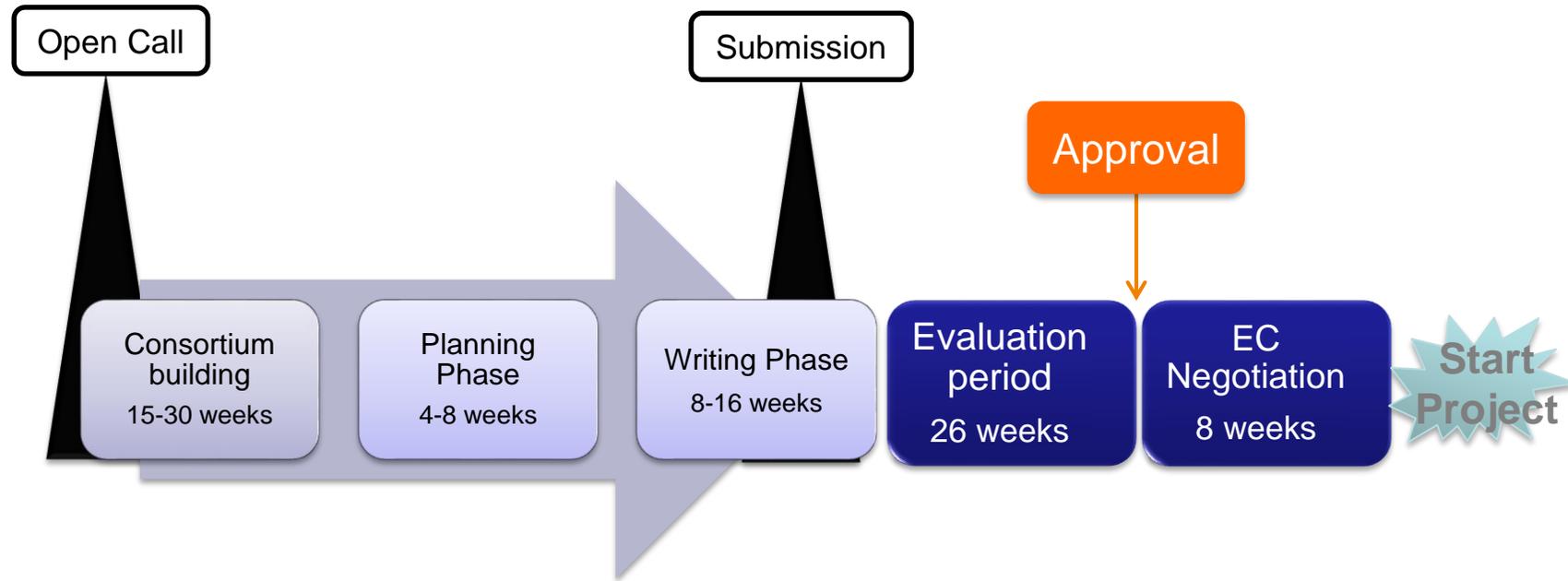


Lead by IDIADA



Top Down

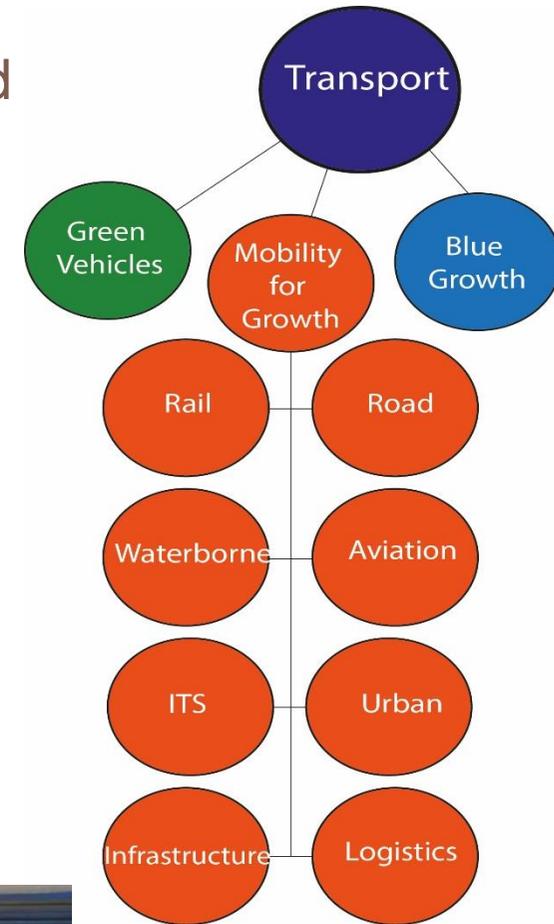
Specific topics
Coming from funding bodies



- ⊕ In total more than ONE OR ONE AND HALF year
- ⊕ Evaluation period by independent evaluators
- ⊕ If proposal accepted, EC enters into financial/technical negotiations with consortium
- ⊕ The project starts around 9-10 months later after the proposal submission

Work Programme: The Smart, Green, Integrated Transport Challenge

- Mobility for Growth, technical development, modes and integration
 - Better use of existing resources, reduced congestion, intelligent systems
 - Cleaner, safer vehicles
- New programme 2018-2019-2020



The Smart, Green, Integrated Transport Challenge

Sections:

- Aviation
- Waterborne
- **Safety**
- **Urban mobility**
- **Logistics**
- **Intelligent Transport Systems**
- Infrastructure
- Socio-economic and behavioural research and forward looking activities for policy making
- **Automated Road Transport**
- **Green Vehicles**

Actions:

- Research and Innovation Action (100% funding)
- Innovation Action (70% funding)
- Coordination and Support Action (100% funding)

Work Programmes, Calls yearly or every 2-3 years



Road Map definition

ERTRAC
European Road Transport Research Advisory Council

SMARTGRIDS
European Technology Transport for the Electricity networks of the future

EC PLATFORMS
EPOSS
European Technology Platform on Smart Systems Integration

Position paper, modification of topics, description, etc.

earpa
European Automotive Research Partners Association

EGVI
European Green Vehicles Initiative

ERTICO
ITS EUROPE

National Contact Points
CDTI

- ⊕ Once work programme is released we should prepare the proposal following the topic and matching the objectives



You may have to wait until the publication of a Call which covers your exact area of interest

...OR

Being PROACTIVE!

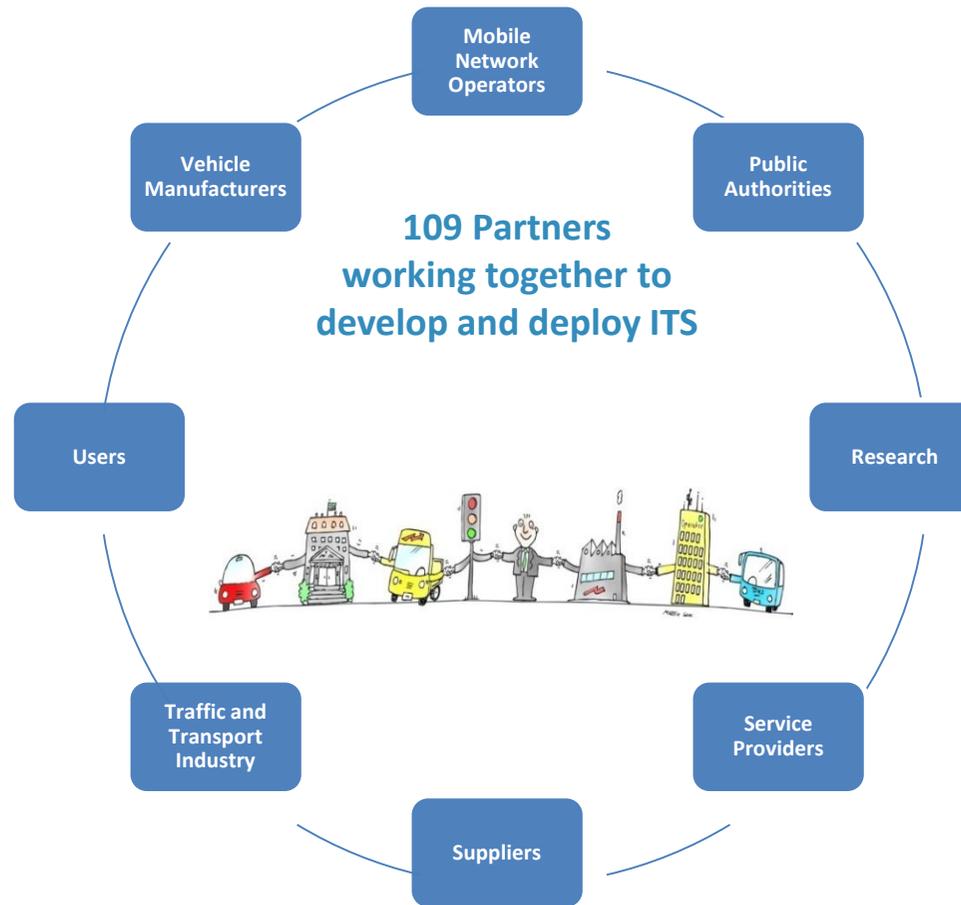


- ⊕ Input provided to National Contact Points, to research network, industry associations, etc.
- ⊕ Chance to contribute to the work programmes every year



ERTICO mission and visions

ERTICO Partnership



Vision

Bringing intelligence into mobility for:

Safer mobility → zero accidents

Smarter mobility → zero delays and fully informed people

Cleaner mobility → reduced impact on the environment

Mission

Develop, promote and deploy intelligent transport systems and services which needs **multi-stakeholder** engagement

- Implementing necessary deployment enablers
- Evaluating, adapting and using most advanced related technologies



EARPA mission and visions

The most prominent independent R&D providers

- 55 members in 16 countries
 - ~50% large and small companies and RTOs (full members), ~50% universities (associated members)
- High level research, supporting the industry
- A strong & pro-active network
- EARPA members offer a comprehensive portfolio of RTD
- Leading knowledge across all relevant technology areas; independence of product development

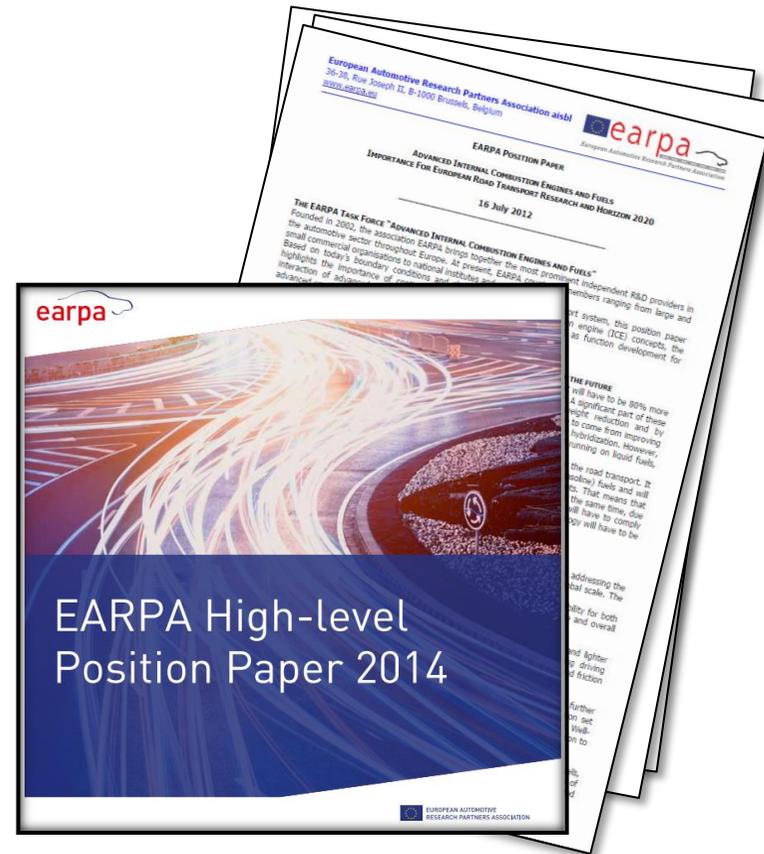


EARPA Task Forces



EARPA & Horizon 2020

1. EARPA's high level position paper
2. Regularly updated position papers of each EARPA Task Force – each focused on part / functionality of automotive R&D
3. Position papers on Cross-cutting issues: strengthening our system approach
4. Participation in Experts Groups, Answering EU Consultations
5. Contributions to European Visions and RTD Roadmaps





EGVI
European Green
Vehicles Initiative

European Green Vehicles Initiative Contractual PPP

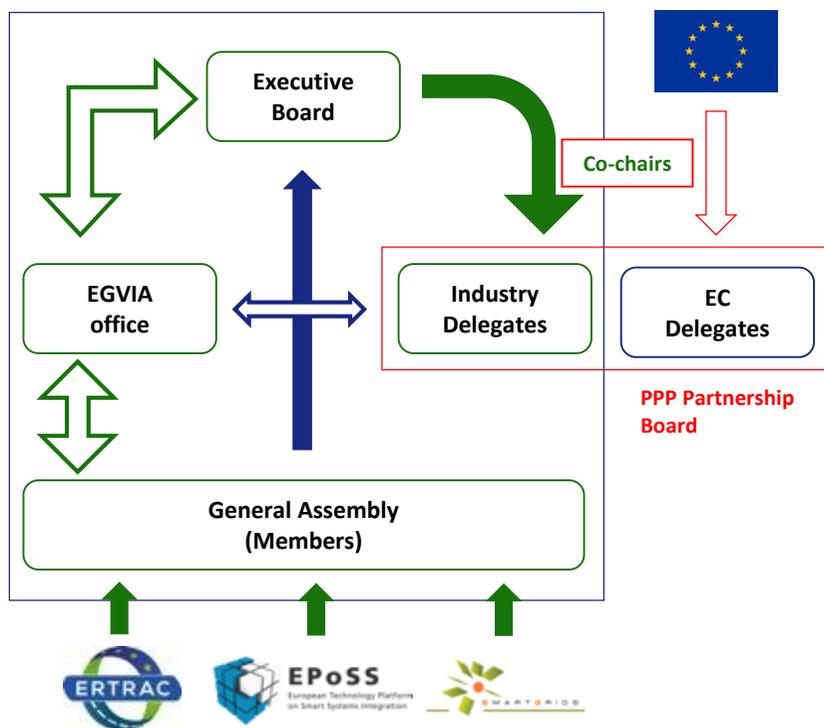


Governance Model of the cPPP



EGVI
European Green
Vehicles Initiative

EGVIA Association



- **Partnership Board:** governing body of the EGVI cPPP gathering:
 1. **Public side:** DG RTD, DG MOVE, DG CNECT
 2. **Private side:** Members of the EGVI Industry Delegation
- **Main tasks:**
 - ▶ Preparation of the Work Programmes & the EGVI calls
 - ▶ Preparation of updates of the EGVI cPPP Multiannual Roadmap

European Green Vehicles Initiative Association

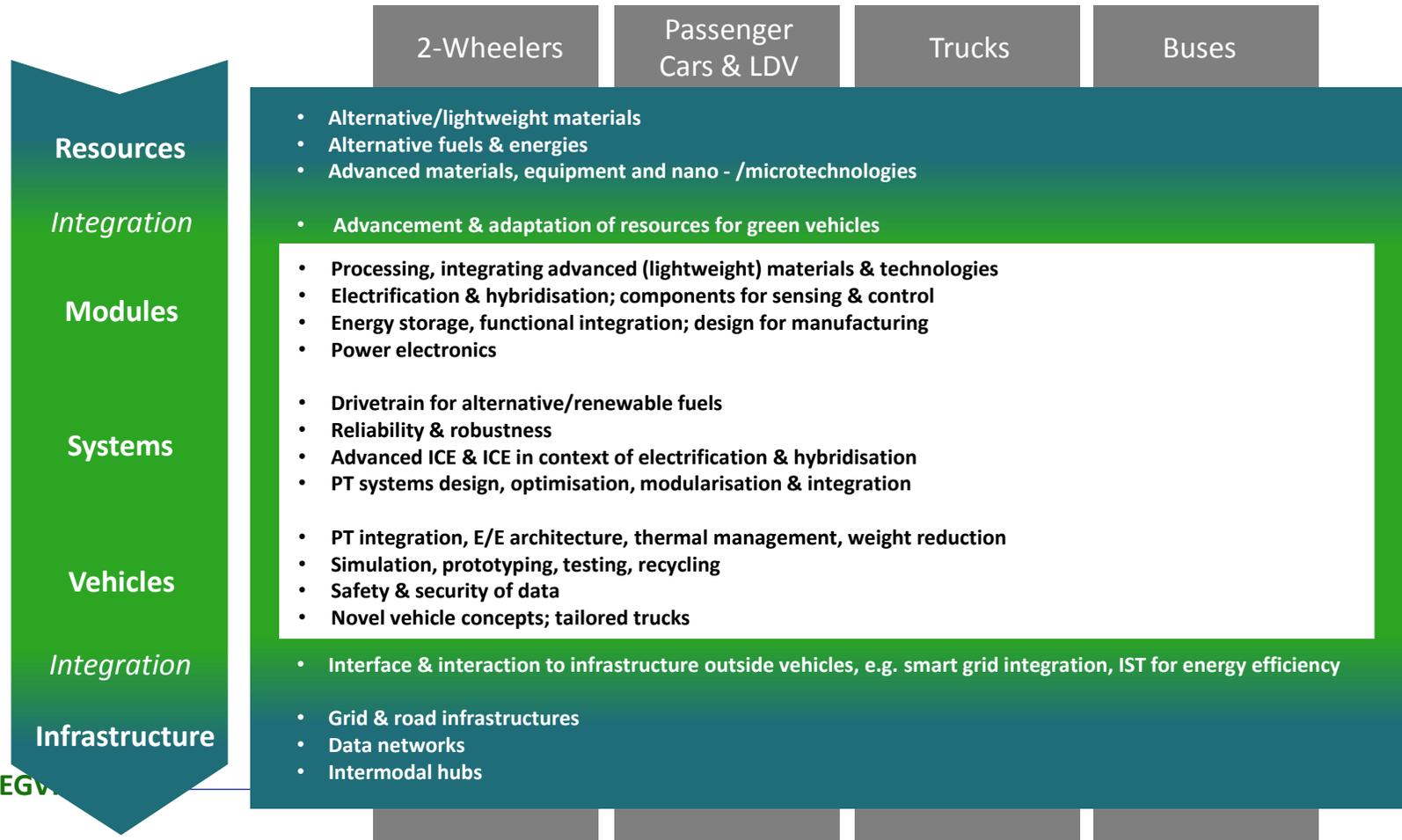


- **New association** gathering the members of the private side of the cPPP
- **Main objectives:**
 1. deliver research topics recommendations for EGVI calls
 2. disseminate information within the research community
 3. promote the PPP and its collaborative cooperation
- **EGVIA** currently composed of **84 industry**, research and associate members

EGVI Roadmap



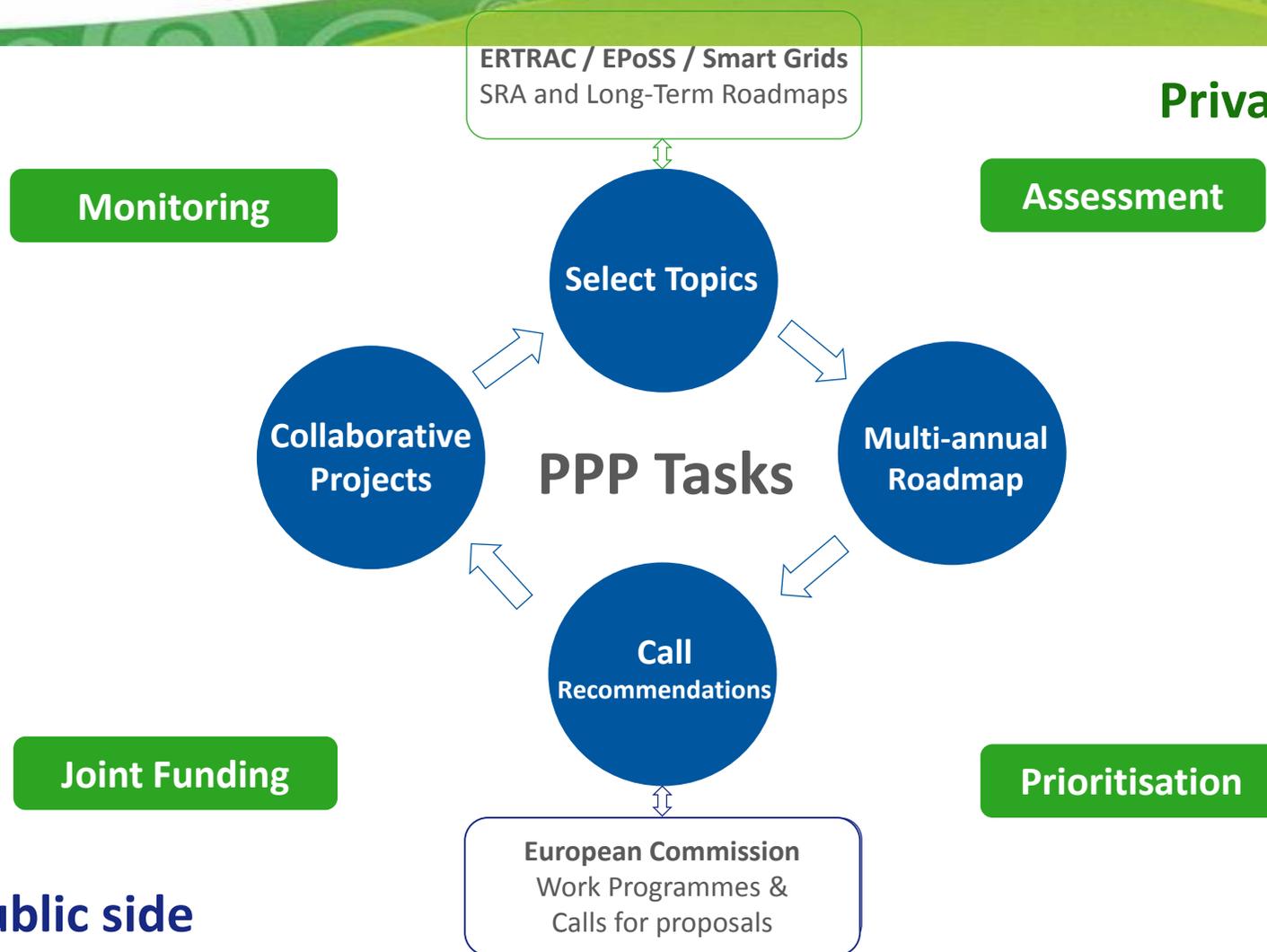
EGVI
European Green
Vehicles Initiative



Implementation scheme



EGVI
European Green
Vehicles Initiative





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- ⊕ Next Work Programme: 2018-2020 (3 years)
- ⊕ Open participation: companies, universities, SMEs, institutes... and beyond EU
- ⊕ Final draft available
- ⊕ One or two stages proposals
- ⊕ Strong areas: Automated Road Transport or ICT

LC-MG-1-1-2018: InCo flagship on reduction of transport impact on air quality

LC-MG-1-2-2018: Sustainable multi-modal inter-urban transport, regional mobility and spatial planning

LC-MG-1-3-2018: Harnessing and understanding the impacts of changes in urban mobility on policy making by city-led innovation for sustainable urban mobility

LC-MG-1-4-2018: Hardening vehicle environmental protection systems against tampering

MG-2-1-2018: Human Factors in Transport Safety

MG-2-4-2018: Coordinating national efforts in modernizing transport infrastructure and provide innovative mobility services

MG-3-3-2018: "Driver" behaviour and acceptance of connected, cooperative and automated transport

MG-4-1-2018: New regulatory frameworks to enable effective deployment of emerging technologies and business/operating models for all transport modes

MG-4-2-2018: Building Open Science platforms in transport

MG-4-3-2018: Demographic change and participation of women in transport

MG-4-4-2018-2019: Support for dissemination events in the field of Transport Research

DT-ART-01-2018: Testing, validation and certification procedures for highly automated driving functions under various traffic scenarios based on pilot test data

DT-ART-02-2018: Support for networking activities and impact assessment for road automation

LC-GV-01-2018: Integrated, brand-independent architectures, components and systems for next generation electrified vehicles optimised for the infrastructure

LC-GV-02-2018: Virtual product development and production of all types of electrified vehicles and components

Marie Curie Actions



There are four main types of MSCA:

- [Research networks \(ITN\)](#) : support for Innovative Training Networks that develop new researchers
- [Individual fellowships \(IF\)](#) : support for experienced researchers undertaking mobility between countries, with the option to work outside academia
- [Research and Innovation Staff Exchanges \(RISE\)](#) for international and inter-sectorial cooperation
- [Co-funding](#) of regional, national and international programmes that finance research training or fellowships involving mobility to or from another country

The MSCA also funds the [European Researchers' Night \(NIGHT\)](#), public events involving researchers which take place every year across Europe on the fourth Friday of September.

Fast Track to Innovation Pilot

THE ULTIMATE BOOST FOR OUTSTANDING BUSINESS INNOVATORS WITH A NEED FOR SPEED...



*In a consortium with 3 or 4 partners, at least 2 should be industry, and in a consortium with 5 partners, at least 3; alternatively at least 60% of the project budget should be allocated to industry (i.e. private for profit entities)

... AND EAGER TO COMPETE ON GLOBAL MARKETS...!

ACTIVITIES SUPPORTED

Systems validation in real working conditions – Testing – Piloting – Business model validation – Standard setting – Pre-normative research – EU quality label

SME Instrument

The instrument is structured in three phases, with the aim of transforming **disruptive ideas** into concrete, innovative solutions with a European and global impact.
SMEs are recommended to apply for Phase 1, but may also apply directly for subsequent phases:

PHASE 1

Concept & Feasibility Assessment
Idea to concept (6 months)

The SME will draft an initial **business proposal**.

The European Union will provide **€50 000 in funding** and business coaching.

PHASE 2

Demonstration, Market Replication, R&D
Concept to Market-Maturity (1-2 years)

The SME will further develop its proposal through **innovation activities**, and draft a more developed **business plan**.

The EU may contribute between **€0.5 million** and **€2.5 million*** and provide business coaching.

PHASE 3

Commercialisation
Prepare for Market Launch

The SME will receive extensive support to help polish its concept into a marketable product, and have access to **networking opportunities**.

The EU will not provide funding in this phase.



YOUR DEVELOPMENT PARTNER

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Plataforma ALICE y su vinculación con el programa Horizonte 2020

Barcelona, 6 de Noviembre de 2017

*Stefano Persi, ALICE Working Group on Information Systems for
Interconnected Logistics Vice-Chair*



Why ALICE?

Focus on 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**



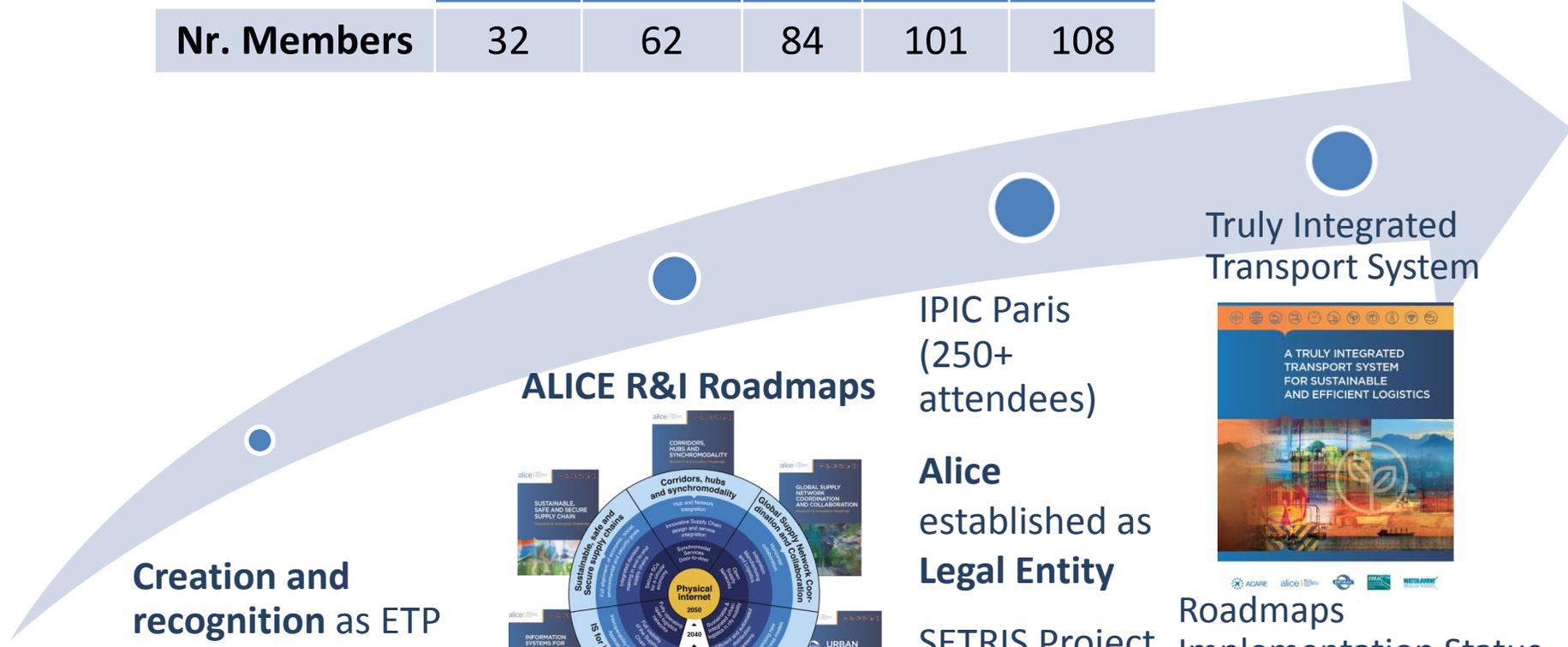
Mapping and analysis progress: R&I projects, Industry initiatives, Start-ups → Facilitate access to knowledge generated

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 development

	2013	2014	2015	2016	Now
Nr. Members	32	62	84	101	108

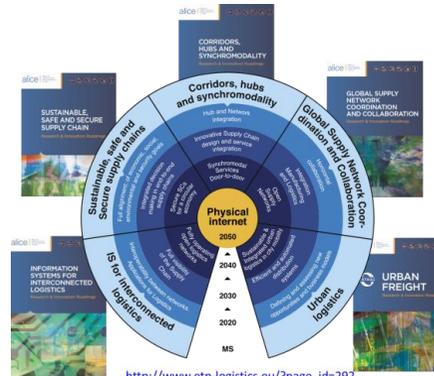


Creation and recognition as ETP by EC

Recommendations H2020 First Calls

Jun 2013

ALICE R&I Roadmaps



Recommendations H2020 2016-2017

2014

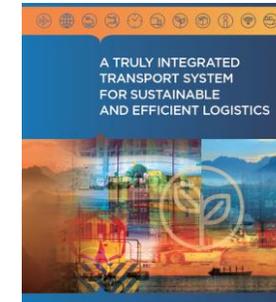
IPIC Paris (250+ attendees)

Alice established as Legal Entity

SETRIS Project Start

2015

Truly Integrated Transport System



Roadmaps Implementation Status



2016-2017

ALICE membership per type of Organization

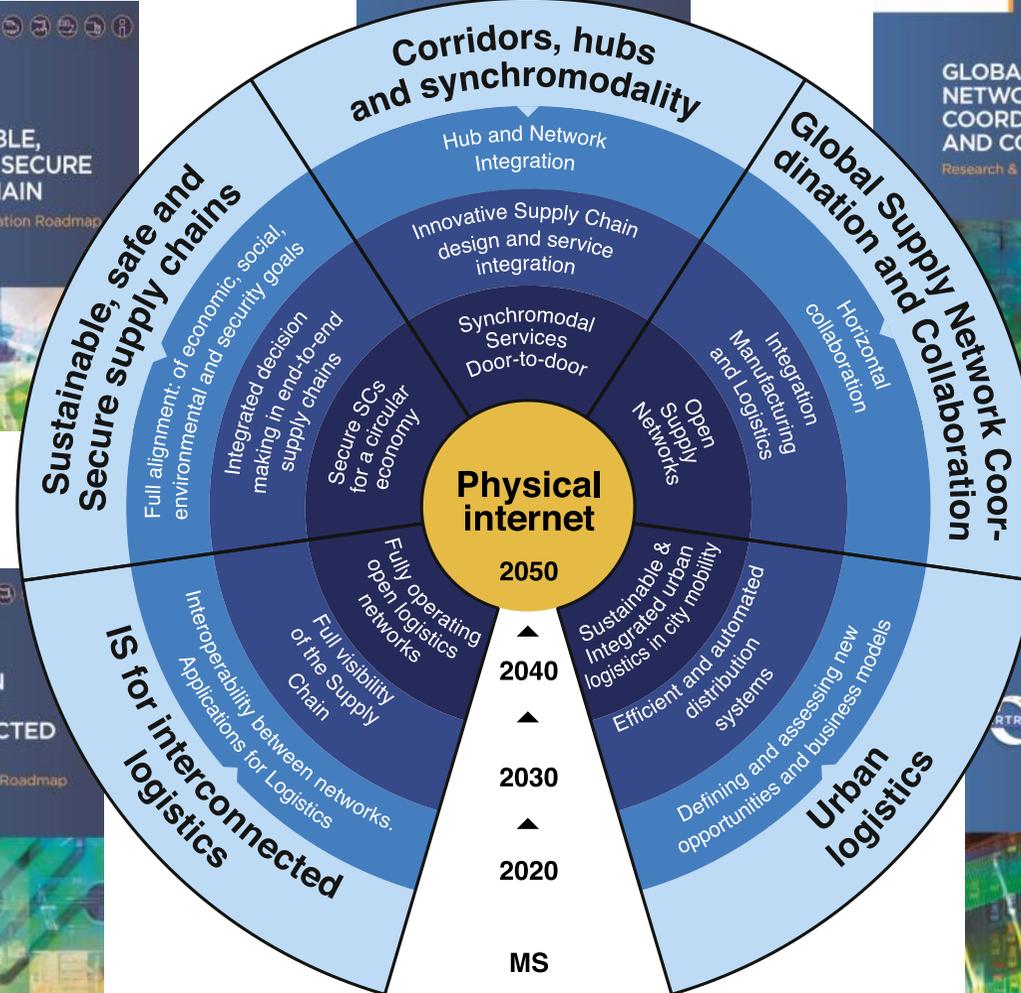
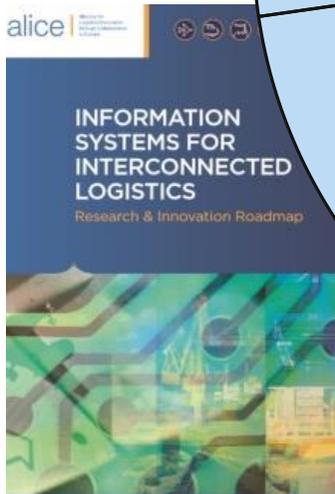
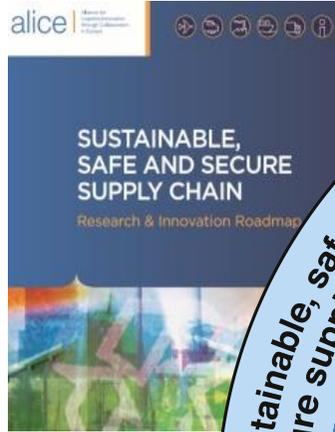


Alliance for Logistics Innovation through Collaboration in Europe

ALICE membership		
Type of Organization	Members	EU/International Associations
Shippers & Retail		
Logistics Service Providers, Courier and Postal operators & Freight Forwarders		
Ports, Hubs, Intermodal terminals & Transport Infrastructure		
Vehicle Manufacturers & Logistics operations, handling (modular units)		
Information and Communication Technologies & Consultancy		
Regional & Member States Logistics Clusters		
Research and technology Centers		
European Technology Platforms / PPPs		
Member States and innovation Funding*		

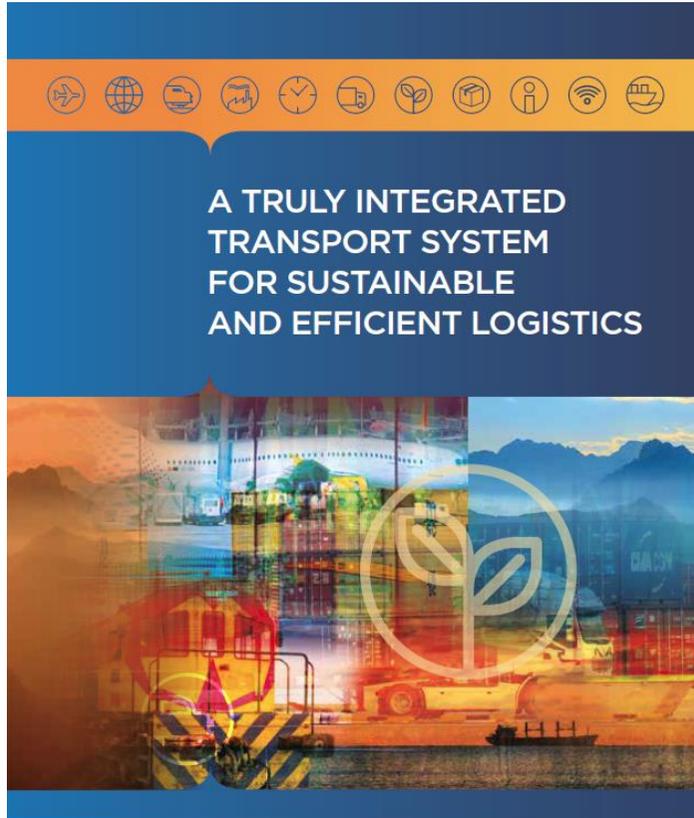
* Involved in ALICE Mirror Group

ALICE Roadmaps

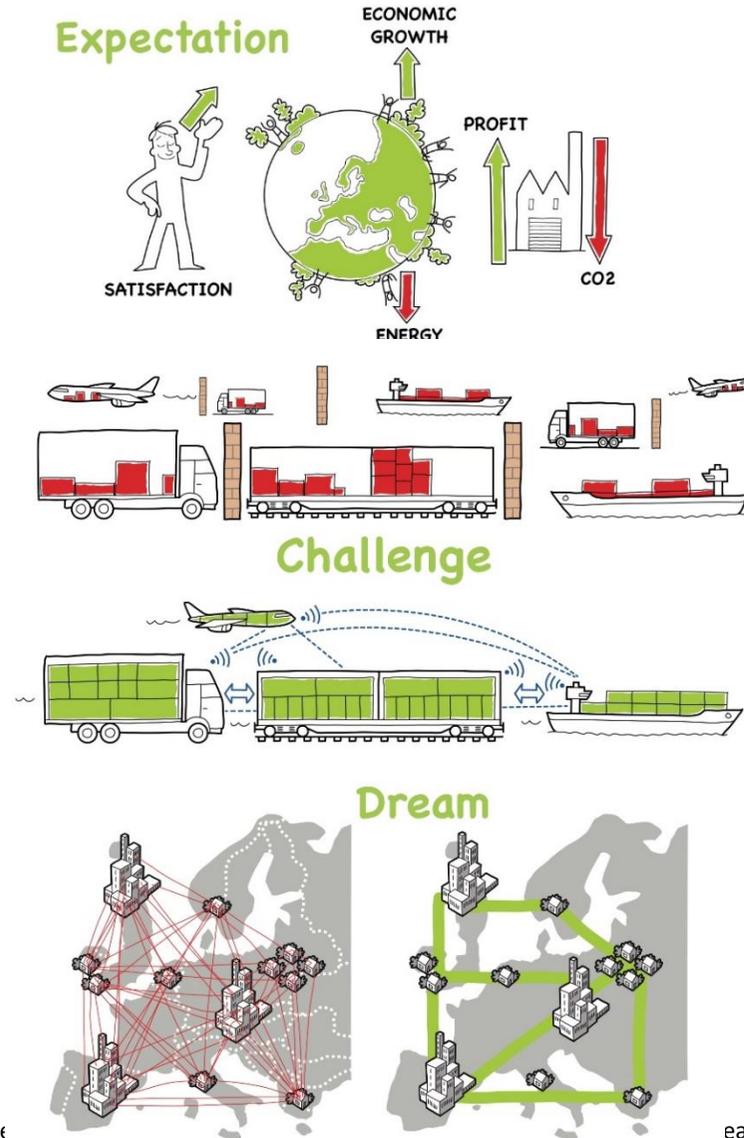


http://www.etp-logistics.eu/?page_id=292

Systemic Approach: Systems of Systems



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



Activities performed partially in the frame of WINN and SETRIS. The WINN/SETRIS project has received funding from the European Union's research and innovation Programme under grant agreements No. 314743 and 653739

research and innovation Programme

ALICE Cycle

Liaison Program with R&I projects & Proposals!!!!

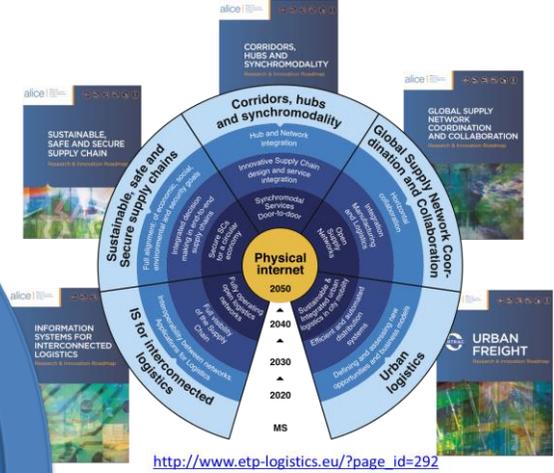


158 projects followed FP7/H2020

Roadmaps Implementation Status

Roadmaps: Gaps identification and Recommendations

H2020 & Member States Funding Programs



alice | Alliance for Logistics Innovation through Collaboration in Europe

ALICE Recommendations to H2020 Work Programs 2018-2020
December 2016

ALICE, Alliance for Logistics Innovation through Collaboration in Europe, is the European Technology Platform for Logistics, launched on June 11, 2013, and receiving official recognition from the EC in July

[Link to: ALICE Recommendations HORIZON 2020 WPs 2018-2020](http://www.etp-logistics.eu/?page_id=292)

MG-6.3-2015 - **Common communication and navigation platforms for pan-European logistics applications**

MG-5.1-2016 - **Networked and efficient logistics clusters**

.....

MG-2-9-2019 InCo Flagship on Integrated multimodal, low-emission freight transport systems and logistics

Specific Challenge: **Global** as well as **regional and local freight transport** is massively changing **New logistics concepts** (such as the **Physical Internet**) and **new disruptive technologies**, such as **Blockchain, Industry 4.0, vehicle automation** and **truck platooning** or **new business models, like 'crowdshipping' and the circular economy models** will have an **impact on global freight transport**, its optimisation and its environmental footprint that needs to be better understood and assessed. Furthermore **new trade routes from and to Europe** will probably change the traditional pattern of freight movement and will need new connections with European corridors and hubs at a time of budget limitation on investment for transport infrastructure.

Sustainable integrated multimodal freight transport is particularly important for the **development of countries in special situations** – least developed countries, landlocked developing countries, and small island states and outermost regions - These countries/regions also have an enormous potential for sustainable development. **International cooperation can support their economies** both domestically and globally for a global benefit and ensuring better integration of these regions into the world economic landscape.

MG-2-9-2019 InCo Flagship on Integrated multimodal, low-emission freight transport systems and logistics

Scope: Proposals should address one or more of the following aspects:

- **Understanding how new concepts in logistics, in combination with new national strategies to organize freight flows in ports and airports have an impact on global freight transport, and on related greenhouse gas emissions.**
- **Speed up the process and transition towards the Physical Internet paradigm,**
- **Research the range of new issues and questions emerging with the new trade routes to and from Europe, such as the Northern Sea Route (across an ice-free Arctic in summer months) or the new Silk Road routes and the Chinese One Belt One Road strategy;**

**ALICE
Recommendations**

**20. Physical Internet
business cases
demonstration**

**7. An adaptive
sychromodal
European freight
network strategy**

MG-2-9-2019 InCo Flagship on Integrated multimodal, low-emission freight transport systems and logistics

- **Understand new disruptive trends emerging as on-demand logistics solutions such as crowd-sourcing of deliveries**
- **Assess the impact of emerging technologies in other sectors than freight transport (e.g. Blockchain, Industry 4.0, 5G, 3D printing, unmanned aerial vehicles (UAV's)) on the logistics operational system..**
- **Collect best case models and develop decision support systems aimed at helping public authorities and private companies to determine the most likely scenarios** and to promote a higher level of collaboration between the different stakeholders, including new emerging ones.
- **Consideration of aspects of governance, privacy and cybersecurity of and with regard to cargo.**

6. New business models for logistics services based on disruptive sharing economy

5. Scenarios for logistics developments

MG-2-9-2019 InCo Flagship on Integrated multimodal, low-emission freight transport systems and logistics

Project between **EUR 3 and 7 million** expected. Funding for the Topic 14 Million €

International cooperation is encouraged. In particular proposals should consider cooperation with projects or partners from the US, Japan, Canada, China, Latin America.

Expected Impact: improved integration of the European transport network (both hard – TEN-T – and soft – logistics and IT) with the global network, through the **sustainable development of the transport nodes** likely to benefit from the **emergence of new trade routes** and harmonised platforms and new and revised 'nodes', also in support of the sustainable development of new logistics routes and their link with national/regional markets. **Better understanding of the impact of emerging technologies on freight flow** and subsequent guidelines to optimize vehicle, infrastructure and operation accordingly. **Facilitate the development of disadvantaged regions and their inclusion into the international trading system.** Better understanding of links between technological development, trade and geopolitics. Research should be validated in a **selected number of case studies through pilot demonstration, trials and testing involving service providers and end-users.**

Deadline 1st Stage: 16 January 2019

LC-MG-1-10-2019 Logistics solutions that deal with requirements of the 'on demand economy' and for shared-connected and low-emission logistics operations

Projects between EUR 2 to 4 million each expected. Budget for this topic: 10 Million €

Deadline 1st Stage: 16 January 2019

DT-ART-04-2019: Developing and testing shared, connected and cooperative automated vehicle fleets in urban areas for the mobility of all

Projects between EUR 15 to 30 million each expected. Budget for this topic: 30 Million €

Deadline Single Stage: 24 September 2019

MG-2-6-2019: Moving freight by Water: Sustainable Infrastructure and Innovative Vessels

Projects between EUR 5 to 10 million each expected. Budget for this topic: 30 Million €

Deadline 1st Stage: 16 January 2019

LC-MG-1-2-2018: Sustainable multi-modal inter-urban transport, regional mobility and spatial planning (includes freight)

Projects between EUR 5 to 8 million each expected. Budget for this topic: 12 Million €

Deadline 1st Stage: 30 January 2018!!

LC-MG-1-3-2018: Harnessing and understanding the impacts of changes in urban mobility on policy making by city-led innovation for sustainable urban mobility (includes freight)

Projects between EUR 2 to 4 million (RIA) and 3 million (CSA) each expected. Budget for this topic: 11 Million €

Deadline 1st Stage: 30 January 2018!!

MG-2-6-2019: Moving freight by Water: Sustainable Infrastructure and Innovative Vessels

Projects between EUR 5 to 10 million each expected. Budget for this topic: 30 Million €

Deadline 1st Stage: 16 January 2019

H2020 Other WP 2018-2019: topics related to ALICE

Topic Title	Work Program	Action Type ¹	Size (Million €)	Available (Million €)	Deadline
SU-DS01-2018: Cybersecurity preparedness - cyber range, simulation and economics	Secure Soc.	IA	5-6	16	23.08.2018 (Single St.)
CE-SC5-03-2018: Demonstrating systemic urban development for circular and regenerative cities	Climate action...	IA	10	39	27.02.2018 (1 st Stage)
ICT-08-2019: Security and resilience for collaborative manufacturing environments	ICT	RIA	4-6	11	28.03.2019 (Single St.)
ICT-01-2019: Computing technologies and engineering methods for cyber-physical systems of systems	ICT	RIA	2-5	38	28.03.2019 (Single St.)
ICT-13-2018-2019: Supporting the emergence of data markets and the data economy	ICT	IA	4-6	48	28.03.2019 (Single St.)



INFO-DAY & BROKERAGE EVENT

Logistics topics in H2020

Brussels, 14th of December 2017

<https://alice-brokerage2017.b2match.io/>

*Logistics innovation for a more
competitive and sustainable industry*



Infoday “*Smart, Green and Integrated Transport*”

Brussel·les, 13 de desembre de 2017

Barcelona, 19 de desembre de 2017

Infoday Logistics Topics Horizon 2020

Brussel·les, 14 de desembre de 2017

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