

# UNO and CITET

alice | Alliance for  
Logistics Innovation  
through Collaboration  
in Europe



Business  
Excellence



Sustainability and  
environment



Innovation and ICTs



logistop 

Plataforma Tecnológica en Logística Integral, Intermodalidad y Movilidad



***ETP on Logistics ALICE: Alliance for Logistics  
Innovation through Collaboration in Europe***

# What are the European Technology Platforms, ETPs?

*"European Technology Platforms (ETPs) are industry-led stakeholder fora that develop short to long-term research and innovation agendas and roadmaps for action at EU and national level to be supported by both private and public funding"\**

[http://cordis.europa.eu/technology-platforms/home\\_en.html](http://cordis.europa.eu/technology-platforms/home_en.html)

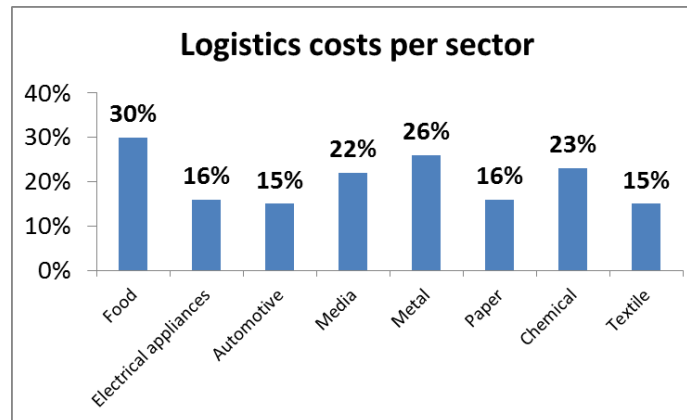
# What are the European Technology Platforms, ETPs?

- There are 38 ETPs, covering the most important technological areas
- They connect thousands of European companies, knowledge institutes and policy makers and have facilitated the development of a common vision and research agenda for each of the 38 technology fields they represent
- The ETP research agendas have helped the European Commission to take industry's needs into account when shaping the Framework/HORIZON 2020 Programme (52 Billion € 2007-2013/70 Billion € 2014-2020)

[http://cordis.europa.eu/technology-platforms/individual\\_en.html](http://cordis.europa.eu/technology-platforms/individual_en.html)

# The importance of Logistics

- Logistics industry in Europe → 14% of GDP<sup>1</sup>. Six countries out of the global top-10 logistic performers are from the EU in 2012<sup>2</sup>
- On average, logistics costs account for 10-15% of the final cost of the finished product<sup>4</sup>.
- Transportation is responsible for around a quarter of EU greenhouse gas emissions<sup>3</sup>



**High potential contribution to European competitiveness and sustainability targets (Cost, CO<sub>2</sub> and energy savings)**

<sup>1</sup> COM(2007) 607 final. "Freight Transport Logistics Action Plan" European Commission, Brussels, 18.10.2007

<sup>2</sup> Worldbank.org "Connecting to Compete 2012" [http://siteresources.worldbank.org/TRADE/Resources/239070-1336654966193/LPI\\_2012\\_final.pdf](http://siteresources.worldbank.org/TRADE/Resources/239070-1336654966193/LPI_2012_final.pdf).


<sup>3</sup> [http://ec.europa.eu/clima/policies/transport/index\\_en.htm](http://ec.europa.eu/clima/policies/transport/index_en.htm)

<sup>4</sup> European Logistics Association (2007)

# R&D in Logistics and Supply Chain Management is fast moving:

- **Industry** (Shippers and Logistics Service Providers) own core R&D groups/centers in logistics and Supply Chain Management: P&G, DHL, K+N...
- **National initiatives** to overcome sector fragmentation and take-up of R&D leading to industry innovation: DINALOG (Netherlands), LOGISTOP (Spain), ILIM (Poland), VNL (Austria),...
- **20+ (regional) research driven logistics clusters:** LC Lower Austria (Austria); VIL and Logistics in Wallonia (Belgium); I-TRANS, Novalog, PIL (France); EffizienzCluster, LogDynamics, HOLM, KLOK (Germany); ALIA, AML, CCTL, MLC (Spain), CLOSER, NetPort (Sweden) and many others

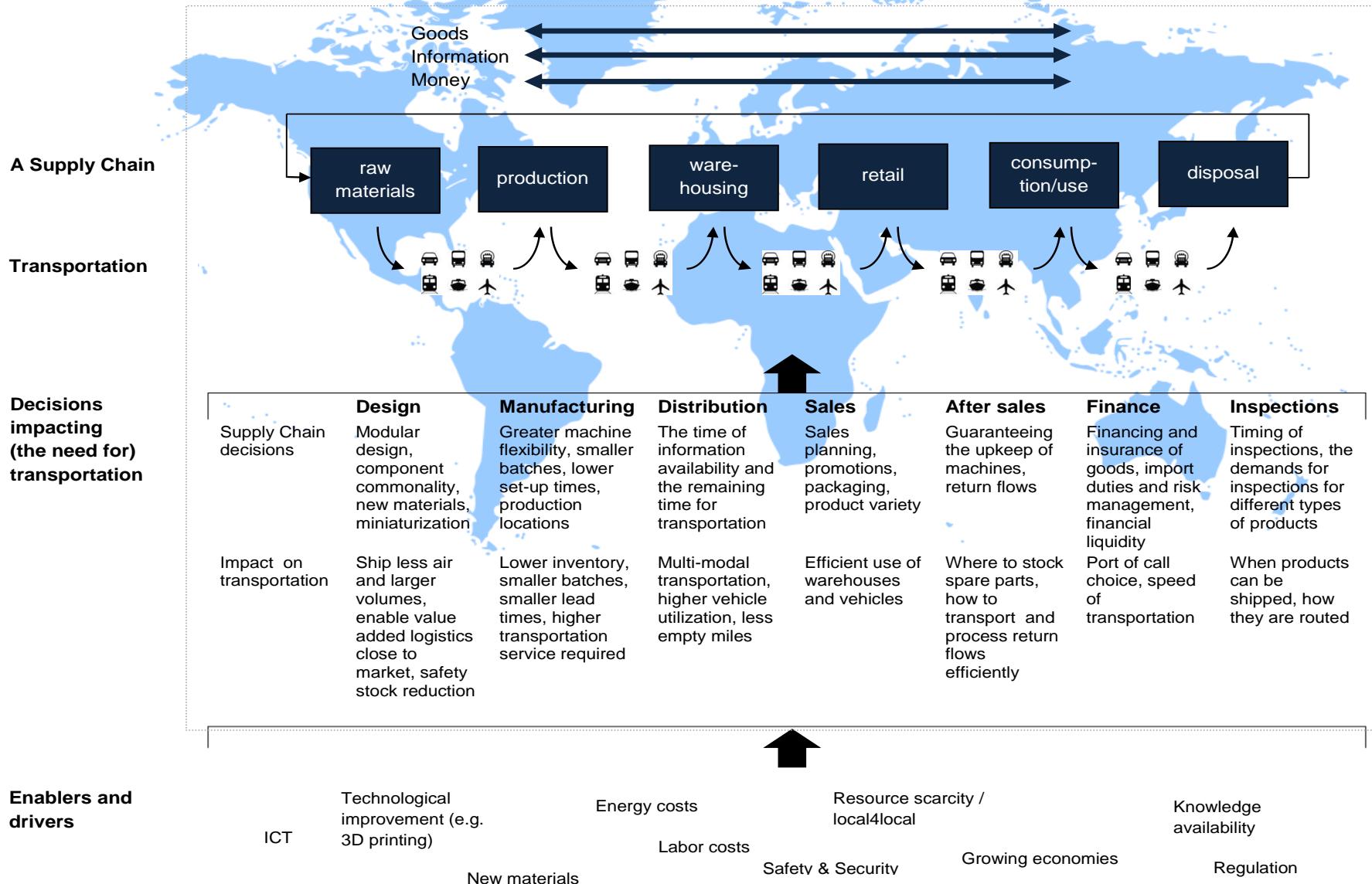
# Market opportunity and vision

A 10% to 30%  efficiency in EU logistics sector  
=  
€ 100 – 300 billion cost relief for European industry

Make European industry resilient by a true “people, planet, profit” oriented logistics and supply chain sector.

A sector that is economically, environmental and socially sustainable contributing to both industry competitiveness and the EU policy targets

# Logistics and Supply Chain





# Shippers decisions influence logistics and transport

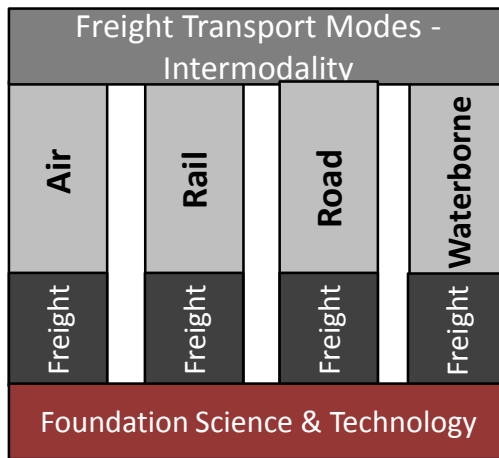
- Shipping of components instead of full products: postponement whenever possible
- Supply chain consolidation and coordination, both along and across supply chains
- Reconsidering production locations, considering both transport and sustainability issues
- Pressure on consolidation as well as reverse flows in urban logistics

**Is not only a matter of how to transport but also what to transport!!!!**

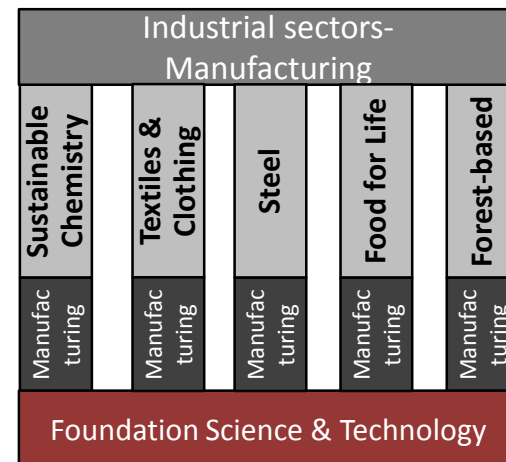
The connection between Modes and Industry for  
Optimized Logistics and Supply Chain Management

## Logistics + Supply Chain

### How to Transport



### What to Transport



# ETP on Logistics: Scope Related ETPs

The connection between Modes and Industrial ETPs for  
Optimized Logistics and Supply Chain Management

## Logistics + Supply Chain

How to Transport

What to Transport



# Current individual (38) European Technology Platforms, ETPs

Bio-based economy	Energy	Environment	ICT	Production and processes	Transport (more than....)
<a href="#"><u>EATIP</u></a>	<a href="#"><u>Biofuels</u></a>	<a href="#"><u>WssTP</u></a>	<a href="#"><u>ARTEMIS</u></a>	<a href="#"><u>ECTP</u></a>	<a href="#"><u>ACARE</u></a>
<a href="#"><u>ETPGAH</u></a>	<a href="#"><u>EU PV TP</u></a>		<a href="#"><u>EUROP</u></a>	<a href="#"><u>ESTEP</u></a>	<a href="#"><u>ERRAC</u></a>
<a href="#"><u>Food for Life</u></a>	<a href="#"><u>TPWind</u></a>		<a href="#"><u>ETP4HPC</u></a>	<a href="#"><u>EuMaT</u></a>	<a href="#"><u>ERTRAC</u></a>
<a href="#"><u>Forest-based</u></a>	<a href="#"><u>RHC</u></a>		<a href="#"><u>ENIAC</u></a>	<a href="#"><u>FTC</u></a>	<a href="#"><u>Logistics</u></a>
<a href="#"><u>Plants</u></a>	<a href="#"><u>SmartGrids</u></a>		<a href="#"><u>EPoSS</u></a>	<a href="#"><u>SusChem</u></a>	<a href="#"><u>Waterborne</u></a>
<a href="#"><u>FABRE TP</u></a>	<a href="#"><u>SNETP</u></a>		<a href="#"><u>ISI</u></a>	<a href="#"><u>Nanomedicine</u></a>	
<a href="#"><u>TP Organics</u></a>	<a href="#"><u>ZEP</u></a>		<a href="#"><u>Net!Works</u></a>	<a href="#"><u>ETP-SMR</u></a>	
			<a href="#"><u>NEM</u></a>	<a href="#"><u>Manufuture</u></a>	
			<a href="#"><u>NESSI</u></a>		
			<a href="#"><u>Photonics 21</u></a>		
Cross ETP Initiatives					
<a href="#"><u>Nanofutures</u></a>					
<a href="#"><u>Industrial Safety</u></a>					

[http://cordis.europa.eu/technology-platforms/individual\\_en.html](http://cordis.europa.eu/technology-platforms/individual_en.html)

# Mission

- **Development of new logistics and supply chain concepts and innovation** for a more competitive and sustainable industry.
- The ambition is to **contribute to a 30% improvement of end to end logistics performance by 2030.**
- The ETP on logistics aims to **accelerate** the **deployment** of more efficient, competitive and sustainable supply chains.

# Way to achieve

- Bring together **primary stakeholders: shippers and logistics service providers**
- Other relevant stakeholders: **transport companies, terminal operators, support industry** and **research and education**
- **Collaboration with related ETPs:** ERTRAC, ERRAC (Shift2Rail), WATERBORNE AND MANUFUTURE (FoF)

# Activities/Output:

- **Define research and innovation** strategies, roadmaps and priorities agreed by all stakeholders to achieve the ETP on Logistics vision. These items will assist the European Commission in the definition of Research and Innovation Programs, i.e. HORIZON 2020
- **Foster innovation in logistics and supply chains**, stimulating and accelerating innovation adoption in order to make possible the growth of the European economy through competitive and sustainable logistics.
- **Raise the profile and understanding of new logistics technologies** and business processes, **monitoring progress and adjusting** research and innovation roadmaps accordingly.
- Contribute to a **better alignment and coordination of European, national, regional innovation programs in logistics**.
- **Provide a network for interdisciplinary collaborative research** involving industry, academia and public institutions.

# ETP on Logistics will not...

- Will not focus on general logistics policy applications
- Will not include building of transportation infrastructure or vehicle manufacturing and optimization for unimodal transport → This is addressed by modal ETPs: Rail, Road, Waterborne, Air and ETP on infrastructure: Construction
- Will not include manufacturing and specifics on industry sectors → This is addressed by ETPs on: food, textile, chemical, forest, steel and manufacturing

# HORIZON 2020 logistics related items

COM(2011) 809 final. "Proposal for a REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing Horizon 2020 - The Framework Programme for Research and Innovation (2014-2020)" European Commission, Brussels, 30.11.2011

*Developing and applying new concepts of freight transport and logistics*

*Contribution to low carbon supply chains*

*Transport usage more energy efficient*

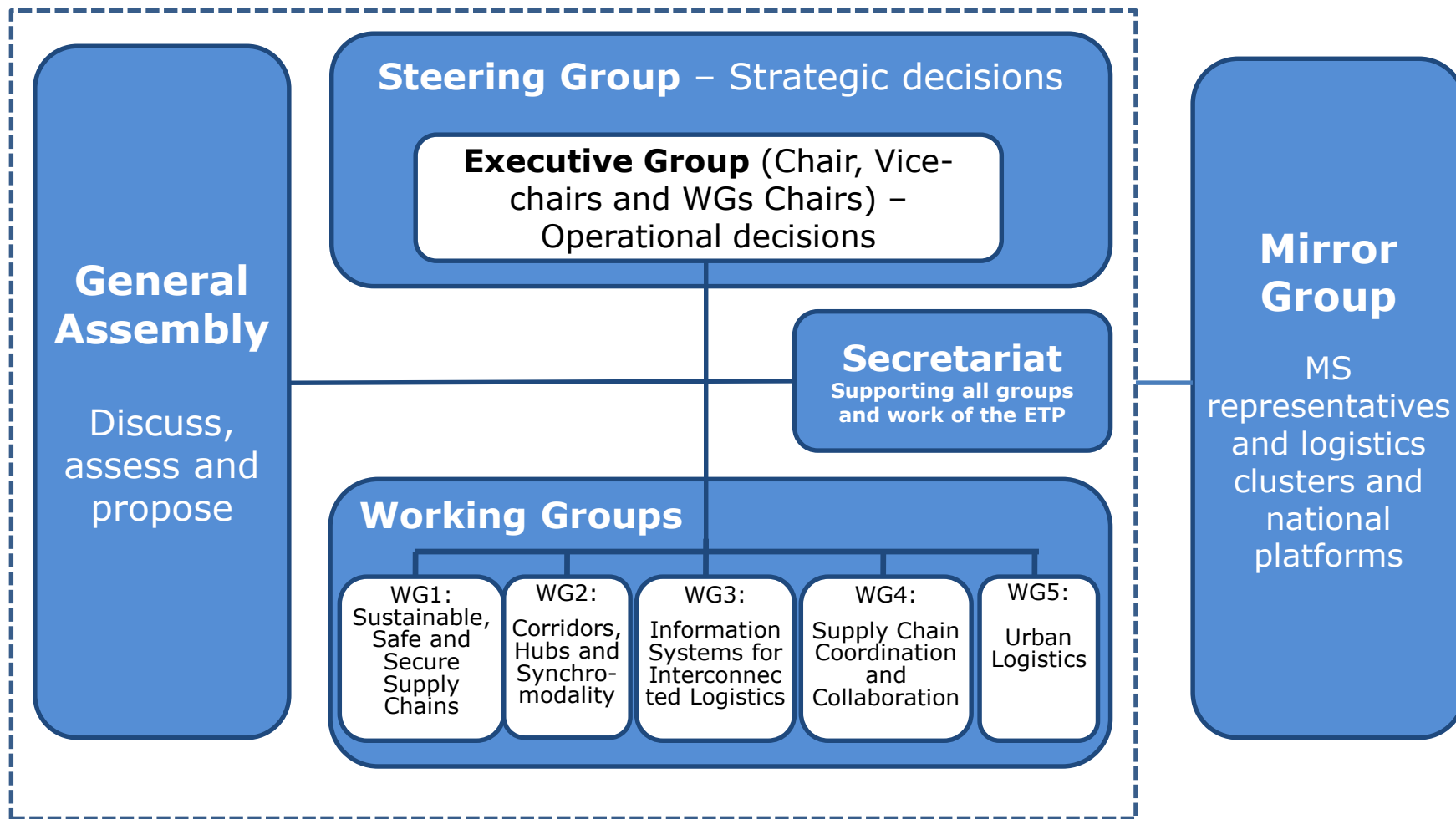
*Achieving virtually CO<sub>2</sub>-free city logistics in major urban centres by 2030*

*30 % of road freight transport over 300 kilometres should shift to rail and waterborne transport\**

\* ETP on logistics is in favour of using the most efficient combination of transport modes



# ETP proposed structure



# ETP Steering Group composition



# ALICE Chair and vice-chairs

- Chairman:



Ralph Keck. Director Product Supply GTM Innovation (P&G)



- Vice-chairman:



Prof. Dr. Rod Franklin. Vice President, Product Development (K+N)



- Vice-chairman:



Prof. Dr. Henk Zijm. Research Director (DINALOG)



# ETP Working Groups Chairs

## Logistics + Supply Chain

**Sustainable,  
Safe and  
Secure Supply  
Chains**



**Prof. dr. W.H.M.  
(Henk) Zijm**



**Corridors,  
hubs and  
synchro-  
modality**



**Angelo  
Aulicino**



**Marcin  
Hajdul**



**Lóri  
Tavasszy**



**Information  
systems for  
interconnected  
logistics**



**Rod  
Franklin**



**KUEHNE+NAGEL**



**Stefano  
Persi**



**Supply Chain  
Coordination  
and  
Collaboration**



**Sergio  
Barbarino**



**Dirk 't  
Hooft**



**Paolo  
Paganelli**



**Urban  
Logistics**



**Eduardo  
Zapata**



**Emilio  
Gonzalez**



# ETP agenda for next 12 months

- 1<sup>st</sup> Steering Group Meeting and Official Launching of the ETP: Vision, Mission, Scope, Terms of Reference, HORIZON 2020 input approval. June 11<sup>th</sup>
- Finalization of Steering Group Composition. Sept 2013
- Presentation of ETP at EC Transport Program Committee. Sept 26<sup>th</sup>
- 2<sup>nd</sup> Steering Group Meeting. Nov 2013.
- ETP WGs scope, work plan and expected results: Draft Innovation Roadmaps.

## **Current work**

### **Research topics definition and justification. KPIs.**

- Timeline proposal to the EC:
  - Creation of core group of each WG (June-July)
  - Launching of WGs to contribute to the SR&IA and Roadmaps (Sept-Oct)
  - 1<sup>st</sup> Draft of the SRA and Roadmaps (1<sup>st</sup> quarter 2014)
  - Internal consultation (April 2014)
  - External consultation (2<sup>nd</sup> Quarter 2014)
  - Approval and endorsement (Fall 2014)
- Participation of ETP at next TRA Conference (Apr 2014)

# Participation benefits

- 1) Define industry research and innovation needs and challenges in logistics and supply chain management
- 2) Assist the European Commission to define EU co-funded programs, starting with HORIZON 2020, to implement these innovation needs supporting competitiveness and sustainability targets
- 3) Access a network for interdisciplinary collaborative research involving industry, academia and public institutions
- 4) Be at the forefront of industry innovation development and implementation
- 5) Have a role in developing regulatory requirements needed for innovation implementation

The project **WINN, European Platform Driving KnoWledge to INNovations in Freight Logistics** is funded by the EC (1 Million)

EC expects WINN to be a tool to build and serve the ETP on logistics (secretariat function) to support the definition of innovation roadmaps and the execution of the ETP mandate

<http://winn-project.eu/>



# WINN Project Consortium



Instytut Logistyki i Magazynowania





ECITL Parallel B (Friday 12:30):  
**ICT contributions and challenges for logistics  
innovation**

Moderators: Georgia Aifadopoulou, Fernando Liesa

**Participants:** Margherita Forcolin, Andreas Kirchhainer, Jens  
Schumacher, Stefano Persi, Alexander Stathacopoulos and **YOU!!!**

Feed ALICE roadmap on  
ICT for Logistics with  
your ideas



*Logistics innovation for a more  
competitive and sustainable industry*

*Thanks for your attention*

*Questions?*