# Industry lead logistics innovation for a more competitive and sustainable industry

The European Technology Platform ALICE







# Content

- 1. Who is ALICE?
- 2. The vision for ALICE organization
- 3. ALICE ambition: Support transition to Zero Emissions Logistics in an affordable way
- 4. Overall structure & activities
- 5. ALICE value for members
- 6. How to join



# Who is ALICE

ALICE, Alliance for Logistics Innovation through Collaboration in Europe

not-for-profit association, registered in Brussels, since 2015

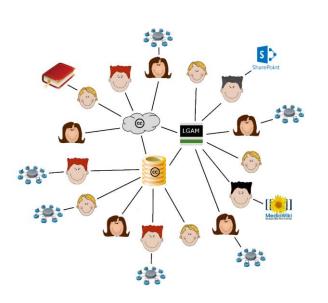
Recognized by the European Commission as a *European Technology Platform*<sup>1</sup>

1. European Technology Platforms, ETPs are industry-led stakeholder for 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. More Info on ETPs <a href="http://www.etp-logistics.eu/wp-content/uploads/2021/03/Logistric-TP-recognition-SWD 2013 272 F1 STAFF WORKING PAPER EN V2 P1 735480.pdf">http://www.etp-logistics.eu/wp-content/uploads/2021/03/Logistric-TP-recognition-SWD 2013 272 F1 STAFF WORKING PAPER EN V2 P1 735480.pdf</a>

## ALICE membership is bringing an holistic approach All key logistics stakeholders represented!

Type of Organization	Members	EU/International Associations
Shippers & Retail	P&G L'ORÉAL proximus PEPSICO CHEP A Brambles Company Unilever	ESC ELUPEG (GS1
Logistics Service Providers, Courier and Postal operators & Freight Forwarders	GEODIS  SERVISION SERVISION FM >LOGISTIC  SERVISION SERVISION FM >LOGISTIC  SERVISION SERVISION SERVISION SERVISION FM >LOGISTIC  SERVISION SERVIS	CLECAT CC CC G Teuropean Vahicle Logistics
Ports, Hubs, Real Estate companies, Intermodal terminals & Transport Infrastructure	Port of Rotterdam    Signature Rangement   S	INE NAME AND ADDRESS OF THE PROPERTY OF THE PR
Transport and industry vehicles, packaging & material handling	VOLVO SCANIA TEVA LOGIFRUIT KION PONERA	eucar EUROPEAN COUNCUL FOR ANT DROTTIVE FAD
Information and Communication Technologies & Consultancy	MARLO ALSIC SILENTO SENSORS PRODUCTBLOKS  PRODUCTBLOKS  RIFT DESCION OTRAXENS  OTRAXEN	ERTICO
Regional & National Logistics Clusters & Associations	VIII VEREIN AITCARGO BEIGIUM LOGISTOR  MARLOG	Smart Freight Centre
Research and technology Centers	Fraunhofer  INL  Fraunhofer  IF  INC  INC  INC  INC  INC  INC  INC	ectri ELA
European Technology Platforms /PPPs	WATERBORNE WATERBORNE SOURCE OF SHARRING Addition? Goods  ERRAC THE Linguish But Sharring Addition? Goods  ERRAC THE Linguish But Sharring Addition? Goods  AMANUFUTURE Initiative	
Member States and innovation Funding*	Department for Transport  TKI DINALOG  LOS TENDINGS CONTROL TO THE GRAND DUCH OF ELECTIONS CONTROL TO THE GRAND DUCH OF ELECTION CONTROL TO THE GR	







European leading companies and experts implementing logistics and supply chain innovation

New concepts – influence - knowledge management – collaboration

Mission: acceleration of decarbonization in affordable way



### **ALICE Chair and Vice-Chairs**



Sergio Barbarino **ALICE Vice Chair** 





Pieter Leonard







Salvador Furió Tomas Ambra



Director of Innovation & Port Cluster Development





Logistics Research Lead



Francois Regis Le Tourneau **ALICE Chair** 

ĽORÉAL

Coorporate Supply Chains Standards & Prospectives Director



**Angelos Amditis Lars Deiterding** 



Research Director



**Executive Director** 



**Nik Delmeire** 

ALICE Vice Chair

Coordinator



**Michael Archer** 



Strategy Development Director, Europe



**Charlotte Migne** 



Group Sustainable Development Director

## Secretariat











Indrek IIves System & Technologies for Interconnected Logistics Programme Coordinators



Pablo Segura Project Support & Knowledge Manager



Andrea Annunziata Project Support & Knowledge Manager



Mar Vicente Secretariat Support

## Thematic Group leaders

**Efficient and Low Emissions** Assets and **Energy** 

Corridors, hubs and synchromodality

**Systems** and **Technologies for** Interconnected Logistics

**Supply Network Coordination &** Collaboration

Urban Logistics

### **ALICE vision, mission, roadmaps and Thematic Groups**

ALICE Thematic groups (TGs) and link to roadmaps

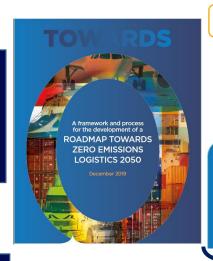


Alliance for Logistics Innovation through Collaboration in Europe

POLIS

#### **ALICE VISION**

Freight transport and logistics is climate neutral and zero emission. Physical Internet paves the way to achieve this transition in an affordable way



#### **Urban Logistics**

Corridors, hubs and synchromodality Global Supply
Network
Coordination &
Collaboration

Efficient and Low Emissions
Assets and Energy

alice Allarice for Logistics Proceedings through Collaboration in Function

Cities-Regions and Compan working together

Guide for advancing towards zero-emission urban logistics by 2030

FREIGHT DEMAND GROWTH IS MANAGED





**TRANSPORT** 







**FLEETS AND** 

**ASSETS ARE** 

**ENERGY EFFICIENT** 



FLEETS AND ASSETS

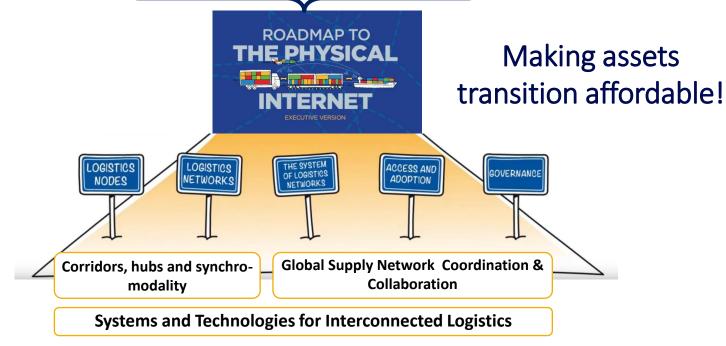
**USE LOWEST** 

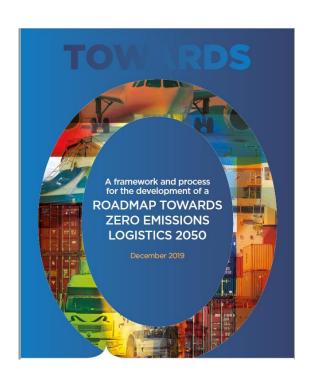
**EMISSIONS ENERGY** 

#### **ALICE MISSION**

Support our members and stakeholders to achieve logistics decarbonization in an affordable way

Having a clear medium-long term roadmap supports ALICE and its members to focus on short term actions and impacts





Link to the document

FREIGHT DEMAND GROWTH IS MANAGED





- Supply chain restructuring
- Localization and nearshoring
- Decentralization of production and stockholding
- 3D printing
- Dematerialization
- Consumer behavior

TRANSPORT
MODES ARE
SMARTLY USED
AND COMBINED



- Increased use of rail
- Increase use of short sea shipping and inland waterways
- Modular road transport
- Cargo bikes
- Multi-modal optimization
- Synchromodality

FLEETS AND
ASSETS ARE
SHARED AND
USED TO THE MAX



- Load optimization
- Load consolidation and asset sharing
- Reduce empty moves
- Modular packaging and boxes
- Open transport networks and warehouses
- Increase storage density and energy efficiency

FLEETS AND ASSETS ARE ENERGY EFFICIENT



- Cleaner and efficient technologies
- Efficient vehicles and vessels
- High capacity vehicles / duo trailers
- Driving behavior
- Fleet operation
- Fleet maintenance

FLEETS AND ASSETS
USE LOWEST
EMISSIONS ENERGY
SOURCE FEASIBLE







- Electric / hybrids
- Solar / Wind
- Biofuels
- Hydrogen
- CNG/bio-LNG
- Cleaner diesel
- Fuel management

© Smart Freight Centre and ALICE-ETP based on A. McKinnon 'Decarbonizing Logistics' (2018)

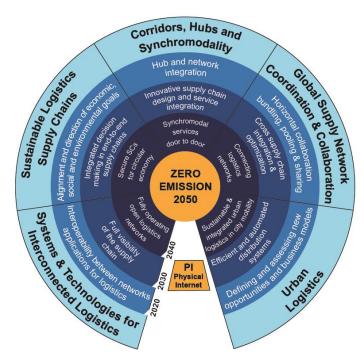
Roadmap Towards Zero Emissions Logistics 2050. ALICE (2019) www.etp-alice.eu

# Additional focus needed

**Current focus** 

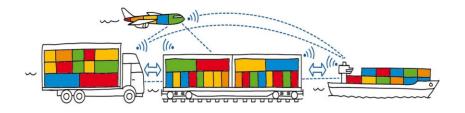
Making assets transition affordable!





## THE PHYSICAL INTERNET

Interconnected logistics networks, sharing assets and capabilities

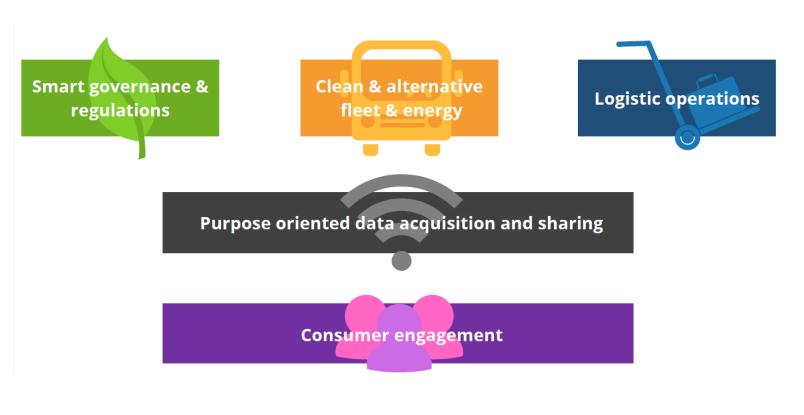


**ALICE VISION:** freight transport and logistics is climate neutral and zero emission. Physical Internet paves the way to achieve this transition in an affordable way

- Physical Internet (PI) enables seamless access to resources and assets in open, connected and shared networks
- Enabling companies to seamlessly consolidate flows and increase assets utilization.
- PI includes transport, storage and physical handling operations of load units.
- It brings **efficiency, resilience and agility** = savings invested in vehicles and energy transition.
- PI concepts can deliver results in the critical next 10 years

# Joint guide advancing towards zero-emissions urban logistics by 2030









#### ALICE structure in thematic groups and horizontal areas of activity



**New concepts** 

Knowledge

Influence

Collaboration

TG 1

Efficient and Low Emissions Assets and Energy TG 2

Corridors, hubs and synchromodality TG 3

Systems and Technologies for Interconnected Logistics

TG 4

Global Supply
Network
Coordination &
Collaboration

TG 5

Urban Logistics

Influence EC, Member States, Cities and Industry: Programmes, Calls, Initiatives

Development & promotion of roadmaps, papers and documents

#### Knowledge management and sharing

Liaison with projects and members initiatives, webinars, workshops, knowledge platform

#### Support collaboration between members

Networking, promotion of funding calls, collaborative projects, 1 to 1 links and connections

## **ALICE** participation in funded projects

### **Specific programmes and activity fields 2022**



Efficient and Low Emissions Assets and Energy

2ZERO: Zero Emissions Road

**Hydrogen Europe** 

GHG emissions measurement and reporting (SFC)

Low emissions assets availability

Corridors, hubs and synchro-modality

Europe's Rail Partnership

5th Transport Mode

Air Cargo

Inland Waterways

**MoU with Waterborne** 

**Resilient Transport Networks** 

Systems and Technologies for Interconnected Logistics

Data sharing, DTLF and eFTI

CCAM-Autonomous Road Transport

Blockchain Digital Twins

5G AI

Global Supply
Network
Coordination &
Collaboration

**Targeting & learning** 

Applied Collaboration streams

Urban Logistics

**Deepen initiatives** 

Pilot projects with cities

**Sharing experiences** 

Influence

Development of roadmaps and papers

Vehicle availability

FIT for 55

optimization

Reduce empty KMs

Carbon profile assessment of EU freight

Urban Logistics Coordination

Coordination & Data sharing

Nodes

Outreach &
Promotion

tion consultations

Itations part

Events participation

Horizon Europe Funding Calls

**TRA** 

2022

Knowledge management and sharing:

R&I projects Liaison Programme

**Knowledge Platform** 

Webinars and workshops

Support collaboration between members:

Enable 1 to 1 connections

**CEF Calls** 

**Horizon Europe** 

**BOOSTLOG** 

**ENTRANCE** 

**PIONEERS** 

**FENIX** 

**MORE** 

Proposals preparation

# **ALICE value for members**

Shared vision to build an innovation eco-system in Supply Chains to accelerate affordable transition towards zero emissions logistics

European **competences** and capabilities in innovation and sustainable Logistics

Strong **knowledge management**: Member's
initiatives & 60+ R&I projects

Finding the right people to collaborate: Sustainability, Innovation and Public Affairs functions enable different discussions than procurement (supplier-customer)

ALICE is the link to the EC freight transport and logistics innovation and funding program and can influence EU policies

ALICE is the platform to brainstorm, network, share new ideas and support companies in their implementation

# How to become member of ALICE?





Link to website

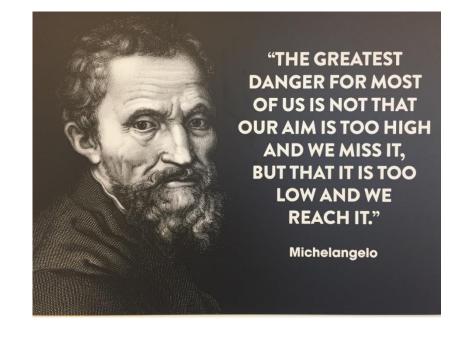
https://www.etp-logistics.eu/how-to-join/

Application form:

https://www.etp-logistics.eu/wp-content/uploads/2021/10/ALICE-Membership Form 2021.docx



Thank you!



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

Source: President Abraham Lincoln

If you want to go fast, go alone If you want to go far, go together







