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



Alliance for Logistics Innovation through Collaboration in Europe

not-for-profit association based in Brussels. Created in 2014

Recognized by the European Commission as a European Technology Platform¹

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 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



European leading companies and experts implementing logistics and supply chain innovation



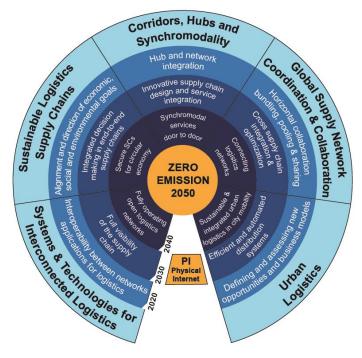




ALICE membership bringing an holistic approach All key logistics stakeholders represented!

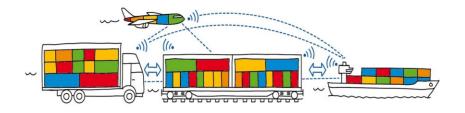






THE PHYSICAL INTERNET

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 and competitive way

- Physical Internet (PI) enables seamless access to resources and assets in interconnected logistics networks
- Enable companies to seamlessly consolidate flows and increase assets utilization and sharing.
- PI is about transport, storage and physical handling.
- It aims to deliver opportunities for **efficiency, resilience** and agility
- PI concepts can deliver results in the critical next 10 years



Report

credible emissions and set science-based reduction targets

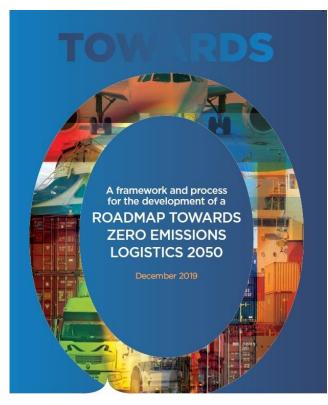
Reduce

emissions by developing and implementing action plans



Collaborate

and advocate for sector-wide uptake







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)

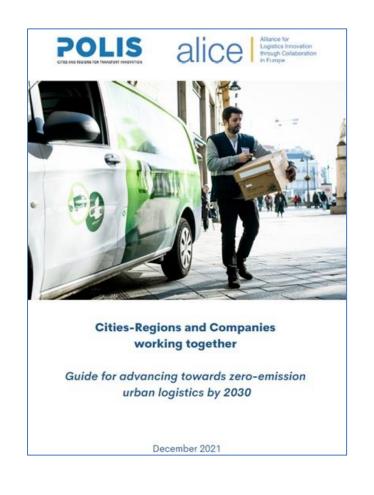
Roadmap Towards Zero Emissions Logistics 2050. ALICE (2019) www.etp-alice.eu

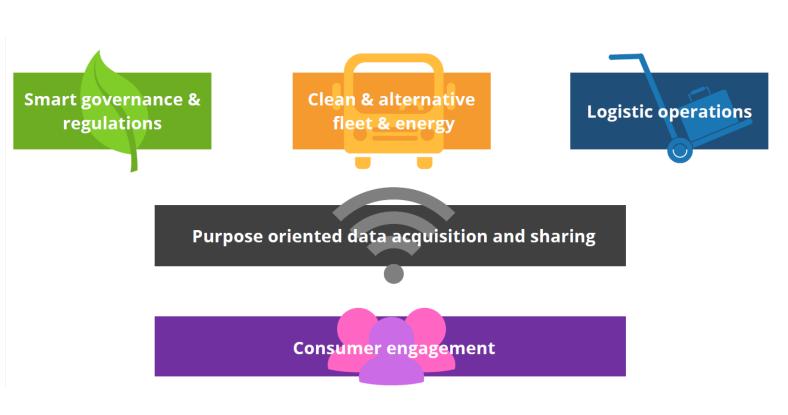
Additional focus needed

Current focus

Joint guide advancing towards zero-emissions urban logistics by 2030







Work plan 2025 / Programmes structure



TG1

TG2

TG3

TG4

TG5

Efficient and Low Emissions Assets and Energy Corridors, hubs and synchro-modality

Systems and Technologies for Interconnected Logistics

Global Supply
Network
Coordination &
Collaboration

Urban Logistics

Projects

Innovation uptake & knowledge management

Influence

Membership engagement



Programmes, activity fields and projects



Efficient and Low Emissions Assets and Energy

Road Transport

Automated road transport

electrification

GHG emissions measurement and reporting (SFC)

Corridors, hubs and synchromodality

Europe's Rail and ERRAC

Waterways

Ports & hubs

5th Transport

Mode

Resilient Transport Networks

Systems and **Technologies for** Interconnected Logistics

Data exchange, DTLF and eFTI

Artificial 5G Intelligence

Digital Twins

Global Supply Network **Coordination &** Collaboration

ALICE EXPRESS

Increase use of rail

Applied Collaboration Streams

Urban Logistics

Governance and regulations

Clean & alternative fleet

Urban data

Consumer engagement

EC Expert Group on Urban Mobility (EGUM)

Projects

Influence

Proposals

ZEFES

MODI

FLEXMCS CLEVER

MACBETH STRENGTH-M

MultiReload

PIONEERS

Cristal

SARIL

REMUNET

AUTOSUP

Seamless

DELPHI

DISCO

LOGeHUBS

Innovative

operations

URBANE

GREENTURN Shift2Zero

Innovation uptake & **Knowledge Management**

Innovation uptake strategy

ALICE logistics innovation awards

Horizon Europe

Funding Calls

R&I projects Liaison **Programme**

FP 10

FOREMAST AUTOMOTIF

Knowledge Platform

Partnerships &

networks

T&L Munich

¹Key events

ALICE Summit

ALICE Brokerage

IPIC 2025 & 2026

Membership engagement Value creation for members

Follow up meetings with members

EU policy monitoring

Funding opportunities Women in Logistics

Logistics **Clusters**

Networking¹

TRA 2026

The TEAM

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Thematic

(Co-) Chairs



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



Pascal Van Wallendael Lead transport



Corridors, hubs and synchro-modality









valenciaport



Lars **Deiterding** Executive Director



Systems and **Technologies for** Interconnected Logistics



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Research and Development Director

1



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Head of Network and Advocacy



Global Supply Network **Coordination & Collaboration**



Michael Archer

Strategy Development Director, Europe



Urban Logistics



Johan

Leveque Director of R&D







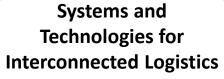


ALICE Thematic Groups Chairs & Vice-Chairs



Efficient and Low Emissions Assets and Energy

Corridors, hubs and synchro-modality









Pascal Van Wallendael



Salvador Furió



HaCon Lars Deiterding





















Tavasszv

TUDelft United Smart Freight Centre



Teoh



Kris Nevens



VIL EMPOWERING INICOMSYSTEMS





Jon Kuiper



David Ciprés



Anike Murrenhoff

◆Ita ■ Fraunhofer



Jan van Bree Tore P.

MARLO



Jannicke **Baalsrud**

BIBA



Pierre









an post

















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alice Logistics Innovation through Collaboration



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Tomasz Dowgielewicz Project Manager



Máximo Martínez **Project & members** support



Laura Mata Policy Monitoring and Project Support



Angjelo Andoni Project Manager



Alice Scotti Project Manager



ALICE value for members

Shared vision to build an innovation eco-system s to accelerate affordable transition towards zero emissions logistics & supply chains

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

Why becoming an ALICE members/benefits

Become an active Member of the European logistics innovation ecosystem:

Propose solutions/challenges & get to know your peers in 5 <u>Thematic</u>
 <u>Groups</u>, including 20+ <u>Activity Fields</u> and in 16+ running <u>projects</u>.

Collaborative network and funding for R&I collaborative projects:

• Join a <u>network</u> involving industry, academia, and public institutions.

Lead and witness cutting-edge innovations:

 Make your needs, competences and interests known to other innovators in logistics and supply chain management. Get exposure to cutting-edge innovations.

Influence EU R&I programmes:

Support and assist the European Commission in defining impactful EU co-funded programmes like Horizon 2020 and Horizon Europe

Regulatory development:

 Have a role in developing regulatory requirements needed for innovation implementation and receive latest Policy Developments through our <u>Policy Monitor</u>

- ✓ Participate in collaborative R&I <u>EU funded</u> <u>projects</u> and 1to1 collaborations.
- ✓ Access to the ALICE Knowledge Hub with over 100+ projects
- ✓ Participate in ALICE **40+ online and 3-4 in-**person events/webinars per year.
- ✓ Networking opportunities with 700+ Supply Chain and Logistics experts.
- ✓ Get updates on 20+ relevant **EU policies.**
- ✓ Regular e-mail updates on ALICE activities.
- ✓ Dedicated **follow up meetings.** Receive briefings and exchange on topics of your interest part of the scope of ALICE.

How to become member of ALICE?





Link to website

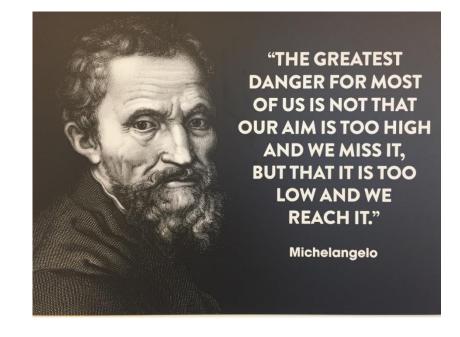
https://www.etp-logistics.eu/how-to-join/

Application form download:

<u>Link</u>



Thank you!



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

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



www.etp-alice.eu info@etp-alice.eu



