



Resilient planning for Sustainable Urban Logistics

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Alliance for Logistics Innovation through Collaboration in Europe

The path towards zero emission logistics: future trends, opportunities and challenges

Fernando Liesa Secretary General, ALICE

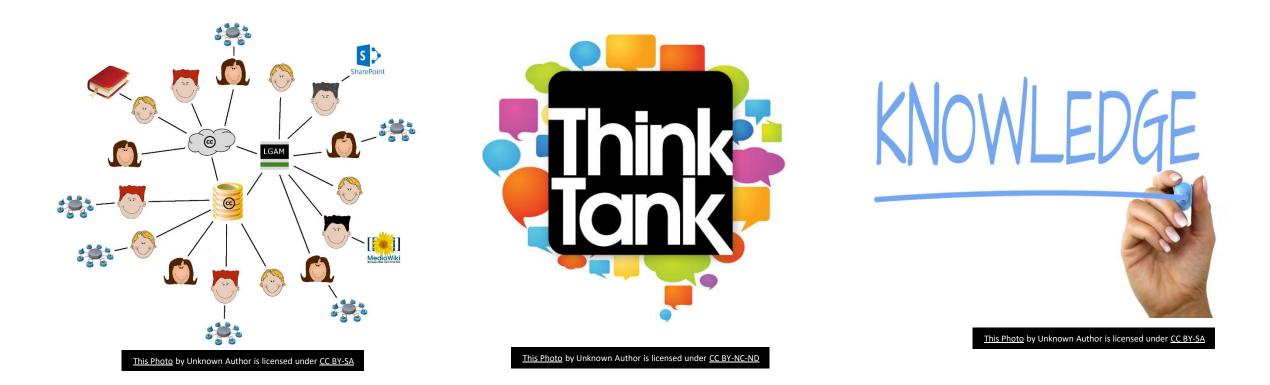


* Involved in ALICE Mirror Group



The vision for ALICE organization





The reference logistics and supply chain think tank and knowledge management organization in Europe

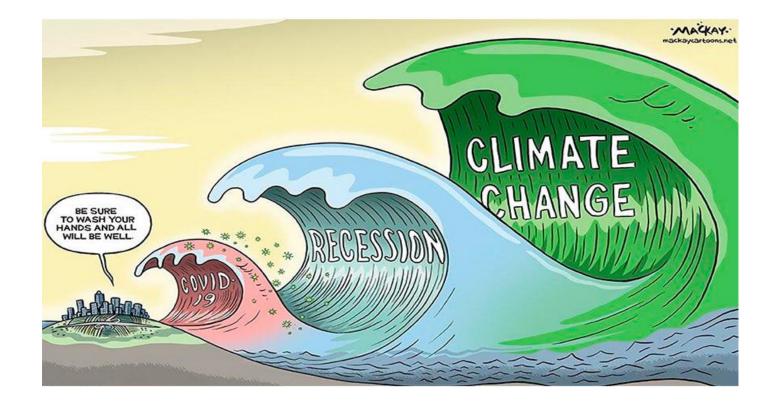




- Planning the unplannable
- Dealing with (un)certainties

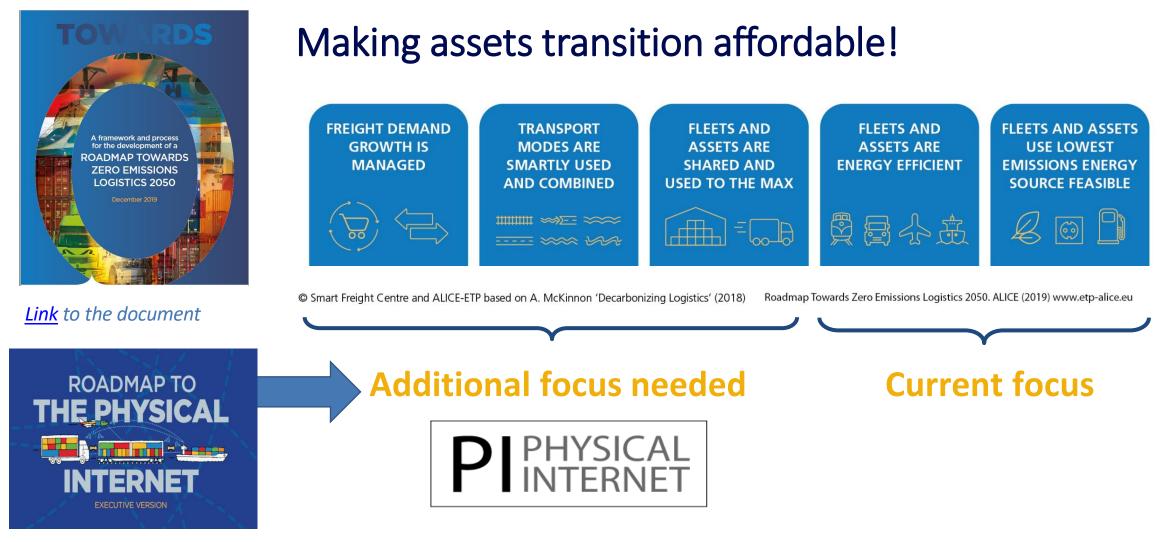
Challenges and opportunities How to be ready?

- Move out the comfort zone
- Agile and flexible
- Leadership (talking vs acting)









Link to the document



Activities performed in the frame of SENSE "Accelerating the Path Towards the Physical Internet". The SENSE project has received funding from the European Union's Horizon 2020 research and innovation Programme under grant agreement No. 769967

Reach CO₂ & emissions free city logistics in major urban environments by 2030

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Challenges to be addressed

Reach CO2 & emissions free city logistics in major urban environments by 2030¹

- Enhance liveability
- Decrease emissions
 - Air pollution & noise
 - CO2
- Improve safety
- **Reduce congestion**
- Boost economy
- **Resilient cities**





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¹ Roadmap to a single European Transport Area — towards a competitive and resource-efficient transport system. EC (2011)

Solution areas & interventions

Smart Governance & Regulations

- Urban Logistics Plans and emission reduction targets
- Rewarding, recognition, incentives and subsidies schemes, enforcement
- Access Regulations Low and Zero Emission Zones
- Curb side management (space management: Multi-use lanes, smart L/U bays, geofencing and sensors, stop double parking, digital enforcement)
- EU-Countries-Cities Legal Framework

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- Urban Logistics within urban Fabric/mobility hubs
- Procurement of zero-emission goods & services
- Governance models: Stakeholder's collaboration/needs
 segmentation

Clean & alternative fleet

- New business models for take up of electric/FCEV vans and trucks
- Energy storage systems
- e-charging infrastructure (depot, street, etc.), grid upgrade and energy mix
- Transport modes are smartly used and combined
- Drones and autonomous vehicles
- · Cargo bikes and walking carrier

Logistics operations

- Redefinition of delivery/logistics spaces
- Micro-hubs & consolidation strategies, mobile lockers
- Decoupling transport and delivery
- Off peak deliveries \rightarrow low noise operations
- Worker's skills and safety
- Instant deliveries
- Tools and technologies (AI, IoT,...

Purpose oriented data acquisition

• Better understand urban freight

- Data sharing protocols and standards
 Gove
- Governance

• Information based policies and decision making • Dynamic planning and access

Consumer engagement

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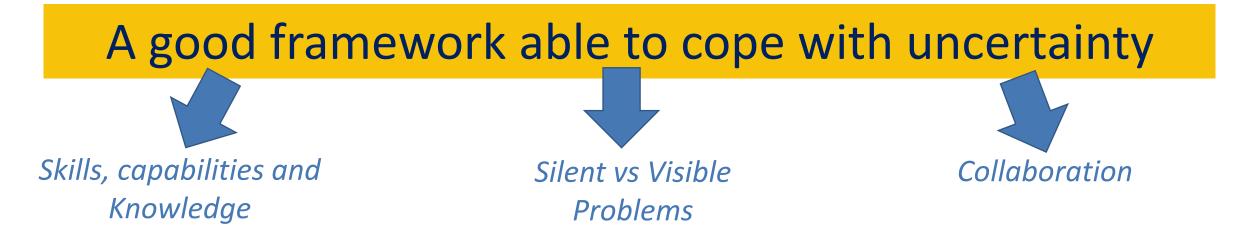
- Consumer behaviours and retail offering (e-commerce growth)
- Circularity and LCA



Is it about technology? AI, IOT, ITS, Blockchain, super computing, digital twins



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Digitalization & standardization and modularity, open and shared access to resources



Physical Internet provides resiliency by design! alice Aliance for Logistics Innovation through Collaboration in Europe

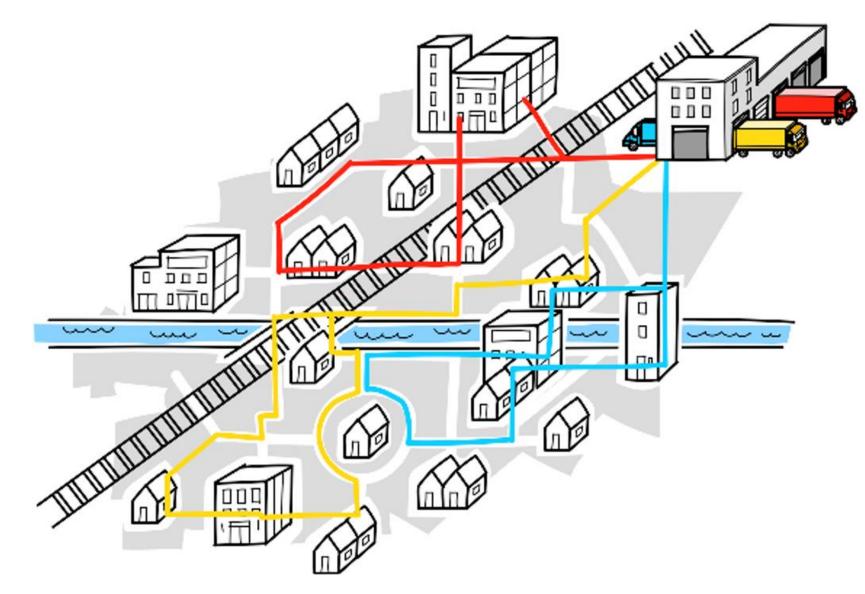


- Physical Internet Urban Logistics and Distribution Networks
- Parcel logistics and distribution networks
- **Digital Twins** for shared-connected and low-emission urban logistics operations
- Curb Side Management in the Physical Internet



The Physical Internet & Urban Logistics







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ALICE Liaison Program (Link)

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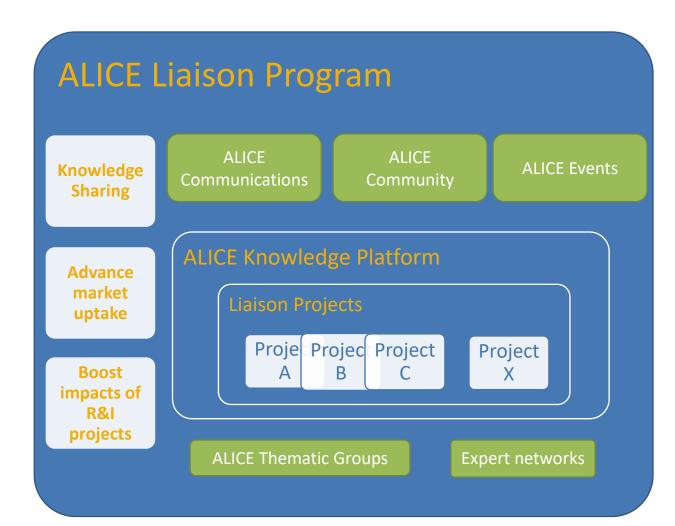




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An initiative of ALICE for R&I projects supporting our roadmaps implementation to increase knowledge sharing and market update, thus boosting impacts

- To connect with stakeholders in the logistics sector
- To support projects' dissemination and exploitation during the project course and after end of the project
- Cooperation opportunities with other projects
- Linking with ALICE Thematic Groups







Call for Submission: Implementation Cases on Urban Logistics

Second ALICE Logistics Innovation Award

- Submission open: 9 June 2021 . TODAY!
- Submission deadline: 30 September 2021
- To: info@etp-alice.eu
- More information: etplogistics/boostlog

Implementation Cases are concrete examples in which causal links between public R&I funding and technology, organizational or process innovation in a specific logistics area can be established.

Implementation Cases are coming from R&I projects results have that been further developed and deployed as commercial solutions, have generated a new market or have contributed to new policies and will stablish causal links between research funding and impact.



This project BOOSTLOG-Boosting impact generation from research and innovation on integrated freight transport and Logistics system has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement No 101006902



Registration is still open (Link)!

14:30 – 16:30, 21st June 2021



Join us to have your say in four interactive sessions:

- 1. Improving integrated urban logistics planning
- 2. Data collection and sharing to support operational efficiency and sustainable urban logistics planning
- 3. Spatial planning to accommodate sustainable urban last mile logistics
- 4. Uptake and upscaling of new, innovative and sustainable transport solutions



 "THE GREATEST DANGER FOR MOST OF US IS NOT THAT OUR AIM IS TOO HIGH AND WE MISS IT, BUT THAT IT IS TOO LOW AND WE REACH IT."

Michelangelo

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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

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