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Setting the scene for a **Zero Logistics Emissions Roadmap**

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Organized by:

alice









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WG1 Sustainable Logistic Supply Chains



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Global freight demand: triple aice Aliance for Logistics Innovation in Europe increase by 2050



Freight transport demand (billion tkm) by mode

Source: ITF Transport Outlook 2017







Smart Freight Centre (2017). Smart Freight Leadership, based on data from ITF Transport Outlook 2017 and SLoCaT 2016



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European

Freight transport is a significant aice Alliance for Logistics Innovation through Collaboration in Europe





A sector in transformation



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Technological Innovation





Physical internet



Regulators, investors and insurers







New Business Models

How can we realize zero emission freight?



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Collaboration between stakeholders

Logistics emissions reduction

Logistics emissions accounting



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Logistics emissions accounting alice Alliance for Logistics Innovation through Collaboration in Europe

Methodology

from methodology development to implementation

Data access and exchange

access to the right level/type of data across modes, transhipment centers and countries/regions for accounting

Assurance/certification

reported data are considered reliable (accurate and complete) by users/customers

• Use of results

organizations are using data for logistics decisions and emission reduction efforts





GLEC Framework: universal method for logistics emissions accounting



SMART FREIGHT CENTRE **GLEC** GLOBAL LOGISTICS EMISSIONS COUNCIL LED BY SMART FREIGHT CENTRE GI EC GLEC FRAMEWORK FOR LOGISTICS EMISSIONS METHODOLOGIES GHG FREIGHT **BLACK CARBON** METHODOLOGY FOR THE LOGISTICS SECTOR

SmartWay



www.smartfreightcentre.org/glec/what-is-glec

The LEARN project

Empower business to reduce their carbon footprint across their global logistics supply chains by improved emissions measurement, reporting and verification (MRV)

Accounting & Reduction

Research

networks

Network

Standardization

& Certification

bodies

International

organizations &

forums



This project has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement No 723984.

Associations & Business

networks

Programs &

Initiatives

....

Commission

The LEARN project



1. Guidance, Label, Training & Education

Provide support to companies to measure, report and verify emissions and use data to make decisions



2. Testing & Validation

Test, validate and evaluate emissions MRV with companies in complex multi-modal logistics settings



3. Supportive Policy & Research

Promote and facilitate supportive policies and research



4. Network & Stakeholder Engagement

Develop and involve a LEARN multi-stakeholder network to maximize business uptake of carbon accounting and reduction



Logistics emission reduction alice



- Switch to low carbon energy technologies electrification, biofuels...
- Transport energy efficiency

energy saving technologies in vehicles and barges, retrofitting, fuel economy, eco-driving, platooning...

Increase transport asset utilization

transport assets sharing, reducing empty transport legs...

- Reduce transport intensity/restructure supply chains dematerialization, 3D printing, Relocalize, Nearshoring Decentralize stocks...
- Optimise the use of transport mode multimodality, Synchromodality, Improve modal split..



Collaboration: commercial sector where customer is king

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Customers / Consumers



Government & Civil Society

Collaboration: different roles

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Smart Freight Centre 2017 'Smart Freight Leadership'



Collaboration: build on existing initiatives and efforts



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Smart Freight Centre 2018

Developing a roadmap

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Roadmap structure

- Executive summary (2 pages)
- Introduction (3-5 pages)
 - Overall objectives, scope and approach
 - Complementarities with other ALICE roadmaps & background
- Logistics emissions accounting (3-5 pages)
 - State of the art
 - 4 emission accounting enablers
 - Roadmap (milestones and timelines graphs)
- Logistics emissions reduction (5-10 pages)
 - State of the art
 - 5 reduction areas
 - Roadmap (milestones and timelines graphs)
- Collaboration between stakeholders (2 pages)







Roadmap preparation timeline alice



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Logistics innovation for a more competitive and sustainable industry

