



BOOSTLOG PROJECT

DELIVERABLE REPORT

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Disclaimer

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The BOOSTLOG project consortium consists of:

Part. No	Participant organisation name (short name)	Country
1 (Coordinator)	Alliance for Logistics Innovation through Collaboration in Europe, ALICE AISBL (ALICE)	BE
2	STICHTING SMART FREIGHT CENTRE (SFC)	NL
3	FUNDACION ZARAGOZA LOGISTICS CENTER (ZLC)	ES
4	STICHTING TKI LOGISTIEK (TKI Dinalog)	NL
5	HACON INGENIEURGESELLSCHAFT MBH (HACON)	BE
6	INSTITUTE OF COMMUNICATION AND COMPUTER SYSTEMS (ICCS)	GR
7	Vlaams Instituut voor de Logistiek VZW (VIL)	BE
8	FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V. (Fraunhofer)	GE
9	FIT Consulting SRL (FIT)	IT
10	FUNDACION DE LA COMUNIDAD VALENCIANA PARA LA INVESTIGACION, PROMOCION Y ESTUDIOS COMERCIALES DE VALENCIAPORT (VPF)	ES
11	TECHNISCHE UNIVERSITEIT DELFT (TU Delft)	NL
12	EUROPEAN ROAD TRANSPORT TELEMATICSIMPLEMENTATION COORDINATION ORGANISATION - INTELLIGENT TRANSPORT SYSTEMS & SERVICES EUROPE (ERTICO ITS EUR)	BE
13	LINDHOLMEN SCIENCE PARK AKTIEBOLAG (LSP)	SW



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EXECUTIVE SUMMARY

This deliverable D5.6 summarises all activities taken by the consortium from the period of 1st April 2022 to 30 June 2023 on stakeholder engagement, communication and dissemination. This is second report following the first version published on 31 March 2022. All activities have been following the dissemination plan set in “D5.1 Plan for Stakeholders Engagement, Communication, Dissemination 1st Version” which was published on 31 March 2022 (M31) . Potential impacts of the activities have also been evaluated and presented.

Activities are summarised as:

Project activities/tasks	Stakeholders engaged	Key means/tools used to engage stakeholders	Estimated impacts
Raising awareness of the importance of implementation of Research and Innovation (R&I) projects	All transport project practitioners covering all type of stakeholders	<ul style="list-style-type: none">• Smart Freight Week• TRA2022• Munich Transport Logistics Exhibition• IPIC2023	The BOOSTLOG project and its activities are widely known by the logistics community.
Collecting implementation cases of R&I project outcomes	Logistics project practitioners covering all type of stakeholders	<ul style="list-style-type: none">• Brochures for three calls for implementations;• News items on Call for implementation cases;• Social media posts from consortium members	The calls for implementation cases are widely known by the logistics community.
Identifying best practices	Logistics project practitioners covering all type of stakeholders	<ul style="list-style-type: none">• Interviews for cloud report and identifying implementation cases	ALICE innovation Awards (implementation cases) have acknowledged the impacts of R&I projects, thus advancing more R&I project outcomes to be implemented.
Identifying R&I priorities and developing recommendations	All stakeholders in the logistics sector	Workshop Questionnaire (online)	R&I priorities have been identified and recommendations have been developed.
Cross sectoral cooperation	All project practitioners in the transport sector	Task Force on Advancing Innovation Uptake for Sustainable Transport	The Task Force has organised a Special Interested Session at TRA2022 and launched ‘Call for Action’.



1 Introduction

IN BOOSTLOG, there are three ways to engage with stakeholders:

- Giving (disseminating) project outcomes to stakeholders;
- Collecting inputs from stakeholders such as interviews and questionnaires;
- Actively discussing (validating and facilitating) with stakeholders, such as interviews and workshops.

The stakeholder engagement activities were organized in close collaboration with all WPs to support their work throughout this period of the project. Stakeholder engagement activities carried out in relation to project tasks are summarised in the following table:

Table 1 Stakeholder engagement activities for tasks of the project

WP	Project tasks/outcomes	Disseminating (giving information only)	Collecting inputs	Actively discussing
2	Collecting implementation cases;		√	√
	Identifying barriers for Research and Development (R&D) deployments;	√		√
	Identifying best practices for Cloud reports;	√	√	√
	Publishing Cloud Report	√		
3	Strategy to overcome the barriers identified;		√	√
4	Gap analysis for R&I Logistics Clouds		√	√
	Recommendations for future R&D activities;		√	√
5	Best practices on R&I funding	√	√	√
	Cross-sectoral cooperation			√

Various approaches of stakeholder engagement have been developed for various purposes. Note that each approach may serve more than one purpose. The stakeholder engagement approaches that were developed and used are:

- Dissemination material including news items (including social media posts), publications (brochures, press releases), presentations, etc



- Interview and expert workshops
- ALICE Innovation Award and selection committee (high-level industry leaders and policy makers)
- BOOSTLOG events
- Participating in external events
- Liaise with other projects and organisations

Detailed description show in the following chapters.

2 Dissemination materials

Several communication materials have been developed to support various project tasks, targeting multiple stakeholder groups. In total BOOSTLOG has published:

- 12 new items (details shown in Table 2); all news published on ALICE website, newsletters and through consortium members' social media channels;
- 3 press releases (full texts in Annex A):
 - o 3rd ALICE Award Announcement – Press release (Oct 2022)
 - o 4th ALICE Award Announcement - Press release (March 2023)
 - o 5th ALICE Award Announcement – Press release (June 2023)
- 3 Brochure (full texts in Annex B):
 - o Call for implementation cases for Logistics nodes
 - o Call for implementation cases the Cloud report on Logistics Networks
 - o Call for implementation cases on Physical Internet
- 1 poster (Full text in Annex C):
 - o Mapping EU funding projects in Logistics printed in April for Transport Logistic Munich 2023
- 1 position paper (full texts in Annex D):
 - o Position Paper “Going beyond Technology Readiness Level to achieve impact out of R&I projects

All materials are available for download at the BOOSTLOG webpage: <https://www.etp-logistics.eu/boostlog/>



Table 2 News published during the period

News	Date	Key messages	Public channels (note: only selected channels included as each message has been published through various social media accounts)
European Logistics Innovation Day: first in-person event of BOOSTLOG	02/07/2022	Promotion of the first BOOSTLOG in-person event.	https://www.etp-logistics.eu/registration-open-for-the-european-logistics-innovation-day-first-in-person-event-of-boostlog/
Call for Implementation Cases for ALICE Innovation Award for Data Sharing in Supply Chain	03/08/2022	Promotion of the call for implementation cases for the cloud report on logistics data sharing	https://www.etp-logistics.eu/call-for-implementation-cases-for-alice-innovation-award-for-data-sharing-in-supply-chain/
Call for Implementation Cases for ALICE Innovation Award on Multimodal freight transport corridors & networks	04/11/2022	Promotion of the call for implementation cases for the cloud report on logistics networks	https://www.etp-logistics.eu/call-for-implementation-cases-for-alice-innovation-award-on-multimodal-freight-transport-corridors-networks/
ALICE Logistics Innovation Award on Logistic Nodes Announced!	04/11/2022	Announcement of 3rd ALICE Innovation Award Winner on Logistics Nodes.	https://www.etp-logistics.eu/alice-logistics-innovation-award-on-logistic-nodes-announced/
Help to identify priorities in R&I in the logistics sector: join the in-person workshop on 1st March, Brussels	02/02/2023	Promotion of the BOOSTLOG WP4 workshop (in-person event) in Brussels	https://www.etp-logistics.eu/boostlog-in-person-workshop-on-identified-priorities-for-ri-in-logistics/
Call for Actions to support uptakes of Horizon 2020 and Horizon Europe projects' outcomes	15/03/2023	Launch event for Call for Actions to support uptakes of Horizon 2020 and Horizon Europe projects' outcomes, jointly organised by the Task Force	https://www.etp-logistics.eu/call-for-actions-to-support-uptakes-of-h2020-he-project-outcomes/



Logistics network implementation cases and future directions 4th ALICE logistics innovation award & Launch of the Cloud report on Logistics Networks	16/03/2023	Launch event of the cloud report on logistics network and announcement of 5 th ALICE Innovation Award Winner on Physical Internet at IPIC2023	https://www.etp-logistics.eu/logistics-network-implementation-cases-and-future-directions-4th-alice-logistics-innovation-award-launch-of-the-cloud-report-on-logistics-networks/
ALICE at the Transport Logistic exhibition in Munich from 9th to 12th May – Come and meet us!	07/04/2023	To announce that BOOSTLOG project will have a stand at the Munch Transport Logistics exhibition	https://www.etp-logistics.eu/alice-tl-munich-9th-to-12th-may/
Call for implementation cases for Physical Internet	28/04/2023	To collect implementation cases for the Physical Internet Cloud Report and for the 5th Innovation Award dedicated to Physical Internet.	https://www.etp-logistics.eu/call-for-implementation-cases-for-alice-innovation-award-on-realising-the-concept-of-physical-internet/
ALICE position paper on going beyond Technology Readiness Level to achieve impact out of R&I projects	4/05/2023	To raise awareness of using a different way to evaluate innovation readiness for market uptake which is part of BOOSTLOG deliverables D2.9 and valorisation strategy.	https://www.etp-logistics.eu/alice-aims-to-facilitate-value-and-impact-creation-out-of-research-implementation-through-practical-freight-and-logistics-innovations-addressing-societal-challenges/
Open Now: 2nd BOOSTLOG survey on the definition of high relevance topics for freight transport and logistics	06/06/2023	Promoting the 2 nd BOOSTLOG survey to logistics stakeholders for their inputs to form the final recommendations from the project (WP4).	https://www.etp-logistics.eu/open-now-2nd-boostlog-survey-on-the-definition-of-high-relevance-topics-for-freight-transport-and-logistics/
Announcement of 5 th ALICE Innovation Award Winner on Physical Internet	14/06/2023	Announcement of 5 th ALICE Innovation Award Winner on Physical Internet at IPIC2023	https://www.linkedin.com/feed/update/urn:li:activity:7074718119532863489 https://www.etp-logistics.eu/fifth-alice-logistic-innovation-award-announced/



3 Interviews and expert groups

Authors of each cloud report have conducted semi-structured interviews with practitioners who have participated in the identified R&I projects. Interviewed practitioners are those who have made significant efforts to advance the market uptake of outcomes of their projects, thus delivering concrete impact on the logistics sector. During the period, the following cloud reports have been developed and experts from following organisation have been interviewed:

Table 1 Interviews of each cloud report

Cloud report	Organization interviewed
Logistics Nodes	Fundación Valenciaport, BMT, Circle, MARLO, Piraeus Port
Logistics Data Sharing	Fraunhofer, CIRCLE, ERTICO, Logit One
Logistics Network	TU DELFT, PTV, DB, PortRail, Kombiverkehr, LIANAS
Physical Internet	Open Logistics Foundation, INLECOM, FIT Consulting, P&G

4 BOOSTLOG Events

The BOOSTLOG consortium has organised 2 in-person events and 2 online events:

In-person events:

- European Logistics Innovation Day, 5 July 2022; the event has been used to present all BOOSTLOG outcomes including three Cloud reports: Coordination & Collaboration, Urban Logistics and Logistics Nodes. At this public event, the BOOSTLOG consortium engaged with logistics stakeholders to have their say on the next steps. Detail is available on ALICE website ([link](#))
- BOOSTLOG Workshop Help to identify priorities in R&I in the logistics sector (in-person), 1 March 2023; this workshop was operated by 3 discussion tables to provide inputs to identify key trends, gaps in R&I and recommendations for future R&I topics and priorities. Detail is available on ALICE website ([link](#)).

Online events:

- BOOSTLOG Cloud report on logistics node launch events, 28 November, 2022; the online event was organised to present the cloud report and announce 3rd ALICE Innovation winners. Detail is available on ALICE website ([link](#))
- BOOSTLOG Cloud report on logistics network launch events, 16 March, 2023; the online event was organised to present the cloud report and announce 4th ALICE Innovation winners. Detail is available on ALICE website ([link](#))



Each of the events has been attended by various stakeholders. Percentages of each type of stakeholders in the three BOOSTLOG events are shown below:

Table 2 Percentages of all types of stakeholders in BOOSTLOG events

Event	Participants	Company (%)	R&I (%)	Government (%)	Others (%)
European Logistics Innovation Day 5 July 2022	139	43.17%	15.11%	7.19%	34.53%
Cloud report launch event on logistics nodes	56	61%	9%	10%	20%
Workshop 1/03/23	74	35.14%	28.38%	2.7%	33.78%
Cloud report launch on logistics networks	52	57.6%	19.2%	2.8%	19.4%

The events have served for multiple stakeholder engagement purposes such as dissemination, collecting inputs and facilitating discussions. Each event invited high-level logistics experts and policy makers to give keynote speeches.

5 Participating in external events

5.1 Transport Research Arena 2022

Transport Research Arena (TRA) is one of the biggest transport research conference covering all transport modes and all aspects of mobility. TRA22 took place in Lisbon on 14 – 17 November 2023. BOOSTLOG took part in the exhibition joining the ALICE stand with other R&I projects in the logistics sector. The ALICE stand gathered 16 projects in the logistics sector including the STORM project.



Figure 1. ALICE Stand at TRA including the BOOSTLOG project



Figure 2. Prof. Alan McKinnon at the BOOSTLOG stand

During the conference time, BOOSTLOG and STORM hosted an open discussion at the ALICE Innovation Theatre on future needs for R&I, current trends, and priorities and challenges the logistics sector faced.



Figure 3. BOOSTLOG Joint discussions with the STORM project at the ALICE Innovation Theatre



5.2 Smart Freight Week 2023

The Smart Freight Week, which is Smart Freight Centre's annual conference, was held on 18 to 20 April 2023 in Amsterdam, at the Wicked HQ, in the Netherlands. Over the 3 day period, 300 participants from the logistics sector (shipper, logistics service provider, carrier, and tools), NGOs and knowledge institutes interacted and worked towards understanding the potential pathways towards sustainable logistics, in about 30 knowledge sessions.



Figure 4. Smart Freight Week and the BOOSTLOG session

Smart Freight Centre and ALICE organized a session entitled “Decarbonization through Collaborative Innovation – Get Engaged!”, under the Boostlog banner, to raise awareness on EU-funded R&I projects



among the participants. The session had about 30 participants from leading companies across Europe, such as Geopost, Kuhne+Nagel, ALDI and Heineken. The session was chaired by Tharsis Teoh (Smart Freight Centre) and Fernando Liesa (ALICE). Among the highlights of the session:

- Smart Freight Centre's origins in EU-funded projects
- Mentimeter-polls on the current logistics innovation activities, needs, and barriers
- Presentation on how to get involved, using the ZEFES project as an example, and information on upcoming funding calls.

An important conclusion was that the private sector rely heavily on NGOs, such as ALICE and Smart Freight Centre, to get them involved in research and innovation projects, especially as a means to collaborate within the industry.

5.3 Transport Logistic Munich 2023

Transport Logistic exhibition was held 9 – 12 May 2022 in Munich, Germany. The event is the biggest international exhibition for logistics, mobility, IT and supply chain management with more than 75,000 visitors from over 120 countries. BOOSTLOG has set up a stand at the exhibition. It was a great opportunity for dissemination of results and visibility for BOOSTLOG, aiming to bridge the gap with the private sector by reaching those industries actors who either have limited or no knowledge of EU-funded projects with EU funded projects.



Figure 5. The BOOSTLOG Stand at the Transport Logistics Exhibition in Munich



5.4 The International Physical Internet Conference 2023 (IPIC):

The International Physical Internet Conference (IPIC) has taken place, Athens from 12th to 15th June 2023. The event aimed to provide an open forum for researchers, industry representatives, government officials and start-ups to share the latest development on current Physical Internet research and implementation. Liaison with other projects. At the Gala dinner of the IPIC2024, ALICE Innovation Award on Physical Internet was announced by the ALICE chair and vice chairs.



Figure 6. ALICE Innovation Award on Physical Internet was announced by the ALICE chair and vice chairs

6 Liaison with other projects

Liaison with other CSA projects has been done through the Task Force on Advancing Innovation Market Uptake for Sustainable Transport Task Force on Advancing Innovation Market Uptake for Sustainable Transport was launched in December 2021. The Task Force was jointly by seven CSA projects including BOOSTLOG. The Task Force has organised an invited session at TRA2022 as shown below. The session has raise awareness of the importance of boosting impacts of R&I projects.

IS13 Accelerate Innovation Market Uptake for Sustainable Transport

Time: 15th Nov 2022, 17:00 – 18:30

Room: 5C

Programme is available: <https://traconference.eu/invited-sessions/tuesday/>



Description:

This session invites eight CAS projects funded by Horizon 2020, BOOSTLOG, ENTRANCE, FastTrack, Reciprocity, LASTING, ASSURED-UAM, PLATINA3, and FUTURE-HORIZON, to present their efforts and cooperation on accelerating market uptake of innovation in all aspects of the transport sector, e.g. logistics, urban transport and mobility, air transport, and waterborne transport. This session aims to facilitate dialogues on how to advance innovation uptakes for all the transport sector, while further raising awareness of ongoing activities from various stakeholders to a wide range of stakeholders including high-level policy makers, thus creating cross-project, cross-organisational cooperation to facilitate innovation implementations and large-scale uptake.

ORGANISERS:

Yanying Li, Head of Programme & Knowledge Management, ALICE

Jeanett Bolther, PNO Consultants & Coordinator of the ENTRANCE project

MODERATOR:

Ludger Rogge, DG R&I, European Commission

SPEAKERS:

Jeanett Bolther, PNO Consultants & Coordinator of the ENTRANCE project, expert in logistics innovation;

Fernando Liesa, Secretary General of ALICE & Coordinator of the BOOSTLOG project;

Joaquín Crespo Martín, Instituto Aragonés de Fomento & partner of the RECIPROCITY project; he is expert in helping cities to use innovative solutions to achieve their climate ambitions.

Jan Christiaens, Mobiel21 & partner of the FastTrack project; working on citizen engagement, behaviour change campaigns and policy advocacy for sustainable mobility

Oliver Lah, UEMI & partner of the Future Horizon & Solution Plus; he has been leading many international cooperation projects in sustainable urban mobility, facilitating knowledge sharing between Europe and other regions.

Bartosz Dziugiel, Institute of Aviation Poland & Coordinator the ASSURED project; with a PhD in machine design, he is currently Senior Research Specialist in Lukaszewicz Research Network - Institute of Aviation.

Mihai Barcanescu, is a project manager at Waterborne Technology Platform & Coordinator



of the Lasting Project & partner of Platina3.

Figure 7. Session description organised by Task Force for Accelerating Innovation Uptake for Sustainable Transport at TRA2022



Figure 8. Photo taken at the IS13 at TRA2022

The Task Force has launched 'Call for Actions to Support Uptakes of H2020 and Horizon Europe projects'. The launch event was held on 16th March 2023 ([link](#)).

Agenda of the Call for Actions launch event as:

11:00 | Welcome and Introduction of projects: (Taskforce's Presentation)

Yanying Li ([BOOSTLOG](#)), Jeanett Bolther ([ENTRANCE](#)), Anne Häner ([RECIPROCITY](#)), Freek de Bruijn ([REMOBILISE](#)), Jan Christiaens ([FastTrack](#)), Bartosz Dziugiel ([ASSURED](#)).

11:15 | Keynote speech "Different EC funding opportunities to accelerate market update" by Ludger Rogge, DG Research & Innovation, EC ([Funding Programmes presentation](#))

11:30 | Launch of the Call for actions & a roundtable discussion with additional associations supporting the call for actions: ([Call for Actions' presentation](#))

- Pedro Homem de Gouveia, Senior Policy and Project Manager, POLIS
- David Storer, Director, Research, Innovation & New Mobility, CLEPA
- Stefan DEIX, Director, EUCAR
- Nik Delmeire, ALICE Vice Chair/Coordinator, European Inland Waterway Transport Platform

11:55 | Closing remark



Let's take actions – welcome our panellists

	Pedro Homem de Gouveia Senior Policy and Project Manager at POLIS
	David STORER Director of Research, Innovation and New Mobility at CLEPA
	Stefan Deix Director of EUCAR; Innovation Expert
	Nik Delmeire Coordinator at European Inland Waterway Transport Platform - IWT

✓ What are current practices of your organisation to advance implementation of R&I project results?

✓ What should be done in your view to boost impacts of R&I projects?

Figure 9. Launch event's panel discussion

7 Next steps

Two events will be held:

- WP4 second online workshop that will be held on 16th Oct 2023 at 13:00 – 14:30 to validate the online survey results and to collect additional inputs to form the final recommendations;
- Final event that will be held as in-person meeting on 20th Dec 2023 in Brussels; the event will invite all WP leaders and cloud report authors to present their outcomes and also discuss how to continue boost impacts of R&I projects in the logistics sector.

The project consortium will continue to using various channels to disseminate the project and engage with various stakeholders.



Annex A Press Release

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.



Horizon 2020

Press Release -

Brussels, 28 October 2022

Third ALICE Logistic Innovation Award Announced



The Award Selection Committee has chosen the winners of the third ALICE Logistics Innovation Award, dedicated to Logistic Nodes. The Selection Committee has decided to give awards to four categories: Gold Award; Award for disruptive technology; Award for market impact; Award for sustainability

The Winners

- **The gold award was given to [CircleGroup](#) for Port Rail Shunting Optimization Tool.** The committee decided to give the award because it has high potential to increase share of railways in logistics, thus promoting modal shift and creating notable impacts such as driving down the operation costs, increasing operation efficiency, reducing congestion in logistics nodes as well as increasing sustainability; it is valid for all types of logistics nodes to support multimodal nodes.
- **The Award for market impact was given to [Nallian](#) and [AirCargo Belgium](#) for Slot Booking App.** The committee decided to give the award because it has a high potential for scalability and has already created impacts through implementations in several airports in Europe and beyond
- **The Award for disruptive technology was given to [Ericsson](#) for 5G Port of the Future.** The committee decided to give the award because it is highly innovative, using cutting-edge technology in this field and inspiring for using new technologies to improve efficiency of logistics nodes.
- **The Award for sustainability was given to the [Polytechnic University of Valencia \(UPV\)](#) for Port Environmental Index (PEI).** The committee decided to give the award because this tool supports logistics nodes to sustainability transition toward zero emissions, raising awareness for sustainability and climate action



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.



About the Award:

The ALICE Logistics Innovation awards were organized in the framework of the BOOSTLOG project, aiming to recognize those companies and organizations that have successfully managed to transform knowledge generated in R&I-funded projects into innovations in the market, transformative changes in society and markets or implemented effectively as part of policies and policy guides.

The Selection Committee consists of five highly experienced experts:

- Salvador Furió Prunonosa, Innovation & Port Cluster Develop. Director at **Valencia Port Foundation** (chair)
- Kris Neyens, Manager of Internationalisation at **VIL Flanders Innovation Cluster**
- Giuseppe Dall'Asta, Managing Director at **Interporto Bologna SpA**
- Lamia Kerdjoudj, Secretary General at **FEPORT**
- Elvina Nowak, Project Manager at **ALICE**

Evaluation for the ALICE Logistics Innovation Award was based on three criteria: Impact on Nodes, Society and Market, Scalability and growth potential, and Innovation.

Details about the achievements of the award holders and selection of the candidates have been detailed described in the [BOOSTLOG](#) Cloud Report on Logistics Nodes ([download the report](#)).

Brought to you by the BOOSTLOG project consortium: The project consortium is led by the Alliance for Logistics Innovation through Collaboration in Europe, ALICE, and consists of 12 ALICE members representing different stakeholders: R&D ([ZLC](#), [ICCS](#), [Fraunhofer IML](#) and [TU Delft](#)), government ([TKI DINALOG](#)), Company ([HACON](#), [FIT](#), [Fundación Valenciaport](#)), Civil Society ([Smart Freight Centre SFC](#)) and Collaborative Networks and Clusters ([VIL](#), [LSP](#) and [ERTICO-ITS Europe](#)). More information about the project, please check [here](#).

About ALICE: [ALICE](#), the **Alliance for Logistics Innovation through Collaboration in Europe** is a non-for-profit industry led association based in Brussels with 160+ [members](#). ALICE is the Alliance of European leading companies and experts in implementing logistics and supply chain innovation and reaching the full stakeholders' groups in the field. ALICE's vision is to achieve an affordable [transition towards zero emissions logistics](#). To that end, logistics, from global to urban, need to evolve. Assets and resources, including transportation means, need to be better utilized. By creating seamlessly interconnected logistics networks through the [Physical Internet \(PI\)](#) better conditions for affordability of zero emissions solutions will be created through improved asset sharing and efficiency, contributing also to improved agility and resilience of supply chains. ALICE supports, assists, and advises the European Commission in the definition and implementation of the EU Program for research: Horizon Europe in Logistics. For more information about ALICE, please visit the website: <https://www.etp-logistics.eu/>, [follow ALICE on LinkedIn](#) and join our [LinkedIn discussion group](#), sign up for the ALICE newsletter [here](#).

Visit BOOSTLOG webpage: <https://www.etp-logistics.eu/boostlog/>



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Horizon 2020

Press Release

Brussels, 16 March 2023

Fourth ALICE Logistic Innovation Award Announced



The Award Selection Committee has chosen the winners of the fourth ALICE Logistics Innovation Award, dedicated to Logistic Networks. The Selection Committee has decided to give awards to three categories: Gold award; Silver award and two Bronze awards.

The Winners

- **The Gold award was given to Ekol for Multimodal short sea – Rail transport service.** The committee decided to award this case based on its scalability and relevance targeting more holistic multimodal services across Europe. The service-offering has been perceived as pragmatic and highly applicable. It has shown that the right connection of transport modes in a network makes a significant difference to eliminate real problems and convey tangible benefits.
- **The Silver award was given to Kombiverkehr for Intermodal Network 2015.** The committee decided to award this case based on its design that facilitates the integration and connection of small and medium-sized intermodal terminals to hinterland networks. These cover transport volumes that are insufficient to operate direct trains.
- **Two Bronze awards were given to Hacon for Train Monitor.** The committee decided to award this case as it leverages integrated systems which support and improve railway operations. This contributes to an increased modal-shift and effective planning; this appeared to the jury as a robust and durable solution with forward-looking applications; and to **VTG for Retrack Network.** The committee decided to award this case due to the project's development of a sustainable innovative rail-freight service "single-wagon transport" concept. The solution improves transport efficiency, reliability, and responsiveness in order to reach a significant modal-shift.



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.



Horizon 2020

About the Award:

The ALICE Logistics Innovation awards were organized in the framework of the BOOSTLOG project, aiming to recognize those companies and organizations that have successfully managed to transform knowledge generated in R&I-funded projects into innovations in the market, transformative changes in society and markets or implemented effectively as part of policies and policy guides.

The Selection Committee consists of five highly experienced experts:

- Godfried Smit – Secretary General – [European Shippers' Council](#)
- Zisis Palaskas – General Manager – [Inlecom Group BV](#)
- José Andrés Giménez Maldonado – Port Logistics Director [Valenciaport Foundation](#) and [TIC4.0](#) Secretary General
- Ralf-Charley Schultze President – [International Union for Road-Rail Combined Transport](#)

Evaluation for the ALICE Logistics Innovation Award was based on the following criteria: Impact on Logistics Networks and Market / Modal shift; Scalability, potential growth and impact; Innovation; Sustainability, Durability; Simplicity of implementation; Transferability of solution.

Details about the achievements of the award holders and selection of the candidates have been detailed described in the [BOOSTLOG](#) Cloud Report on Logistics Networks (download the report).

Brought to you by the BOOSTLOG project consortium: The project consortium is led by the Alliance for Logistics Innovation through Collaboration in Europe, ALICE, and consists of 12 ALICE members representing different stakeholders: R&D ([ZLC](#), [ICCS](#), [Fraunhofer IML](#) and [TU Delft](#)), government ([TKI DINALOG](#)), Company ([HACON](#), [FIT](#), [Fundación Valenciaport](#)), Civil Society ([Smart Freight Centre SFC](#)) and Collaborative Networks and Clusters ([VIL](#), [LSP](#) and [ERTICO-ITS Europe](#)). For more information about the project, please check [here](#).

About ALICE: [ALICE](#), the **Alliance for Logistics Innovation through Collaboration in Europe** is a non-for-profit industry-led association based in Brussels with 160+ [members](#). ALICE is the Alliance of European leading companies and experts in implementing logistics and supply chain innovation and reaching the full stakeholders' groups in the field. ALICE's vision is to achieve an affordable [transition towards zero emissions logistics](#). To that end, logistics, from global to urban, need to evolve. Assets and resources, including transportation means, need to be better utilized. By creating seamlessly interconnected logistics networks through the [Physical Internet \(PI\)](#) better conditions for affordability of zero emissions solutions will be created through improved asset sharing and efficiency, contributing also to improved agility and resilience of supply chains. ALICE supports, assists, and advises the European Commission in the definition and implementation of the EU Program for research: Horizon Europe in Logistics. For more information about ALICE, please visit the website: <https://www.etp-logistics.eu/>, follow ALICE on [LinkedIn](#) and join our [LinkedIn discussion group](#), and sign up for the ALICE newsletter [here](#).

Visit BOOSTLOG's webpage: <https://www.etp-logistics.eu/boostlog/>



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.



Horizon 2020

Press Release

Brussels, 14 June 2023

Fifth ALICE Logistic Innovation Award Announced



Fifth ALICE Logistics Innovation Award, dedicated to Physical Internet has been announced at the 9th International Physical Internet Conference (IPIC), held on 13 – 15 June 2023 in Athens, Greece. The awards to recognizing those organisations' outstanding engagement in further developing R&I project results towards the implementation of the Physical Internet.

The Winners

- **Open Logistics Foundation;** The Open Logistics Foundation is a non-profit operating foundation advocating the promotion of open source applications in logistics. Created in 2021, the Foundation aims to facilitate collaborative development of open source solutions to existing problems in logistics and supply chain management. To implement the PI, streamlining or interoperability of processes and software is essential. Such open source developed solutions enabled by the foundation will be the building blocks of the PI.
- **Inlecom;** Inlecom has successfully developed the URBANE project started in September 2022 to upscale innovative urban logistics solutions through multi-actor collaboration and Physical Internet-inspired last mile deliveries. The project, funded by Horizon Europe project, is the first project dedicated to bringing the Physical Internet in urban logistics.
- **FIT Consulting;** FIT Consulting has successfully developed the DISCO project started in May 2023 to implement a data-driven, integrated, syncromodal, collaborative and optimized urban freight meta-system for new generation of urban logistics. The project, funded by Horizon Europe, will enable more efficient and flexible use of urban space towards zero emission urban logistics by applying the concept of Physical Internet in urban logistics.



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.



Horizon 2020

About the Award:

The ALICE Logistics Innovation awards were organized in the framework of the BOOSTLOG project, aiming to recognize those companies and organizations that have successfully managed to transform knowledge generated in R&I funded projects into innovations in the market, transformative changes in society and logistics community or implemented effectively as part of policies and policy guides.

Details about the achievements of the award holders and selection of the candidates have been detailed described in the BOOSTLOG Cloud Report on Physical Internet ([download the report](#)). The Cloud Report and the award also support implementation of the ALICE's Roadmap to Physical Internet ([download the Roadmap](#)).

Brought to you by the BOOSTLOG project consortium: The project consortium is led by the Alliance for Logistics Innovation through Collaboration in Europe, ALICE, and consists of 12 ALICE members representing different stakeholders: R&D ([ZLC](#), [ICCS](#), [Fraunhofer IML](#) and [TU Delft](#)), government ([TKI DINALOG](#)), Company ([HACON](#), [FIT](#), [Fundación Valenciaport](#)), Civil Society ([Smart Freight Centre SFC](#)) and Collaborative Networks and Clusters ([VIL](#), [CLOSER](#) and [ERTICO-ITS Europe](#)). More information about the project, please check [here](#).

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Annex B Brochures

B1: Call for Implementation cases on Logistics Nodes

We are studying projects funded by FP5, FP6, FP7 & HORIZON2020. If you have used outcomes of the projects or know projects whose results have been implemented, please let us know!

Maritime & River port



Inland port



Container depot



Intermodal terminal



Airport



Logistics Nodes

Logistics Nodes are facilities characterised by their geographical strategic locations and by the infrastructures, assets and activities involved. They usually consist of large areas where both public authorities and business agents cooperate under co-competition schemas to facilitate and optimise transport and logistics operations along the supply chains.

Many R&I projects have enabled improvements of control and performance of various activities necessary for the transport of goods, including services, procedures from planning to performance, thus improving efficiency of not only logistics nodes but overall freight transport.

Implementation Cases

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.

Implement Cases are that research results have been further developed and have been deployed as commercial solutions, have generated a new market or have contributed to new policies and will establish causal links between research funding and impact.

Call for Submission:
Implementation
Cases on Logistics
Nodes

**Third ALICE Logistics
Innovation Award**



B2: Call for implementation cases on Logistics Networks

We are studying 17 projects funded by FP5, FP6, FP7 & HORIZON2020. If you have used outcomes of the projects or we miss some projects whose projects have been implemented, please let us know!



INTER-FACE

GIFTS



NEWS



Synchro-NET



Multimodal freight transport corridors & networks

Multimodal transport networks and corridors are the backbone of international logistics systems. The organisation of transport and logistics services on these networks and corridors is challenging due to increasing transport demand and limited capacities as well as numerous interfaces between countries, operators and modes.

Maintaining the functioning of international supply chains and at the same time increasing their efficiency and sustainability requires process and technology innovations, embedded in the service planning, operations and management. This concerns intra-modal systems – specifically addressing eco-friendly modes such as rail and waterways as well as the intermodal interfaces and other solutions fostering multimodality and synchro-modality.

Implementation Cases

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.

Implement Cases are that research results have been further developed and have been deployed as commercial solutions, have generated a new market or have contributed to new policies and will establish causal links between research funding and impact.

Call for Submission:

Implementation Cases on Multimodal freight transport corridors & networks

5th ALICE Logistics Innovation Award



B3: Call for implementation cases on Physical Internet

We are studying 22 projects funded by FP7 & HORIZON2020. If you have used outcomes of the projects or we miss some projects whose projects have been implemented, please let us know!



Realising Physical Internet

The Physical Internet (PI) is an ambitious concept that transfers principles of data exchange on the Internet to goods transport in the real world, i.e. in the internet world, data finds a way without human intervention and neither the sender nor the recipient know the path data packets take. PI aims optimum use of vehicles, assets and the existing infrastructure through open and shared logistics networks and flexible routing to maximise efficiency and sustainability in transport and logistics.

Implementation Cases

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.

Implement Cases are that research results have been further developed and have been deployed as commercial solutions, have generated a new market or have contributed to new policies and will establish causal links between research funding and impact.

Call for Submission:

Implementation Cases on Physical Internet

6th ALICE Logistics Innovation Award



Annex C: Poster - European Funding for Logistics Innovation





Annex D ALICE position paper - Beyond Technical Readiness Levels: how do we assess readiness for scale impact?

*Beyond Technical Readiness Levels:
how do we assess readiness for scale impact? April 2022*

alice Alliance for Logistics Innovation through Collaboration in Europe

Beyond Technical Readiness Levels: how do we assess readiness for scale impact?

Summary

The European Union has been investing heavily in research addressing critical challenges, often with great success in enabling new solutions. But there is frustration that proven innovations struggle to deliver the envisaged impact, not because they prove to be bad ideas but because the barriers to widespread adoption go beyond proving that something works.

For many years Technical Readiness Levels have been used to assess progress from an idea towards a proven solution. But innovations achieving TRL9 – actual system proven in an operational environment – are still a long way from being buyable solutions for even the most forward-looking users. There is an intermediate stage where adoption has very high inter-dependencies.

This is not a new thought. Various organisations have looked at this from different perspectives: societal readiness (society focus), market readiness (customer focus), and commercial readiness (investor focus) all have their champions. And this list is not complete, with regulatory readiness being an obvious gap.

Recent research and innovation calls for proposals are recognising this issue without calling it out explicitly: more of the focus is on assessing impact and on the exploitation plan. But in the absence of a common assessment methodology for readiness for scale it is difficult to compare different proposals in this regard without being over-influenced by the honeyed words of the proposal writer.

The Boostlog project has demonstrated the need to create systematic ways of bridging this gap. The Entrance project is seeking to bridge this gap for a number of specific innovations, bringing together interested buyers with proven solutions and jointly identifying and addressing the interdependencies.

This paper envisages the creation and widespread adoption of a standard Scale Readiness Level.

To do this requires answers to two different questions:

1. If such a tool existed, who would lead its widespread adoption?
2. What needs to be done to create it?

Working alongside Boostlog and Entrance projects, ALICE is proposing to co-ordinate work to address these two questions.

Why are Technical Readiness Levels not enough?

TRLs assess the progress of a solution idea towards a state of being proven in an operational environment. The creator of TRLs was NASA, for whom the readiness of a solution to be used in their space programme was the only concern. They had no need to create a market or to find investors for each idea; their arena was beyond the scope of most regulators. Whether it worked was the only important measure. TRLs were

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Activities performed with the support of [BOOSTLOG](#) and [ENTRANCE](#) project, that has received funding from the European Union's Horizon 2020 research and innovation Programme under grant No 101006902 and N°101006681



*Beyond Technical Readiness Levels:
how do we assess readiness for scale impact? April 2022*



then taken up by the UK Nuclear Decommissioning Authority, who again had no need to create a customer-base. And now TRLs are widely used by a variety of technical research programmes.

TRLs were never designed to assess the readiness of a fragmented potential user base to buy and use the solution. The designers had one user in mind – themselves. But for the challenges of decarbonisation, and other challenges, the user-base is highly fragmented, and their adoption of the new solution is dependent on a series of different concerns that go beyond technical readiness.

1. Is the societal framework in place that sees solving the problem in the way the solution envisages as desirable? Are the necessary changes in ways of life accepted and valued?
2. Is the regulatory framework in place that minimises risk to customer, investor and wider society?
3. Is there a pipeline of potential users, each understanding the potential value, what needs to be in place and at what price-point they will buy?
4. Is there an investable proposition, whereby the roadmap to critical mass can at least be hypothesised? (Critical mass for this purpose is defined as the point where both the revenue stream exceeds the cost of provision, and where the risks associated with dependencies on external factors are acceptable).

Social Readiness Levels

A scale of Social Readiness has been created and adopted by a number of organisations such as the Danish Innovation Fund. Its concepts have clear links to Market Readiness (potential customers) and Regulatory readiness, and through these to Commercial readiness (potential investors).

Examples of this would be society's willingness to accept bigger trucks in return for fewer of them even if the highways could accommodate them, or of willingness not to use the local planning system to block onshore windfarms near them. On a smaller scale the willingness to adopt different behaviours, such as sorting waste into different bins, actually reusing reusable bags, or bringing back packaging to claim a small deposit refund.

Regulatory Readiness Levels

Regulatory readiness has a close relationship with societal readiness but is more easily measured. Is the use of the innovation legal? Are the necessary frameworks in place so that compliance can be established.

Examples of this would be self-driving vehicles on public roads and their associated insurance requirements, or the use of drones for delivering goods.

Market Readiness Levels

For many innovations this is the critical hurdle, as the change often does not demand social or regulatory change.





*Beyond Technical Readiness Levels:
how do we assess readiness for scale impact? April 2022*



The key to this is looking at the solution from the buyer's perspectives. What are the criteria that different potential buyers use to establish whether the innovation is both a clear solution to a recognised problem and is ready to buy and use.

And the literature is full of both examples of technically successful innovations that don't sell, and of the theories around them. The simplest summary is to split the potential market into five groups, each of which have different motivations and requirements:

Segment	Volume Share	Motivation	Requirement
Innovators	1% max	Technical exploration	Newness & excitement
Early Adopters	5% max	Benefit Visionaries	Fundamentals work; workarounds for the rest
Early Majority	44%	Practical value	Holistic practicality
Late Majority	30%	Low risk following	Market standard
Laggards	20%	Retention of capability	Obsolescence of traditional

The volume share numbers are highly indicative, varying enormously from one innovation to another. But the key point is that the innovators, who often band together to create something that works, are a tiny proportion of the user base and are not representative of the rest. The early adopters listen to the innovators, and are then sufficiently excited by the possibilities that they are willing to overlook the rough edges of the solution so long as the fundamentals are in place; in fact they often see those rough edges as the opportunity to shape the complete solution. Without innovators and early adopters the solution never gets to the early majority, which is the key to scale. But the early majority require a holistic solution: they're driven by practicality and expect the innovation to be both easy to buy and easy to use.

In many cases the late majority and the laggards convert inevitably over time: the late majority adopt what is no longer an innovation because everybody else is doing it; and the laggards adopt because their previous solution is no longer available. In most markets the late adopters & laggards represent 50% of the market, so any focus on scale impact cannot ignore them.

There is often a chasm between the early adopters and the early majority into which innovations regularly fall and perish. Crossing the chasm – the title of the classic book by Geoffrey Moore – is fundamentally about addressing the different needs of the early majority while the investors think that the product development process has moved from fundamental change to continuous improvement. Addressing this chasm is the difference between take-up rates for the same innovation in similar but different markets: for example why over 50% of new car registrations in Norway are electric relative to less than 10% in Sweden, Denmark & Finland (2020 data). Clearly a close link with societal and regulatory readiness levels, as the different take-up in Norway is largely driven by the tax treatment in combination with the investment in recharging points.

Commercial Readiness Levels

Most banks and investment organisations have firmly established criteria for assessing the investability of a particular enterprise. One limitation will be that these will tend to evaluate investment risk of a company





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rather than of an idea; and many such assessments are focused at particular points in the development of an enterprise – from seedcorn funding, through angel investments to venture capital, or lending money to established businesses.

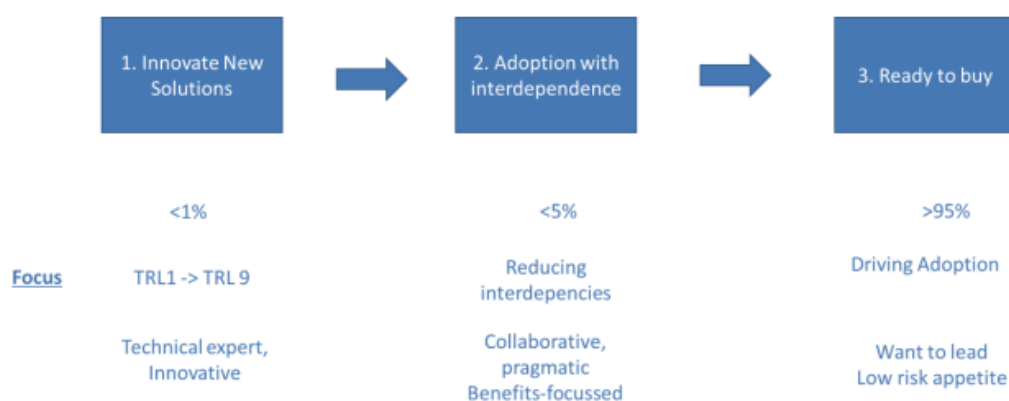
These criteria, particularly those of angel investors focused on taking an equity share in start-ups, may give a rounded approach as to the credibility of the innovation, the market, the competition, the intellectual property, the organising team, their business plan and associated assumptions and timelines.

Other

There may be other dimensions we have not yet considered. The concept of economies of scale will need to be covered somewhere. We will be engaging with a diverse group specifically to address the “what else?” question.

Conclusion

In its essence this is about creating an assessment methodology that recognises the necessary progress from “Stage 1 – Innovate New Solutions” to “Stage 2 – Adoption with interdependence” to “Stage 3 – Ready to Buy”. Its at the third stage that the scale & impact can really take place.



As illustrated above the types of critical participants evolve over time. One of the dangers is that the leading edge research & innovation specialists drawn to the technical excitement of Stage 1 are rarely the people to empathise with the potential buyers in Stage 3.

Without an assessment scale it is not surprising that innovations get stuck between Stages 1 and 3, with the participants in Stage 1 preaching to the converted, and the potential customers in Stage 3 frustrated that an exciting-sounding innovation just doesn't qualify as a buyable solution.

Extending the readiness level assessment scale beyond technical readiness is a critical step to converting innovation into impact at scale.





*Beyond Technical Readiness Levels:
how do we assess readiness for scale impact? April 2022*



Action Plan

The action plan is addressed to the two key questions identified at the start:

1. Discussion of the issue with potential sponsors of a new Scale Readiness assessment tool
2. Development of a draft Scale Readiness assessment tool

Michael Archer, Chair ALICE Thematic Group 4 Supply Network Coordination and Collaboration

We welcome feedback and input to this discussion paper. To that end, please contact Fernando Liesa: fliesa@etp-alice.eu

About ALICE

ALICE, the **Alliance for Logistics Innovation through Collaboration in Europe**¹ is a non-for-profit industry led association based in Brussels with 160+ **members** reaching the full stakeholders' groups within freight transport, logistics and supply chain. ALICE is the Alliance of European leading companies and experts in implementing logistics and supply chain innovation.

ALICE's vision is to achieve an affordable **transition towards net zero emissions logistics**. To that end, logistics, from global to urban, need to evolve. Assets and resources, including transportation means, need to be better utilized. By creating seamlessly interconnected logistics networks through the **Physical Internet (PI)** better conditions for affordability of zero emissions solutions will be created through improved asset sharing and efficiency, contributing also to improved agility and resilience of supply chains. This efficiency gains will reduce the burden to transition of assets and energies needed for zero emissions transportation and logistics.

This transition requires scalable innovation and that European freight transport and logistics R&I ecosystem perform optimally boosting impact generation out of R&I investment and accelerating R&I take up.

ALICE supports, assists, and advises the European Commission² in the definition and implementation of the EU Program for research: Horizon 2020 and Horizon Europe in Logistics.

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Disclaimer *This discussion paper aims to bring together the views of a wide range of ALICE members regarding this subject. The views expressed in this report are based on the author consolidation work and of the stakeholders and experts consulted through different activities such as workshops, surveys, direct contacts, etc. The individual organizations as part of the ALICE membership may not necessarily fully support all the views expressed in the document. All the stakeholders involved do share a common interest however: Accelerate the transition towards climate neutrality in an affordable way and the need of innovation development and accelerated take up to realize it.*

¹ Transparency Register number 006901422654-34

² Recognized by the European Commission as a European Technology Platform (ETP) in 2013. SWD (2013)272/F1 COMMISSION STAFF WORKING DOCUMENT STRATEGY FOR EUROPEAN TECHNOLOGY PLATFORMS: ETP 2020

