



# BOOSTLOG PROJECT

## DELIVERABLE REPORT

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Document identifier:	<b>BOOSTLOG – D1.2</b>
Due Date of Delivery to EC	<b>M 18 – 30. 06. 2022</b>
Actual Date of Delivery to EC	<b>03.08.2022</b>
Title:	<b>Management and progress report</b>
Dissemination level:	PU
Work package:	<b>WP1</b>
Lead Beneficiary:	<b>ALICE</b>
Other Beneficiaries:	
Document status:	<b>Final</b>
Document link:	<a href="https://www.etp-logistics.eu/boostlog/">https://www.etp-logistics.eu/boostlog/</a>

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### Disclaimer

This report is part of the BOOSTLOG project that has received funding by the European Union's Horizon 2020 research and innovation programme under grant agreement 101006902. The content of this report reflects only the authors' view. European Climate, Infrastructure and Environment Executive Agency (CINEA) and the European Commission are not responsible for any use that may be made of the information it contains.



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
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## Document History:

Version	Date	Modification reason	Author(s)
1.0	12.07.2022	First draft	Yanying Li, ALICE
2.0	28.07.2022	Review	Andrea Annunziata, ALICE
Final	03.08.2022	Final version	Fernando Liesa, ALICE

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## EXECUTIVE SUMMARY

BOOSTLOG Vision is transforming European freight transport and logistics R&I ecosystem to perform optimally boosting impact generation out of research and innovation (R&I) investment contributing to EU policy objectives and supporting the sector's efforts for sustainability and competitiveness. The BOOSTLOG project was officially launched in January 2022. This Management and Progress Report provides an executive summary of BOOSTLOG achievements and progress in the first 18 months since beginning of the project. It highlights activities, key actions and outcomes of the activities performed.

In the first 18 months, the project has carried out comprehensive studies into several topics in logistics for developing 'Cloud' reports, identified priorities and needs for future R&I projects. The project has published cloud reports on three important topics of logistics: 1) [Logistics coordination and collaboration](#); 2) [Urban logistics](#); 3) [Logistics Nodes](#). ALICE Innovation Awards have been created to acknowledge achievements of those R&I project consortium members who have successfully implemented R&I projects. Two Awards have been given, associated with the published cloud reports on Logistics coordination and collaboration, and Urban logistics. The awards on logistics nodes will be released in September 2022. Cloud reports on data sharing, and logistics networks have been initiated and will be completed in next few months. Innovation awards associated with these two cloud reports are being organised.

The project has identified [barriers that prevent implementation of R&I project outcomes](#). Based on identified barriers, positive frameworks aiming to advance such implementation have been proposed. The barriers and positive frameworks have been used to develop [valorisation strategies for various stakeholders](#). Valorisation strategy for ALICE has included key requirements for an [Innovation Marketplace](#) which has been launched in June 2022 (M18). The Innovation Marketplace, aiming connecting innovation providers and buyers (implementers), is a key instrument to boost impact generation of R&I projects.

The project has conducted a comprehensive survey and a workshop to collect inputs on identifying [priorities for logistics innovation and develop recommendations for policy makers](#). The identified priorities and recommendations have taken into consideration current challenges (e.g. disruption of global supply chain) and trends (e.g. sustainability, climate action).

The project successfully engaged with all stakeholder groups identified by the consortium, reached out a wider range of stakeholders including those who are familiar with EU funding on R&I. The project has raised awareness the importance of generating impacts of R&I projects in the logistics innovation community. The project has organised four events (virtual) which have been participated by all types of stakeholders. The project was presented at several external events such as POLIS conference (POLIS2021). The project has used ALICE communication channels and networks as well consortium members' networks to disseminate project activities, e.g. call for implementations cases and ALICE Innovation Awards. The project has published 4 press releases, and other dissemination materials such as leaflet, brochure and poster. The project is a founder of the Task Force on Accelerating Innovation Uptake for Sustainable Transport<sup>1</sup>. Additional information on the project, reports and deliverables are available via the project webpage: <https://www.etp-logistics.eu/boostlog/> and [ALICE Knowledge Platform](#).

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<sup>1</sup> For more information: <https://www.etp-logistics.eu/launch-of-the-task-force/>



## 1. Introduction and scope of this deliverable

According to the Grant Agreement of the BOOSTLOG project, as a project funded by Horizon 2020 programme, a periodic report will be submitted to CINEA after closing the first reporting period (the first reporting period of BOOSTLOG covers the first 18 months of the project). The periodic report will follow a standard template of Horizon 2020 that includes explanation of the work carried out by the beneficiaries and overview of the progress, impacts, updates of the plan for exploitation and dissemination results, update of data management plan, deviations, and use of resources.

This deliverable is seen as an extended executive summary of the work carried out by the consortium and significant results of each area of actions. It does not include detailed progress per beneficiary. It aims to inform progress and key achievements of the BOOSTLOG project to stakeholders the project has engaged in the first 18 months. The BOOSTLOG stakeholders will be able to have a comprehensive overview of the project progress and see their contributions to optimising the logistics R&I ecosystem.

More detailed information for progress per task and per Work Package (WP), use of resources, project management, etc. can be found in the periodic report. This deliverable aims to provide only high-level overviews and

Relevant BOOSTLOG deliverables to this report are:

- D1.3 Impact Indicators and Risk Management report, published at the same time as this report;
- D5.3 Report on Stakeholder Engagement, Communication and Dissemination, published in March 2022;
- D5.3 Data Management Plan update (i), published at the same time as this report.

## 2. Work carried out by the consortium and overview the progress

### 2.1 Objectives

BOOSTLOG Vision is transforming European freight transport and logistics R&I ecosystem to perform optimally boosting impact generation out of R&I investment contributing to EU policy objectives towards climate neutrality, pollution, congestion and noise reduction, free movement of goods, internal security, digital transformation of logistics chains and data sharing logistics ecosystems and supports companies' sustainability and competitiveness generating value for society.

In order to do so, BOOSTLOG focuses on 4 main areas of action:

1. Increase visibility and support valorisation of R&I project Results, Outcomes and Implementation Cases in the freight transport and logistics field:
  - Map and asses around 190 EU-funded R&D since FP5 in different freight transport and logistics domains, identifies and include main results, outcomes and implementation cases from projects in ALICE Knowledge Platform,
  - Develops comprehensive and industry actionable reports (logistics cloud reports) starting with: a) logistics coordination & collaboration b) urban logistics, c) logistics nodes, d) freight



and logistics data sharing e) multimodal freight, corridors & transport networks f) modularization and transshipment to share progress made and highlight the impact achieved through R&I projects;

2. Overcome barriers for R&D deployment, identify and define valorisation strategies and guidelines to speed up the technological and organisational innovation uptake, including the creation of the Innovation Marketplace within ALICE knowledge platform, examine which areas of research have achieved higher impact and issue recommendations to increase impact of R&I public funding;
3. Identify and define high potential & priority R&I gaps to make efficient uses of R&I investments and provides recommendations to funding organizations (e.g. European Commission);
4. Boost impact of the project outputs towards end users of the freight transport and logistics system, establishing collaboration frameworks for the exchange of best practices in freight transport and logistics R&I at regional, national, European level, engaging with relevant stakeholders in the innovation process.

## 2.2 Progress per area of action

### *Increase visibility and support valorisation of R&I project Results, Outcomes and Implementation Cases in the freight transport and logistics field*

The BOOSTLOG has been continuously mapping EU funded R&I projects since FP5 in different freight transport and logistics domains. Data has been collected from various existing data about projects such as CORDIS and TRIMIS, H2020 Results Platform<sup>2</sup>, BOOSTLOG project consortium members and deliverables that have been collected by ALICE through its Liaison Program, ALICE Knowledge Platform (KP)<sup>3</sup>, and Thematic Groups. All projects that have been mapped by the BOOSTLOG project has been summarised in D2.1 Detailed Mapping of EU funded Research Projects, providing basic information of previous and ongoing R&I projects, such as funding schemes, consortium members, objectives, key outcomes etc. In total of 290 EU funded projects and some regional/national funded projects have been mapped out in D2.1.

The mapped projects have been the base for development of comprehensive and industry actionable reports (logistics cloud reports). The project consortium has carried out desk research and surveys (interviews to key experts and expert workshops) to gather R&I projects' outcomes including innovative solutions and their implementations. Outcomes of analysis of R&I projects and implementation cases are reported in BOOSTLOG 'cloud' reports.

3 cloud reports have been published:

- D2.2 Cloud report – Coordination and Collaboration
- D2.4 Cloud report – Urban Logistics
- D2.5 Cloud report – Logistics Nodes

The forthcoming cloud reports in 2022 are:

- D2.6 Cloud report - Freight and logistics data sharing;

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<sup>2</sup> <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/horizon-results-platform>

<sup>3</sup> <https://knowledgeplatform.etp-logistics.eu/>



- D2.7 Cloud report - Multimodal freight, corridors & transport networks.

Leaders of each 'Cloud' report identify implementation cases that were developed from project outcomes and have improved efficiency, decarbonisation of the sector, and addressed other challenges the logistics sector face. For each of the cloud reports, a specific call for submission of implementation cases was published via various channels, e.g. ALICE newsletter, ALICE website, ALICE Thematic Group communication channels, and social media from the BOOSTLOG consortium members. More detailed information can be found in D5.3 Report on Stakeholder Engagement. Such calls for implementation cases will ensure that the BOOSTLOG consortium members collected information from all possible stakeholders. Cloud reports identified and contacted each implementation case owner to carry out interviews to ensure information collected accurate and relevant to logistics innovation practitioners. After all implementation cases were finalised for each cloud report, an expert workshop was organised to finalise information in the cloud report. All cloud reports have been published on the project page<sup>4</sup> and available on the KP.

### ***Overcome barriers for R&D deployment, identify and define valorisation strategies and guidelines to speed up the technological and organisational innovation uptake***

While mapping R&I projects and assessing outcomes of the projects, barriers have been assessed and based on the barriers, positive frameworks to advance implementation of project outcomes have been proposed. The results have been summarised in:

- D2.3 Barriers assessment and positive framework conditions (i)

BOOSTLOG has assessed impacts of EU funding on the logistics and identified actions needed to advance implementation of project outcomes. BOOSTLOG has defined valorisation strategies and guidelines for various stakeholders. The valorisation strategies has recommended implementation of an dedicated Innovation Marketplace to make project outcomes more accessible and easy to understand by industry stakeholders:

- D3.1 Valorisation strategy guidelines. (i)
- D3.2 Impact analyses of EU funding in logistics priority Clouds, KPIs and recommendations.
- D3.3 Innovation marketplace

The Innovation marketplace<sup>5</sup> has been launched as a new feature to ALICE Knowledge Platform<sup>6</sup>. All implementation cases identified by the cloud reports are available on the Innovation Marketplace. The Innovation Marketplace is open to all innovation owners who can create user accounts, register their organisations, describe their innovations and present use cases if applicable. The BOOSTLOG consortium are continuing to develop functional features of the marketplace and include more implementation cases as the project progresses.

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<sup>4</sup> <https://www.etp-logistics.eu/boostlog/>

<sup>5</sup> Innovation Marketplace: <https://knowledgeplatform.etp-logistics.eu/course/view.php?id=259>

<sup>6</sup>ALICE Knowledge Platform: <https://knowledgeplatform.etp-logistics.eu/>



**Identify and define high potential & priority R&I gaps to make efficient uses of R&I investments and provides recommendations to funding organizations (e.g. European Commission)**

The project has carried out surveys, to collect opinions on gaps in R&I, future needs and priorities. The first online questionnaire survey was distributed through various channels in July 2021 to reach out a wider range of stakeholders. A workshop was organised to validate survey results and collect additional inputs. Detailed information on stakeholders engaged for this task can be found in D5.3 Report on Stakeholder Engagement. All information collected through the survey and the workshop has been used to form deliverables:

- D4.1 Definition of high relevance topics for freight transport and logistics (version 1)
- D4.2 Gap analysis for R&I Logistics Clouds (version 1)
- D4.3 Recommendations for future R&D activities (version 1)

The BOOSTLOG consortium has included national funding organisations, e.g. TKI DINALOG (the Netherland) and regional logistics clusters, e.g. VIL and CLOSER. Their contributions have enabled that the priorities and gap analysis identified by the BOOSTLOG project results have taken into consideration of national priorities.

**Boost impact of the project outputs towards end users of the freight transport and logistics system, establishing collaboration frameworks for the exchange of best practices in freight transport and logistics R&I at regional, national, European level, engaging with relevant stakeholders in the innovation process.**

Engaging stakeholders, communication, and dissemination are therefore a key task to the success of the BOOSTLOG project. Stakeholders will not only include those who work in the transport and logistics sector, but also to all sectors that can benefit from EU funded R&I projects. BOOSTLOG has particularly made efforts to reach out stakeholders who are normally outside the circle of EU funded projects and raise awareness of outcomes of the EU funded projects, and advance implementations of project outcomes.

Key stakeholders can be categorised into four groups: Companies, Government, R&D organisations, and Civil Society as shown below:

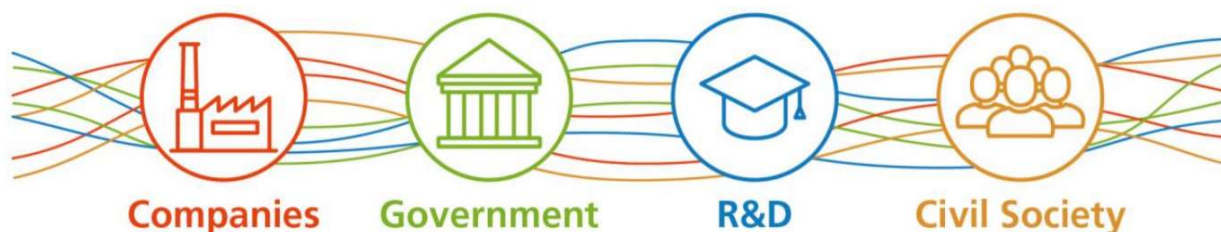


Figure 1. Categories of stakeholders the BOOSTLOG project to engage with

BOOSTLOG's stakeholder engagement, communication and dissemination have been using the existing facilities and resources built by the European Technology Platform ALICE, such as ALICE Knowledge Platform, and ALICE membership (full list of ALICE member is available in Annex A), as well the BOOSTLOG consortium members' networks, e.g. GLEC of the Smart Freight Centre. Three deliverables have been published:





- D5.1 Plan for Stakeholder Engagement, Communication and Dissemination 1st version
- D5.2 Report on Stakeholder Engagement, Communication and Dissemination
- D5.3 Develop specific communication materials for companies

In the first 18 months, the project has organised several online events:

Date	Title	Type of event	Objectives
26.Mar 2021	BOOSTLOG Launch Event	Online	Raising awareness of the BOOSTLOG project activities and the importance of advancing R&I project outcome uptakes
26. Oct. 2021	Workshop on Identified Priorities in Logistics	Online	Presenting and collaborating survey results; collecting inputs for D4.1 and D4.2
24. Nov 2021	First ALICE Innovation Award Ceremony & Launch of the Cloud Report on Coordination and Collaboration	Online	Launch of the first cloud report; celebrating achievements of those who implemented R&I project outcomes
28. Apr 2022	Second ALICE Innovation Award Ceremony & Launch of the Cloud Report on Urban Logistics	Online	Launch of the second cloud report; celebrating achievements of those who implemented R&I project outcomes
9. May 2022	Celebrating EU-funded R&I Projects on Logistics: What have we achieved & The Way Forward	Side event of Smart Freight Week (in-person)	Reaching out to stakeholders who are not familiar with EU-funded R&I projects

The consortium has also planned the European Logistics Innovation Day: first in-person event of BOOSTLOG, on 5<sup>th</sup> July 2022 in Brussels. The consortium participated in external events in the transport sector:

- POLIS 2021<sup>7</sup>, 1-2 December, 2021, Gothenburg, Sweden;
- ITS European Congress<sup>8</sup>, 30 May to 1 June, 2022, Toulouse, France.

<sup>7</sup> <https://www.polisnetwork.eu/2021-annual-polis-conference/>

<sup>8</sup> <https://itseuropeancongress.com/>



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

- 2 press releases:
  - Published on Feb 17 2021, “Boosting the impact of EU funded research in the field of freight transport and logistics to support competitiveness and address the climate challenge - BOOSTLOG project launch”;
  - Published on April 23 2022, “First Call for Submission of Implementation Cases of EU funded R&I projects for the ALICE Logistic Innovation Award”;
- 3 Brochures:
  - Call for Implementation Cases on Coordination and Collaboration, published in May 2021 (See Annex C1);
  - Call for Implementation Cases on Urban Logistics, published in September 2021 (See Annex C2);
  - Call for Implementation Cases on Logistics Nodes in February 2022 (See Annex C3)
- 1 information sheet (full text in Annex D);
- 1 roll-up post: printed the information sheet in November 2021 for the POLIS conference.

All materials are available for download at the BOOSTLOG webpage<sup>9</sup> and detailed information can be found in D5.3.

BOOSTLOG was also a found member of the Task Force on Task Force on Advancing Innovation Market Uptake for Sustainable Transport. The Task Force was launched in December 2021 jointly by eight CSA projects including BOOSTLOG aiming for joint efforts for innovation market uptake<sup>10</sup>.

### 3. Summary of the project achievements

#### 3.1 Deliverables

The BOOSTLOG consortium has submitted all deliverables that due in the first 18 months of the project, except two deliverables that are related to closing of the reporting period (D1.2 Management and Progress Report and D1.3 Impact Indicator and Risk Management Report). There are some delays in submission of deliverables due to excessive sick leaves of the consortium members due to the COVID-19 pandemic. However, the project consortium has been able to submit all deliverables due in the first reporting period to avoid any further delays of the project.

The following table shows list of deliverables that have been submitted in the first 18<sup>th</sup> months of the project. All submitted deliverables, except the two confidential deliverables D6.1 H-Requirement No.1 and D6.2 POPD

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<sup>9</sup> <https://www.etp-logistics.eu/boostlog/>

<sup>10</sup> <https://www.etp-logistics.eu/launch-of-the-task-force/>



– Requirement No.2, are available on the BOOSTLOG webpage and via the ALICE Knowledge Platform. Those deliverables provide a substantial knowledge to the logistics innovation community.

Deliverable (number)	Deliverable name	Leading author	Submitted date
D1.1	Project management handbook	ALICE	March 2021
D2.1	Detailed Mapping of EU-Funded Research Projects (EXCEL sheet)	ZLC	July 2021
D2.2	Report on Logistics Cloud I - Coordination and Collaboration	ZLC	December 2021
D2.3	Barriers assessment and positive framework conditions (i)	ZLC	March 2022
D2.4	Report on Logistics Cloud II – Urban Logistics	FIT	March 2022
D2.5	Report on Logistics Cloud II – Logistics Nodes	VPF	April 2022
D3.1	Valorisation strategy guidelines. (i)	TKI-DIN	March 2022
D3.2	Impact analyses of EU funding in logistics priority Clouds, KPIs and recommendations.	ZLC	June 2022
D3.3	Innovation marketplace	ALICE	June 2022
D4.1	Definition of high relevance topics for freight transport and logistics (version 1)	Fraunhofer	December 2021
D4.2	Gap analysis for R&I Logistics Clouds (version 1)	ZLC	January 2022
D4.3	Recommendations for future R&D activities (version 1)	Fraunhofer	March 2022
D5.1	Plan for Stakeholder Engagement, Communication and Dissemination 1st version	ALICE	March 2021
D5.2	Data Management Plan	ALICE	June 2021
D5.3	Report on Stakeholder Engagement, Communication and Dissemination	ALICE	March 2022
D5.4	Develop specific communication materials for companies	SFC	June 2022



D5.5	Data management update	ALICE	June 2022
D6.1	H - Requirement No.1	ALICE	March 2021
D6.2	POPD – requirement No. 2	ALICE	March 2021

### 3.2 Milestones

All the milestones that were scheduled in the first 18<sup>th</sup> months of the project have been reached as shown below:

Milestone (number)	Milestone name	Leader	Due date	Reached
MS1	Project Kick-off Meeting in which to launch and start project activities	ALICE	M1	M2
MS2	BOOSTLOG launching workshop	ALICE	M3	M3
MS3	Logistics Clouds defined (i) - The initial logistics clouds are defined and validate in the launching workshop	Fraunhofer	M3	M3
MS4	Relevant R&I Gaps defined (i) A heat map is developed to identify the main R&I gaps	Fraunhofer	M6	M10
MS5	Launch of the Innovation Marketplace	ALICE	M15	M18

### 3.3 Additional efforts

The project consortium, while conducting all tasks and submitting all deliverables according to the Grant Agreement, has made additional efforts for advancing the innovation marketplace and boosting impacts from R&I projects. Two distinguished examples are shown below.

#### ALICE Innovation Award

The project has established an 'Innovation Award' which were not planned by the Grant Agreement. However, when carrying out study into past R&I projects and their impacts, the consortium members realised that it was rather challenging for implementing R&I projects outcomes, resulting in not so many projects that have delivered impacts. Therefore, the consortium decided to issue the Award to acknowledge the achievements of those who have been able to implement project outcomes and generate impacts in this sector. Two award ceremonies have been held and the award selection committees consisted of high level experts, most from



companies. The Award winners have included SMEs including star-ups (e.g. MIXMOVE), big companies (e.g. UPS), public authorities (e.g. cities), associations (e.g. Transport Decarbonisation Alliance) or specific solution (e.g. Smart Box). The Award has gained significant attentions from R&I project practitioners and policy makers. The BOOSTLOG consortium members believe that the Award and stories of the award winners will inspire current R&I project participates and next generation researchers. It will also support future policies on R&I project fundings and evaluation in order to enable implementation from very beginning of each R&I project. More detailed information about the Innovation Award can be found in D5.3. The first press release<sup>11</sup>, announcements of winners of each Award can be found at the BOOSTLOG webpage.

### [Launch of the Task Force on Accelerating Innovation Uptake for Sustainable Transport](#)

The BOOSTLOG project consortium has been working with other seven Coordination and Support Action (CSA) projects funded by H2020 at a similar period to make joint efforts for impact generations of R&I projects since beginning of 2021. Those projects regularly met and exchanged information on development, events, and resources. After one-year successful cooperation, those projects have agreed to launch of the Task Force on Accelerating Innovation Uptake for Sustainable Transport, aiming to create a more permanent instrument to support such activities beyond the project framework. The task force was officially launched in December 2021. Detailed information about the Task Force can be found in the press release on the launch<sup>12</sup>.

The task force has The Task Force aims to raise awareness of project activities on advancing market uptakes of innovation in transport to a wide range of stakeholders including high-level policy makers, mobilise resources from projects and other initiatives to address key obstacles, thus facilitating market uptake of innovations, and create cross-project, cross-sectoral cooperation to maximise impacts of project activities and avoid duplication. Task force's activities are organised following four workstreams: Matchmaking between innovation suppliers and buyers, finance & de-risking, best practice sharing, capacity building and guideline development. The task force will be presented at the TRA2022<sup>13</sup> conference in November in Lisbon.

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<sup>11</sup> [https://www.etp-logistics.eu/wp-content/uploads/2021/04/BOOSTLOG-Press-Release\\_04232021.pdf](https://www.etp-logistics.eu/wp-content/uploads/2021/04/BOOSTLOG-Press-Release_04232021.pdf)

<sup>12</sup> <https://www.etp-logistics.eu/launch-of-the-task-force/>

<sup>13</sup> <https://traconference.eu/>