BOOSTLOG PROJECT

DELIVERABLE REPORT

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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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Contents

EXECUTIVE SUMMARY

This deliverable is a summary of data management activities in the time of M19 – M36 of the BOOSTLOG project period. All the data management activities have followed the principles set by the *BOOSTLOG Data Management Plan (D5.2).* Data collected during this period have been used for developing the 5 Cloud Reports, updating valorisation strategies, identifying new priorities for research and innovation. Stakeholder information that has been collected during dissemination and exploitation activities will be used by the consortium members for exploitation after end of the project. Management of such data will follow the principles set by D5.2.

1   Introduction

The BOOSTLOG Data Management Plan (D5.2) has been developed in M6 following the HORIZON2020 Guidelines on FAIR Data Management and uses the template of Data Management Plan provided by the Guideline. A report on data management activities, *D5.5 The BOOSTLOG Data Management Plan Update (ii),* has been published in M18, describing data management activities on:

i.)   All datasets collected for the BOOSTLOG project and how they have been used for BOOSTLOG deliverables;

ii.)   How to make data Findable, Accessible, Interoperable and Reusable (FAIR);

iii.) Resources used for the data collection and management;

iv.)   Data security aspects.

This deliverable (D5.8) is 2nd edition of the *BOOSTLOG Data Management Plan Update*. It follows the same structure of D5.5 and provide a description of data management activities during M19 – M36 of the project period. There is no new type of data management activity in this period. Data collected during this period is same as in D5.5 as shown below.

Data collected and used in the BOOSTLOG project include:

-    Data of public funded research and innovation (R&I) projects

      o   Information of projects (objectives, funding scheme, budget, duration, consortium, tasks…)

      o   Information of experts who have worked on projects

-    Outcomes of R&I projects (e.g. innovative solutions) and their implementations if applicable

      o   Innovation solutions and their implementation cases;

      o   Organisations who developed and implemented the solutions

-    Opinions on gaps in R&I in the logistics sector, future needs and priorities

-    Opinions on how to improve R&I project exploitation and engage with a wider range of stakeholders for participating and exploiting R&I projects.

2   Data collection and usage during the second period (M19 – M36) of the project

2.1   Data of public funded research and innovation (R&I) projects

Data of public funded research and innovation (R&I) projects and their outcomes have been used to develop the cloud reports, key deliverables of the BOOSTLOG project:

- o   D2.6 Cloud Report IV: Freight and logistics data sharing

- o   D2.7 Cloud Report V: Logistics network

- o   D2.8 Cloud Report VI: Physical Internet including modularization and transhipment technologies

- o   D2.10 Cloud Report VII: Zero monitoring and implementing efficient and zero-emission freight transport

- o   D2.11 Cloud Report VIII: Digital technologies and applications for logistics (Digital Twins, IoT, 5G, AI and Blockchain)

The data on the projects (past and ongoing projects) have been mainly collected through existing databases, such as the EC's CODIS database[1] and H2020 Results Platform[2]. The data of the projects has also be analysed to identify gaps in the current R&I activities (D4.5 Gap analysis in R&D areas).

2.2   Outcomes of projects

Outcomes of the projects have been from the ALICE Knowledge Platform[3] and interviews with experts who have been part of project consortia or have used project outcomes in business. Project outcomes have been used to identify implementation cases described in the cloud reports. For each cloud report, 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. Examples of the call for implementations are show below. Such calls for implementation cases will ensure that the BOOSTLOG consortium members collected information from all possible stakeholders.

Table 1 Calls for implementation cases for each cloud report

Call for implementation cases	Date	**Public channels** (note: only selected channels included as each message has been published through various social media accounts)
Call for Implementation Cases for Data	03/08/2022	***ALICE website:*** https://www.etp-logistics.eu/call-for-implementation-cases-for-alice-innovation-award-for-data-sharing-in-supply-chain/

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[1] https://cordis.europa.eu/

[2] https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/horizon-results-platform

[3] https://www.etp-logistics.eu/knowledge-platform/

Sharing in Supply Chain		
Call for implementation Cases for Realising the Concept of Physical Internet	23/04/ 2023	*ALICE website:* https://www.etp-logistics.eu/call-for-implementation-cases-for-alice-innovation-award-on-realising-the-concept-of-physical-internet/ *LinkedIn post:* https://www.linkedin.com/feed/update/urn:li:activity:70576287236545 82273
Call for implementation cases for Efficient and Zero Emission Logistics	22/08/ 2023	*ALICE website:* https://www.etp-logistics.eu/call-for-implementation-cases-boostlog-cloud-report-efficient-and-zero-emissions-logistics/ *LinkedIn post:* https://www.linkedin.com/feed/update/urn:li:activity:70942846588964 24961
Call for implementation cases for Digital Technologies in Logistics	27/10/ 2023	*ALICE website:* https://www.etp-logistics.eu/call-for-implementation-cases-digital-technologies-in-logistics/ *LinkedIn post:* https://www.linkedin.com/feed/update/urn:li:activity:71247297892396 97412

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[4] and available on the KP.

Interviews with experts also provided best practices and lessons learnt in implementing R&I project outcomes. The best practices and lessons learnt were key inputs to update valorisation strategies, D3.4 Valorisation strategies (ii).

All data related to experts has been managed according to BOOSTLOG POPD Requirement (D6.2).

2.3   Opinions on gaps in R&I in the logistics sector, future needs and priorities

A workshop was organised to collect inputs on gaps in R&I in the logistics sector, future needs and priorities. The workshop was held on 1st March 2023 (link). The workshop attendees' information has been managed according to BOOSTLOG POPD Requirement (D6.2). Following the workshop, an online survey was conducted

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[4] https://www.etp-logistics.eu/boostlog/

to collect additional inputs for forming recommendations for future research and innovation activities. The online questionnaire[5] has not required any personal information. Inputs from the workshop and the online questionnaires have been used to form the deliverables of WP4. No personal data has been used by the project deliverables.

2.4 Opinions on how to improve R&I project exploitation and engage with a wider range of stakeholders for participating and exploiting R&I projects.

The BOOSLTOG project uses various communication and dissemination channels to engage with various stakeholders identified in D5.1 Plan for Stakeholder Engagement, Communications and Dissemination. Through the project communication and dissemination activities, personal information collected has been managed following the BOOSTLOG POPD Requirement (D6.2). Stakeholders engaged during the project period including the final conference will be analysed and reported in the final report of the BOOSTLOG project.

3 FAIR data principle

3.1 Making data findable

The data collected and generated in the BOOSTLOG project has been made publicly findable on the internet by uploading the deliverables to the project webpage and ALICE Knowledge Platform (KP). All communication materials and event presentations and recordings are also available on the project webpage: https://www.etp-logistics.eu/boostlog/.

The BOOSTLOG project has been presented at various international conferences such as:

- Transport Research Arena 2022, Lisbon, 14 – 17 November 2022
- Smart Freight Week, Amsterdam, 18 - 20 April 2023
- Transport Logistics Munich, Munich, 9 – 12 May 2023

The BOOSTLOG consortium also hosted a final event consisting of a conference and an exhibition presenting the key outcomes of the project[6].

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[5] The online questionnaire was distributed through social media, such as:

https://www.linkedin.com/feed/update/urn:li:activity:7094575292022706176

https://www.linkedin.com/feed/update/urn:li:activity:7071756124403687424

[6] Information about the final conference can be found: https://www.etp-logistics.eu/boostlog-final-conference-boosting-the-impact-of-freight-transport-and-logistics-eu-funded-research/

Social media posts were published to announce each of the key publications and events. For each cloud report, a launch event was organised in conjunction with the ALICE Innovation Award Ceremony. The award has been beneficial to the project to raise awareness of contributions to innovation in the logistics sector by EU funded projects and make project outcomes easy to find.

3.2 Making data openly accessible

All data generated by the BOOSTLOG consortium are publicly available through various channels, e.g. the project webpage (deliverables, and events), and the KP (link).

3.3 Making data interoperable

Data collected and published within the BOOSTLOG project has been using standard vocabulary in the field of logistics research and thus it will make the data easily findable for all stakeholders. Moreover, all data to be published in the KP is following the standard structure of the ALICE Working Groups, logistics clouds and priorities identified (using tags). This will ensure that data will be easily found by the logistics community.

3.4 Increase data re-use

All data collected and published in the BOOSTLOG project is originating from open access information and thus will be free of charge and openly accessible.

Data become immediately available upon submission of each deliverable to the EC by uploading the deliverable to the project space of the KP. All data generated from the BOOSTLOG project will be available beyond the project period through the KP. ALICE has committed to support availability of all the information of the project to the logistics community and beyond.

4 Allocation of resources

All costs linked to data collection in the BOOSTLOG project are reported by the consortium members according to the Description of the Action (DoA) of the project. Data availability in the KP is managed by ALICE at its own cost. Development of Innovation Marketplace, which will be a section in the ALICE KP, will be covered by BOOSTLOG, under Task 3.2 (Implement support actions to increase R&I market uptake).

5 Data security

The security of data published in the project webpage and the KP is the responsibility of the host of the website server under contracts with ALICE. The host of the website servers is responsible for the physical and cyber security. ALICE has a full ownership of the KP and holds a contract with the host of website server, who is taking the responsibility to ensure that all security measures will be implemented.

SSL certificates are used for the secure connection to the website. To avoid user registration in the Physical Internet KP by robots, a registration process must be completed by the user over the link sent by e-mail. This will help minimizing the risk of fake user accounts and will ensure the quality of the user database and data entries. All users' data are managed according to the BOOSTLOG POPOD Requirement (D6.2).