Data-driven and Dynamic Space and Assets for Physical Internet-led Urban Logistics and Planning

D7.4 – Liaison with other initiatives and ICBT

ALICE

August 2026

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Abstract

This deliverable presents the liaison activities carried out by the DISCO project with other EU-funded projects, initiatives, networks and stakeholder communities. It documents the main interactions established throughout the project, including webinars, workshops, conferences, joint sessions, stands, publications, joint statements and policy dialogue activities.

The report highlights how these exchanges supported knowledge sharing, dissemination, replication and the identification of synergies with related initiatives in the fields of sustainable urban logistics, data spaces, Physical Internet, digitalisation, multimodal freight and urban mobility planning. It also presents selected examples of cooperation, including the integration of tools and approaches from related projects into DISCO activities.

A specific section is dedicated to the Impact Creation Board for Transformation (ICBT), DISCO's external advisory board. The deliverable summarises the contribution of the ICBT to project activities, including strategic guidance, expert feedback, Living Lab assessment, policy package review and capacity-building outputs.

Overall, the deliverable shows how liaison activities and ICBT activities contributed to strengthening DISCO's visibility, transferability, exploitation potential and impact within the wider European urban freight and logistics innovation ecosystem.

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Summary sheet

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Coordinator	FIT CONSULTING SRL
Website	https://discoprojecteu.com/
Starting date	01/05/2023
Number of months	42

Project partners

Organisation	Country	Abbreviation
FIT CONSULTING SRL IT Coordinator	IT	FIT
RUPPRECHT CONSULT-FORSCHUNG & BERATUNG GMBH	DE	RC
INLECOM INNOVATION ASTIKI MI KERDOSKOPIKI ETAIREIA	EL	INLE
PNO INNOVATION SL	ES	PNO
INTERNATIONAL DATA SPACES EV	DE	IDSA
FM LOGISTIC IBERICA SL	ES	FM
AKKA INDUSTRY CONSULTING GMBH	DE	AKKA
FONDAZIONE ISTITUTO SUI TRASPORTI E LA LOGISTICA	IT	ITL
JLL	UK	JLL
ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTY XIS	EL	CERTH
LINDHOLMEN SCIENCE PARK AB	SE	LSP
KUHNE LOGISTICS UNIVERSITY GGMBH	DE	KLU
INSTITUT DE RECHERCHE TECHNOLOGIQUE SYSTEM X	FR	IRTX
STICHTING BREDA UNIVERSITY OF APPLIED SCIENCES	NL	BUAS
POLIS - PROMOTION OF OPERATIONAL LINKS WITH INTEGRATED SERVICES, ASSOCIATION INTERNATIONALE	BE	POLIS
EUROPEAN PARKING ASSOCIATION EPA EV	DE	EPA
ALLIANCE FOR LOGISTICS INNOVATION THROUGH COLLABORATION IN EUROPE	BE	ALICE
ERASMUS CENTRE FOR URBAN,PORT AND TRANSPORT ECONOMICS BV	NL	ERASMUS
INTERUNIVERSITAIR MICRO-ELECTRONICA CENTRUM	BE	IMEC
VLAAMS INSTITUUT VOOR DE LOGISTIEK VZW	BE	VIL
FUNDACION ZARAGOZA LOGISTICS CENTER	ES	ZLC
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T-BOX DELIVERY & SOLUTIONS SL	ES	T-BOX
AYUNTAMIENTO DE ZARAGOZA	ES	ZARAGOZA
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COMUNE DI PIACENZA	IT	PIACENZA
MESTSKA CAST PRAHA 6 / District Prague	CZ	PRAHA
REGIONAL MANAGEMENT NORDHESSEN GMBH	DE	RMNH
AARHUS KOMMUNE	DK	AAKS
DIMOS THESSALONIKIS	EL	THESSALONIKI
DIETHNIS EKTHESI THESSALONIKI AE	EL	TIF HELEXPO
ACS TACHIDROMIKES IPIRESIES MONOPROSOPI ANONYM	EL	ACS
ROLAN OY	FI	ROLAN
ASOCIACIÓN LOGÍSTICA INNOVADORA DE ARAGÓN	ES	ALIA
A to B Finland Oy	FI	A2B
GETPLUS srl IT Partner	IT	NEXT
COMUNE DI PADOVA IT	IT	ComPADUA

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List of acronyms

AI	Artificial Intelligence
BASS	Business Applications and Space Solutions
CSOs	Civil Society Organisations
DT	Digital Twin
EMDS	European Mobility Data Space
ESA	European Space Agency
EU	European Union
FUA	Functional Urban Area
GA	General Assembly
GHG	Greenhouse Gas
ICBT	Impact Creation Board for Transformation
IoT	Internet of Things
IPIC	International Physical Internet Conference
IWT	Inland Waterway Transport
KAI	Key Achievement Indicator
KPI	Key Performance Indicator
LLs	Living Labs
LSP	Logistics Service Provider
ML	Machine Learning

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PI	Physical Internet
R&I	Research & Innovation
SDS	Semantics in Dataspaces
SSH	Social Sciences and Humanities
ST	Subtask
SULP	Sustainable Urban Logistics Plan
SUMP	Sustainable Urban Mobility Plan
UFDS	Urban Freight Data Space
WP	Work Package
XR	eXtended Reality

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1. Introduction

This deliverable reports on the liaison activities carried out by DISCO with other EU-funded projects, initiatives, networks and stakeholder communities. These activities were essential to avoid working in isolation, identify synergies with related projects, exchange knowledge and results, and strengthen the visibility and uptake of DISCO outcomes. They also supported the creation of links with complementary initiatives, allowing DISCO to position its results within broader European discussions on sustainable urban logistics, data sharing, standardisation, policy development and innovation scale-up.

The liaison activities described in this document cover different formats, including webinars, workshops, conferences, joint sessions, stands, publications, joint statements and open exchanges with related initiatives and the role of the Impact Creation Board for Transformation (ICBT), DISCO's external advisory board.

These activities involved a wide range of projects and organisations, with different levels of synergy (from joint exhibition stands at an event to full integration of tools with other EU projects). Through these interactions, DISCO contributed to and benefited from a collective learning process on the implementation, replication and scaling of innovative logistics solutions across European cities and Living Labs.

- Section 2 provides an overview of the EU-funded projects and initiatives associated with DISCO, including a mapping of the different liaison activities carried out with them.
- Section 3 then presents the main types of liaison activities implemented during the project, organised by format: webinars, workshops, conferences, publications and joint statements.
- Section 4 focuses on the main liaison activities and cooperation mechanisms in more detail, including the role of the Impact Creation Board for Transformation (ICBT), the integration of DISCO's Urban Freight Data Space with the URBANE project, the Policy Dialogues organised under WP7, and selected close-up examples of key dissemination and liaison events.
- Section 5 concludes the deliverable by summarising the contribution of these activities to DISCO's visibility, impact, exploitation potential and connection with the wider European urban freight and logistics innovation ecosystem.

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2. EU-funded projects & initiatives associated with DISCO

The following section presents the various projects DISCO liaised with over the course of its duration. To make the tracking more comprehensive, Table 1 below has been created to visualise the various liaised projects from the perspective of joint webinars workshops, or conferences, with the events in question being detailed in section 3 of the document. Further information on the project can be found in Annex A of the document, where each project's CORDIS description, duration and ID have been detailed. These liaison activities were achieved by cooperating with the sister project UNCHAIN funded under the same Horizon Europe call, and by identifying other projects that also worked on implementing innovative logistical solutions and digital tools in urban areas. This created and reinforced synergies between projects and allowed for productive and consequential exchanges.

Table 1 - DISCO liaised projects mapping

Project	Webinar	Workshop	Conference (session/stand)	Total liaised events
UNCHAIN	2	1	8	11
DELPHI	1		3	4
GREEN-LOG		2	6	8
GRETA	1			1
DECARBOMILE		3	7	10

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IKIGAI	2	1		3
URBANE	1	2	8	11
LEAD		1	1	2
MOVE21		1	1	2
ULaaDs		2		2
SENATOR		1	2	3
Shift2Zero	2	1	1	4
MED COLOURS		1	1	2
CODEZERO			1	1
CLEVER			1	1
SPINE			1	1
FOREMAST			1	1
SYNCHROMODE			1	1
NEXTLOGIC	1		1	2

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deployEMDS	1		1	2

This consequential and varied set of activities undertaken with numerous projects far exceeded initial expectations set at the beginning of the project. See KAI 38 (5 initiatives within CIVITAS with which active collaborating is established) and KAI 39 (> 30 capacity building, communication, dissemination, and training activities). This demonstrates the capability of DISCO to collaborate with many related projects to create a community of innovation and synergies around project outcomes. It also points to the position of DISCO as a reference project in the field of urban logistics innovation.

3. Type of liaison activities

3.1. Webinars

Table 2 - Webinars

Date	Event	Details	Associated projects	Link
21/11/2023	POLIS – ALICE Urban Logistics Webinar Series 2023 #2: Urban Space for Freight	Webinar on urban space for freight. This webinar was supported by DISCO.	GREEN-LOG, SENATOR, URBANE, UNCHAIN, Decarbomile	https://discoprojecteu.com/disco-at-the-rtr-conference-2025/

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29/10/2024	Find Space for Mobility and Logistics Data #1	Presentation during webinar on the Data Space Use Case in urban logistics in Ghent.	deployEMDS	https://www.etp-logistics.eu/registration-open-joint-webinar-on-find-space-for-mobility-and-logistics-data/
22/01/2025	ALICE-European Space Agency joint webinar: calls for proposals & funding opportunities	Webinar supported by the DISCO & DELPHI projects to investigate funding opportunities under the ESA's Business Applications and Space Solutions (BASS) programme.	DELPHI	https://www.etp-logistics.eu/takeaways-from-the-alice-european-space-agency-joint-webinar-calls-for-proposals-funding-opportunities/
09/04/2025	POLIS-ALICE "Mixed Use of Urban Space for City Logistics" webinar	Presentations on insights from DISCO and UNCHAIN, and a good practice from Amazon in Paris.	UNCHAIN	https://www.etp-logistics.eu/webinar-highlights-mixed-use-of-urban-space-for-city-logistics/
07/05/2025	ALICE- EIT Urban Mobility "Global Urban Logistics Innovation and Market Analysis" webinar	Presentation by PNO Consultants on key developments in urban logistics drawn on DISCO research.		https://www.etp-logistics.eu/key-takeaway-from-webinar-global-urban-logistics-innovation-and-market-analysis/

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24/09/2025	Vianova "Implementing Sustainable Urban Logistics: Getting Beyond Proof of Concept" webinar	Presentation on how cities can move beyond pilots and scale sustainable urban logistics, using the experience DISCO.		https://www.linkedin.com/feed/update/urn:li:activity:7374392755906686976/
30/01/2026	[IPIC 2026 Webinar I] Physical Internet applications for last mile	DISCO supported the webinar along with Shift2Zero and IKIGAI.	IKIGAI, Shift2Zero	https://www.etp-logistics.eu/physical-internet-applications-for-last-mile/ https://www.etp-logistics.eu/key-takeaways-from-the-ipic-2026-webinar-physical-internet-applications-for-last-mile/
16/03/2026	[IPIC 2026 Webinar II] Physical Internet applications for containerised consolidation on public transport	DISCO supported the webinar along with Shift2Zero and IKIGAI.	IKIGAI, Shift2Zero	https://www.etp-logistics.eu/physical-internet-applications-for-containerised-consolidation-on-public-transport/ https://www.etp-logistics.eu/key-takeaways-from-the-ipic-2026-ii-webinar-physical-internet-applications-for-containerised-consolidation-on-public-transport/

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26.03/2026	[POLIS-ALICE webinar series 2026] Mixed use of Urban Space for City Logistics	Presentation of Padua Living Labs results, alongside GRETA and NEXTLOGIC	GRETA, NEXTLOGIC	https://www.etp-logistics.eu/polis-alice-webinar-series-2026-mixed-use-of-urban-space-for-city-logistics/ https://www.etp-logistics.eu/key-takeaways-from-polis-alice-webinar-series-2026-mixed-use-of-urban-space-for-city-logistics/
16/04/2026	DISCO + UNCHAIN Project webinar on curb-side management and efficient deliveries	DISCO and UNCHAIN showcased approaches to digital urban freight management through results of the Padova Living Lab (DISCO) and Berlin Living Lab (UNCHAIN).	UNCHAIN	https://www.polisnetwork.eu/event/disco-x-unchain-webinar-on-curb-side-management-and-efficient-deliveries/

3.2. Workshops

Table 3 - Workshops

Date	Event	Details	Associated projects	Link
18/10/2023	mFUND Driven by Data Workshop Series	Participation in workshop	SENATOR, HEGEL, SOLP	https://discoprojecteu.com/disco-event-re-cap-fall-2023/

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				https://www.linkedin.com/posts/fernandoliesa_dataspaces-urbanfreight-datainnovation-share-7120090644336779264-PkOv/
24/04/2024	LINKS Foundation workshop on 'Sustainable urban logistics: innovative solutions and planning strategies'	Presentations on DISCO during workshop with UNCHAIN.	UNCHAIN	https://discoprojecteu.com/disco-event-recap-spring-summer-2024/
30/10/2024	'Leading the Way: Transferring Last-Mile Logistics Innovations and Models from one European City to Another' workshop	Bologna, Hamburg and Thessaloniki presented the measures being implemented within DECARBOMILE, DISCO, MOVE21 and URBANE projects.	DECARBOMILE, MOVE21, URBANE	https://discoprojecteu.com/disco-at-the-civitas-forum-2024/
22/10/2025	International Workshop on standardisation	DISCO, IKIGAI, URBANE and Shift2Zero presented how EU-funded research and innovation has been essential in moving urban logistics solutions from theory to operational validation.	IKIGAI, URBANE, Shift2Zero	https://www.etp-logistics.eu/international-standardisation-needs-for-scaling-up-innovation-and-advance-implementation-of-physical-internet-in-urban-logistics-beyond-

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				from-pilots-to-large-scale-implementation/
17/06/2026	DISCO Policy Dialogue Workshop	In the context of D7.5 Mission oriented Policy Package, DISCO organised a workshop to stakeholders disclosing results from the Ghent, Zaragoza, Padua and Thessaloniki pilots. GREEN-LOG and DECARBOMILE were invited as guest speakers to present results from their pilots.	GREEN-LOG, DECARBOMILE	https://www.linkedin.com/posts/alice-logistics_urbanlogistics-sustainablecities-activity-7473008306542923776-Kz7n/

3.3. Conferences (sessions & stands)

Table 4 - Conferences (sessions & stands)

Date	Event	Details	Associated projects	Link
29/08/2023	ITS Australia Global Summit 2023	Presentation on drones, freight, and logistics during Breakout Session 36 .		https://discoprojecteu.com/disco-event-re-cap-fall-2023/

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26/09/2023	POLIS-ALICE Urban Logistics Innovation Day	Final Conference of the LEAD project, DISCO gave a project presentation.	LEAD, MOVE21, URBANE, ULaaDS, SENATOR, GREEN-LOG, DECARBOMILE	https://discoprojecteu.com/disco-attends-the-urban-logistics-innovation-day/
04-06/10/2023	Urban Mobility Days 2023	Session	URBANE, GREEN-LOG, UNCHAIN	https://discoprojecteu.com/disco-at-the-urban-mobility-days-2023-in-sevilla/
15-16/10/2023	ULaaDS final event	Panel discussion	ULaaDS	https://discoprojecteu.com/disco-at-the-ulaads-final-event/
15-18/04/2024	Transport Research Arena (TRA) 2024	Session + stand	DECARBOMILE, GREEN-LOG, URBANE, UNCHAIN	https://discoprojecteu.com/disco-features-at-the-tra-2024/
16-19/04/2024	Intertraffic Amsterdam	Participation in session organised by EPA on 'The Battle for Urban Space: How to Organize the Kerb in Inner Cities?'		https://discoprojecteu.com/disco-event-recap-spring-summer-2024/
30-31/05/2024	Pdays Mobilità e Sosta IV Edition - AIPARK	Policy session Paola Cossu		https://discoprojecteu.com/disco-event-recap-spring-summer-2024/ https://www.fitconsulting.it/en/pdays-2024-on-may-30-and-31-in-

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		Workshop: LL City of Padua presented the city's successful experiences		florence-the-4th-edition-of-the-most-important-event-dedicated-to-mobility-and-parking-organized-by-aipark-urban-logistics-at-the-center-with-a-speech-by-paola-cossu/
04/06/2024	POLIS-ALICE Urban Logistics Innovation Day	Presentation	URBANE, DECARBOMILE, CODEZERO	https://discoprojecteu.com/disco-delivers-once-more-at-urban-logistics-innovation-day/
05/06/2024	MED COLOURS Project Meeting	Project representative present for liaison.	MED COLOURS	https://discoprojecteu.com/disco-event-recap-spring-summer-2024/
01-03/10/2024	CIVITAS Forum 2024	Participation in "Leveraging Data Integration for Seamless Mobility and Logistics" session	DECARBOMILE, MOVE21, URBANE, SENATOR, UNCHAIN, CODEZERO	https://discoprojecteu.com/disco-at-the-civitas-forum-2024/
05-07/11/2024	Smart City World Expo Congress 2024	Participation in "Multimodal Smart City Mobility and Logistics in a Synchronized Approach" session	SYNCHROMODE, FOREMAST, SPINE, CLEVER	https://discoprojecteu.com/disco-talks-multimodal-smart-city-logistics-at-the-smart-city-expo-world-congress/
27-28/11/2024	POLIS Conference 2024	Participation in session "1F. Unlocking the last mile:	DECARBOMILE, UNCHAIN, URBANE	https://discoprojecteu.com/disco-shined-bright-at-the-annual-polis-conference-2024/

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		Innovations in urban freight" + stand		
11-13/02/2025	RTR Conference 2025	Participation in session 5 "Digital Innovative Solutions for Sustainable Urban Logistics"	GREEN-LOG, SENATOR, URBANE, UNCHAIN, DECARBOMILE	https://discoprojecteu.com/disco-at-the-rtr-conference-2025/
19-21/05/2025	ITS European Congress 2025	Presentation at PNO booth	UNCHAIN	https://www.linkedin.com/posts/disco-project-eu_seville-itsseville2025-activity-7328681950586560513-vSpw
02-05/06/2025	Transport Logistics Munich 2025	Presence at ALICE stand	Shift2Zero, DECARBOMILE, DELPHI, URBANE	https://discoprojecteu.com/disco-shone-bright-at-the-transport-logistics-munich-2025-event/
17-18/09/2025	European Parking Association Congress 2025	Sessions + booth		https://www.linkedin.com/posts/disco-project-eu_fitconsulting-discoproject-epaconference-activity-7364216332474613761-ivry https://www.linkedin.com/posts/disco-project-eu_epaconference2025-datadriven-disco-activity-7368255580999688193-9Khp/ https://www.linkedin.com/posts/disco-project-eu_parking-urbanlogistics-

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				electromobility-activity-7364261334764425216-mUmp/
30/09-02/10/2025	Urban Mobility Days 2025	CIVITAS UF cluster	UNCHAIN	https://www.linkedin.com/posts/disco-project-eu_urbanmobilitydays-vilnius-sump-activity-7377280611251822592--XHX/ https://www.linkedin.com/posts/disco-project-eu_disco-umd2025-urbanmobilitydays-activity-7379412165704994816-YgEB/
23-24/10/2025	ALICE Logistics Innovation Summit 2025	Session + stand	DECARBOMILE, DELPHI, UNCHAIN, and URBANE.	https://discoprojecteu.com/what-a-year-it-has-been-for-disco/
04-06/11/2025	Smart City EXPO World Congress 2025	Session		https://discoprojecteu.com/what-a-year-it-has-been-for-disco/
26-27/11/2025	POLIS Conference 2025	Sessions	GREEN-LOG	https://discoprojecteu.com/what-a-year-it-has-been-for-disco/

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18-21/05/2026	Transport Research Arena (TRA) 2026	Booth + sessions	DECARBOMILE, DELPHI, GOLIA, GREEN-TURN, NEXTLOGIC, MED COLOURS, Shift2Zero, UNCHAIN	https://www.etp-logistics.eu/tra-2026-discover-the-projects-present-at-the-booth/
08-10/06/2026	International Physical Internet Conference (IPIC) 2026	Session	URBANE, DELPHI, DeployEMDS, Green-LOG	https://www.etp-logistics.eu/data-spaces-as-enablers-of-sustainable-and-integrated-urban-logistics-at-ipic-2026/
18/06/2026	POLIS - ALICE Urban Logistics Innovation Day, GREEN-LOG and DECARBOMILE final event.	Sessions	GREEN-LOG, DECARBOMILE	https://www.etp-logistics.eu/key-takeaways-from-the-urban-logistics-innovation-day-final-event-of-green-log-and-decarbomile/
15-17/09/2026	CIVITAS Forum 2026	Session		TBD, the conference will occur after the submission of this deliverable.

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3.4. Publications & joint statements

Table 5 - Publications and joint statements

Date	Event/Journal	Details	Link
31/10/2023	Covenant of Mayors' Guide on Reducing Mobility Emissions	DISCO featured in Covenant of Mayors publication on 'Policy Options to Reduce Emissions from the Mobility Sector'	https://discoprojecteu.com/disco-spotlight-covenant-of-mayors-guide-on-reducing-mobility-emissions/
01/06/2025	Third International Workshop on Semantics in Dataspaces (SDS 2025)	Paper presentation	https://ceur-ws.org/Vol-4007/
19/07/2025	Lecture Notes in Mobility, Transport Transitions: Advancing Sustainable and Inclusive Mobility	Paper published	https://doi.org/10.1007/978-3-031-95284-5_81
18/10/2025	12th INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH (ICTR 2025)	Paper presentation (Meta Model Suite: Facilitating Sustainable Urban Logistics Planning Through the Adoption of the Physical Internet Paradigm)	10.5281/zenodo.18694633

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18/10/2025	12th INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH (ICTR 2025)	Paper presentation (Rethinking Urban Freight: Laying the Groundwork for Shared Smart Parcel Lockers in Public Spaces)	10.5281/zenodo.18693981
01/05/2026	Urban Logistics Transformation. Greening of Industry Networks Studies, vol 15. Springer, Cham.	DISCO featured in article 'Mixed Use of Urban Space for City Logistics'	https://doi.org/10.1007/978-3-032-08387-6_13

At the submission stage of these deliverables, several DISCO papers are under development and will be imminently ready for publication mainly as a result of the TRA 2026 and IPIC 2026.

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3.4.1. EPA/POLIS/ALICE joint statement

During the EPA Conference on 17 September 2025, ALICE, POLIS, and the European Parking Association (EPA) issued a Joint Statement entitled “Co-Creating The Future Of Urban Logistics: A Strategic Dialogue Between Cities, Parking Managers, And Logistics Innovators”[1]. This joint statement was a significant milestone in further cementing future collaboration between these three organisations, with the principal messages outlining the importance of cross-sector engagement, integration of digital and physical systems, and linking sustainability with competitiveness. The collaboration was strengthened by the work undertaken by these organisations in the context of DISCO, with all three of which being consortium members working collaboratively in WPs 2, 6 and 7. The agreement was particularly significant as it anticipates an important part of the future of urban logistics and space management within a digitally integrated mobility transition scheme. An ongoing result is related to new urban mobility hubs (e.g. parking structures) that are supplying services and spaces for vehicles used by people and goods. In the context of DISCO, the signing of this joint statement was also quoted as being a step towards future policy recommendations to be developed within the project’s work (see D7.5 Policy Package for further information).



Figure 1 Signing of Joint Statement between ALICE, EPA and POLIS during EPA Conference 2025

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4. Focus on main liaison activities

4.1. Impact Creation Board for Transformation (DISCO advisory board)

Within the context of DISCO's Task 7.4, it was highlighted that the project would have an associated Impact Creation Board for Transformation (ICBT). This ICBT consists of four experts, elected to oversee the project's development and provide their expertise to enhance the uptake of its solutions as well as overall impact. The ICBT oversaw the advancement of DISCO across the majority of its work packages, more specifically: WP2 (providing input through a position paper on gaps/barriers/ drivers in logistics and validation of KPIs for the assessment Toolkit), WP3 (providing support for the UF data space), WP4/5 (evaluating LL results and providing support for data management), WP6 (reviewing the business models), WP7 (policy note to be added to D7.5[2]and podcast episodes).

Table 6 - Zoom on the 4 experts & their skills

Name	Position, Organisation	Expertise
Marianne Ryghaug	Director of the Norwegian Transport Research Center for Nature, Environment and Land-use (TRACE) and a Chief Scientist (SINTEF Mobility)	Energy and climate policy, implementation and use of sustainable energy technologies, public engagement, sustainable transport, low carbon mobility, smart cities, digitalisation related to sustainable mobility and energy transitions.
Anne Goodchild	Professor of Civil & Environmental Engineering (University of Washington) and Director (Urban Freight Lab)	Supply chain management and freight transportation, economic and environmental sustainability.
Thomas Osdoba	Program Director (NetZeroCities)	Sustainable development, community and economic development, sustainable finance, policy innovation, and governance and leadership.
Andreas Nettsträter	CEO (Open Logistics Foundation)	Logistics, supply chain management, data, data spaces, open data

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4.1.1. Summary table of ICBT involvement activities

Table 7 - Summary table of ICBT involvement activities

Area of involvement	Timeline	ICBT members involved	Main contribution and added value
ICBT set-up and strategic guidance	2023–2026	All ICBT members	The ICBT was launched as DISCO's external expert board and provided strategic advice throughout the project, including through progress meetings and ad hoc counselling on project direction, impact, dissemination and exploitation.
DISCO-X baseline, SWOT and DELPHI assessment	2023–2024	All ICBT members	ICBT members reviewed baseline inputs, supported the interpretation of gaps, barriers and drivers, and contributed to the DELPHI expert assessment validating plausible PI-led urban logistics scenarios for the DISCO Meta Model Suite.
Project meeting	2024	All ICBT members	ICBT were present during the project meeting in Köln between the 16th and 17th of October.
Urban Freight Data Space and technical inputs	2024–2025	Andreas Nettsträter	Andreas provided feedback on UFDS and implementation challenges, helping strengthen the practical relevance of the Urban Freight Data Space.
Living Labs review, scale-up and awards	2024–2025	All ICBT members	ICBT members acted as jury for the Starring and Twinning Living Labs Awards.
Policy package	2026	All ICBT members	ICBT members reviewed and contributed to DISCO's policy package and wrote its forewords.
Podcast	2026	Andreas Nettsträter, Anne Goodchild,	ICBT members contributed to the podcast series with Livings labs.

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		Marianne Ryghaug	
Final event	2026	Anne Goodchild, Thomas Osdoba	ICBT members will be present at the DISCO final event on the 15th of October 2026. Anne Goodchild and Thomas Osdoba will also be speakers.

4.1.2. Counselling

In addition to their formal contributions to project outcomes (see next sections), the ICBT members provided *ad hoc* counselling throughout the project. Upon request, they shared expert advice, strategic recommendations and feedback on specific questions raised by the consortium, drawing on their respective areas of expertise. An example was during the DISCO General Assembly in Köln, Germany, where they met with the consortium and shared feedback with the ongoing living labs. The ICBT (with the exception of Andreas Nettsträter) will also be present at the final event, with Anne Goodchild and Thomas Osdoba actively involved as speakers. This flexible support complemented the Board's formal role by providing external perspectives that informed decision-making and the implementation of project activities.

4.1.3. DELPHI assessment

Within T2.1 "Defining digital transition baseline and specifications for the Meta Model Suite to enable transition", the work aimed to establish a structured baseline for the digital transition of urban logistics ecosystems and to identify plausible PI-led urban logistics scenarios that can support the development of the DISCO Meta Model Suite. The task was implemented through a Delphi-based process. First, a literature review of journal articles, position papers and relevant project outputs was carried out to identify the main transition challenges and alternative future options across governance, planning, infrastructure, data, technology, business models and stakeholder collaboration. These options were then assessed by DISCO partners through a first voting round, which supported the development of scenario archetypes based on the plausibility and consistency of the selected options. In a second validation round, the scenarios were shared with DISCO experts and external experts, including members of the ICBT, who contributed their cross-domain expertise in Physical Internet and data spaces, climate-neutral cities, urban freight and land-use planning and SSH/co-creation. Their contribution was particularly important for validating the plausibility, relevance and robustness of the proposed scenarios, by voting on the most plausible PI-led urban logistics futures and providing expert judgement on whether these scenarios adequately reflect realistic transition pathways for cities, logistics operators and other urban freight stakeholders.

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4.1.4. Podcast

As part of Task 7.3 Knowledge Hub for Innovation Uptake and Capacity Building, the DISCO project proposed the development of a podcast series as a capacity-building activity for the final year of the project. The series aims to support knowledge transfer, increase the visibility of DISCO results, and provide practical insights for cities and stakeholders interested in implementing innovative urban logistics solutions.

The podcast series consists of four video-podcast episodes, each focused on one of the DISCO Twinning Living Labs. Each episode explores a specific thematic angle linked to the local implementation experience, while also reflecting on broader lessons learned, transferability potential, and emerging trends in urban logistics. The planned episodes are:

Table 8 - List of DISCO podcast episodes

Episode	Living Lab	Topic	ICBT Member Involved	Recording date
01	Padua	Proximity last-mile logistics, DISCOCURB / DISCOPROXI and standardisation	Anne Goodchild, The Urban Freight Lab	07 May
02	Valencia	How the Valencia Living Lab sprang into action after Storm DANA: agile governance and communication	Marianne Ryghaug, SINTEF	27 May
03	Barcelona	An eye on the curb: data and digitalisation	Andreas Nestträter, Open Logistics Foundation	02 June
04	Zaragoza	Business models for shared microhubs: a case from the Zaragoza Living Lab	N/A	09 June

The involvement of Impact Creation Board for Transformation members was designed to bring an external and complementary perspective to the podcast series. Their participation allowed the episodes to move beyond a description of the DISCO Living Lab activities and to place the local experiences in a wider European and international context. By drawing on their expertise, ICBT members contribute reflections on comparable experiences, challenges faced in other contexts, relevant trends, and lessons that could be useful for other cities and stakeholders.

As part of the preparation process, dedicated brainstorming sessions were organised for each episode. These sessions brought together the relevant Living Lab representatives, podcast

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organisers and ICBT members to collaboratively shape the structure and content of the discussions. The sessions helped identify the most relevant questions, clarify the key messages of each episode, and ensure a balance between local implementation details and broader reflections on transferability, innovation uptake and capacity building.

Each video-podcast episode follows a common narrative logic. The discussion starts with the specific case of the Twinning Living Lab, focusing on what has been implemented locally, the challenges encountered and the solutions developed. The conversation then opens up to include reflections from the ICBT members, who connect the Living Lab experience with lessons learned from other cities, research, practice and wider urban logistics developments. Finally, each episode aims to extract practical insights and recommendations for cities that are considering or implementing similar innovations.

Once recorded, the podcast episodes will be made publicly available through Mobility Planet and will also be accessible via podcast platforms such as Spotify. In this way, the involvement of the ICBT members contributes directly to the dissemination, capacity-building and impact creation objectives of DISCO, helping to translate project results into accessible knowledge for a wider audience.

4.1.5. Living Labs awards

The DISCO Living Labs Awards were organised as a structured process to recognise the most promising DISCO-X measures developed and tested by the project's Living Labs. The ICBT members acted as the jury for the awards, bringing an external and independent expert perspective to the assessment of the proposed measures. Two award sessions were organised following the same methodology: one dedicated to the Starring Living Labs and one to the Twinning Living Labs. In both cases, the Living Labs were invited to select and present a limited number of DISCO-X measures considered particularly relevant in terms of innovation potential, implementation progress and transferability. Each session was structured around short presentations by the Living Labs, followed by questions and feedback from the experts of the ICBT. After the presentations, the experts completed evaluation templates based on common criteria, including excellence, impact and transferability potential. This common process ensured consistency between the two award sessions and allowed DISCO to identify the best-performing and most replicable measures across different Living Lab contexts. Beyond the attribution of awards, the exercise also provided a valuable opportunity to collect expert feedback on the replication, scale-up and wider uptake potential of DISCO solutions.

4.2. Urban Freight Data Space integration with URBANE project

One of the key objectives of liaising with related initiatives is to identify opportunities where existing technologies and expertise can be reused to accelerate development, improve interoperability, create synergies, and maximise the impact of DISCO's outcomes.

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With respect to the Urban Freight Data Space (UFDS) developed within DISCO, rather than developing software components in isolation and confining innovation within the boundaries of the project consortium, collaboration with the Horizon Europe project URBANE allowed us to build upon complementary software assets. This collaboration not only enhanced the capabilities and practical adoption of the UFDS infrastructure but also served as a demonstrator of how software developed in a parallel initiative can be successfully leveraged to extend the functionality and impact of another project.

Specifically, opportunities for synergy were identified with the CitIQore User Interface and its underlying Model Engine developed within URBANE (see URBANE Deliverable D3.4[3] for further details). At the user interaction level, CitIQore provides a modern, intuitive interface with rich visualisation capabilities, enabling users to seamlessly access and interact with the various Data Space applications developed within DISCO. Beyond its role as a user interface, CitIQore also acts as a gateway to the URBANE Digital Twin Platform, providing access to its simulation capabilities.

These capabilities form the computational backbone of two of the five Data Space applications developed in DISCO. Specifically, the Optimal Locker Number Simulator and the Shareable Lockers Simulator exploit the simulation capabilities of the URBANE platform, including the 2-Echelon Simulator, the COPERT emissions model (URBANE Deliverable D3.4, Section 4.6.1), and the ADV Routing Simulation Model (URBANE Deliverable D3.3[4], Section 6). These applications are described in DISCO's Deliverable 3.4.

In contrast, the Dataset Generator, Dataset Anonymiser, and Dataset Viewer applications -described here- utilise CitIQore primarily as a user interface and visualisation layer, interfacing directly with the UFDS backend services. Furthermore, all five applications integrate with the UFDS Data Archivist component (Deliverable D3.4, Section 3.3.3).

Before proceeding with the description of these three Data Space applications, it should be noted that video demonstrations of all five applications are available through the DISCO YouTube channel.

4.2.1. Dataset Generator

The Dataset Generator enables users to create synthetic GeoJSON datasets for any of the participating cities within DISCO and URBANE. After authentication and the provision of UFDS Connector credentials, the user selects a city and defines a geographic bounding box within which the synthetic data points will be generated.

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The user then specifies the desired number of data points to be created, optionally provides a description for the resulting dataset, and selects the generation algorithm. Two alternative methods are available. The first is a uniform distribution algorithm, which generates points evenly across the bounding box, ensuring an equal probability density throughout the defined area. The second is a centroid-based algorithm, where the user defines a centroid within the bounding box and configures a centrality parameter that determines the level of attraction exerted by the centroid. In this case, generated points are distributed such that higher densities occur closer to the centroid, gradually decreasing with distance. All generated datasets are registered as assets within the user's UFDS Connector, including metadata describing the selected generation algorithm. To make the dataset available within the Data Space, the user must subsequently define an access policy for the asset

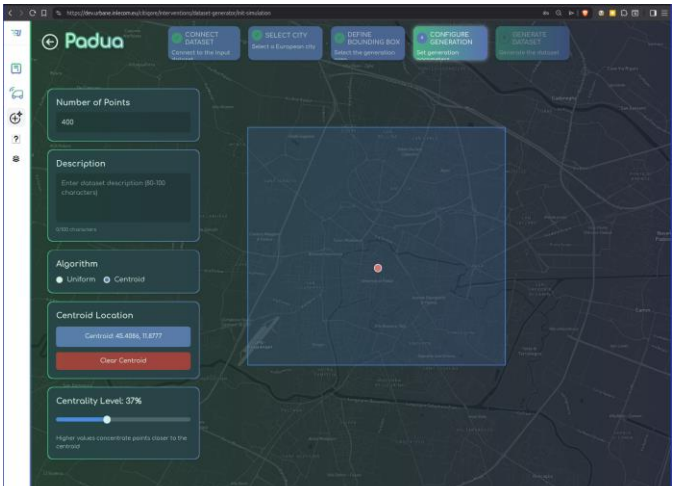


Figure 2 Dataset Generator Application

and create a corresponding data offer through their connector. This offering process which must be followed is presented in the video demonstration. Figure 2 illustrates an example of the dataset generation process using the centroid-based algorithm.

4.2.2. Dataset Anonymiser

The Dataset Anonymiser enables users to anonymise GeoJSON datasets stored in the Data Archivist. After authentication and the provision of UFDS Connector credentials, the user selects a city and specifies the dataset originating from that city which is to be anonymised.

The user then defines the number of data points to be sampled from the original dataset, optionally provides a description for the resulting anonymised dataset, and -most importantly- configures the level of anonymisation through an anonymisation degree ranging from 0 to 1000. During the anonymisation process, each sampled data point is randomly displaced within a circular area centred on its original location, with a radius corresponding to the specified anonymisation degree (in meters).

All generated datasets are registered as assets within the user's UFDS Connector, including metadata describing the anonymisation process and original dataset. To make the dataset available

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within the Data Space, the user must subsequently define an access policy for the asset and create a corresponding data offer through their connector. This offering process which must be followed is presented in the video demonstration. Figure 3 illustrates an example of the dataset anonymisation process.

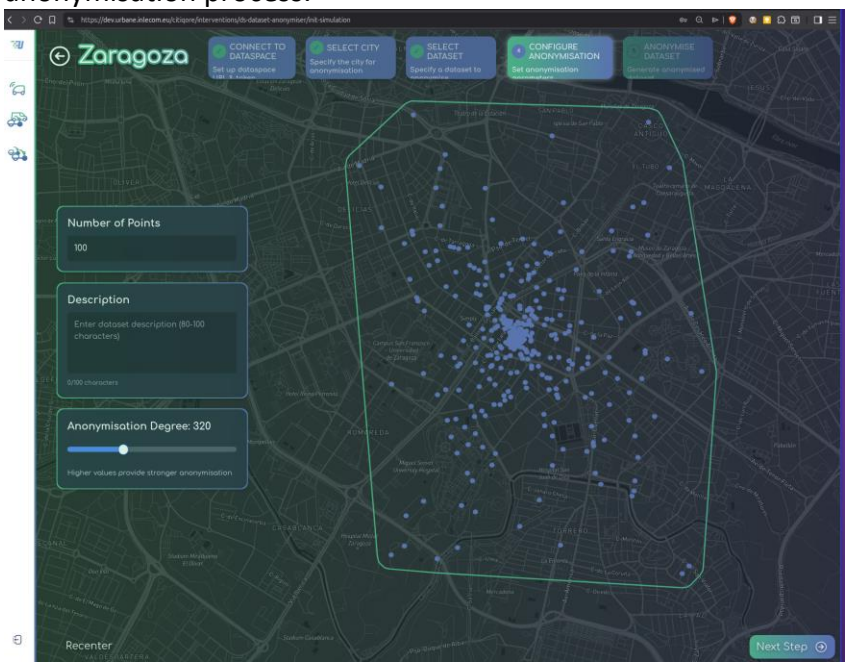


Figure 3 Dataset Anonymiser App

4.2.3. Dataset Viewer

The Dataset Viewer has been developed as a replacement for DiscoEYE, which was previously implemented within DISCO (see Deliverable D3.2[5]), and provides a dedicated GeoJSON dataset visualisation component. Its usage is straightforward; after authentication and the provision of UFDS Connector credentials, the user selects a city and specifies the dataset originating from that city that is to be visualised.

It should be noted that the original components used in DiscoEYE remain available through DISCO's open and closed software repositories. Figure 4 illustrates an example of the Dataset Viewer in operation.

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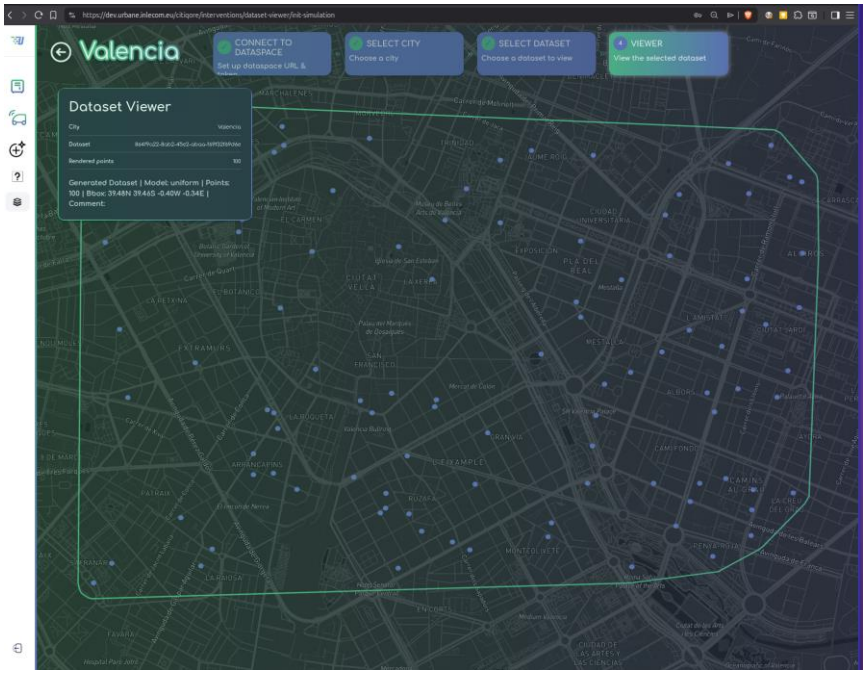


Figure 4 Dataset Viewer App

4.3. Policy Dialogues

In the context of DISCO's WP7, T7.5 pertains to developing a 'Policy package to re-think cities scaling paths to urban-freight and logistics efficient land uses and planning'. Specifically, one of the subtasks (ST7.5.1) of this consists of liaising by undertaking a series of Policy Dialogues with industry stakeholders and local authorities. The idea behind this is to gather input from said stakeholders with regards to DISCO's results and innovations, creating a feedback loop to better understand how these impacts might be maximised. Amongst these were a set of four workshops co-organised by RC, BUAS, POLIS and ALICE held in April (three online on 08/04, 15/04 and 22/04) and June (in-person on 17/06). The objectives of these specific workshops were to gather actionable policy recommendations from stakeholders from the public, private, technology and policy/research sectors based on each DISCO-X solution to better enable the mapping and repurposing urban space for proximity logistics, as well as to collect feedback on the preliminary mission-oriented policy package roadmap. The structure and outputs of these workshops are highlighted in the sections below.

4.3.1. Online workshops

Following the early preparative stages for ST7.5.1, which involved a review of academic literature, other Horizon Project Deliverables and their findings, as well as DISCO's own Living Lab results and insights, a set of policy insights regarding proximity logistics were outlined. The online workshops detailed below sought to gather actionable policy recommendations based on participants' own

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experiences, in order to collect feedback for the Mission-oriented Policy Package (D7.5) creating a feedback loop.

Repurposing Urban Space for Proximity Logistics: DISCOESTATE and DISCOPROXI (08/04)

The workshop was structured around themes relating to DISCOESTATE and DISCOPROXI, involving a primary focus on proximity logistics and the strategic use of underutilised urban spaces for freight and delivery purposes. With 25 participants actively contributing to the workshop, mainly from cities and governmental organisations (Rome, Bergamo, Madrid, Rotterdam, Turku, Aarhus, and Hamburg) as well as various research/civil society organisations (CSOs) and logistics providers, a major theme was the scarcity of suitable public and private spaces for logistics infrastructure. Using a Miro board to generate ideas (see Figure 5), participants discussed the challenges and opportunities of implementing micro hubs, cargo bikes, and electric vehicles for last-mile delivery, particularly in dense or historic city centres where space is limited. Some shared struggles related to identifying locations for these facilities, often due to regulatory restrictions, lack of dedicated parking, and competition with other urban functions. Vandalism and community resistance were also noted as obstacles, highlighting the importance of public engagement and co-creation to foster acceptance. The discussion underscored the need for flexible policies that allow for pilot projects and temporary use of space, enabling cities to test and refine new logistics models. Collaboration between public authorities, private operators, and residents was emphasised as key to overcoming political and operational hurdles.

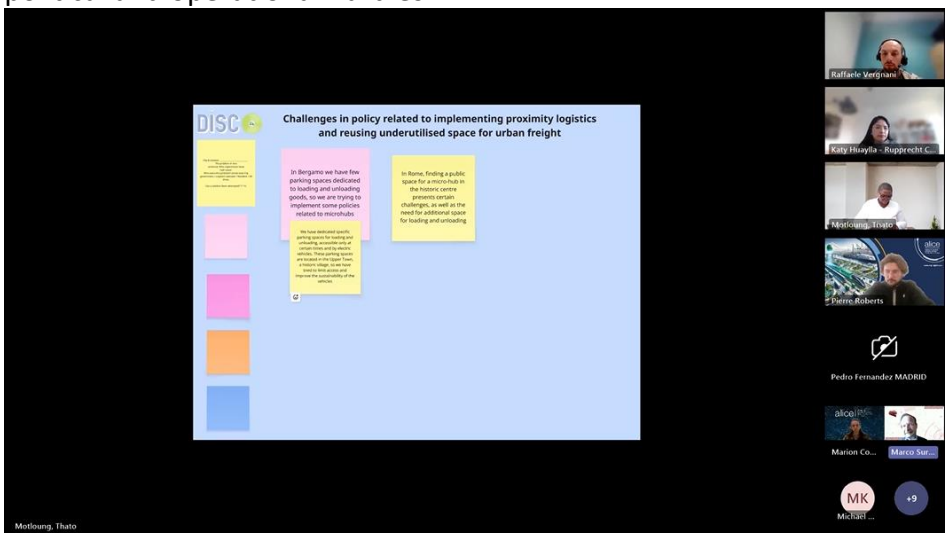


Figure 5 MIRO board activity for 08/04 online workshop

Dynamic Curbside Management and Urban Freight Data Space: A Case of DISCOCURB (15/04)

The second workshop of this series focused on dynamic curbside management, discussing on enabling conditions, including policy, digitalisation and regulations. 15 individuals took part in this workshop, split between CSOs, research organisations and city representatives (Rome, Padua, Bologna and Bergamo). Using a structure similar to the previous workshop by using a Miro board to generate input (see Figure 6), participants discussed the importance of trust and collaboration in

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data sharing, noting that cities often need support from private partners to implement data initiatives effectively, with the city acting as a trusted intermediary to avoid competition among private actors. Examples from Padua and Bergamo demonstrated how partnerships and capacity-building mechanisms can facilitate data collection and sharing within urban freight data spaces. A significant portion of the discussion centred on proximity systems integration, highlighting creative solutions to space constraints in urban areas. Key takeaways included the need for streamlined permitting processes, public engagement, and designated operators to ensure continuity.

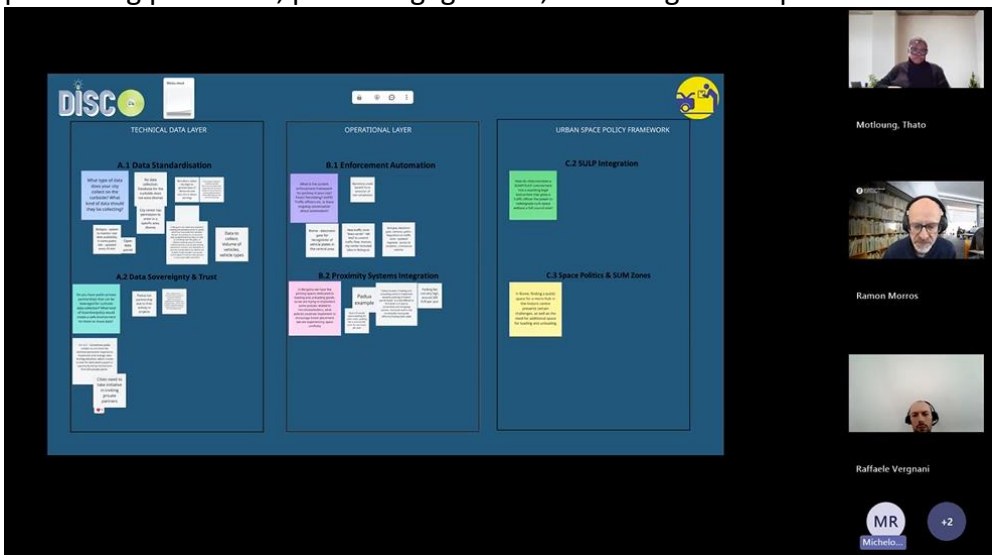


Figure 6 MIRO board activity for 15/04 online workshop

Multimodal Urban Freight Infrastructure and Data-Driven Access Management: A Case of DISCOBAY and DISCOLLECTION (22/04)

The final workshop in this online series of workshops sought to generate input on multimodal freight hubs and data-driven access management systems, and provide policy recommendations to guide municipalities and national governments in establishing the regulatory and institutional foundations. Similarly to the previous two workshops, the 13 participants present in this workshop were shared between research organisations, CSOs and city representatives from Rome, Padua, Madrid, Turku and Bergamo. By using the Miro board from the previous workshops (see Figure 7), participants highlighted that even viable business models often face resistance due to a lack of urgency or inertia in changing established practices. Additionally, policy and regulatory fragmentation, especially in cross-modal contexts, adds complexity, as decisions involve not just local but also regional and national levels. The workshop concluded with a call to integrate pre-planned multimodal hub networks into European SULP frameworks as tools for both efficiency and climate resilience.

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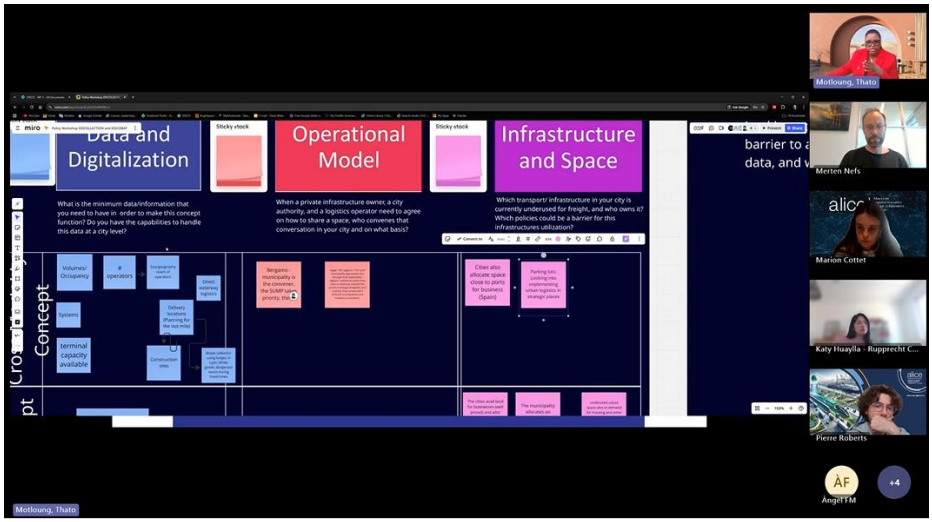


Figure 7 MIRO board activity for 22/04 online workshop

4.3.2. In-person workshop (17/06)



Figure 8 (From left to right): DISCO Policy Dialogue setup, Katy Huaylla (Rupprecht Consult) moderating a session for DISCOCURB in Padua, Alfonso Molina Rico (Citylogin) presents the DISCOPROXI use case in Zaragoza.

Building up on the three online Policy Dialogues, an in-person workshop was held in Brussels on Wednesday 17th of June. The objective of this workshop was to create a feedback loop, as local stakeholders were invited to provide their input regarding implementation of solutions in their own local contexts. The workshop was structured around a 5-minute presentation of four DISCO-X solutions (DISCOPROXI in Zaragoza, DISCOESTATE in Thessaloniki, DISCOCURB in Padua, DISCOBAY in Ghent) followed by 20-minute discussions. Participants organised as groups were asked to reflect on each solution successively, considering and discussing potential barriers and opportunities for the implementation of a similar solution in their own locality (see Figure 8). In total, 33 individuals from government organisations, civil society organisations, and Logistics Service Providers (LSPs), took part in the workshop and through liaising directly contributed to DISCO's results for D7.5 (Mission oriented Policy Package). Participants included several Mission Cities representatives, ALICE and POLIS members, partners of DISCO project as well as DECARBOMILE and GREEN-LOG partners who brought in the discussion results from their own pilots, adding their perspectives to

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help framing the project's recommendations. This highlighted the long-lasting cooperation between DISCO and these two projects.

The outcomes of the three online workshops and the in-person workshop is being integrated in Deliverable D7.5: Mission oriented Policy Package to form DISCO's legacy on policy recommendations.

4.4. Liaison activities close-up

This section proposes a zoom-in on a few of DISCO's liaison activities, to get an overview of the type of work performed.

4.4.1. Urban Mobility Days 2023, Sevilla (04-06.10.2023)



Figure 9 Paola Cossu (FIT Consulting) pitching DISCO during Plenary 1 of Urban Mobility Days 2023

DISCO was present for the 2023 edition of Urban Mobility Days in Sevilla, an event which covered topics relating to sustainable and innovative urban mobility in Europe. Aimed at industry operators, urban transport practitioners, politicians and local authorities, the event consisted of plenaries, sessions, and dedicated discussion to discuss pathways towards sustainable mobility solutions in Europe. The event was one of the first conferences where DISCO was represented following its launch, which proved an ideal opportunity for project dissemination and liaison. As part of this, DISCO was pitched by project coordinator Paola Cossu (FIT Consulting) during 'Plenary 1 – Urban Mobility Community Support to Ukraine' on 4 October (see Figure 9), alongside other newly launched Horizon Europe projects REALLOCATE, ELABORATOR, NEMO, AiRMOUR, UNCHAIN,

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UPPER, SPINE, and INRIA. As well as this, DISCO had an exhibition stand with its sister project UNCHAIN (see Figure 10).



Figure 10 DISCO Consortium members representing DISCO at Urban Mobility Days 2023

4.4.2. mFUND Driven by Data Workshop Series, Online (18.10.2023)



Figure 11 mFUND Driven by Data Workshop Series banner

On October 18, 2023, the mFUND DRIVEN by DATA workshop series, organised by the German Federal Ministry for Digital and Transport, hosted its fifth iteration focusing on "The use of data for efficient and sustainable freight and logistics in Europe." This virtual event covered the topics of logistics and freight, bringing together leading experts and projects to drive innovation in the sector. Paola Cossu (FIT Consulting), represented the project alongside other speakers Fernando Liesa

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(ALICE), Christoph Winkelhage and Thomas Meiers (SOLP), Frank Werner (SENATOR), and Ole Hansen (HEGEL) (see fig.11). During the session, Paola highlighted DISCO's commitment to logistics decarbonisation, emphasising the need for investments in asset and energy transitions as well as the pivotal role of efficiency in freight transport to enable an affordable and sustainable shift. She underscored data and AI as key enablers for operational efficiency, advocating for interconnected digital tools, process reengineering, and seamless collaboration through shared data languages, open-source standards, and universal APIs.

4.4.3. POLIS-ALICE Urban Logistics Innovation Day, Brussels (04.06.2024)



Figure 12 POLIS-ALICE Urban Logistics Innovation Day

For the second edition of the Urban Logistics Innovation Day held in Brussels and co-organised by POLIS and ALICE, DISCO provided support for the event. Building on the success of its inaugural edition (September 27, 2023), this event brought together local authorities, logistics providers, industry representatives, and academics from 10 EU countries for a dynamic program of presentations, interactive sessions, and collaborative exchanges (see Figure 12). The day focused on promoting innovative technologies like the Physical Internet (PI) to advance sustainability, discussing trends and challenges in urban logistics, and fostering public-private dialogue to shape zero-emission freight policies. Key takeaways included the potential of circular economies to integrate waste and production flows, the critical role of collaboration, urban space management, data sharing, and technological innovation in delivering benefits for cities, businesses, and communities. The event was moderated by Yanying Li and Marion Cottet (ALICE) and Raffaele

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Vergnani (POLIS), with contributions from Paola Cossu (FIT Consulting/DISCO), Ioanna Fergadiotou (INLECOM), Tom Antonissen (EPA), and Bart Lannoo (BE-Mobile).

4.4.4. Find Space for Mobility and Logistics Data Webinar #1, Online (27.10.2024)



Figure 13 Dries Van Bever (IMEC) presenting the Ghent Data Space

This webinar, co-organised by ALICE and EUROCITIES, was held to explore the application of European data spaces in urban logistics (see Figure 13). The webinar invited experts, pioneers, and R&I practitioners to exchange insights on EU policies, technological trends, and practical implementations of data spaces in mobility and logistics. The webinar consisted of presentations from DISCO (presentation of the Ghent Data Space use case) and deployEMDS (presentation on latest developments of the European Mobility Data Space), with key objectives including mapping current EU data space policies, showcasing existing practices in mobility data spaces, and fostering collaboration among stakeholders to drive zero-emission urban logistics. Speakers such as Chiara Venturini (Eurocities), Dries Van Bever (IMEC), and Laure De Cock & Casper Van Gheluwe (IMEC) presented with the objective of deepening the understanding of data space potential in urban logistics and encourage cross-sector cooperation to implement these solutions effectively.

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4.4.5. Transport Logistics Munich 2025, Munich (02-05.06.2025)



Figure 14 ALICE stand at TL Munich 2025

DISCO was featured at the ALICE stand alongside URBANE, DELPHI, DECARBOMILE, and Shift2Zero as one of the pioneering projects during Transport Logistics Munich, one of the world's leading logistics events (see Figure 14). Through presentations accessible via tablets (see Figure 15), the project highlighted its Urban Freight Data Space (UFDS as well as its Urban Access Control integration tool; additionally, the WareM&O platform was introduced. These innovations underscored DISCO's commitment to data-driven, sustainable, and collaborative urban logistics, sparking significant interest and engagement among event participants and liaised projects.

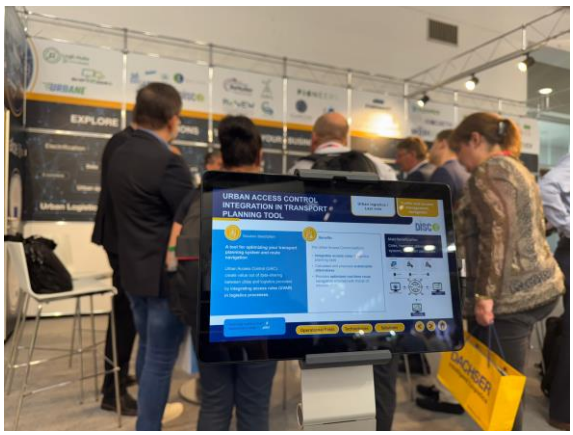


Figure 15 Presentation accessible to the TL Munich attendees via tablet at ALICE stand

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4.4.6. International Workshop on Standardisation, Brussels (22.10.2025)



Figure 16 International Workshop on Standardisation

On October 22, 2025, ALICE and POLIS hosted the International Workshop on Standardisation in Brussels, which, addressed the fragmented implementation of standardisation in the context of the Physical Internet. The event gathered EU-funded project consortia (including DISCO, URBANE, IKIGAI, and Shift2Zero), city stakeholders, and international standardisation experts to emphasise that scaling PI requires standardisation to keep pace with innovation (see Figure 16). Urban logistics emerged as the most advanced entry point for PI, driven by pressures like e-commerce growth, congestion, and emissions, with solutions such as shared micro-hubs, multi-operator parcel lockers, and consolidated freight flows already being tested across Europe. These solutions were presented and discussed through the lens of use cases from EU-Funded projects such as DISCO as well as through concrete innovations in Japan and South Korea. The workshop reinforced that urban pilots deliver local benefits and provide vital lessons for expanding PI into long-haul transport, intermodal operations, and cross-border networks, ensuring a cohesive, system-wide transition. Its global lens and broad international spectrum of speakers and attendees generated a productive atmosphere and positive liaison between projects and stakeholders.

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4.4.7. POLIS-ALICE Urban Logistics Innovation Day & Final Event of GREEN-LOG and DECARBOMILE (18.06.2026)



Figure 17 Paola Astegiano (FIT Consulting, second from left) representing DISCO at the during the POLIS-ALICE Urban Logistics Innovation Day & Final Event of GREEN-LOG and DECARBOMILE closing plenary.

On June 18th, 2026, POLIS and ALICE held their Urban Logistics Innovation Day in the context of the Final Event of GREEN-LOG and DECARBOMILE. The event gathered European projects, cities, logistics stakeholder, researchers, and policymakers to discuss how cutting-edge solutions may go from pilot projects to widespread implementation. Paola Astegiano (FIT Consulting) represented DISCO in two sections of the event: a plenary session on 'Data spaces and digital tool integration' and its 'Closing Plenary on Policy'. In the session on data spaces and digital tools, she presented DISCO's approach to enabling secure and decentralised data sharing between organisations, with particular attention to data sovereignty, interoperability, and reliable governance frameworks. She also showcased the connection between DISCO's Urban Freight Data Space and URBANE's digital tool, illustrating how project-developed solutions can be adapted and applied in other initiatives. In addition, Paola highlighted the value of cooperation and liaison with complementary European projects as a means of extending reach, avoiding duplication, and facilitating the exchange of expertise. During the Closing Plenary on Policy, Paola drew on the In-person Policy Dialogue described in Section 4.3.2 of this document. She argued that the lasting contribution of European projects such as DISCO is not limited to the technologies they deliver, but also encompasses the networks and partnerships established throughout their implementation. She emphasised that achieving lasting improvements in urban logistics requires sustained engagement between municipalities, logistics companies, technology developers, infrastructure stakeholders, and the research community.

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5. Overall assessment of DISCO's liaison activities

The liaison activities undertaken by DISCO have delivered concrete, measurable outcomes that align closely with the project's overarching objectives and the specific goals of Task 7.4. Quantitatively, DISCO has engaged over 500 clustered stakeholders, including cities, logistics and parking operators, and policymakers, with participation in 30 major EU and international events, such as Urban Mobility Days, Transport Logistics Munich, and the ALICE Innovation Summit. The signing of the joint statement by ALICE, POLIS, and EPA, formalised cross-sector cooperation and positioned DISCO as a key reference in urban logistics policy dialogue. Additionally, as of writing the document, 4 cities are in the process of upgrading their SULPs (Copenhagen, Thessaloniki, Helsinki and Padua, see KAI 34), demonstrating tangible policy influence in cities.

In terms of knowledge sharing and capacity building, DISCO has exceeded expectations by delivering over 30 capacity-building activities (KAI 39), including webinars, an e-course, and a podcast series featuring ICBT experts and Living Labs. DISCO has also played a leading role in standardisation efforts, co-organising the International Workshop on Standardisation (22/10/2025) and contributing to ISO and CEN standards for the Physical Internet. Transferability and scaling have been strong suits for DISCO, with over 10 DISCO-X measures transferred from Starring to Twinning Living Labs (KAI 31). Notable examples include the Urban Access Control (UAC) system in Ghent, which was replicated in Leuven and Hasselt, and the disaster management solution from Valencia, which was also adopted outside the EU (the DISCO partner T-Box is collaborating with the Red Crescent in Algeria). Beyond the European R&I ecosystem, the objective was to promote the DISCO solutions to industry stakeholders and cities with adoption potential. Although the initial plan to feature the solutions on the ENTRANCE platform could not be implemented despite several attempts, the project successfully adapted by using alternative dissemination channels, including the EIT Urban Mobility platform, the ESA platform, and the Transport Logistic Munich exhibition. This flexible approach ensured that the solutions reached relevant target audiences and supported the project's dissemination objectives.

DISCO stands out as one of the most visible and collaborative projects in the EU urban logistics landscape due to its holistic, cross-sector approach, integrating Physical Internet principles, data-driven decision-making, and policy influence into a cohesive framework. For example, DISCO had a high number of joint events with sister projects (11 with UNCHAIN and URBANE alone) and established a formal joint statement signed by ALICE, POLIS, and EPA to ensure continuity of its purposes beyond its lifetime. The project's standardisation efforts translated to policy documents, through the participation in the International Workshop on Standardisation (22/10/2026) contributing to wider impact of its outcomes and learnings. This visibility is further reinforced by 20 active collaborations with projects, including DECARBOMILE, GREEN-LOG, and DELPHI for example, as well as over 1000 followers on LinkedIn. By emphasising these achievements and mitigations,

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DISCO has presented itself as a front-runner in EU urban logistics innovation, with a track record of not only meeting but often exceeding its proposed targets and becoming the reference in the current wave of urban logistics EU-Funded projects.

6. Conclusion

This deliverable has documented the liaison activities carried out by DISCO with related EU-funded projects, initiatives, networks and stakeholder communities throughout the reporting period. as seen in section 5, these activities contributed to strengthening cooperation with complementary research and innovation actions, facilitating the exchange of knowledge and practices, and increasing the visibility of DISCO results within the wider European urban freight and logistics ecosystem. DISCO's 30+ event participations, 20 project liaisons, and translation to concrete publications (the joint statement by ALICE, POLIS, and EPA) demonstrate its reputation as a reference for urban logistics transformation, combining technical excellence, policy impact, and stakeholder collaboration at a level few projects achieve. The overview provided in this document shows that DISCO engaged with a broad range of initiatives through multiple formats, including webinars, workshops, conferences, joint sessions, stands, publications, joint statements and policy dialogue activities. These exchanges supported the identification of synergies with projects addressing sustainable urban logistics, Physical Internet, data spaces, multimodal freight, curbside management, proximity logistics and urban mobility planning. They also created opportunities to share DISCO outputs, learn from related pilots and position the project's results in relation to wider European priorities.

A key outcome of these liaison activities was the establishment of practical links with complementary initiatives, including the integration of tools and approaches developed in other projects. The feedback collected through exchanges with related projects and stakeholders also contributed to the development of DISCO's policy package, ensuring that policy recommendations were informed by external experiences, lessons learned and complementary project results. This illustrates the added value of cooperation beyond dissemination, by enabling knowledge transfer, reuse of project results and stronger alignment between research and innovation actions working on similar challenges. The deliverable also highlighted the contribution of the ICBT, which provided external expertise and strategic guidance across several areas of the project. Through its involvement in technical discussions, Living Lab assessment, policy-related activities, podcast preparation and capacity-building outputs, the ICBT helped strengthen the relevance, transferability and impact potential of DISCO results.

Overall, the liaison activities and ICBT activities presented in this deliverable demonstrate DISCO's active contribution to the European innovation ecosystem for sustainable, data-enabled and collaborative urban logistics. They supported the project's dissemination, exploitation and policy recommendation objectives, while helping to ensure that DISCO outcomes are connected to broader European initiatives and can inform future replication, scale-up and implementation efforts.

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8. Annex A: Description of projects presented in the deliverable

Project Information	Project description (CORDIS)
UNCHAIN Horizon Europe ID: 101103812 Duration: 01.05.2023 – 31.10.2026	Nowadays, almost everything we need can be ordered online and delivered to our doorsteps. However, last-mile delivery is far from supporting a sustainable society. The EU-funded UNCHAIN project aims to contribute to more sustainable urban logistics and help the transition towards climate-neutral and smart cities. To achieve this, it will boost the cooperation between public authorities and logistics stakeholders by implementing a standardised and reliable data exchange ecosystem and an innovative set of urban logistics services. With the UNCHAIN project, public authorities and transport operators will enjoy mutual benefits via cooperation schemes for sustainable urban freight transport policies and operations.
DELPHI Horizon Europe ID: 101104263 Duration: 01.07.2023 – 30.06.2026	In a world faced with increasing urbanisation, the ever-evolving landscape of e-commerce, and the intricate web of transportation stakeholders, the challenges in passenger and freight mobility have reached critical proportions. For years, we have grappled with a fragmented transport system that treats passengers and freight as separate entities, leading to a lack of coordination and efficiency. With this in mind, the EU-funded DELPHI project will apply cutting-edge technologies such as UAS-powered monitoring and AI/ML-powered algorithms to streamline traffic management and enable seamless data sharing across sectors. The project is conducting four pilot programmes, each tailored to specific requirements and ecosystems. DELPHI is poised to reshape the future of transportation, making it smarter, more efficient, and interconnected.
GREEN-LOG Horizon Europe ID: 101069892 Duration: 01.01.2023 – 30.06-2023	Online shopping is convenient and quick. Deliveries are just a click away – for consumers. However, delivering an ever-increasing number of parcels is no easy task. The challenges around urban last mile are particularly pronounced. In this light, the EU-funded GREEN-LOG project will push the gas on economically, environmentally and socially sustainable city logistics. It will develop city platforms and automated delivery concepts to nurture social innovation. On the operational level, GREEN-LOG will use autonomous vehicles and delivery droids as well as innovations based on cargo bikes. Moreover, it will promote the development of harmonised regulatory and policy frameworks and cooperative business models. The

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	approach will be tested in five EU areas (Athens, Barcelona, Flanders, Oxfordshire and Ispra) with more cities to follow.
GRETA Interreg Project Duration: 04.2023 – 03.2026	E-commerce is booming, and with it comes an increase in freight transport. This is putting a strain on our cities, with higher emissions, noise, and congestion. The GRETA project is working to decarbonize the last mile of freight transport by piloting the use of zero-emission vehicles like cargo bikes. The project partners are reorganizing urban spaces to make them more efficient for freight deliveries. They are also working to develop new curb management strategies that will reduce the number of delivery vehicles on the road. GRETA is a solution for a more sustainable future. By reducing emissions and congestion, we can make our cities cleaner, quieter, and more livable.
DECARBOMILE Horizon Europe ID: 101069806 Duration: 01.09.2022 – 31.08.2026	Gathering 31 partners from 10 different countries, DECARBOMILE aims to trigger an unprecedented improvement of the green last mile logistics in Europe. To reach that goal, DECARBOMILE relies on a strong experience of decarbonating urban logistics through European initiatives such as CIVITAS. Partners will build upon all previous results to develop improved delivery methods, tools and methodologies, and implement them across Europe. The solutions developed in DECARBOMILE will demonstrate the full potential of decarbonised last mile logistics in four living labs (in Logrono - Spain, Nantes -France, Hamburg - Germany and Istanbul - Turkey) and 4 satellites (Tallinn - Estonia, Getafe - Spain, Ghent - Belgium and Sarajevo - Bosnia and Herzegovina) will be involved at a smaller scale to test and study the solution in their own local contexts. To be successful in its implementation, DECARBOMILE will rely on developed methodologies to implement the new solutions and delivery methods in collaboration with all relevant local stakeholders, based on their needs and behaviours. The relation with and between stakeholders will be facilitated by the creation of a collaborative urban consolidation logistics framework that will include a digital platform, methodologies for collaboration, and ICT and IoT tools. This common framework, along with tailored innovative business models and recommendations on local policies, will allow for a strong collaboration during the project, allow to learn more about the end-users needs and behaviours. The delivery methods will be strongly improved with urban consolidation centres, micro urban consolidation centres including smart lockers, innovations on cargo bikes and how they can be used with load pooling for instance, electric barge and more. The goal is to use and improve existing solutions and allow their interoperability and modularity to improve their efficiency and use their complementarity.

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IKIGAI Horizon Europe ID: 101202912 Duration: 01.07.2025 – 31.09.2028	Freight transport is one of Europe's most polluting sectors, with fragmented networks and outdated systems hampering the shift to sustainability. The EU-funded IKIGAI project is supporting logistics actors through five innovative solutions that help companies share resources, reduce emissions and cut operational costs. The project develops common standards, pilots scalable technologies in real-world settings and encourages collaboration over competition. Central to this effort are the Physical Internet (PI) Norm, logistics readiness audits and a sector-wide governance structure known as the PI Coalition. These elements are integrated into the Golden Scale-up Package: a structured framework designed to support the adoption of these solutions across the industry and contribute to the development of a connected, compliant and zero-emission logistics ecosystem.
URBANE Horizon Europe ID: 101069782 Duration: 01.09.2022 – 28.02.2026	Advancing the transition path towards safe, efficient and sustainable last mile transport, the last leg of a journey for the movement of goods, is a priority for the EU-funded URBANE project. It will combine green automated vehicles with shared space usage models to uncover last mile delivery solutions. URBANE will focus on four Lighthouse Living Labs in Bologna, Helsinki, Thessaloniki and Valladolid. The project will leverage digital twinning tools, a data-driven impact assessment radar, and Blockchain technology-led smart contracts to get results, which will enable it to verify the 'physical internet' (i.e. transport network) for urban deliveries.
LEAD Horizon 2020 ID: 861598 Duration: 01.06.2020 – 30.09.2023	Sprawling cities need smart urban logistics to become more environmentally, socially and economically sustainable. It is important for today's tech-savvy city planners to generate simulations that can help guide their future plans. This is why it is necessary for them to make maximum use of the latest computer-aided design (CAD) technology. The EU-funded LEAD project is designing digital twins of urban logistics to support experimentation and decision making in public–private urban settings. Specifically, the project's long-term goal is to develop an open physical internet-inspired framework for smart city logistics. Headed by a large consortium, the project will test its solutions in six cities: Madrid, The Hague, Budapest, Lyon, Oslo and Porto.
MOVE21 Horizon 2020 ID: 953939	The rapid transition to zero emissions and climate resilient transport systems requires an integrated approach to passenger and freight transport. The EU-funded MOVE21 project will tackle six urban nodes, from policy definition to planning and implementation in the participating cities. The integrated and holistic approach of MOVE21 ensures that potential

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Duration: 01.05.2021 – 30.04.2025	negative effects from zero emission solutions in one field are not transferred to other domains, ultimately boosting the resilience of the European transport systems. MOVE21 will work through the Living Labs of Gothenburg, Hamburg and Oslo and the three replicator cities Bologna, Munich and Rome. It will test different mobility hubs and innovations and develop means for clean and smart mobility and logistics.
ULaaDs Horizon 2020 ID: 861833 Duration: 01.09.2020 – 29.02.2024	The EU-funded ULaaDS project sets out to offer a new approach to system innovation in urban logistics. Its vision is to develop sustainable and liveable cities through re-localisation of logistics activities and re-configuration of freight flows at different scales. Specifically, ULaaDS will use a combination of innovative technology solutions (vehicles, equipment and infrastructure), new schemes for horizontal collaboration (driven by the sharing economy) and policy measures and interventions as catalysers of a systemic change in urban and peri-urban service infrastructure. This aims to support cities in the path of integrating sustainable and cooperative logistics systems into their sustainable urban mobility plans (SUMPs). ULaaDS will deliver a novel framework to support urban logistics planning aligning industry, market and government needs, following an intensive multi-stakeholder collaboration process. This will create favourable conditions for the private sector to adopt sustainable principles for urban logistics, while enhancing cities' adaptive capacity to respond to rapidly changing needs. The project findings will be translated into open decision support tools and guidelines.
SENATOR Horizon 2020 ID: 861540 Duration: 01.09.2020 – 28.02.2025	In order to manage urban planning policies in an optimal way, the EU-funded SENATOR project aims to produce governance schemes on user demand planning, transport planning, freight and logistics planning and city infrastructure. Within this scope, the project will create a multi-collaborative framework that will bring together stakeholders in urban freight logistics. A 'control tower' will help plan the operations and ease the relationships between urban planners and urban freight logistics players. Eventually, the project will create a new urban logistic model focussed on the four urban layers (end-receiver, transport, logistics and infrastructure) and enhance citizen engagement in urban planning policies.
MED COLOURS Interreg Euro-Med Project	MED COLOURS aims at upscaling to a new generation of urban logistics and planning enabling the transition to decarbonised and smart cities. By developing new Sustainable Urban Logistics Plans (SULPs), MED Cities will plan resilient, sustainable, integrated, and collaborative innovation-driven solutions for the Functional Urban Areas (FUAs). This would help reducing the negative impacts of freight and logistics activities. MED COLOURS

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Duration: 01/09/2024 – 31/08/2027	Project will implement 5 Pilot Actions and 6 Sustainable Urban Logistics Plans in the MED cities involved in the project: Livorno, Cesena, Thessaloniki, Koper, Lisbon and Lyon.
CODEZERO Horizon Europe ID: 101146909 Duration: 01.06.2024 – 31.05.2027	Last-mile e-commerce delivery is crucial for efficient supply chain management, as it ensures that items are properly packaged and sent directly to the customer. In this context, the EU-funded CodeZERO project aims to develop sustainable, zero-emission last-mile delivery and return e-commerce solutions. It will analyse existing delivery and return options, considering the needs and constraints of all stakeholders involved, and conduct a detailed analysis of various groups of online consumers to understand the features of delivery and return options that make them attractive. The project will create an assessment framework to measure the solutions' environmental, economic, and social impacts. It will engage with retailers, transport operators, consumers, and local authorities. Additionally, the project will test the solutions in four European cities.
CLEVER Horizon EUROPE ID: 101146908 Duration: 1 June 2024 End date 31 May 2027 01.06.2024 – 31.05.2027	Accurate calculations and continuous monitoring of current emissions are essential for efficiently reducing carbon and greenhouse gas (GHG) emissions, particularly in the transport sector as it transitions to greener technologies. Precise calculations play a crucial role in developing guidelines and assessing the effectiveness of innovative solutions. In this context, the EU-funded CLEVER project will develop a novel harmonised GHG emission factor for the transport sector and an innovative framework for consistent calculation of emissions from new energy carriers. To achieve this goal, it will adopt a multi-actor approach, reviewing existing emission factors from global sources, integrating scientific advancements and gap analysis, to create a comprehensive guide for emissions calculation throughout the entire transport chain.
SPINE Horizon Europe ID: 101096664 Duration: 1 January 2023 Duration: 01.01.2023 – 31.12.2026	A unique multidisciplinary team from 16 countries is coming together to revolutionise the public transport industry under the EU-funded SPINE project. The primary aim is to accelerate progress towards climate neutrality by reinforcing public transport systems through smart integration with new mobility services, sharing schemes, active transport modes and micromobility. Four Lead City Living Labs – Antwerp, Bologna, Tallinn, Las Palmas – will establish a network of collaboration and foster transferability of the most promising solutions to seven twinning cities: Barreiro, Valladolid, Žilina, Šibenik, Herakleion, Gdynia and Rouen. A series of co-creation activities will take place where multiple stakeholders will be

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	actively engaged in the development and demonstration of efficient, replicable and socially acceptable innovative mobility solutions.
FOREMAST Horizon Europe ID: 101138261 Duration: 01.01.2024 – 31.09.2026	Inland waterway transport (IWT) faces multifaceted challenges, from inefficient control systems to environmental concerns. Traditional vessels struggle with outdated navigation methods and emissions-intensive propulsion systems, hindering both operational efficiency and sustainability efforts. What's more, the intricate logistics of IWT demand innovative solutions to optimise cargo handling and vessel design. In this context, the EU-funded FOREMAST project targets advancements along four pillars: automation, zero-emission energy management, vessel design, and digital optimisation tools. It aims to revolutionise IWT, offering a sustainable and efficient path forward for Europe's waterborne freight industry. With its structured approach, FOREMAST promises to usher in a new era of innovation and sustainability in IWT.
SYNCHROMODE Horizon Europe ID: 101104171 Duration: 01.05.2023 – 30.04.2026	The EU-funded SYNCHROMODE project will address major challenges faced by European transport systems, including traffic congestion, road safety, energy consumption, and emissions. The project aims to transform traffic management by incorporating a multimodal network-wide perspective. To that end, it will equip traffic managers with the SYNCHROMODE Toolbox, providing predictive and optimisation capabilities to balance network supply and demand and manage the impacts of events. Furthermore, it will execute research activities beyond the current state of the art in transport modelling, traffic prediction, optimisation of multimodal traffic operations, enhanced data quality, use of new multimodal traffic data sources, and new KPIs for improved monitoring and assessment. Project results will be tested and validated in three real-world case studies: Thessaloniki (Greece), the Netherlands, and Madrid (Spain).
NEXTLOGIC Horizon Europe ID: 101238585 Duration: 01.01.2026 – 31.12.2029	NEXTLOGIC is a collaborative, digitally empowered platform that drives the co-design and co-creNEXTLOGIC is a collaborative, digitally empowered platform that drives the co-design and co-creation of transport, mobility, and logistics solutions for cities and their stakeholders, including citizens, businesses, and authorities. It leverages an advanced Digital Twin (DT) enhanced with eXtended Reality (XR) and gamification to simulate, assess, and present urban scenarios in an immersive, data-driven environment, fostering informed decision-making. By integrating real-time data from Floating Car Data, IoT sensors, and historical datasets, NEXTLOGIC will dynamically models traffic, logistics,

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	and urban space usage. It will optimize urban planning through geospatial analytics and adaptive space management, transforming logistics with smart loading zones and mobile microhubs with electric cargo bikes, enhancing last-mile delivery efficiency through dynamic and multi-functional urban space. NEXTLOGIC will enhance accessibility and optimize city-wide logistics by integrating multimodal transport hubs, real-time data, and urban surroundings, reimagining cities as a hub-and-spoke system that connects services within a 15-minute radius. Additionally, it will incentive mechanisms and reward schemes aiming at better urban public space connectivity and accessibility, use of the infrastructure and the vehicles, reduced need and better management of public space, and creation of smart energy solutions that will close the gap between where the (green) energy is produced and where and when it is consumed. NEXTLOGIC will deploy pilots in eight European cities, bringing together 34 multidisciplinary partners from 13 countries to create more connected, accessible, and efficient urban environments. By optimizing infrastructure, reducing public space demand, and enabling sustainable, data-driven mobility solutions, NEXTLOGIC aims to transform urban logistics and mobility across Europe.
deployEMDS DIGITAL Duration: November 2026 – October 2026	deployEMDS is a project that aims to support the European Union's digital sovereignty by involving the preparation of a data infrastructure, governance, and processing. Building upon the groundwork laid by PrepDSpace4Mobility, the deployEMDS project's primary objective is to deploy an operational data space and common governance mechanisms. This data space will facilitate decentralised, trusted and secure data sharing in the context of urban mobility. The project will actively support real-life implementation projects in nine cities and regions: Barcelona (ES), Île-de-France (FR), Milan (IT), Lisbon (PT), Flanders (BE), Sofia (BG), Stockholm (SE), Tampere (FI), and Budapest (HU). These initiatives will focus on developing innovative services and applications in urban mobility, while assisting in policymaking through the sharing and reuse of data.
ACUMEN Horizon Europe ID: 101103808 Duration: 01.06.2023 – 31.05.2026	In today's increasingly congested urban landscapes, efficient transportation has become a pressing challenge. Traffic gridlock, safety concerns, and environmental issues all demand innovative solutions. In this context, the ACUMEN project proposes a cutting-edge, privacy-preserving, data-driven digital paradigm aimed at streamlining network management. Its goal? To enable seamless door-to-door journeys, enhance network-level safety and resilience, and contribute significantly to the transport objectives outlined in the Green Deal. At the heart of ACUMEN lies the concept of a modular, multi-layered digital twin. This high-fidelity representation of complex real-world systems creates a digitised version of

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	sustainable, connected urban mobility. Complemented by plug-in modules or digital tools, ACUMEN harnesses the power of AI to support mobility management and decision-making.
Shift2Zero Horizon Europe ID: 101192375 Duration: 01.01.2025 – 30.06.2028	The EU market faces a significant gap between the supply of light commercial vehicles and the increasing demand for urban logistics. In 2023, 1.2 million diesel light commercial vehicles were registered, compared to only 108 200 battery-electric vehicles. Improving last-mile logistics efficiency requires innovative solutions from both established and emerging automotive players. The EU-funded Shift2Zero project aims to advance zero-emission logistics by leveraging IVECO's eDaily and Alke's ATX vehicle platforms in the segment of light commercial vehicles. The project will collaborate with logistics service providers and mobility operators to develop innovative electric vehicles tailored for e-commerce, returns, and cold deliveries. Additionally, it will address adoption barriers by reducing operational costs and environmental impact.

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