

Transfer Work Package PULSE-TWIN EUROPEAN URBAN INITIATIVE – INNOVATIVE ACTIONS

4th March 2026



Co-funded by
the European Union



Work Package Nr.	Work Package title	Start date	End date	Work Package budget
N.9	Transfer	05.2026	03.2029	Automatic
Partners' involvement				
Work Package responsible Partner	Municipality of Heerlen			
Other involved Partners	PP 2 - Dutch National Police (NPOL) PP 3 - Maastricht University (UM) PP 4 - Incluzio PP 5 - JENS PP 6 - Dutch CPTED Chapter, Association for Safe and Secure Urban Design, Planning and Management (SVOB) PP 7 - Brightlands Smart Services Campus (BSSC) Transfer Cities: PP 8 - Municipality of Piraeus PP 9 - Sant Boi De Llobregat City Council PP 10 - City of Genk			
Summary				
The Transfer Work Package (WP9) of PULSE-TWIN aims to ensure the structured transfer of the project's innovative Social Digital Twin (SDT) approach to urban safety and livability to three European Transfer Partner cities: Genk, Piraeus, and Sant Boi de Llobregat. WP9 is led by the Municipality of Heerlen (MUA) and runs throughout the entire implementation phase of the project. The exchange with Transfer Partners is continuous and closely connected to the core project activities. Transfer Partners will learn from the stakeholder engagement activities in WP5 and from the piloting and testing of technological solutions in WPs 6–8, enabling them to follow the development of the PULSE-TWIN solution as it evolves. The focus of WP9 is on transferring methods, governance frameworks, learning processes, and ethical approaches, rather than replicating a single technological system. Key transferable elements include the Social Digital Twin concept, AI-supported decision-making, integration of heterogeneous urban safety and social data, participatory safety models, and the application of Ethical, Legal and Societal Aspects (ELSA) in data-driven governance. To ensure effective transfer, a structured cooperation plan will be established with the Transfer Cities. This cooperation is coordinated by the MUA and supported by the consortium partners and the Transfer Expert. Transfer Partner context and relevance City of Genk (Belgium) Genk seeks to strengthen data-driven, area-based safety governance, particularly regarding undermining crime. The city has a mature neighbourhood-oriented approach, strong administrative enforcement tools, and experience with neighbourhood scans combining social and physical livability indicators. Genk also brings experience with public-private safety partnerships and digital practices related to mobility flows, crowd measurements, and camera data.				

Municipality of Piraeus (Greece)

Piraeus is a large port city facing complex safety and livability challenges linked to port-city interactions, tourism, and dense mobility flows. A key challenge is the fragmentation of safety-related and social data, which limits proactive interventions. Piraeus contributes experience from participatory and digital safety initiatives such as BSFS, CURiM, Cities After Dark, and DataVaults, as well as knowledge of managing complex urban environments.

Municipality of Sant Boi de Llobregat (Spain)

Sant Boi aims to shift from reactive to proactive public security models through digitalisation and data-driven governance. While overall victimisation levels are low, the city faces challenges related to minor crime, incivility, and social cohesion. Sant Boi contributes strong experience in participatory governance, data governance, and digital public services through initiatives such as the M7 Security Platform, Data Office, Open Data Portal, and GIS-based tools.

WP Transfer is divided into four stages, aligned with the PULSE-TWIN implementation timeline:

- Stage 1: Making sense of the concept – 05.2026 – 09.2026 | 5 months*
- Stage 2: Local lift off – 10.2026 – 03.2027 | 6 months*
- Stage3: Feasibility testing – 04.2027 – 09.2028 | 18 months*
- Stage 4: Preparing for transfer 10.2028 – 03.2029 | 6 months*

Stage 1 – Making sense of the concept

(01/05/2026 – 30/09/2026)

Shared understanding of the Social Digital Twin concept, PULSE-TWIN governance model, data architecture, and ELSA framework.

Stage 2 – Local lift-off

(01/10/2026 – 31/03/2027)

Ambition-setting and initial reflection by Transfer Partners on local challenges, existing tools, and strategic fit of PULSE-TWIN approaches.

Stage 3 – Feasibility testing

(01/04/2027 – 30/09/2028)

Context-specific feasibility analysis, peer learning, and reflection linked to pilot results and tested project components.

Stage 4 – Preparing for transfer

(01/10/2028 – 31/03/2029)

Consolidation of learning, preparation of Replication Feasibility and Opportunity Studies, and finalisation of transfer documentation.

Activities and deliverables

Activity A.9.1	<u>Activity title</u> Coordination of the transfer cooperation	Start date (05.2026)	End date (03.2029)
	Responsible Partner: PP 1 – Municipality of Heerlen		
	Activity description and Partners involved <i>Transfer coordination is led by the Municipality of Heerlen (MUA), in close collaboration with the project partners and the Transfer Expert. The MUA provides overall strategic guidance and ensures alignment between the transfer activities and the core project implementation through regular meetings.</i> <i>These meetings serve to review progress, discuss upcoming transfer activities and address emerging issues. All collaboration materials, including action lists, draft deliverables, calendars and discussion records, are shared through a dedicated MS Teams / SharePoint workspace. This ensures transparent access to documents, enables real-time commenting, and allows all partners to follow decisions and progress throughout the work package.</i>		

D.9.1.1	<u>Deliverable title</u> <i>Ongoing communication and exchange between Transfer Partners and the MUA</i> Deliverable description <i>Ongoing communication between the TP's and the MUA via Teams, with document exchange and project collaboration via Sharepoint.</i>	Target value Ongoing	Delivery date (03.2029)
D.9.1.2	<u>Deliverable title</u> <i>Ongoing coordination meetings</i> Deliverable description <i>Implementation of the established coordination framework through regular online meetings. Online meetings will ensure continuity and alignment across all partners, discuss overall progress, resolve any strategic issues, and align cross-activity planning. Outputs include meeting notes and updated action lists.</i>	Target value 18 - At least bi-monthly	Delivery date (03.2029)
Activity A.9.2	<u>Activity title</u> Knowledge exchange and peer to peer learning Responsible Partner: PP 1 – Municipality of Heerlen Involved Partners: PP8 - Municipality of Piraeus, PP9 - Sant Boi de Llobregat City Council, PP10 – City of Genk	Start date (04.2026)	End date (03.2029)
	Activity description and Partners involved <i>This activity facilitates structured mutual learning through peer-to-peer exchange, thematic workshops and site visits.</i> <i>Workshops and exchanges are informed by the specific interests expressed by the Transfer Partners.</i> <i>Across all Transfer Partners, there is interest in:</i> <i>understanding how complex urban safety and livability challenges can be addressed through integrated, data-driven approaches that combine security, social and spatial perspectives;</i> <i>learning how heterogeneous data sources (e.g. municipal, police, social services, mobility, environmental and citizen inputs) can be connected and translated into usable decision support for public authorities and frontline professionals;</i> <i>exploring coordination and governance arrangements that enable cooperation between different institutional actors involved in urban safety and social cohesion;</i> <i>reflecting on how digital tools, organisational practices and community engagement interact in real operational settings.</i> <i>At the same time, the Transfer Partners approach these questions from different angles. Some partners emphasise learning that supports the operational use of data and analytics in area-based safety work, including early signal detection, prioritisation of interventions and coordination between enforcement, prevention and social actors. Their interest lies in how</i>		

	<i>PULSE-TWIN components can support day-to-day professional practice without adding complexity or undermining trust.</i> <i>Other partners place stronger emphasis on governance, ethics and system embedding, focusing on how data-driven safety tools are organised, overseen and legitimised over time. This includes interest in privacy and ethical safeguards, responsibility sharing between institutions, and the role of citizen-facing tools in maintaining social acceptance and avoiding unintended effects such as overreporting or exclusion.</i> <i>Taking the above into consideration, the knowledge exchange activities under A.9.2 combine two complementary learning orientations:</i> <i>1: practice-oriented learning, such as hands-on workshops, peer review of use cases, and joint reflection on pilot experiences that focus on operational workflows, usability for professionals, and decision-making in neighbourhood contexts; and</i> <i>2: governance- and reflection-oriented learning, such as structured dialogue on data governance, ethical and legal aspects, organisational change, and long-term embedding of the Social Digital Twin within existing safety and social systems.</i> <i>This combination allows the transfer process to respond to the concrete operational needs of Transfer Partners while also addressing the broader institutional and societal conditions required for sustainable and responsible use of PULSE-TWIN approaches.</i>		
D.9.2.1	Deliverable title <i>Peer learning visits</i> Deliverable description <i>The organisation and documentation of a learning visit hosted by each of the Transfer Partners, including local stakeholder engagement and thematic focus areas.</i>	Target value 3	Delivery date (03.2029)
D.9.2.2	Deliverable title <i>Thematic Workshops and Online Capacity Building</i> Deliverable description <i>Thematic workshops and online sessions that facilitate exchange on specific topics across cities. Activities include co-creation sessions as well as peer-learning meetings.</i>	Target value 3	Delivery date (03.2029)
D.9.2.3	Deliverable title <i>Coordination of Onsite Visits in the City of Heerlen</i> Deliverable description <i>Three site visits will be organized in the City of Heerlen with all three TPs during the project:</i> <i>Opening site visit at the beginning of the WP</i> <i>Deep dive site visit dedicated to in-depth understanding of the innovative solution (beginning of Stage 3)</i> <i>Closing site visit at the end of the project summarising transfer cooperation (Stage 4)</i> <i>Each onsite visit will be supported by an online preparatory meeting to gather input from Transfer Partners, ensure expectations are addressed, and co-design the agenda. Onsite coordination sessions will allow partners to reflect on progress, resolve operational issues, and adjust plans as needed. These visits will support coordination across all stages of the transfer process:</i>	Target value 3	Delivery date (03.2029)

	<i>from initial understanding of the solution, through peer learning, to local adaptation and planning.</i>		
Activity A.9.3	Activity title Formulation of the frameworks for the transfer of innovative solution Responsible Partners: PP 1 – Municipality of Heerlen PP8 - Municipality of Piraeus, PP9 - Sant Boi de Llobregat City Council, PP10 – City of Genk	Start date (09.2027)	End date (03.2029)
	Activity description and Partners involved <i>This activity supports each Transfer Partner in developing a realistic and context-sensitive approach for adapting relevant elements of the project's innovative solution through a dedicated Transfer Roadmap. Building on earlier peer learning and exchanges, each city will co-develop a roadmap that outlines the key steps, milestones and enabling conditions required for future adaptation, taking into account local priorities and capacities. Locally relevant applications of selected solution elements will be identified with methodological support from the Transfer Expert.</i> <i>To inform this process, each Transfer Partner will complete two Transfer Capacity Surveys, at the start and at the end of the Work Package, to reflect on changes in innovation readiness and system capacity. The surveys will be complemented by SWOT analyses and peer feedback, which together will inform and refine the Transfer Roadmaps.</i> <i>Final outputs will include a Feasibility and Opportunity Study for each Transfer Partner, summarising lessons learned, outlining potential implementation pathways and identifying next steps.</i> <i>The Main Urban Authority will synthesise the results into a public-facing Innovative Solution Model to support transfer and replication by other cities. Feasibility testing activities carried out by the Transfer Partners will further inform this process.</i>		
D.9.3.1	Deliverable title <i>Transfer Capacity Survey (entry & exit) and SWOT analyses</i> Responsible Partners: PP8 - Municipality of Piraeus, PP9 - Sant Boi de Llobregat City Council, PP10 – City of Genk Deliverable description <i>To assess innovation capacity at the start of the exchange and to identify major obstacles to transfer as well as a SWOT analysis for each TP.</i>	Target value 9	Delivery date (03.2029)
D.9.3.2	Deliverable title <i>Transfer roadmap</i> Responsible Partners: PP8 - Municipality of Piraeus, PP9 - Sant Boi de Llobregat City Council, PP10 – City of Genk Deliverable description <i>Mapping out the transfer journey for each Transfer City – individual journey with key milestones</i>	Target value 3	Delivery date (03.2027)
D.9.3.3	Deliverable title <i>First Draft of Replication Feasibility and Opportunity Study ("Transfer Study")</i> Responsible Partners: PP8 - Municipality of Piraeus, PP9 - Sant Boi de Llobregat City Council, PP10 – City of Genk Deliverable description <i>Transfer Partners will explore how elements of the PULSE-TWIN model could be adapted to their local</i>	Target value 3	Delivery date (09.2028)

	context through testing and experimentation. The scope of these studies will be tailored to the specific needs and capacities of each city and are therefore to be defined and decided. Activities may include local feasibility assessments, small-scale pilot actions, early stakeholder engagement, awareness campaigns, or preparatory work for future transfer. Supported by the Transfer Expert, the studies will reflect early lessons learned and be linked to the Transfer Roadmaps under D.9.3.2		
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Outputs

Define main outputs you aim to deliver through this Work Package. Please take into account that 2 types of outputs are pre-defined and therefore compulsory within the Transfer Work Package.

Nr	Output title	Output description	Output indicator	Unit	Target value	Delivery date
O.9.1	<u>Output title</u> EUI - Innovative Solution Model Responsible Partners: PP1 – City of Heerlen	Output description The EUI - Innovative Solution Model – is a final document focused on the transferability and scaling up of the tested innovative solution in order to allow others to learn about the findings of the experimentation and receive some guidance on how to approach replication. The EUI - Innovative Solution Model will be publicly available on the EU Knowledge Exchange Sharing Platform and EUI webpage. <i>For more information, please refer to the EUI-IA Guidance, Chapter 5</i>	Output indicator Number of EUI – Innovative Solution Model delivered		Target value 1	Delivery date (03.2029) <i>Predefined: project's end date</i>
O.9.2	<u>Output title</u> Replication Feasibility and Opportunity Study Responsible Partners: PP8 - Municipality of Piraeus, PP9 - Sant Boi de Llobregat City Council, PP10 – City of Genk	Output description The Replication Feasibility and Opportunity study summarizes what is the local challenge, how transferred innovative solutions can be adapted to the local context, what are the necessary steps to implement it, what are the identified funding sources, how management structure and key management processes can be shaped, etc. (investment output).	Output indicator Number of Replication Feasibility and Opportunity Study delivered		Target value 3	Delivery date (03.2029) <i>Predefined: project's end date</i>

		For each Transfer Partner one Replication Feasibility ad Opportunity study must be delivered. For more information please refer to the Terms of Reference of the relevant Call and to the EUI-IA Guidance, Chapter 5.				
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+ "Add more" button (to add outputs)

Nr	Output title	Output description	Output indicator	Unit	Target value	Delivery date
O.N. 1	Output title [100 characters]	Output description [500 characters] Please note that an output is what has actually been produced as a result of the funding given to the project – the main project product. It should directly contribute to the achievement of the project results. For more information, please refer to the EU-IA Guidance, Chapter 2.2.1. Please mention which Partner/s will be responsible for the delivery of each output.	Output indicator Output indicators are used to measure and monitor project outputs. Output indicators are predefined in the Terms of Reference of the relevant Call for Proposals. In case your output does not correspond to any of the predefined categories, please select "Other". For more information, please refer to the Terms of Reference of the relevant Call and to the EUI-IA Guidance, Section 2.2.1	Unit [100 Character s] In case the result indicator is predefined, the unit will be automatically filled in. In case of project specific indicators, please indicate the unit.	Target value The target value provides the expected quantity of the output to be produced.	Delivery date (MM.YYYY)

Work Package Budget

Please detail the planned costs under the different cost categories at Partner level, specifying how the money will be spent. Costs descriptions should enable a clear reconciliation with the activities proposed in the Work Plan.

Project Partner 1 - Name	Staff cost (€)	Office and Administration (€)	Travel and Accommodation (€)	External Expertise and services (€)	Equipment (€)	Sub-total (€)	Total (€)
Allocated Budget Description							

Amount (€)							
Project Partner X – Name <i>For Delivery Partners same costs categories apply as per any other Work Package</i>	Staff cost (€)	Office and Administration (€)	Travel and Accommodation (€)	External Expertise and services (€)	Equipment (€)	Sub-total (€)	Total (€)
Allocated Budget Description							
Amount (€)							
Transfer Partner 1 – Piraeus	Staff cost (€)	Office and Administration (€)	Travel and Accommodation (€)	External Expertise and services (€)	Equipment (€)	Sub-total (€)	Total (€)
Allocated Budget Description							
Amount (€)							
Transfer Partner 2 – Sant Boi de Llobregat	Staff cost (€)	Office and Administration (€)	Travel and Accommodation (€)	External Expertise and services (€)	Equipment (€)	Sub-total (€)	Total (€)
Allocated Budget Description							
Amount (€)							
Transfer Partner 3 – Genk	Staff cost (€)	Office and Administration (€)	Travel and Accommodation (€)	External Expertise and services	Equipment (€)	Sub-total (€)	Total (€)

				(€)			
Allocated Budget Description							
Total (€)							

Indicative budget breakdown per year					
Year	2024	2025	2026	2027	Total
% Budget					
Amount					



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Toelichting grondslagen

In dit document kunt u secties vinden die onleesbaar zijn gemaakt. Deze informatie is achterwege gelaten op basis van de Wet open overheid (Woo). De letter die hierbij is vermeld correspondeert met de bijbehorende grondslag in onderstaand overzicht.

G Art. 5.1 lid 2 sub b

Het belang van de openbaarmaking van deze informatie weegt niet op tegen het belang van de economische of financiële belangen van de Staat, andere publiekrechtelijke lichamen of bestuursorganen