

Acronym PULSE-TWIN
Project number EUI03-157
Main Urban Authority Municipality of Heerlen

Item		Start date	End date	Delivery Date	Milestone 1	Milestone 2	Milestone 3	Milestone 4	Milestone 5	Milestone 6	Milestone 7
					March 2026	September 2026	March 2027	September 2027	March 2028	September 2028	January 2029
Work package 2 Project Management											
Activity A2.1	Set Up of the Project Management Structures and Governance framework	01/10/2025	31/03/2029								
Deliverable D2.1.1	Daily project management and thematic coordination bodies established and operational			31/03/2029							
Deliverable D2.1.2	Steering and evaluation body established and operated			31/03/2029							
Deliverable D2.1.3	Kick off meeting held presenting project governance and training on financial management			31/10/2025	x						
Activity A2.2	Project Coordination and Internal Communication among Partnership	01/10/2025	31/03/2029								x
Deliverable D2.2.1	Operational project management and thematic management process coordinated			31/03/2029							
Deliverable D2.2.2	Efficient steering and evaluation process managed			31/03/2029							
Deliverable D2.2.3	Internal communication system for smooth collaboration is operational			31/03/2029							
Activity A2.3	Project Work Plan Management and Reporting	01/03/2026	31/03/2029								x
Deliverable D2.3.1	Internal Thematic Reports (10) produced			31/03/2029							
Deliverable D2.3.2	Annual Progress Reports (3) prepared			31/03/2028							
Deliverable D2.3.3	Quality Assessment Reports (2) developed and reviewed			31/03/2029			x				x
Activity A2.4	Project Financial Management	01/10/2025	31/03/2029								
Deliverable D2.4.1	Financial management capacity building			31/10/2025	x						

Deliverable D2.4.2	Internal financial monitoring system set up and operated			31/10/2025	x			
Deliverable D2.4.3	Financial Claims management			31/03/2029		x		x
Activity A2.5	Procurement and Legal proceedings	01/10/2025	31/03/2029			x	x	x
Deliverable D2.5.1	Procurement and legal procedure support			31/03/2029				
Deliverable D2.5.2	Data security and GDPR guidance report			31/03/2026	x			
Deliverable D2.5.3	Transparency statement			31/03/2026				
Work package 3 Monitoring and Evaluation								
Activity A3.1	Monitoring of project performance	01/10/2025	31/03/2029					
Deliverable D3.1.1	Monitoring Working Group set up and operated			31/03/2029	x			
Deliverable D3.1.2	Quarterly reports to SC to support risk management			31-3-2029				
Deliverable D3.1.3	Inputs to 6-monthly Milestone Reviews on indicator performance			31/03/2029				
Activity A3.2	Establishment of the evaluation framework of the innovative solution	01/10/2025	30/06/2027					
Deliverable D3.2.1	Result Indicator Matrix			31/03/2026	x			
Deliverable D3.2.2	Monitoring and evaluation framework			30/06/2027			x	
Activity A3.3	Data collection on the implementation/performance of the innovative solution	01/07/2027	30/09/2028					x
Deliverable D3.3.1	Database of result indicator measurements			30/09/2028				
Deliverable D3.3.2	Narrative evaluation in neighbourhoods			30/09/2028				
Deliverable D3.3.3	Mid-term evaluation			31/07/2027			x	
Activity A3.4	Final evaluation of the innovative solution and reporting on result indicators	01/08/2028	31/01/2029					
Deliverable D3.4.1	Final assessment of innovative solution components and lessons learnt			31/01/2029				
Deliverable D3.4.2	Cost-benefit analysis			31/01/2029				
Deliverable D3.4.3	Final Evaluation Report			31/01/2029				x
Work package 4 Communication and Capitalisation								
Activity A4.1	Kick off communication activities	01/10/2025	31/05/2027					
Deliverable D4.1.1	Communication and Capitalisation Strategy			30/11/2025				
Deliverable D4.1.2	Setting up communication channels			31/12/2025	x			
Deliverable D4.1.3	Project introduction event			31/05/2027			x	
Activity A4.2	Promotional and informational activities	01/10/2025	30/09/2028					
Deliverable D4.2.1	Promo materials development			31-3-2028				
Deliverable D4.2.2	Social media and traditional media activities			30/09/2028				
Deliverable D4.2.3	Series of promo events in the city			30/11/2027				
Activity A4.3	Capitalisation and dissemination activities	01/10/2025	30/09/2028					x
Deliverable D4.3.1	Online Seminars for other Dutch cities and beyond (3)			30-9-2028				
Deliverable D4.3.2	PULSE Café Morning Sessions			30-9-2028				

Deliverable D4.3.3	Scientific and professional publications			30/09/2028						
Activity A4.4	Final closing and dissemination activity	01/12/2028	31/03/2029							
Deliverable D4.4.1	Heerlen Urban Safety Festival			28/02/2029						x
Deliverable D4.4.2	Mid-term and Final Communication Evaluation Report			31/03/2029						x
Activity A4.5	EU Advocacy and Wider Policy Influence	01/10/2026	31/03/2029							
Deliverable D4.5.1	Forum on Future Scenarios: EU-level Conference on AI-based & Data-Driven Solutions in Urban Safety			28/02/2029						
Deliverable D4.5.2	Conclusion Paper on the Forum on future scenarios			31/03/2029						x
Deliverable D4.5.3	Participation in knowledge / capacity-building events and EU networking on social digital twins			31/03/2029						
Work package 5 Ensuring inclusive community engagement in improving public safety and liveability										
Activity A5.1	Setting up multistakeholder and citizen consultation frameworks to be used during tech product development	01/10/2025	30/09/2028							
Deliverable D5.1.1	Set up and operation of the Multistakeholder Panel (MP)			30/09/2028			x			x
Deliverable D5.1.2	Set up and coordination of the Citizen Think Along Group (CTAG)			30/09/2028		x	x	x	x	x
Activity A5.2	Establishing an ELSA (Ethical, Legal, Societal Aspects) validation framework	01/01/2026	30/09/2028							
Deliverable D5.2.1	Co-created ELSA (Ethical, Legal, and Societal Aspects) Validation Framework			31/03/2026		x				
Deliverable D5.2.2	Monitoring reports on ELSA validation during development and testing phases			30/09/2028		x	x	x	x	x
Deliverable D5.2.3	ELSA considerations in future upscaling scenarios			31/07/2028						x
Activity A5.3	Strengthening technology acceptance and uptake among non-technical audiences	01/11/2025	30/09/2028							
Deliverable D5.3.1	Workshops to break through organisation resistance towards new technology			30/09/2028						
Deliverable D5.3.2	Co-developed Guideline on communicating high-level technology to non-technical audiences			31/07/2026		x				
Deliverable D5.3.3	Co-design of the Demo Corners in the Together in the Neighborhood chambers			30/09/2028			x	x	x	
Output O5.1	Stakeholders engaged in improving public safety and liveability			23/09/2028						x
Output O5.2	Citizens engaged in improving public safety and liveability			23/09/2028						x
Output O5.3	Stakeholders supported to increase their technology acceptance			23/09/2028						x
Output O5.4	Demo Corners created			23/09/2028						x
Investment I5.1	Equipment for Demo Corners			30/09/2028						x

Work package 6 Creating the data foundation of Heerlen's Social Digital Twin: PULSE Data Warehouse and AI-powered PULSE Data Engine									
Activity A6.1	Establishing co-development frameworks for core innovation solutions (PULSE-DW, PULSE-DE, PULSE-SDT)	01/10/2025	31/12/2025						
Deliverable D6.1.1	Formation and kickoff of tech development team for PULSE-DW, PULSE-DE and PULSE-SDT			30/11/2025	x				
Deliverable D6.1.2	Joint ambitions set for technological solutions development			31/12/2025					
Activity A6.2	Building the PULSE Data Warehouse and Data Integration	01/12/2025	31/03/2028						
Deliverable D6.2.1	Technical Manual on Data Quality for Data Integration into PULSE Data Warehouse			28/02/2026	x				
Deliverable D6.2.2	Initial set of data migrated to PULSE Data Warehouse			31/05/2026		x			
Deliverable D6.2.3	Data pool expansion of PULSE Data Warehouse			31/03/2028			x	x	x
Activity A6.3	Technical development and testing of AI-powered PULSE Data Engine	01/04/2026	30/09/2028						
Deliverable D6.3.1	PULSE Data Engine architecture and user interface design			30/06/2026		x			
Deliverable D6.3.2	AI-powered PULSE Data Engine features			31/12/2026					
Deliverable D6.3.3	PULSE Data Engine testing			30/09/2028					
Activity A6.4	PULSE Data Engine User Onboarding	01/10/2026	30/06/2028						
Deliverable D6.4.1	PULSE Data Engine Users' Manual			31/10/2027				x	
Deliverable D6.4.2	PULSE Data Engine Training material			29/02/2028				x	
Deliverable D6.4.3	Training of PULSE Data Engine users			30/06/2028					x
Activity A6.5	Transfer into Practice: Integration and Monitoring of the PULSE Data Warehouse and Data Engine	01/02/2027	30/09/2028						
Deliverable D6.5.1	Updated workflows for the use of PULSE Data Warehouse and Data Engine			29/02/2028					
Deliverable D6.5.2	PULSE Data Warehouse and Data Engine Ongoing monitoring and model alignment framework			30/09/2028					x
Output O6.1	Stakeholders engaged in the development of joint ambitions for technology development			30/12/2025					
Output O6.2	PULSE Data Warehouse (PULSE-DW)			28/03/2028	x	x	x	x	
Output O6.3	PULSE Data Engine (PULSE-DE)			27/09/2028	x	x	x	x	x
Output O6.4	Trained professionals on the use of the PULSE Data Warehouse and Engine			27/06/2026	x				
Work package 7 Development of Heerlen's Social Digital Twin for urban safety and livability									
Activity A7.1	Co-Development and testing of the Prototype of the Social Digital Twin	01/07/2026	30/09/2028						

Deliverable D7.1.1	PULSE Social Digital Twin design and specifications		30/04/2027		x			
Deliverable D7.1.2	Co-developed PULSE Social Digital Twin User Interface and User Access rights		31/03/2027					
Deliverable D7.1.3	PULSE Social Digital Twin testing		30/09/2028					x
Activity A7.2	Social Digital Twin User Onboarding	01/04/2027	30/09/2028					
Deliverable D7.2.1	PULSE Social Digital Twin Online Users' Guide and video tutorials tailored to user groups		31/03/2028					
Deliverable D7.2.2	PULSE Social Digital Twin Integrated Online Helpdesk		30/09/2028		x	x		x
Deliverable D7.2.3	PULSE Social Digital Twin User training framework		30/06/2028					x
Activity A7.3	Transfer into Practice: Integration, Monitoring, and Use Cases of the PULSE Social Digital Twin	01/07/2027	30/09/2028					
Deliverable D7.3.1	Update of workflows to incorporate the use of the PULSE Social Digital Twin		31/10/2027					
Deliverable D7.3.2	PULSE Social Digital Twin Ongoing monitoring and model alignment framework		30/09/2028					x
Deliverable D7.3.3	Collection of Use Cases for the PULSE Social Digital Twin		30/06/2028					x
Output O7.1	PULSE Social Digital Twin (PULSE-SDT)		26/09/2028					x
Output O7.2	Trained professionals on the use of the PULSE Social Digital Twin		26/06/2028					x
Work package 8 Development and testing of SDT data background-driven applications to enhance urban safety and liveability								
Activity A8.1	Establishing co-development structures for PULSE SDT data-driven tech solutions	01/10/2025	31/03/2026					
Deliverable D8.1.1	Formation and kickoff of development teams for the PULSE-SDT data-driven applications		31/12/2025		x			
Deliverable D8.1.2	Spatial Lab for development and testing set up in BSSC		31/03/2026		x			
Activity A8.2	Co-Development and testing of the PULSE-SDT data-driven AI Copilot	01/04/2027	30/09/2028		x	x		x
Deliverable D8.2.1	Co-Development of PULSE-SDT data-driven AI Copilot prototype		30/09/2027					
Deliverable D8.2.2	AI Copilot testing		30/09/2028					
Deliverable D8.2.3	Transfer into Practice: Integration and Monitoring and Model Alignment Framework of the AI Copilot		30/09/2028					
Activity A8.3	Co-development and testing of the Safety Module of the Heerlen App	01/07/2026	30/09/2028		x	x	x	x
Deliverable D8.3.1	Co-design and development of the Safety Module of the Heerlen App		31/03/2027					

Deliverable D8.3.2	Testing the Safety Module of the Heerlen App		30/09/2028				
Deliverable D8.3.3	Monitoring and Model Alignment Framework of the Safety Module of the Heerlen App		30/09/2028				
Activity A8.4	PULSE Community Challenge for PULSE-SDT data-driven community-led solutions	01/04/2027	30/09/2028				
Deliverable D8.4.1	Ideation with citizens and stakeholders for the PULSE Community Challenge		31/07/2027				
Deliverable D8.4.2	PULSE Community Challenge - Grant scheme		31/01/2028		x		
Deliverable D8.4.3	Developed and tested prototypes of the granted solutions		30/09/2028				x
Activity A8.5	Looking ahead to the Future	01/07/2028	30/09/2028				
Deliverable D8.5.1	Upscaling and Rollout Vision of the innovative solution		31/08/2028				x
Deliverable D8.5.2	Summary of the transferable Innovative Solution		30/09/2028				x
Output O8.1	AI Copilot		25/09/2028		x	x	x
Output O8.2	The Safety Module of the Heerlen App		25/09/2028	x	x	x	x
Output O8.3	PULSE-SDT data-driven Community Challenge solutions		25/09/2028				x
Output O8.4	Trained professionals on the use of the AI Copilot		26/10/2027				x
Output O8.5	Spatial Lab		29/03/2026				x
Investment I8.1	Spatial Lab' facility to support the development and testing of the PULSE Social Digital Twin data-based applications of the Community Challenge (A8.5).		31/03/2026	x			
Work package 9 Transfer							
Activity A9.1	Coordination of the transfer cooperation	01/03/2026	31/03/2029				
Activity A9.2	Knowledge exchange and peer to peer learning	01/03/2026	31/03/2029				
Activity A9.3	Formulation of the frameworks for the transfer of innovative solution	01/03/2026	31/03/2029				
Output O9.1	EUI - Innovative Solution Model		31/03/2029				
Output O9.2	Replication Feasibility and Opportunity Study		31/03/2029				
Work package 10 Closure							
Activity A10.1	Closure	01/04/2029	30/06/2029				
Deliverable D10.1.1	Drafting and submission of the final Annual Progress Report (APR4)		30/04/2029				
Deliverable D10.1.2	Preparation and submission of final Financial Claim (FC2)		30/06/2029				

Deliverable D10.1.3 Preparation and submission of the Final
Qualitative Report (FQR)

30/06/2029