SPACE 4Cities

SPACE4Cities Call for Replicator Cities
Annex B - Selected Solution Briefs

Information for applicant cities and regions

This project has received funding from the European Union for the Space Programme Agency (EUSPA) via the Horizon Europe research and innovation programme under grant agreement No. 101131955.

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About this Document

Purpose of this annex. This annex provides short descriptions of the five SPACE4Cities solutions available for the Replicator Cities call. Applicants should use it to identify the single solution that best matches their local challenge, end users and current workflow. Each application should focus on one selected solution only.

Information sources. The briefs preserve the pilot framing from the Replicator Call Manual and are enriched with selected information from the SPACE4Cities Innovation Catalogue. Demo video links are included as placeholders and should be replaced with the relevant webinar recording or timestamp before publication.

SPACE4Cities Phase 3 Supplier Presentations

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Suppliers and Solution participating in SPACE4Cities Phase 3

Solution	Main theme	Selected supplier(s)	Buyer-group pilot city
CHERISH	Cultural heritage and asset risk monitoring	eOnsight	Helsinki, Finland
CityMotion	Infrastructure monitoring and maintenance risk detection	Detektia	Ghent, Belgium
CLIMAPS	Climate and environmental risk mapping and scenario modelling	Latitudo 40, Planetek Italia, TeamDev	Amsterdam, Netherlands
DYNAMO-SM	Traffic emissions and air quality monitoring	Everimpact	Athens, Greece
VISTA	Green space monitoring and climate resilience	BitaGreen, Climate Scale, TreeSense	Guimarães, Portugal

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CHERISH - Cultural heritage site monitoring

Supplier: eOnsight | Buyer-group pilot: Helsinki, Finland

CHERISH is a satellite-based monitoring solution for cultural heritage assets and other sensitive urban infrastructure. It uses radar satellite data, including Copernicus Sentinel-1 and European Ground Motion Service information, to detect ground deformation and translate it into asset-level risk indicators for city teams.

- **Best fit:** cities with heritage buildings, historic districts, religious assets, monuments or infrastructure exposed to subsidence, settlement or ground movement.
- **City users:** heritage, asset management, infrastructure, urban planning and resilience teams that need to prioritise inspections and preventive maintenance.
- **Pilot value:** supports a shift from reactive maintenance to preventive, evidence-based monitoring by showing where risks concentrate and which assets may need attention first.
- **Implementation notes:** web-based SaaS dashboard with optional API integration; can work with GIS and asset-management data where available.

Further information: eOnsight website | Demo video (timestamp 01:07:35)
Innovation Catalogue: CHERISH, pp. 10-13.

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CityMotion - AI agents for urban stability and infrastructure

Supplier: Detektia | Buyer-group pilot: Ghent, Belgium

CityMotion is designed for proactive monitoring of ground and infrastructure behaviour at city scale. It uses satellite InSAR deformation monitoring to identify millimetric ground movement without physical sensors, then makes the results available through an API-first platform that can connect with GIS, BIM, digital twins and other city datasets.

- **Best fit:** cities or regions with infrastructure, mobility corridors, buildings or public spaces exposed to ground movement, subsidence, flooding-related instability or complex construction conditions.
- **City users:** infrastructure, mobility, urban planning, resilience and civil protection departments responsible for inspection planning and maintenance prioritisation.
- **Pilot value:** combines deformation indicators with AI-assisted interpretation, including natural-language interaction, to help non-specialist city staff identify anomalies, trends and early risks.
- **Implementation notes:** local data are optional but useful, for example cadastral, asset or maintenance datasets; APIs support integration with city data platforms.

Further information: Detektia website | Demo video (timestamp 00:10:10)
Innovation Catalogue: CityMotion, pp. 14-17.

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CLIMAPS - Climate and environmental risk intelligence

Suppliers: Latitudo 40, Planetek Italia, TeamDev | Buyer-group pilot: Amsterdam, Netherlands

CLIMAPS is an urban climate intelligence platform for monitoring and modelling climate and environmental risks such as heat islands, flooding, biodiversity loss and soil sealing. It combines Copernicus and IRIDE satellite data with AI, environmental modelling and scenario tools to create dynamic risk maps and support climate adaptation planning.

- **Best fit:** cities seeking practical insights for climate adaptation, environmental risk mitigation, nature-based solutions, flood-risk planning or heat-risk management.
- **City users:** urban planners, environmental officers, GIS teams, infrastructure managers, emergency responders, sustainability teams and municipal policy leads.
- **Pilot value:** helps cities move from static risk mapping to scenario-based planning, including testing potential interventions such as greening measures, land-use changes or flood mitigation actions.
- **Implementation notes:** designed around open standards and interoperability; relevant local data may include land use, green assets, drainage networks, weather or air-quality stations.

Further information: Latitudo 40 | Planetek Italia | TeamDev | Demo video (timestamp 00:07:28)

Innovation Catalogue: CLIMAPS, pp. 18-21.

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DYNAMO-SM - Traffic emissions and air quality monitoring

Supplier: Everimpact | Buyer-group pilot: Athens, Greece

DYNAMO-SM is a space-enabled, AI-first solution for near-real-time greenhouse gas emissions and air quality monitoring. It combines satellite-based CO2 monitoring, ground sensors, video analytics and AI-based modelling to help cities move from estimated emissions inventories to measured, verifiable and source-allocated emissions intelligence.

- **Best fit:** cities working on traffic emissions, low- or zero-emission zones, logistics hotspots, public-space use, mobility planning, climate reporting or air quality strategies.
- **City users:** climate, sustainability, mobility, air quality and transport teams, as well as regional authorities and public infrastructure operators managing emissions or climate reporting.
- **Pilot value:** supports identification of emissions hotspots, attribution to specific activities or modes, and assessment of climate-action impacts with high spatial and temporal resolution.
- **Implementation notes:** can be deployed without integrating local administration data and is designed to be interoperable with existing urban data systems.

Further information: Everimpact website | Demo video (timestamp 02:31:35)
Innovation Catalogue: DYNAMO-SM, pp. 22-25.

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VISTA - Green areas and biodiversity management

Suppliers: BitaGreen, Climate Scale, TreeSense | Buyer-group pilot: Guimarães, Portugal

VISTA supports monitoring, maintenance and planning of urban green spaces. It combines satellite imagery, local climate forecasts and real-time tree or vegetation sensor data to provide actionable insights on vegetation health, water stress, maintenance needs, biodiversity and climate resilience impacts.

- **Best fit:** cities managing large areas of parks, trees, green corridors or nature-based infrastructure, especially where climate stress, irrigation needs or maintenance prioritisation are important.
- **City users:** environmental officers, parks and green-space teams, urban planners, climate adaptation managers and maintenance departments.
- **Pilot value:** helps cities shift from reactive to predictive green infrastructure management, including early warnings on vegetation stress, smarter irrigation and evidence for ecosystem-service and resilience benefits.
- **Implementation notes:** cloud-native SaaS; cities can upload tree inventories in CSV or GeoJSON and integrate with municipal GIS or digital twins through OGC APIs.

Further information: BitaGreen | Climate Scale | TreeSense | Demo video (timestamp 01:34:03)
Innovation Catalogue: VISTA, pp. 42-45.