



Engagement

City Wellness: Elevating Urban Wellness with AI-Powered Tools Built on Available Databases

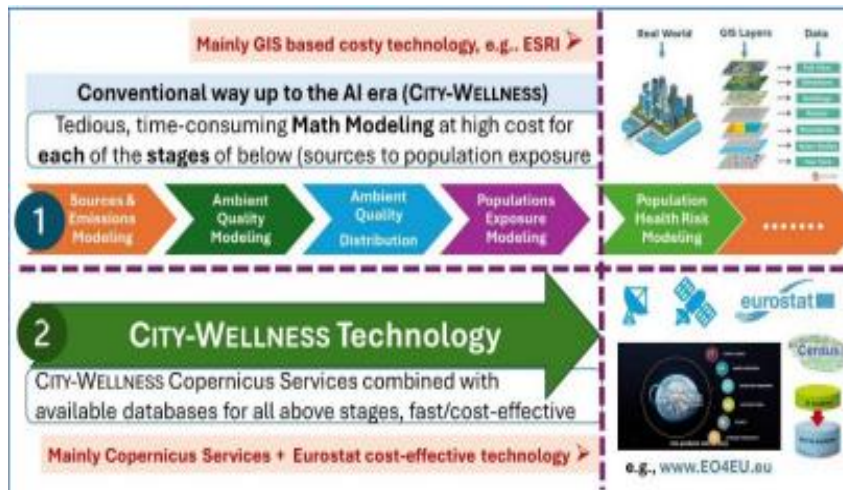
Countries	Project value (€)	% by EPSILON	€ by EPSILON	Engagement	Funding by	Date	Partners
Malta	5,096,487.50	7.97%	406,250	Tender	HORIZON-MISS-2024-CIT-01-02	11 February 2025	

Description

CITY-WELLNESS proposed the development of a globally scalable, AI-powered Software-as-a-Service (SaaS) platform to support urban decision-makers in implementing zero-pollution strategies. Building upon Horizon 2020 NetZeroCities and EO4EU technologies, the platform integrates environmental monitoring, health risk assessment, and socio-economic indicators into a City Digital Twin (CDT) and a City-Wellness Index (CIWI).

Using only publicly available datasets (e.g., Copernicus, Eurostat, Google, utilities), the system deploys real-time pollution mapping, multi-objective optimization for mitigation, and predictive health analytics. It enables scenario-based planning and is supported by a user-centric chatbot and augmented/extended reality (AR/XR) interfaces. The methodology is validated through pilot applications in over 25 global cities, including Athens, Toronto, and Christchurch.

EPSILON led the proposal's coordination, contributing to digital platform architecture, AI model integration, and validation strategy design. The company also oversaw the exploitation framework through the establishment of a commercialization cluster (EEIG), ensuring the post-project scalability toward 1,000+ city adoptions by 2035.



Outcome

- Aimed at delivering a cloud-based CDT platform integrating pollution, health, and mobility datasets
- Proposed to develop real-time AI monitoring tools and City-Wellness Indices (CIWI-ENV/GLO)
- Offered to conduct pilot demonstrations in 25+ cities globally
- Suggested to produce policy scenarios and digital tools enabling a 20% projected reduction in PM2.5 and NO₂
- Offered to engage civil society through stakeholder workshops and citizen science initiatives
- Proposed to establish an EEIG and Living Lab framework for long-term commercialization
- Recommended to enable scalable replication of zero-pollution solutions across EU, Canada, Asia, and NZ

CITY-WELLNESS

