

AI-Powered GIS, Digital Twin and Intelligent Asset Management

From knowing where assets are, to understanding their condition, predicting problems and orchestrating the actions needed to manage them.



GIS & ASSETS



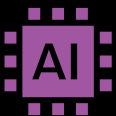
BUILDINGS & BIM



IoT SENSORS



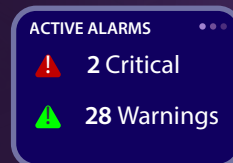
MAINTENANCE



AI & PREDICTIONS



DOCUMENTS & KNOWLEDGE



DIGITAL TWIN

REAL-TIME DATA

PREDICTIVE AI

WHAT-IF
SIMULATIONS

AGENTIC AI

WHAT SNAP4ASSET CAN DO?

Snap4Assets combines **GIS, Asset Management, IoT, Business Intelligence, Artificial Intelligence, Digital Twin** and optionally **Agentic AI capabilities** (to colloquial interface and automation of problem solution production) in a single integrated environment, giving city managers and operators a complete, location-based and data-driven view of buildings, infrastructure, equipment and services. Instead of simply showing where assets are located. **Snap4Assets** helps cities understand **what they are, who is responsible for them, how they are being used, what their current condition is, what is changing, what may happen next — and what actions or analyses should be performed to support a decision.**

Snap4Assets creates a unified operational environment connecting: **Places, Buildings, Rooms, Assets, People, Documents, IoT, Operational Data, Business Intelligence, AI, and AI Agents.** City managers can move seamlessly from a city-wide overview to individual sites, buildings, floors, rooms and assets, combining geographic information with operational and management data.

01

LOCATE

Where is the asset?

Navigate from territory to site, building, floor, room and individual asset using GIS, 2D/3D Digital Twins and BIM.



02

UNDERSTAND

What is it and what is connected to it?

Access technical data, responsible persons, documents, photos, sensors, maintenance history and related assets.

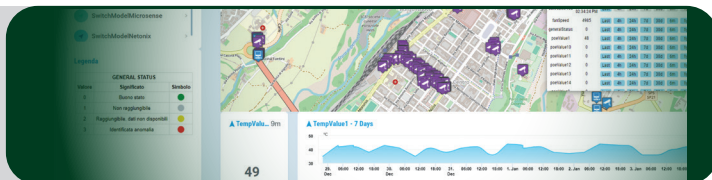


03

MONITOR

What is happening now?

Monitor real-time status, operational variables, historical trends, alarms and asset health.

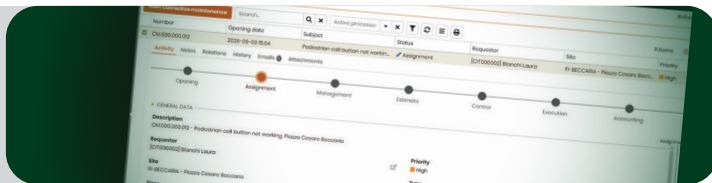


04

MAINTAIN

What needs to be done?

Manage preventive and corrective maintenance, tickets, interventions, suppliers, materials and contracts.

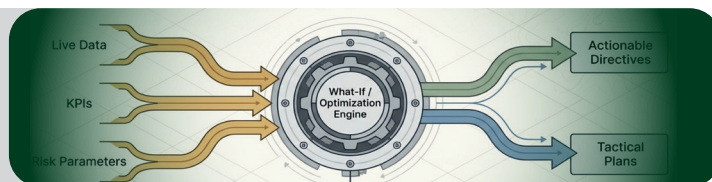


05

PREDICT

What could happen next?

Use AI to detect anomalies, predict asset health and failures, assess risk and prioritize interventions.

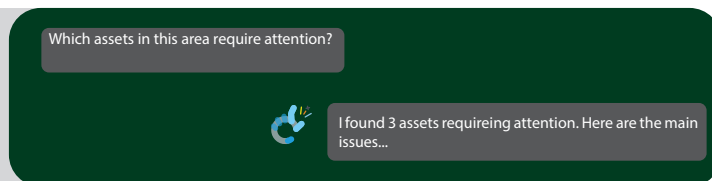


06

ASSIST

Ask your assets. Get answers.

SnapAdvisor explains alarms, retrieves documents and procedures, and support your decisions.



Snap4Asset turns fragmented asset informaton into a continuously updated **Digital Twin** connecting geography, assets, buildings, IoT, maintenance, documents and Agentic AI in one operational environment.

FROM ASSET REGISTRY TO INTELLIGENT OPERATIONS

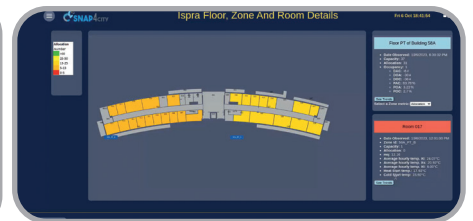
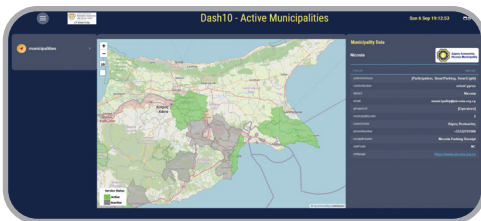
GIS, BIM, IoT, Agentic AI in one Digital Twin

Snap4Assets transforms heterogeneous city data into **actionable Business Intelligence**. Interactive dashboards can combine maps, KPIs, historical trends, statistics, alarms, asset information and operational indicators, enabling managers to monitor performance and identify priorities from a single environment.

The **Snap4Assets** includes capabilities for **visual analytics, Business Intelligence, statistics, simulations, optimization, predictions and anomaly detection**, allowing the same integrated data environment to support both daily operations and strategic decision-making.

The **Snap4Assets** with Agentic AI (SnapAdvisor Copilot) allows to AI exploiting wider set of tools and microservices ecosystem, and also answering on demand to new and not programmed responses and KPIs.

Snap4Assets may be provided of **Artificial Intelligence and advanced analytics** in addition to traditional GIS and asset-management capabilities to perform: **Prediction, Anomaly Detection, Classification, Clustering, Optimization, Simulation, Risk Analysis, What-if Analysis, and Decision Support.**



SnapAdvisor Copilot can integrate information from existing **platforms, asset registries, databases, IoT systems, document-management platforms and municipal applications**, creating a unified operational environment while authoritative information remains managed by the appropriate source systems.

SNAPADVISOR - YOUR AGENTIC AI ASSISTANT FOR SMARTER CITY



We have received some alarms for anomalies.
Which critical assets in this site require attention?

SnapAdvisor

I identified 1 asset required attention. I correlated real-time sensor data, alarms, historical trends, maintenance records and technical documentation.

1. Sensor T-34: No valid measurements have been received for 6 hours. The maintenance history indicates recurrent communication issues.

Recommended action: check connectivity before replacing the sensor

**VIEW
ASSET**

**OPEN
PROCEDURE**

**PREPARE
INTERVENTION**



From data to action

- ☒ Detect anomalies
- ☒ Explain probable cause
- ☒ Recommend actions
- ☒ Evaluate scenarios (What-if)
- ☒ Support authorised workflow

ONE CITY. ONE PLATFORM. MANY INTELLIGENT SERVICES.



OPEN

Open Source & Interoperability



SCALABLE

Multiple cities, tenants and verticals



SECURE

RBAC, cybersecurity & GDPR compliance



FLEXIBLE

Cloud, SaaS and on-premise deployment

TRUSTED BY

Cyprus Ministry, Ispra EC JRC, CN MOST, Cuneo, Merano, Nicosia, Paralimni-Deryneia, Ayia Napa, Strovolos, Lakatameia, Latsia-Geri, Larnaca, ... and many more...



Discover more:

<https://www.snap4city.org/1175>

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