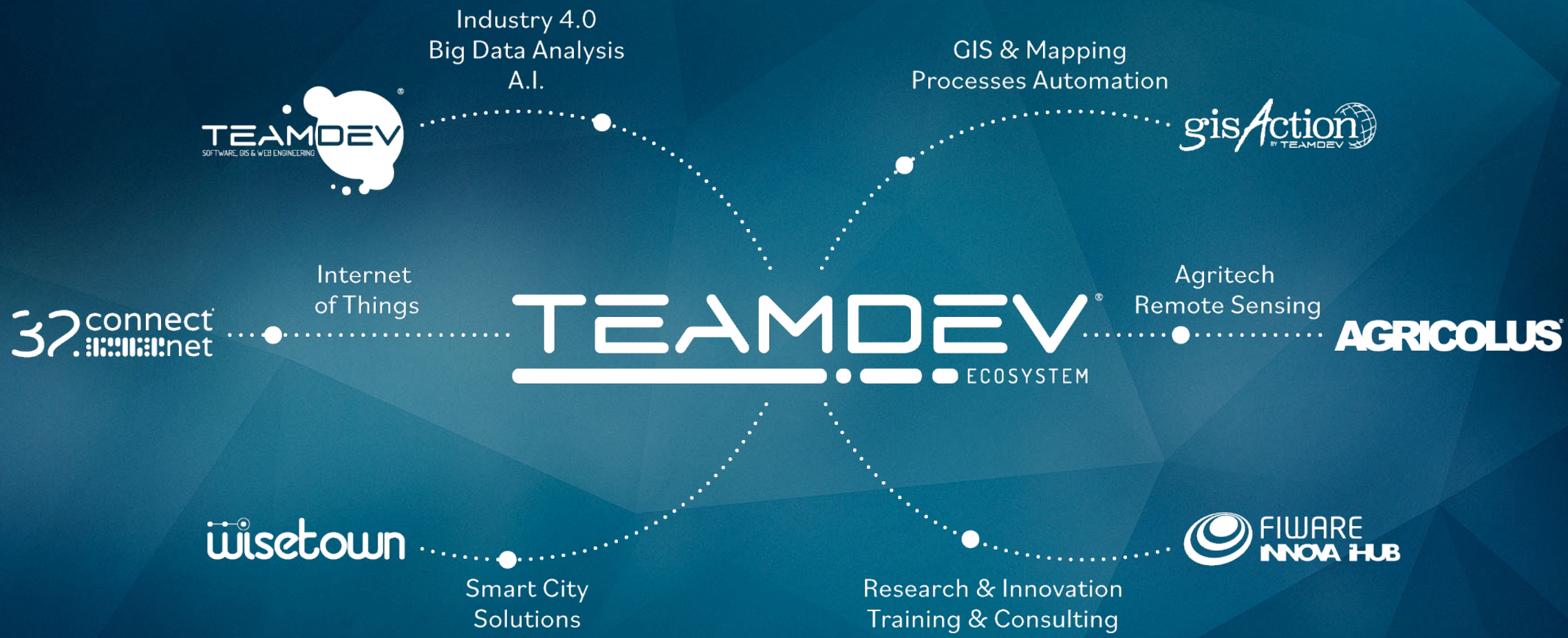
wisetown

Become a smart city, today

wise.town


Industry 4.0
Big Data Analysis
A.I.
TEAMDEV
SOFTWARE, GIS & WEB ENGINEERING
GIS & Mapping
Processes Automation
gisAction
BY TEAMDEV
32connect
net
Internet
of Things
TEAMDEV
ECOSYSTEM
Agritech
Remote Sensing
AGRICOLUS
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Smart City
Solutions
Research & Innovation
Training & Consulting
FIWARE
INNOVA HUB

International industrial research

Horizon 2020
European Union Funding
for Research & Innovation

IOF 2020

WATERAGRI

AgriBIT

demeter

European Commission
Horizon Europe
2021-2027

VALPRO path.

TITAN

Farmtopia

DOME

Clever

eit Food

esa
European Space Agency

eit Digital

FI-WARE

TEAMDEV ECOSYSTEM

.innovative value

WiseTown

1. Integrated suite of applications within a unified Digital Twin Platform for data analysis, correlations, and simulations.
2. Modular and scalable infrastructure that makes the platform adaptable to both small and large municipalities.
3. Some modules are developed to encourage active citizen engagement in the decision-making process and in the care of the territory.

.SDGs

Towards sustainable cities

Analysis and monitoring of the environment and climate change

Supporting a new citizen-centered urban planning

Designed to make cities inclusive and safe

The digitalization is a driving force behind the green transition of the cities

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.data integration

WiseTown Core DB

The core database integrates open data from various sources:

Satellite Data

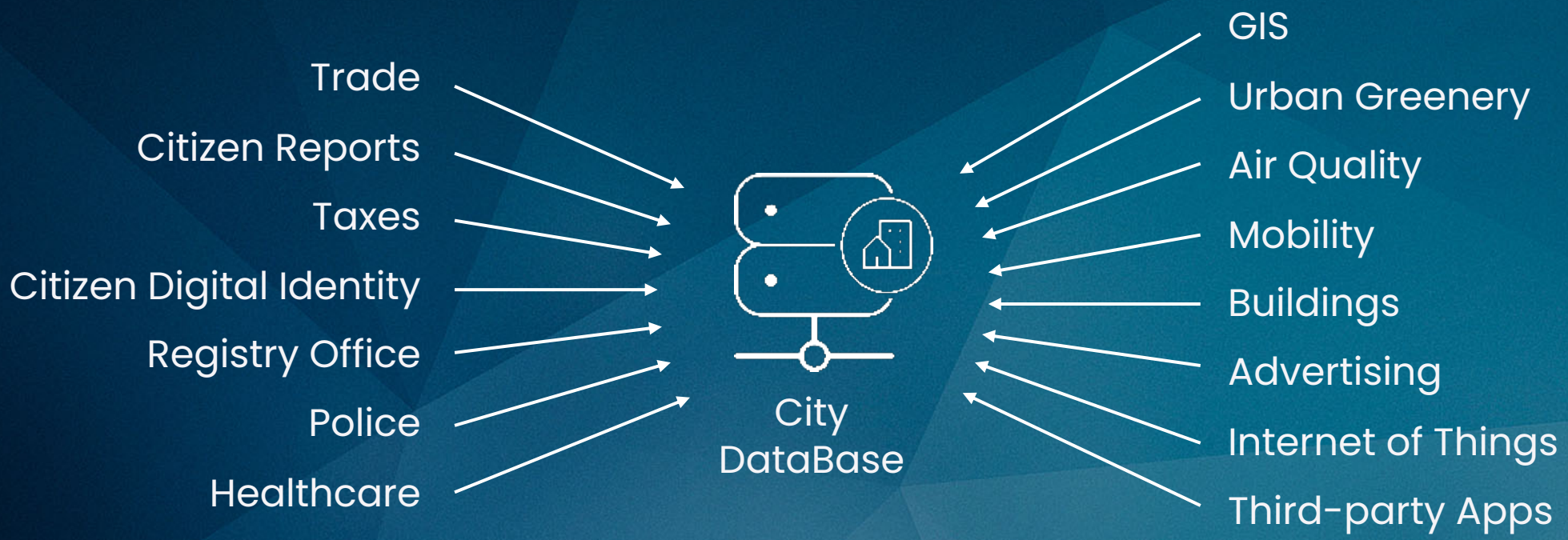
National Statistical Institute

Regional Environmental Protection Agency Weather

Other Open Data

.data integration

City DataBase

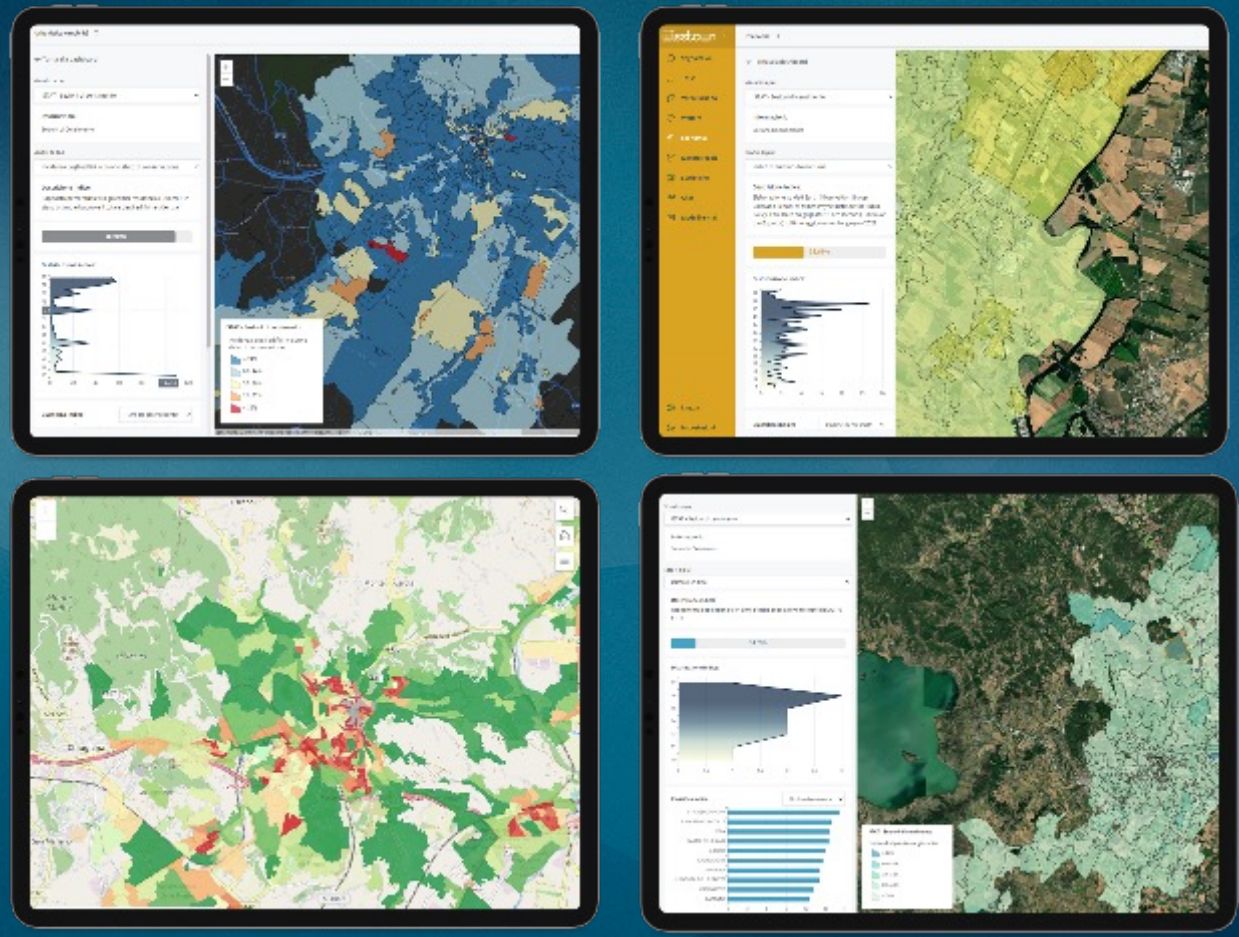


.insights

Urban Dashboards

Fields

- Urban greenery
- Urban planning and mobility
- Welfare
- Tourism
- Climate change



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.analysis & visualization

Indexes & AI

- Youth
- Tourism
- Green Areas (NDVI)
- Social Economy
- Quality of Life
- Population
- Pollution
- Land Consumption
- Air Quality
- Security
- Urbanization

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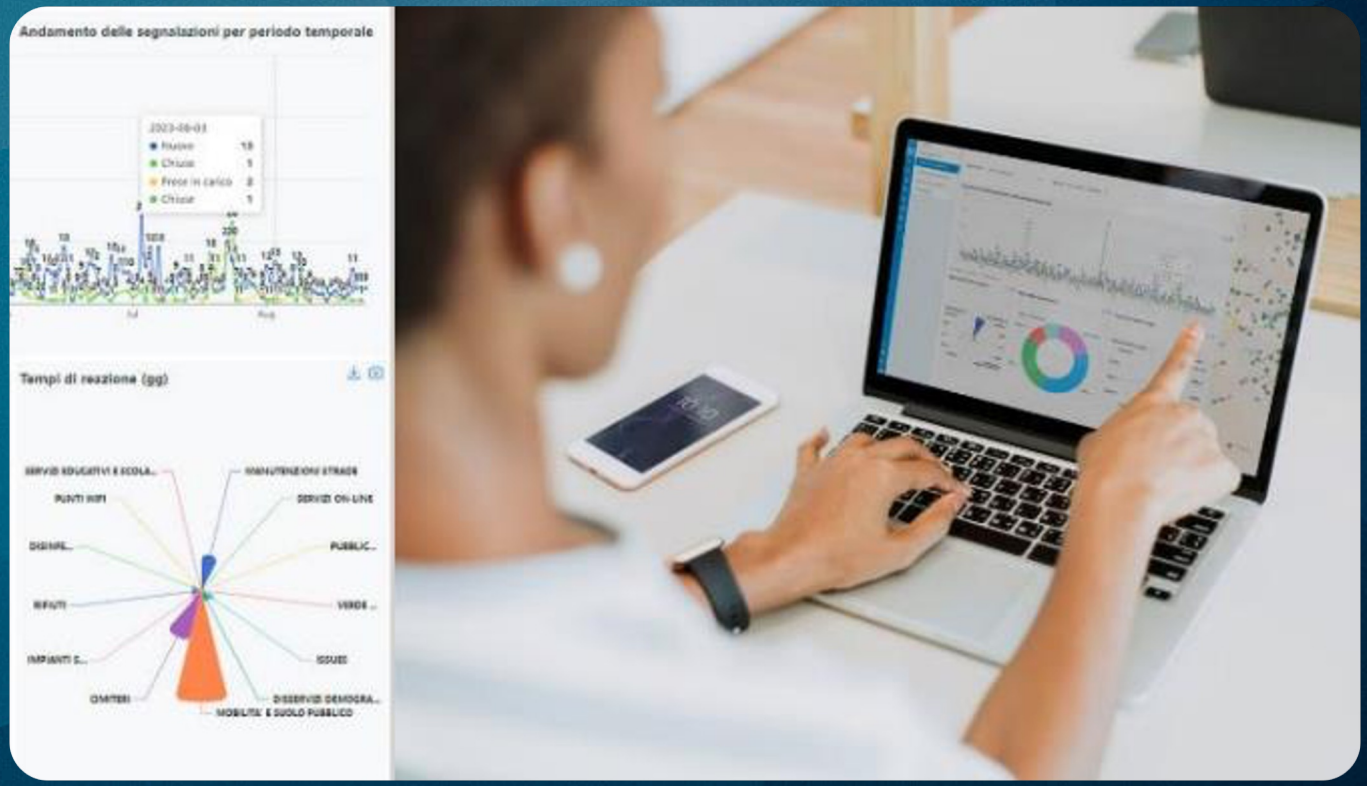
.reporting management

Issue Manager®

- Collection and Monitoring of reports
- Harmonization of operational flows
- Management of internal processes
- Operational task assignment



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Citiverse

- Virtual representation of the city
- Simulation and analysis in risk-free virtual environments
- Decision support based on both truthful and accuracy
- Analysis of large volumes of geospatial data to identify patterns and trends

•participatory planning

Crowd Planning®

> WiseTown Crowd Planning is the technology that supports **participatory development**

- Easy sharing of projects
- Enhanced transparency
- Comprehensive insight into citizens' needs and demands

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Potential of the Digital Twin

The city seen through different perspectives

Decision-makers

- Control Room and statistics
- Urban Dashboard
- Digital Twin 3D
- Sustainability indexes

Operators

- Management of reports
- Urban planning
- Data collection
- Monitoring
- KPI sustainability

Citizens

- App for Citizens
- Dashboard for citizens
- Multichannel communication
- KPI for virtuous behavior

.use case

Municipality of Perugia

What

Building a digital and interoperable infrastructure to optimize the city's administrative system.

How

Geographic Information System: migration of over 50 modules into a single environment

Land survey campaigns using mobile mapping, drones, and georadar tools

Development of the city's digital twin for visualization, analysis, and simulations aimed at promoting data-driven governance

.Perugia

PERUGIA DIGITAL TWIN

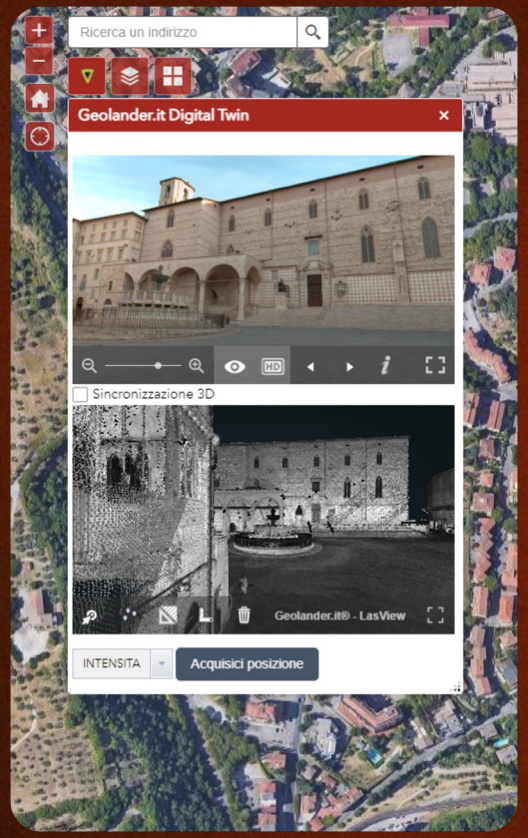
.Perugia

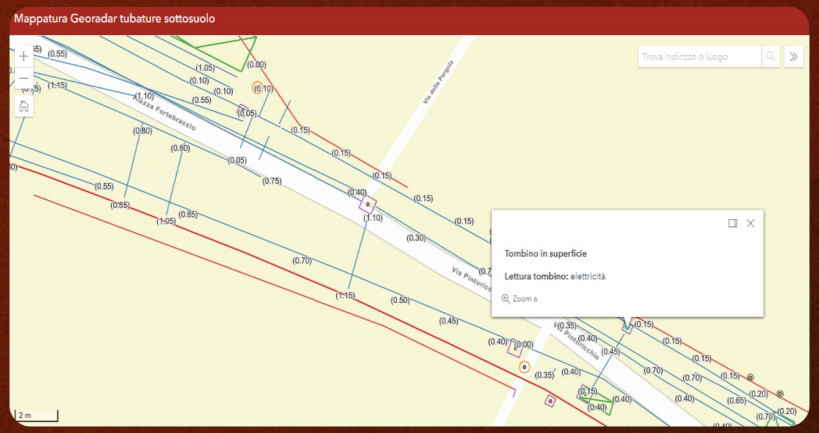
Geographic Information System

Data transition to the ArcGIS platform

- Demographics
- Renewable sources
- Urban planning
- Cadastre
- Tax services
- Greenery
- Public lighting
- Acousting mapping
- Radio-electric system
- Perimeter office
- General urban development plan
- Environment

.Perugia





310.000
Hight resolution images of Perugia

613 GB
Point cloud size

1.100 km
Mapped roads

8 TB
Collected data

5,2 km
Surveying using an electric scooter

Perugia Digital Twin

- A realistic representation of the territory with activatable informative layers.
- Enables exploration of the virtual city, simulation of situations, and conducting queries.
- Provides real-time insight into the urban environment, including traffic data, parking availability, pollution levels, weather conditions, and many other data layers.

.use case

Municipality of Parma

What

The Parma Digital Twin project stems from Geolander.it's dedication to implementing initiatives in digital innovation and urban governance, closely collaborating with WiseTown.

How

Land survey campaigns, construction of the 3D virtual model, and integration of municipal data into the model

Creation of advanced platforms and dashboards to enable meaningful correlations and analysis

Data democratization: integration, visualization, and analysis of data for all stakeholders

Parma Digital Twin

- Based on a 2D or 3D model of the city, the system provides the capability to visualize and query urban data.
- Urban dashboards on green spaces and welfare for visualization and analysis of open data and municipal data
- For a comprehensive understanding of the city and effective decision-making

.Parma

396.734
Hight resolution images of Parma

2.341.075.721
Point cloud size

1.215 km
Mapped roads

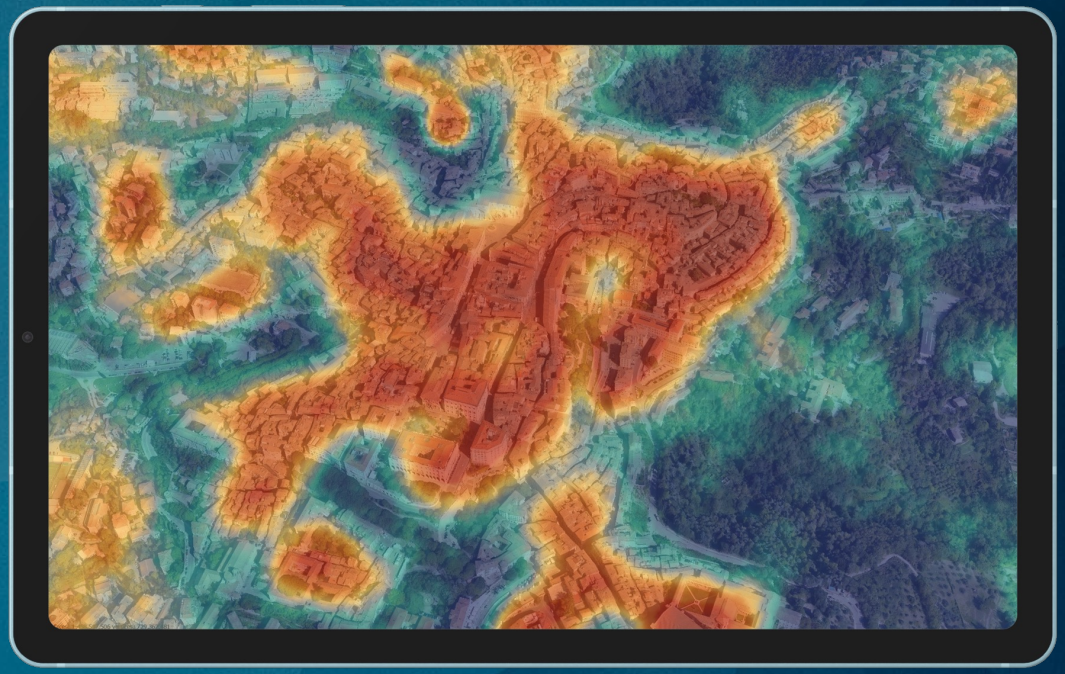
5 TB
Collected data

•R&D project

EVOLUTION

- Project objective: mitigation of urban heat islands (UHI), reduction of atmospheric pollutants, and decarbonization
- Use of advanced urban simulation algorithms validated in the following Italian pilot cities: Naples, Catania, Parma and
- Perugia.

Research project led by the R&D Department of WiseTown, Latitudo, University of Parma, University of Perugia.



•stories

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OBJECTIVE

Providing the city with a tool in order for public authorities to manage a massive event with a limited number of staff

HOW

Using the Situation Room module to collect data from different sources (e.g. IoT, web, social media)

Exploit the digital twin paradigm to visualize on a map aggregated and real time data related to the ongoing situation

Giving a solution which facilitates a quick implementation of operational decisions

•stories

OBJECTIVE

Improve urban security management identifying perceived insecurity and building solidarity mechanisms in the community

HOW

Providing citizens with an app to report threatening situations or suspicious behavior to security officials

Attaching information about the type of a critical issue and the location of the report to enable immediate action by security officers

Providing safety managers with an analysis tool in order to identify problems and provide solutions

Customers

Comune di Perugia

Regione Umbria

eurochocolate
International Chocolate Exhibition

Comune di Narni

Comune di San Fermo della Battaglia

Comune di Calcinato

Comune di Todi

Comune di Monte Castello di Vibio

Comune di Spoleto

.partners

Our Partners

Microsoft Gold Partner

FIWARE

esri Partner Network Silver

BDV BIG DATA VALUE ASSOCIATION

SAIHUB SIENA ARTIFICIAL INTELLIGENCE HUB

Smart COMMUNITIES Tech

eht

Space Cooperative Europe SCE² The Co-Innovation Space Hub

ASSINTEL ASSOCIAZIONE NAZIONALE IMPRESE ICT

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https://wise.town

WiseTown

WiseTownSolution

WiseTownProject