

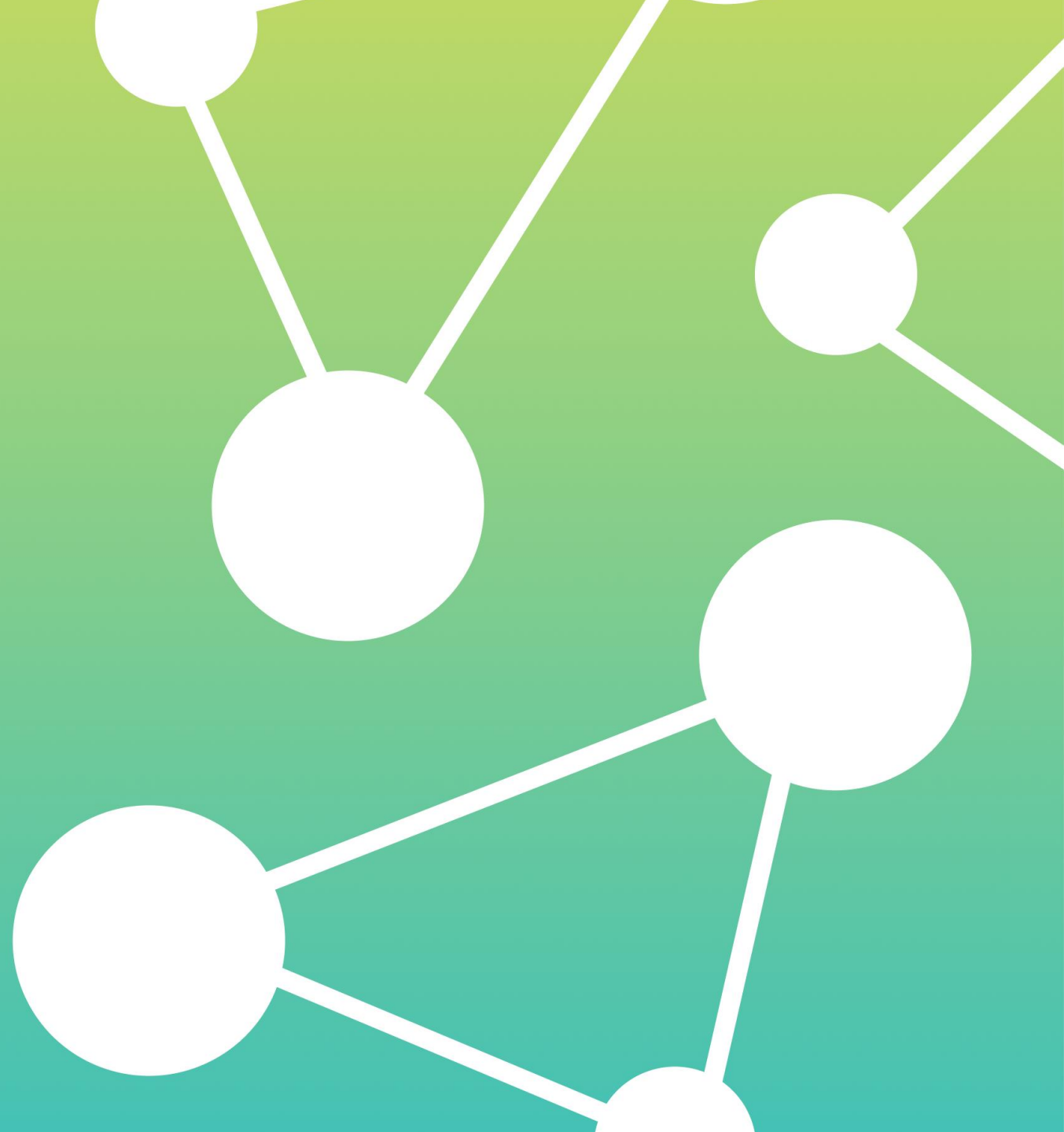


GovTech Connect

Transforming Government, Together



Latitudo 40 Presentation



Key Info

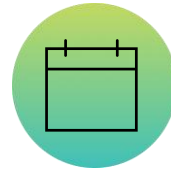


Latitudo

<https://www.latitudo40.com/>



Naples, Italy



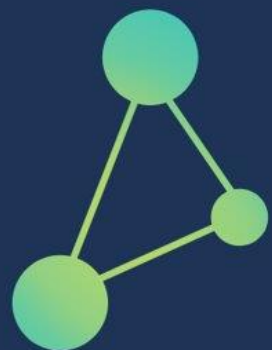
2017



13 People



Gaetano Volpe, Mauro
Manente, Vincenzo Vecchio
Donato Amitrano



GovTech Connect Boot Camps

With the support of:



European
Commission

Event in collaboration with:



AI4GOV

Welcome to Pitch Day



intellera
consulting

PUBLIC

theLisborcouncil
think tank for the 21st century

 POLITECNICO
MILANO 1863
DIPARTIMENTO DI DESIGN

**OUR CITIES ARE ON THE FRONTLINE OF
CLIMATE CHANGE.
HOW CAN WE DESIGN THEM TO BE MORE
RESILIENT AND SUSTAINABLE?**

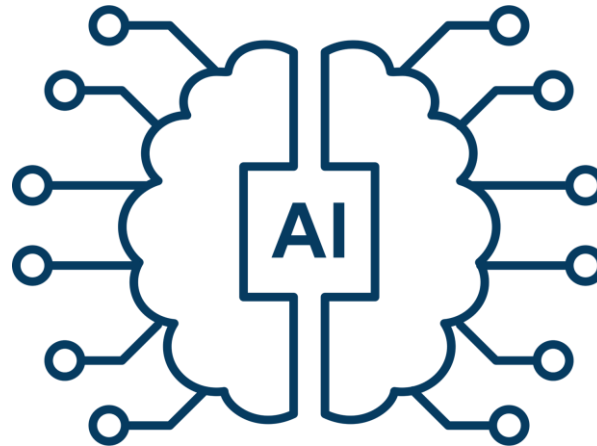
OUR SOLUTION

The first **Environmental Operative System** to design **cognitive cities/places** of the future

DATA FROM SPACE
(REMOTE SENSING)



ARTIFICIAL
INTELLIGENCE



GEOSPATIAL
SIMULATION



Designed to **ensure** that decision-makers can **grasp** and **act** quickly on our insights.

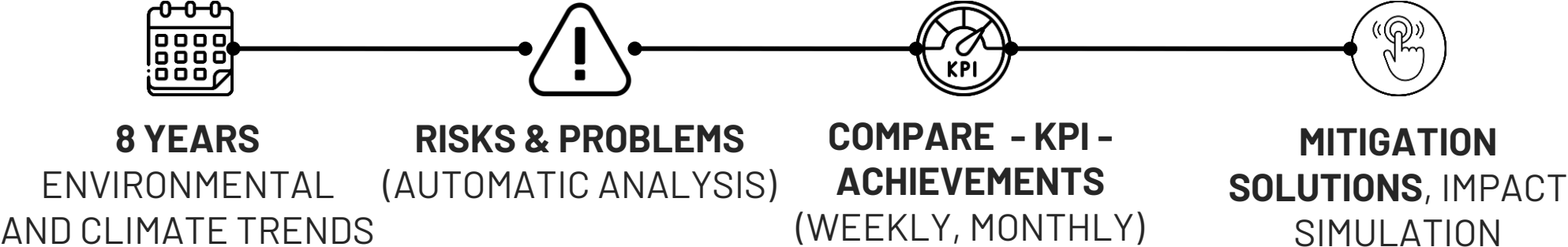
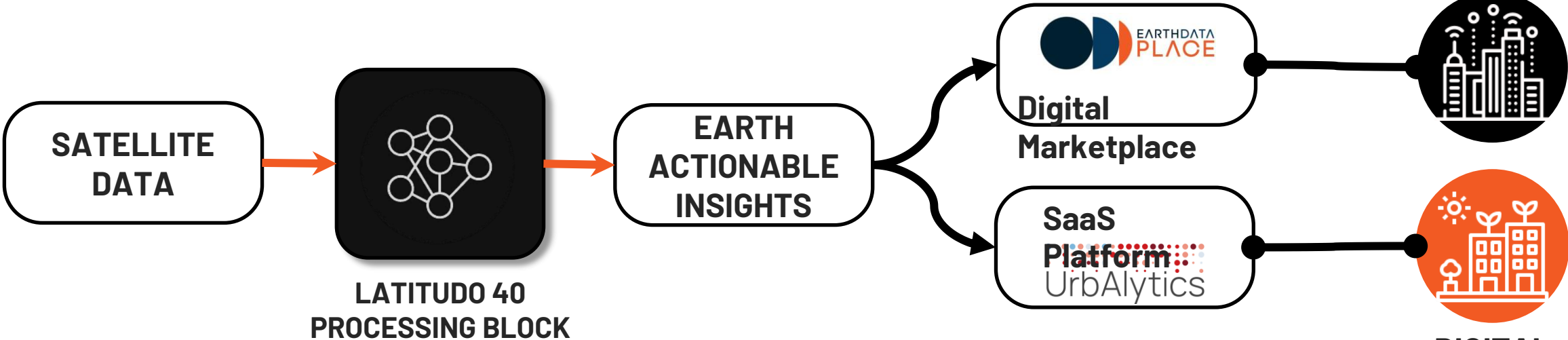
SIMPLIFYING COMPLEXITY

Learn from the **PAST**, monitor the **PRESENT** and make the best decisions for the **FUTURE**

DIGITAL INTEGRATORS
SMART PLACES

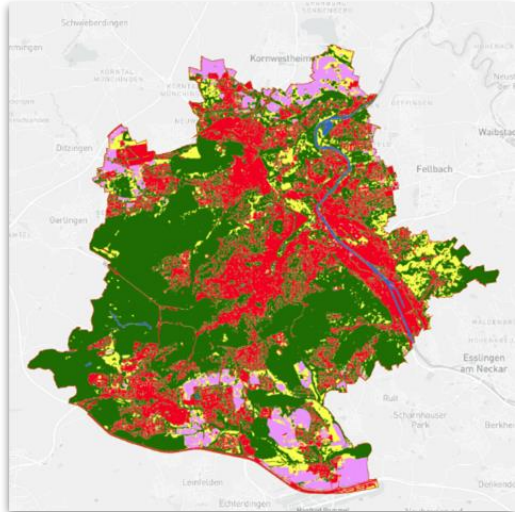


DIGITAL CITIES

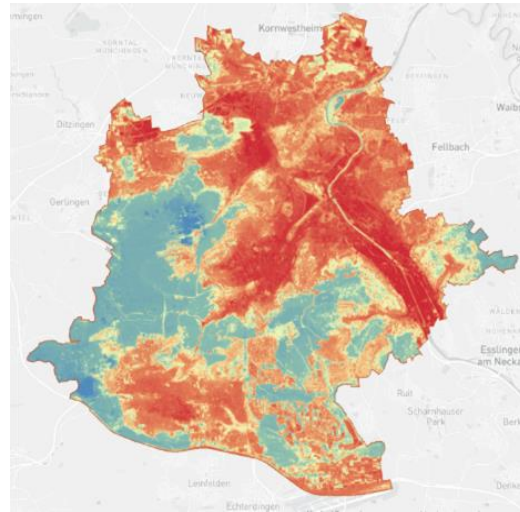


THE POWER OF DATA

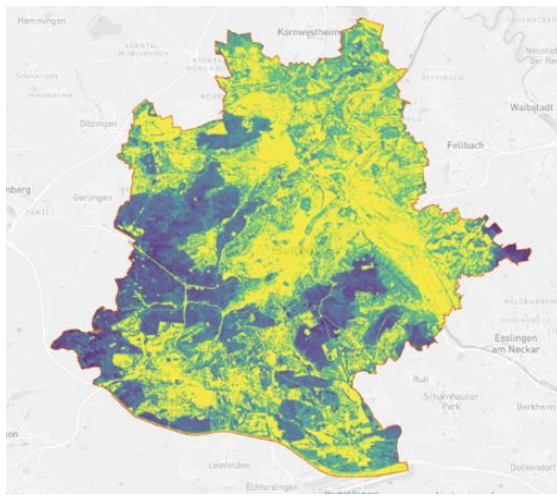
LAND USE



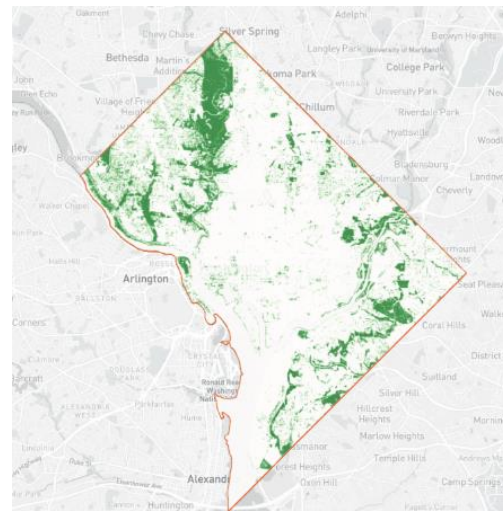
LAND SURFACE TEMP



TREE COVER DENSITY



GREENERY HEALTH



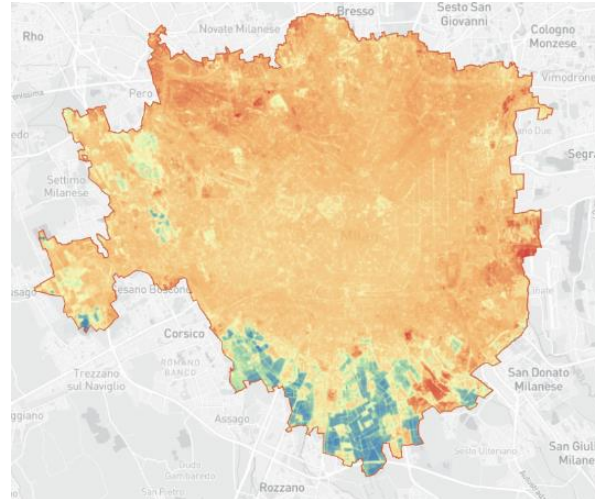
A **fully automated** platform for capturing the **intricate details** of cities and places from above, with a **very high level of detail**, from the past to the present.

A unique tool for **tracking changes** in time and gaining **in-depth knowledge** of places

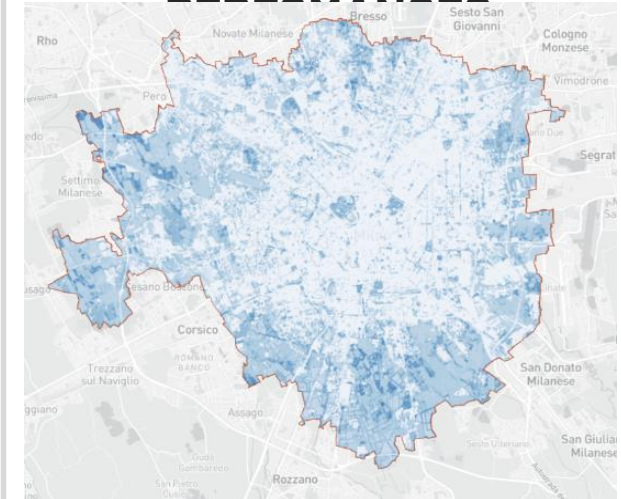
THE POWER OF AI

- **identify patterns**
(urban heat islands, risk for citizens)
- **predict future risks**
- **data driven decisions**
(plant trees to maximize cooling or add more public green spaces with permeable pavements)
- **validate the outcome of mitigation actions**
(environmental KPIs)

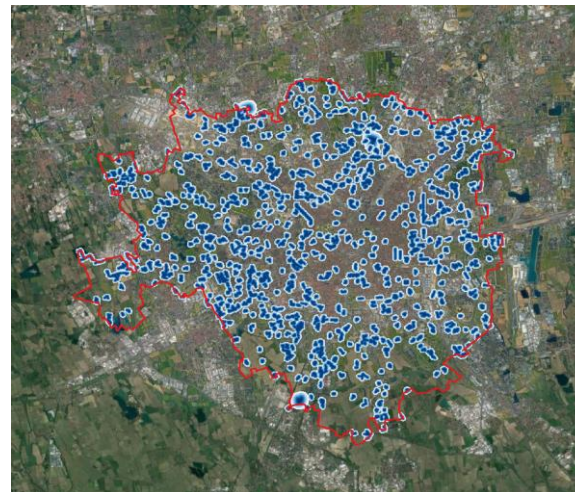
URBAN HEAT ISLAND MAP



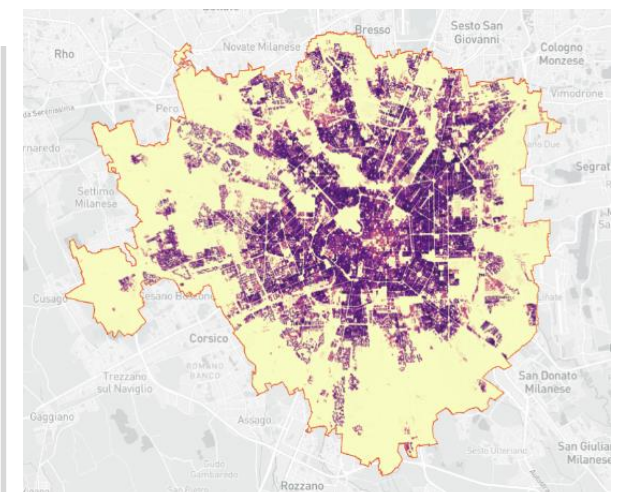
MICROCLIMATIC PERFORMANCE



PARK COOL ISLAND INDEX



HEATWAVE POTENTIAL



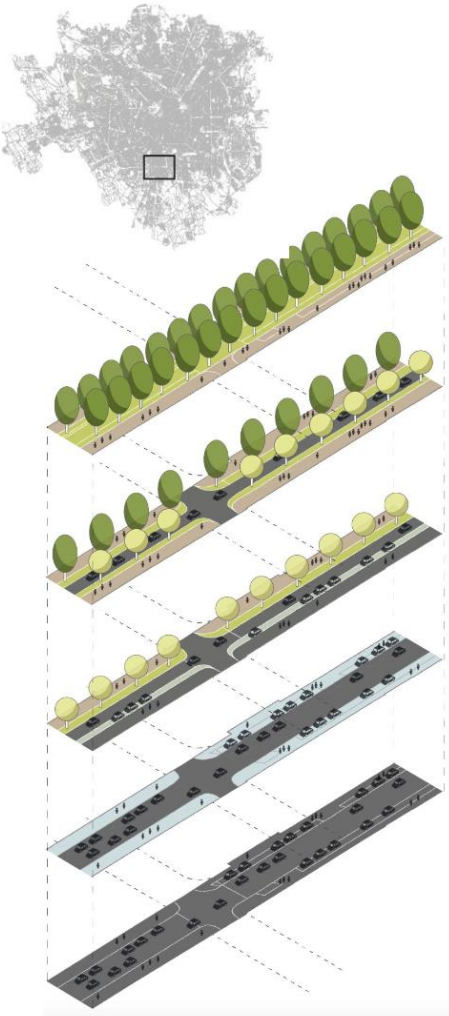
The Power of AI with our Super Resolution Algorithm



AI Algorithm to bring Copernicus Sentinel 2 spatial resolution from **10 m** to **1 m**

PREDICTING THE FUTURE WITH SIMULATION

Scenarios Simulation



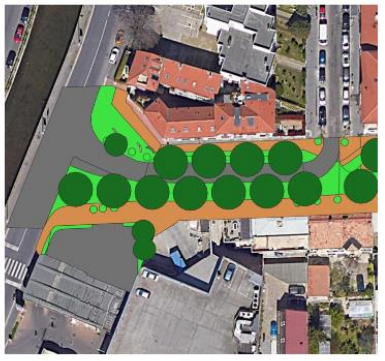
L40 City Simulator

- Trees 🌳
- Buildings 🏠
- Streets 🛣️
- Water 💧
- Grass 🌿
- Bare Soil 🏜️
- Agricultural 🌾



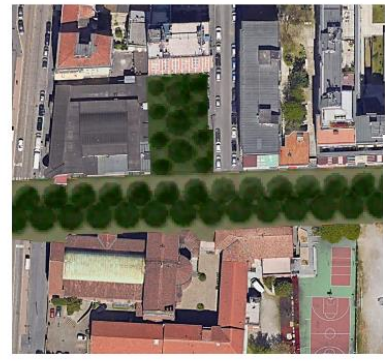
Synthetic Images

Simulated Layers



①

New City design



②

Synthetic Multispectral Data by Generative AI



③

Analysis on the simulated scenario



We are working with customers and partners across the globe to improve the lives of **15 million** citizens



Climate/Environmental risks identification and mitigation actions with Nature Based Solutions



New buildings identification and city sustainability index



Urban Heat Island monitoring and Carbon Indexes 2023/27



Sustainability Projects and vegetation management





**LET'S SHAPE A SUSTAINABLE
FUTURE **TOGETHER****

THANK YOU!

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