

EARTH ANALYTICS FOR COGNITIVE PLACES

IN AN INCREASINGLY COMPLEX AND VOLATILE WORLD, BEING PREPARED FOR TOMORROW'S MOBILITY SUSTAINABILITY CHALLENGES REQUIRES A NEW WAY TO LOOK LATITUDO 4C

WHY IS IT SO IMPORTANT TO TALK ABOUT THE SUSTAINABILITY OF URBAN AREAS?

LATITUDO 40°

OUR CITIES ARE ON THE FRONTLINE OF CLIMATE CHANGE. HOW CAN WE DESIGN THEM TO BE MORE RESILIENT AND SUSTAINABLE? LATITUDO 40°

DATA FOR SUSTAINABLE CHOICES





Environmental Preservation / Biodiversity

×



Sustainable Development Practices



Inclusive Living Environment



Climate Change **Resilience**

To overcome these challenges, data must be global, detailed, up-to-date, accessible, and reliable. Only in this case can they provide a real contribution to an ambitious vision oriented towards sustainability.

OUR SOLUTION



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

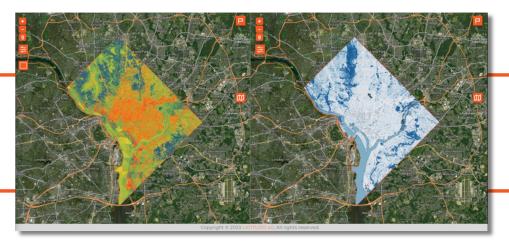


DATA FROM SPACE × (REMOTE SENSING)

LATITUDO 40 ARTIFICIAL INTELLIGENCE

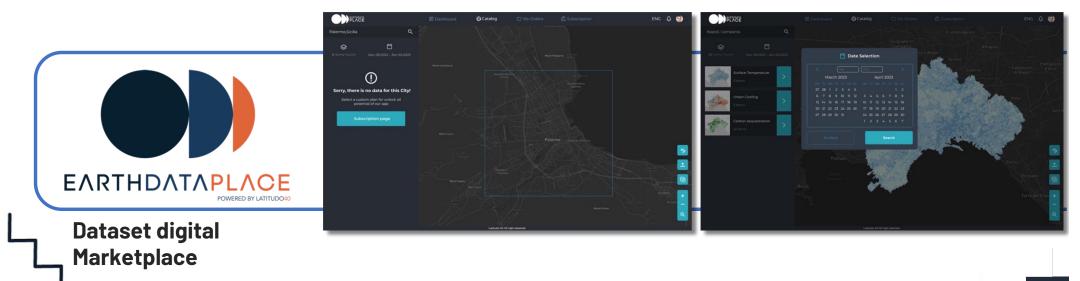
EARTH ACTIONABLE INSIGHTS & SIMULATIONS

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



SaaS Platform for cities and mobility planners

UrbAlytics



BY IDENTIFYING HIGH-RISK AREAS, CITIES CAN IMPLEMENT TARGETED MITIGATION ACTIONS, TURNING VULNERABLE ZONES INTO RESILIENT SPACES.

ATITUDO 4.0



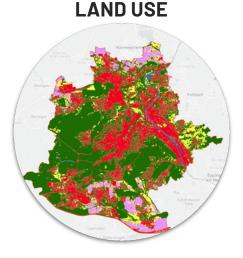
The Power of AI with our Super Resolution Algorithm

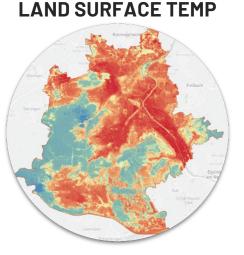




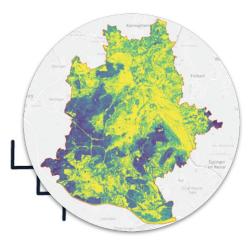
Al Algorithm to bring Copernicus Sentinel 2 spatial resolution from 10 m to 1 m

THE POWER OF LAYERS

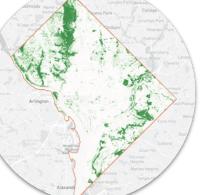




TREE COVER DENSITY







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

OUR INSIGHTS

· identify patterns

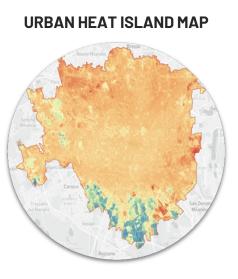
(urban heat islands, risk for citizens)

predict future risks data driven decisions

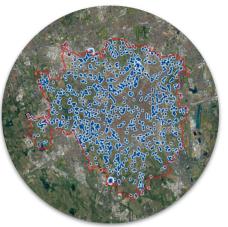
(plant trees to maximize cooling or add more public green spaces with permeable pavements)

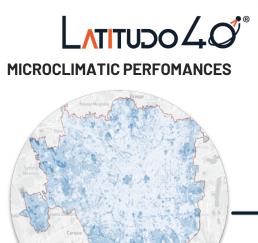
validate the outcome of mitigation actions

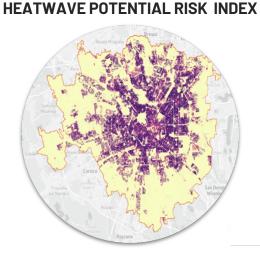
(environmental KPIs)



PARK COOL ISLAND INDEX







THE BENEFITS FOR CITIZENS (USERS OF MOBILITY SERVICES)



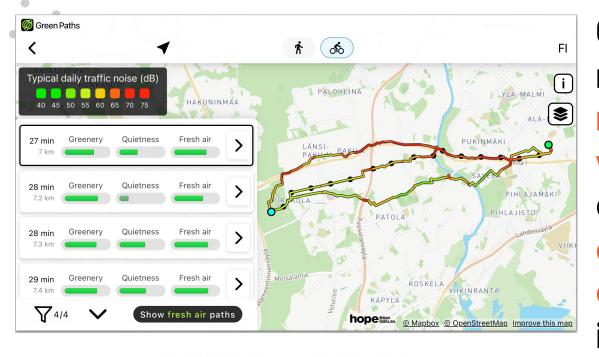


We use data from Urban Heat Island, Land Surface Temperature, Tree Canopy to identify mitigation actions based on Green Bus Shelters and NBS to make waiting at bus stops more comfortable and safer, also contributing to urban sustainability (removal of pollutants and Co2)

> GRENOBLE ALPE Métropole



THE BENEFITS FOR CITIZENS LATITUDO ムグ (USERS OF MOBILITY SERVICES)





Green Urban Navigator - a new urban navigator for soft mobility (cycling, scootering, walking) that allows you to envy the route with the least exposure to climatic and environmental risks (heat islands, few green areas, presence of pollutants)

BENEFITS FOR (RAIL) TRANSPORT COMPANIES



KEEPING AN EYE ON ENVIRONMENTAL RISKS

LATITUDO 40 can scan the entire network in a fraction of the time required for any other type of inspection and continuously over time.

Monitoring your network helps companies keep an eye on environmental risks from vegetation growth, storm/flood damage, ground movement and more.



20% V

Efficiency

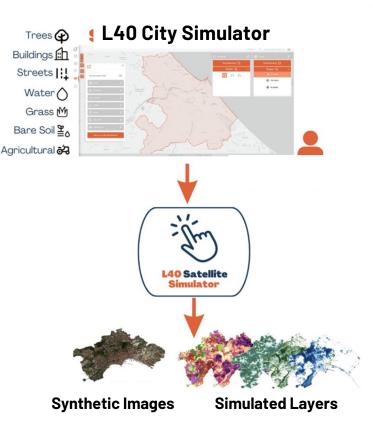
Economical



PREDICTING THE FUTURE WITH SIMULATION

and the second second

Scenarios Simulation





New City design

(1)

(2)



Synthetic Multispectral Data by Generative Al

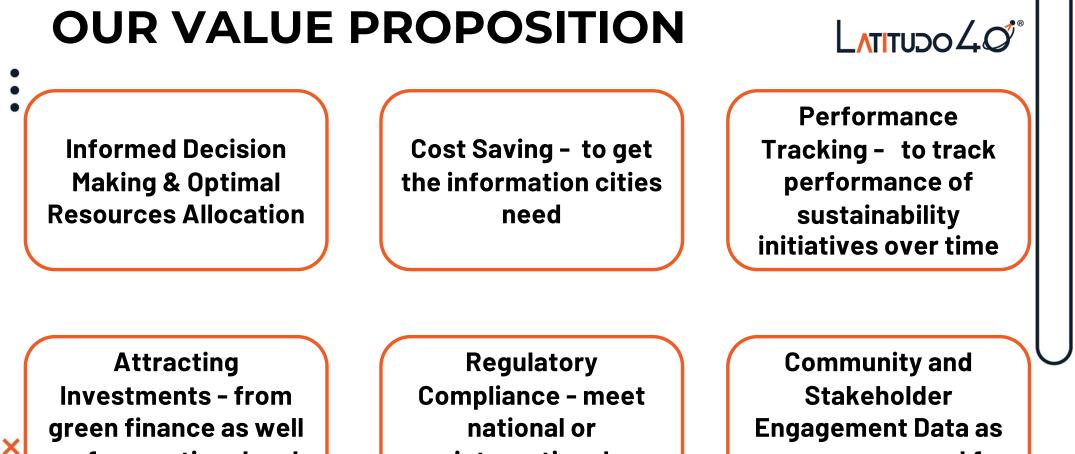
A



3 Analysis on the simulated scenario



15



as from national and international bodies international regulations

a common ground for collaboration

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

ENGINEERING

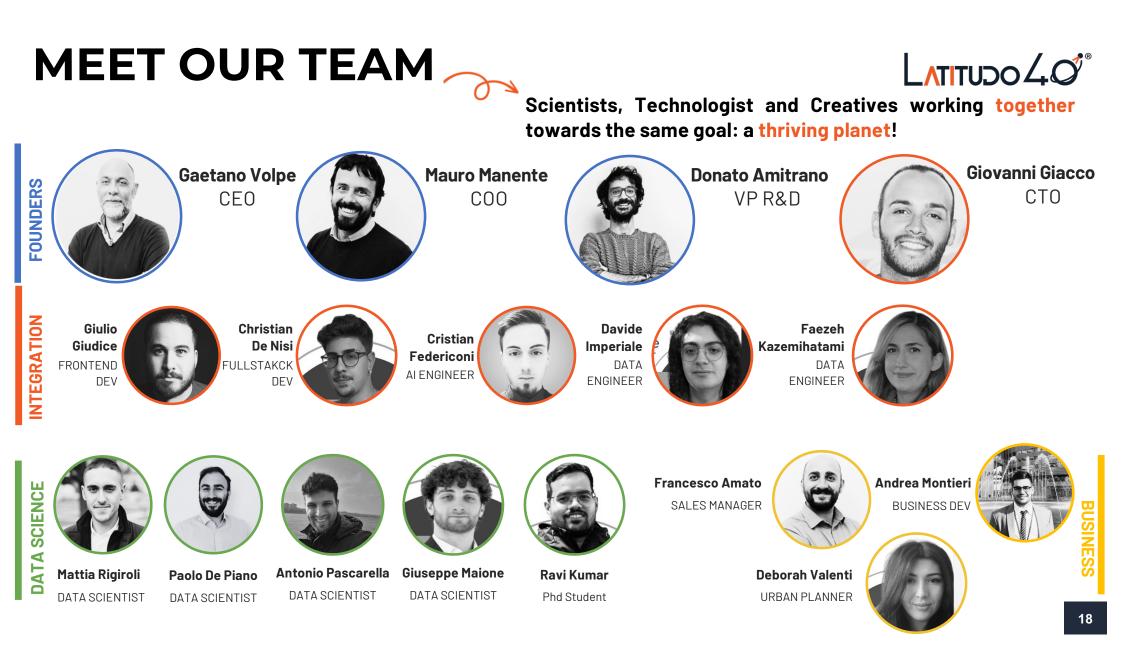
ARUP

italia

Κυβερνήτης

Kibernetes







LET'S SHAPE A SUSTAINABLE FUTURE TOGETHER

THANK YOU!

Gaetano Volpe CEO

gaetano.volpe@latitudo40.com +39 335 5797883

www.latitudo40.com

