Climate and water monitoring solutions for municipalities and infrastructures

SustainableSolutionsMatch

Welcome!

Welcome & Introduction

Who's moderating?

Benno Weissner

ZENIT – Center for Innovation and Technology North Rhine Westphalia

Chair SG Digital

Who's moderating?

Chiara Soffietti

Camera di commercio di Torino EEN ALPS

Innovation and Sustainability Advisor

Co-chair SG Digital

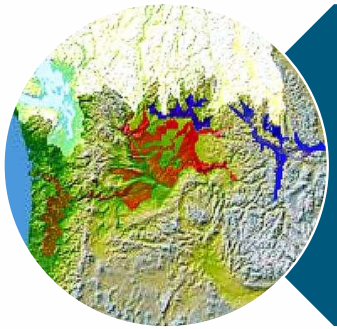
Who's organizing?

Sustainability in the Digital Sector

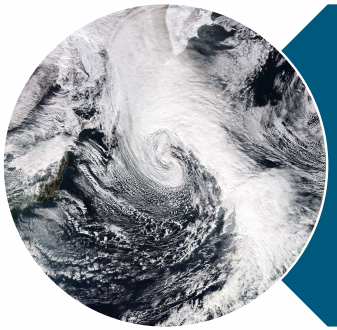
Digital tools and approaches with a positive impact on sustainability

- Digital asset management
- Optimised operation, predictive maintenance
- Optimised logistics (operations)
- Cyber physical systems (digital twin)
- Simulation of production and processes, product information,
- Digital planning
- Automated tracing/tracking (supply chains etc.)
- Automated sorting/quality control
- Digital platforms (e.g. for secondary materials)
- M2M / machine economy
- Artificial intelligence (data analytics/ machine learning etc.)

Session Agenda



This session will explore innovative **climate and water monitoring solutions** designed to support municipalities and infrastructure companies in addressing the challenges of climate change, water management, and infrastructure resilience. There will also be two municipalities presenting their experience in this domain.



Participants will gain insights into **cutting-edge technologies, data-driven strategies, and case studies** that demonstrate how monitoring systems can optimize **resource management, enhance decision-making, and mitigate risks associated with extreme weather events and aging infrastructure**.

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Session Agenda

11.00-11.05 EEN Sector Group Digital Introduction - Benno Weissner – Zenit

11.05-11.15 **Water and climate solutions: the experience of Torino Municipality - Città di Torino** - Mirella Iacono - Elena De Ambrogio - Italy

11:15-11:25 **Addressing water and climate challenge in Burgas Municipality – Burgas Municipality** - Georgi Sakaliev – Bulgaria

Companies Pitches 11.25-12.00

1. **AI and satellite data based solution for climate risk assessment - Eoliann** Eoliann - A.I. Climate Resilience From The Sky – Federico D'Albenzio – Italy
2. **Intelligent Flood Models and Early Warning Systems of the Next Generation - Floodwaive GmbH** https://www.floodwaive.de/ - Julian Hofmann – Germany
3. **AI for water resource management - Okeanos Smart Data Solutions GmbH –** https://www.okeanos.ai - Benjamin Mewes – Germany
4. **Data logger for sewer and water shaft - Microtronics Engineering GmbH** https://microtronics.com/en/ - Stefan Pfeffer – Austria
5. **Aquatic drones in water management: applications for water quality monitoring, ecology scans and inspections of infrastructure – Indymo** https://www.indymo.nl - Rui Pedroso Lima – The Netherlands
6. **Water Prediction in Rural Areas – Ambling** Ambling - Sergio Miguel Galán – Spain
7. **Aerosol monitoring for a better understanding of Climate impact from municipalities and industries – Grasp**, https://www.grasp-earth.com/grasp-open/ - Eliot Llopis – Spain

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Welcome & Introduction

Some suggestions for the session

- **Mute Policy:** Please remain muted unless speaking to avoid background noise.
- **Q&A Time:** After each pitch, there will be 1–2 minutes for questions. Please use the chat to ask questions. We will also leave another 10-15 minutes at the end for any further questions.
- **Session Recording:** This session won't be recorded.
- **Time management**: The 2 municipalities have 10 minutes for their presentation. Pitchers will have 5 minutes, please keep track of your time. We will inform you if 5 minutes have passed.
- **Technical Issues:** If you encounter issues, use the chat to notify the host.

Municipalities Presentations

Time to meet the municipalities!

N. 1

Città di Torino

Mirella Iacono

Water and climate solutions: the experience of Torino Municipality

City of Turin

Ing. Mirella Iacono
Environment and Ecological Transition Department

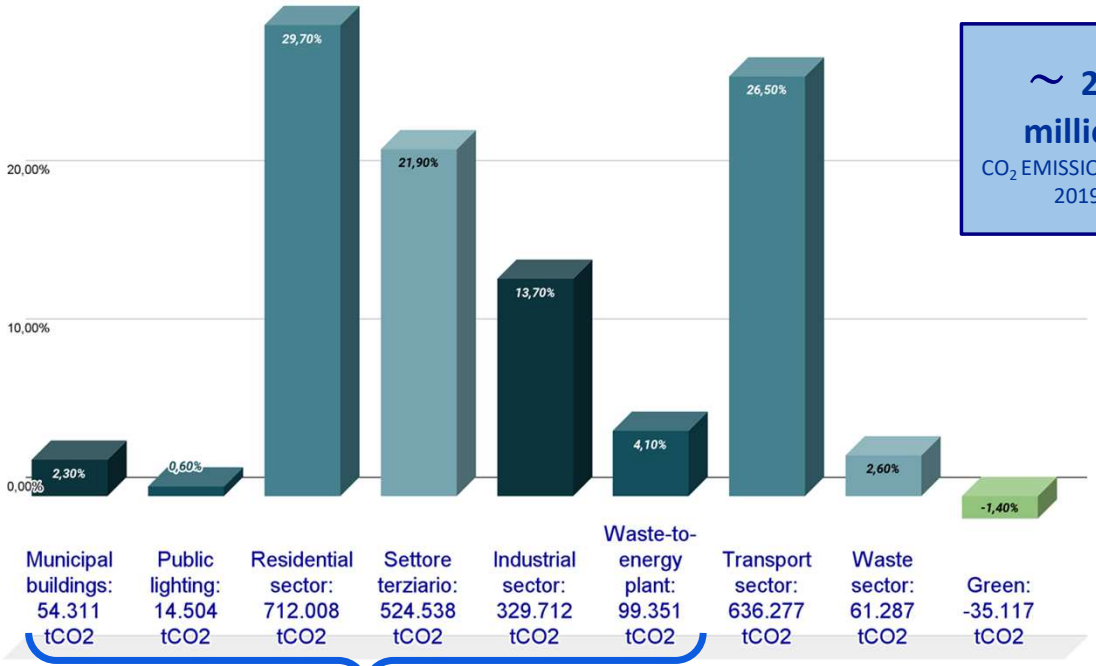
Turin among the "100 Net-Zero Cities 2030"

MISSION GOALS

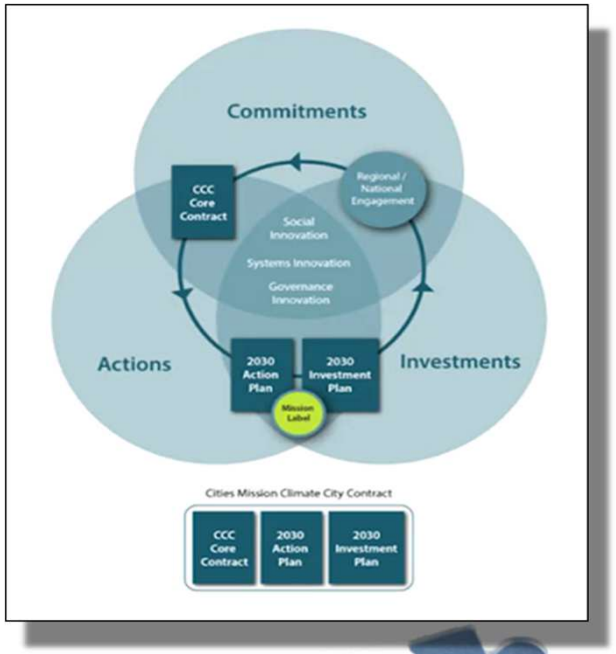
- Support 100 European cities towards climate neutrality by 2030
- Make these cities centers of innovation that can serve as models for other European municipalities that will have to achieve the same goals by 2050

THE MAIN STAGES OF THE PATH TO DECARBONIZATION:

The Climate City Contract of Turin



~ 2.4 million
CO_2 EMISSIONS [t/y]
2019



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The Climate City Contract of Turin

ACTION PLAN

31 MACRO-ACTIONS (2024 - 2030) + **230** MICRO-ACTIONS (2019 - 2030)

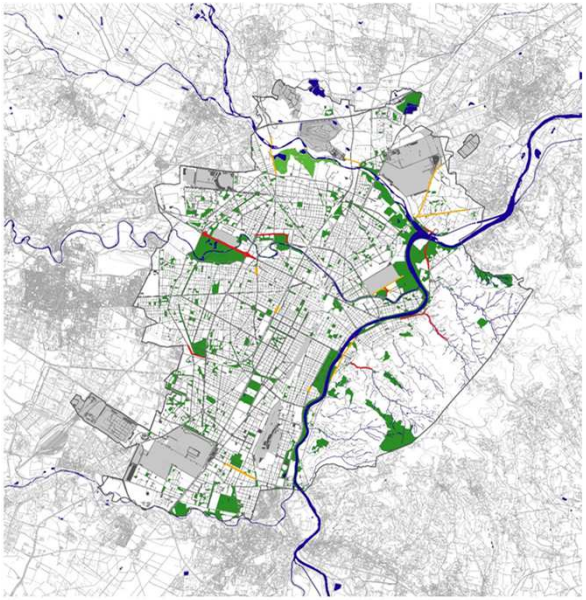
- 13 STATIONARY ENERGY
- 8 TRANSPORT
- 3 WASTE
- 4 AFOLU
- 3 ENERGY SYSTEMS

3 LEVELS OF ENGAGEMENT

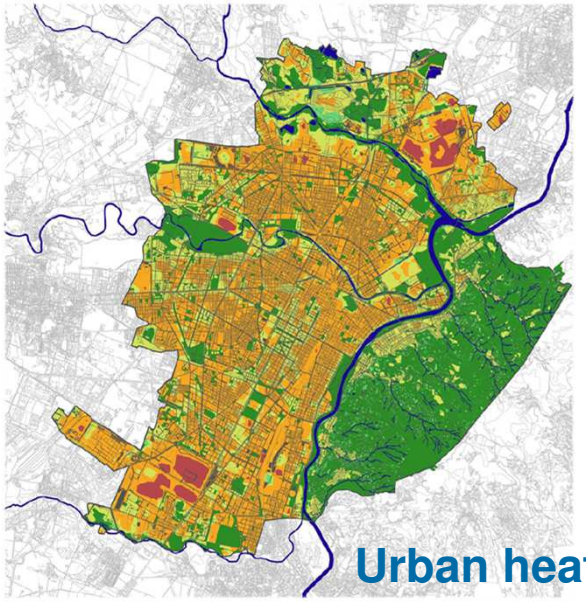
- 6 SIGNATORIES
- 16 MAIN PARTNERS
- 60 SUPPORTERS

The Climate Resilience Plan

GOAL: Reduce the impacts deriving from climate change for the territory and for citizens



The stretches of road that are most often subject to flooding



Urban heat island

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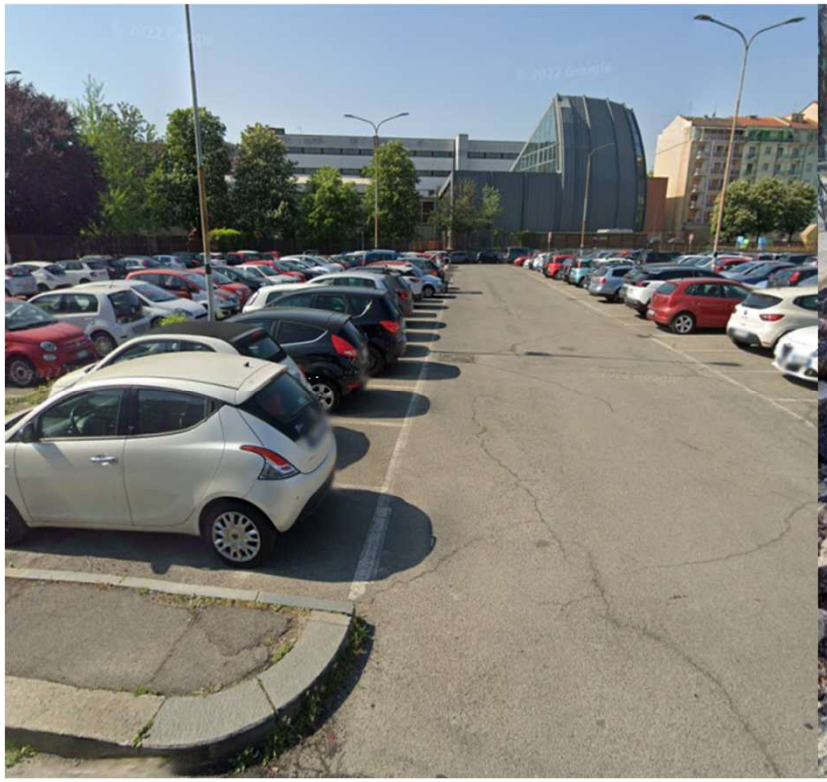
The experiences to reduce flooding

Draining parking

Before the transformation



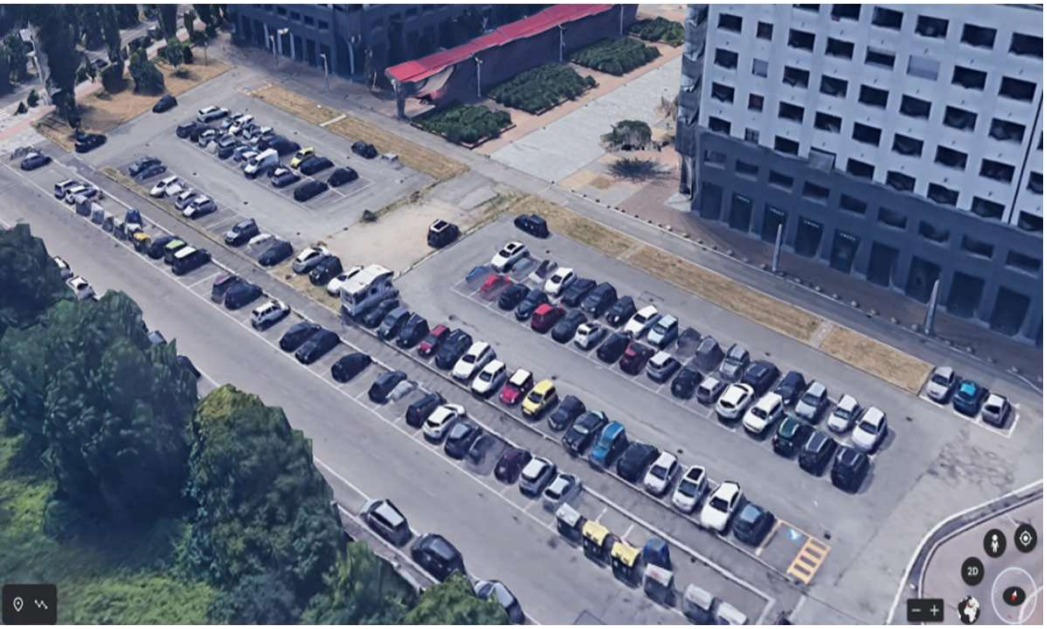
Work in progress

After the transformation

The experiences to reduce flooding

Draining parking

Before the transformation



After the transformation

- sqm of asphalt removed: **4888**
- sqm of draining surface: **3281**
- square meters of green area: **1828**
- **70** trees and **3380** shrubs

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The experiences to reduce flooding

Green track

Before the transformation

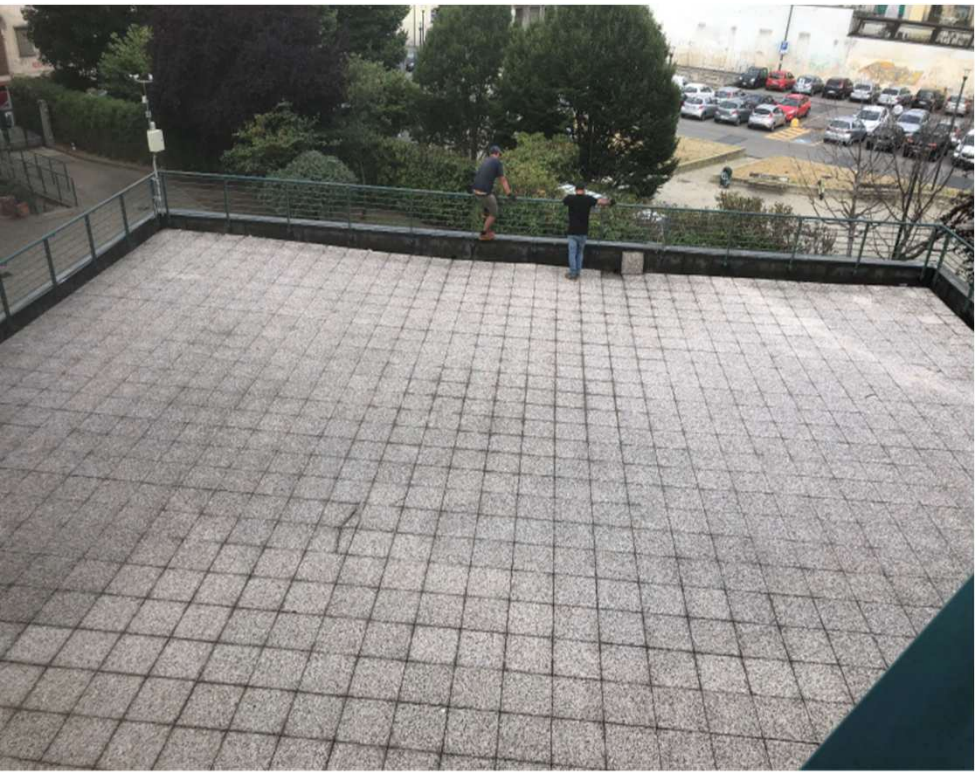
Work in progress

After the transformation

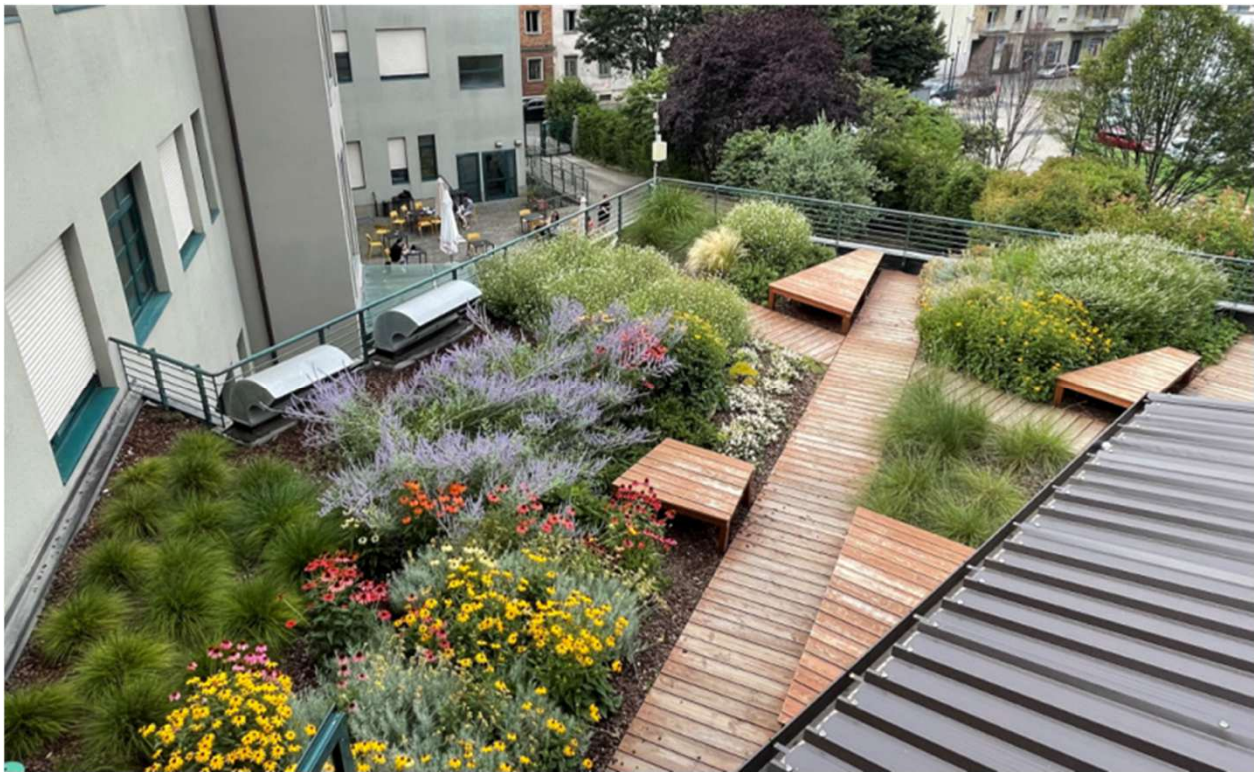
The experiences to reduce flooding

Green roof

Before the transformation



After the transformation



aeroponic greenhouse

The experiences to reduce flooding

Aeroponic greenhouse

The experiences to reduce flooding

Rain garden

The experiences to reduce flooding

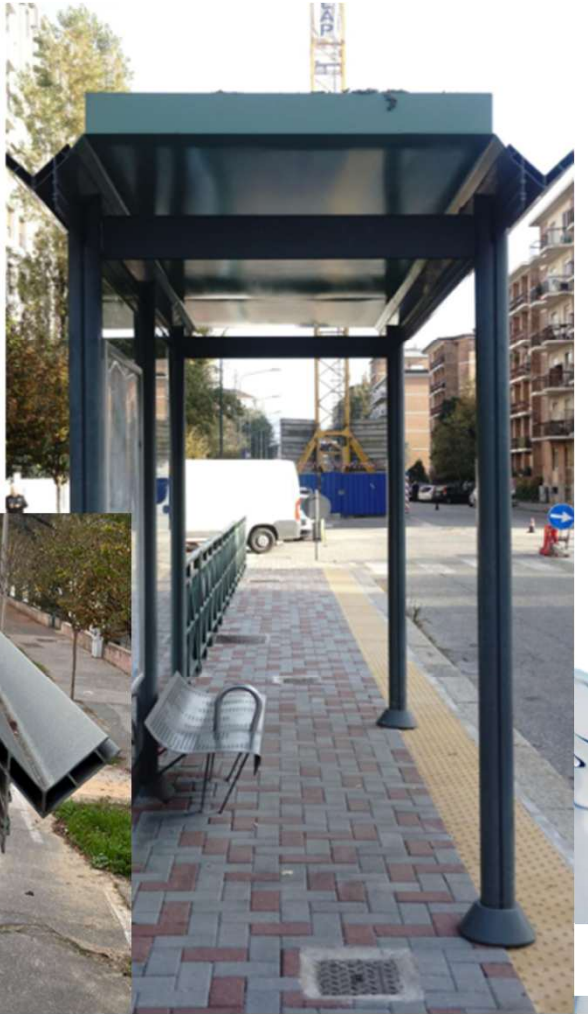
Green wall

Before the transformation

After the transformation

The experiences to reduce flooding

Green bus stop



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Thanks for your attention

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een.ec.europa.eu

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Municipalities Presentations

Time to meet the municipalities!

N. 2

Burgas Municipality

Georgi Sakaliev

Integrated Smart Climate Risk Management System

Burgas Municipality

Georgi Sakaliev

Chief expert Strategic development

Enhanced technological capacity of Burgas Municipality for climate change risk management.

- *A network of stations equipped with smart sensors located across the territory of Burgas Municipality collects data on water levels, precipitation amount and intensity, and other meteorological parameters, as well as environmental parameters and 24-hour video surveillance fused into Smart Burgas integrated urban platform.*

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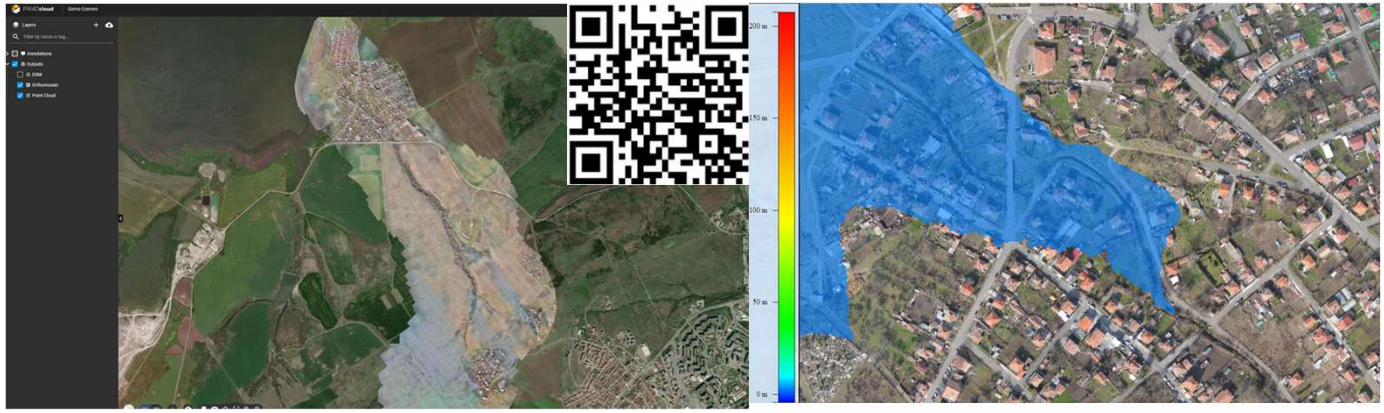
Study of Flood Threat and Risk in Burgas Municipality

- *All risk susceptible areas within the municipality are surveyed through laser scanning and photogrammetry.*
- *Models and simulations of flood waves are developed reflecting all possible crisis scenarios to identify potentially affected areas.*
- *Based on the analysis, suitable locations are identified for autonomous water level and climate monitoring stations installation.*



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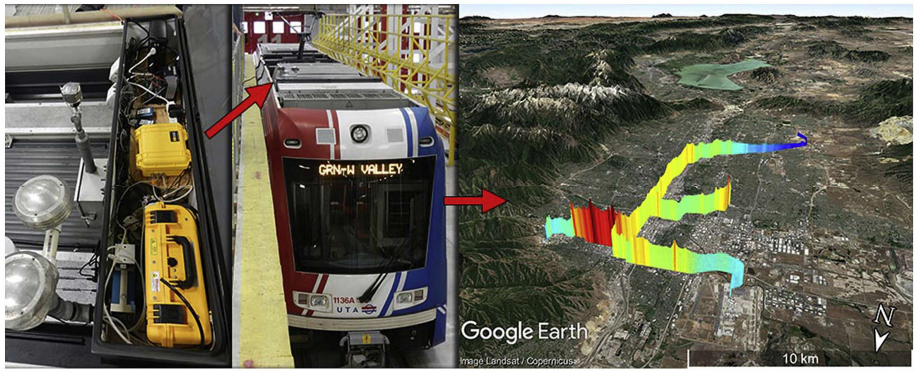
What else is needed to enhance the climate resilient city management ?

A climate atlas is planned to be developed, incorporating the collected data and information about the relevant climate risks (UHI, flooding and air pollution).

- *Improve the air quality monitoring potential with an integrated smart air monitoring system - network of mobile sensors measuring PM2.5, PM10, NO and NO2 parameters*



Why the integrated smart system approach is important?

- ❑ *Smart Monitoring Infrastructure*
- ❑ *Data-Driven Decision Making*
- ❑ *Public Engagement & Accessibility*

Sustainable impact?

- ❑ *Improved Flood Risk Management:*
- ❑ *Climate Resilience & Environmental Protection*
- ❑ *Economic & Social Benefits*

Integrated smart flood risk management system

isuv.smartburgas.eu

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Who would benefit most from this solution?

- ❑ *Local Community and Residents*
- ❑ *Municipal and Government Authorities*
- ❑ *Businesses and industries*

Integrated urban platform SmartBurgas

smartburgas.eu

Smart Burgas

Cooperation and partnership?

- *Public authorities with identical climate challenges;*
- *Technological companies – solution providers in climate change related area;*
- *Research institutes*

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Book a meeting with: Burgas Municipality

Georgi Sakaliev
Chief expert Strategic development
Burgas Municipality

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Pitch Presentations

Time to meet the innovators!

Pitch 1

Eoliann

Federico D'Albenzio

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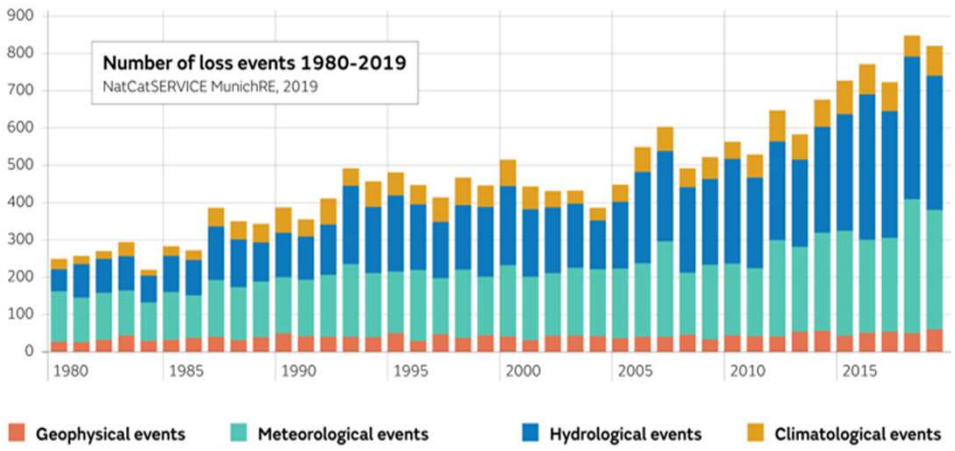
Climate Risk Intelligence

AI-Powered Satellite Data for Risk Management in the Infrastructure Sector

Federico d'Albenzio
Senior Business Developer

Climate change and urbanization are increasing natural disasters, making them extremely volatile

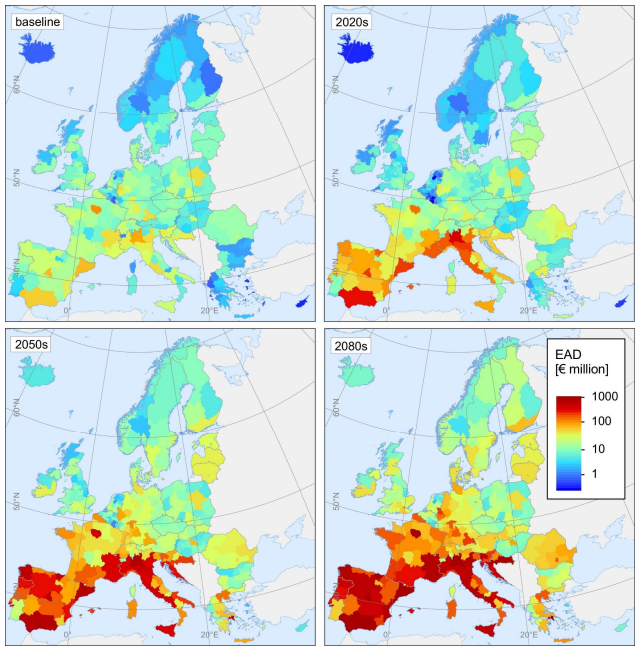
Number of global loss events 1980-2019, by type



Source: UK Metereological Office and MunichRE, 2022

More than **313 B$** of losses due to natural catastrophes in 2022

Expected annual damage on critical infrastructure will increase, especially in southern countries



Source: Escalating impacts of climate extremes on critical infrastructures in Europe, Elsevier, 2018;

Scenarios of expected annual damage (EAD) from climate risks. In 2080, **37 Billion Euros** of potential damages

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We need to adapt our methodologies to keep pace with a constantly changing climate

FROM

- Backwards-looking models
- Uncomplete coverage, inconsistent methodology and unfrequent update
- Poorly informing risk scores

Business as usual Infrastructure

TO

- AI-powered, proprietary cause-effect models
- Full geographical coverage, consistent and scalable methodology and frequent update
- Vulnerability metrics to measure asset-specific damage

Informed mitigation and expansion investments

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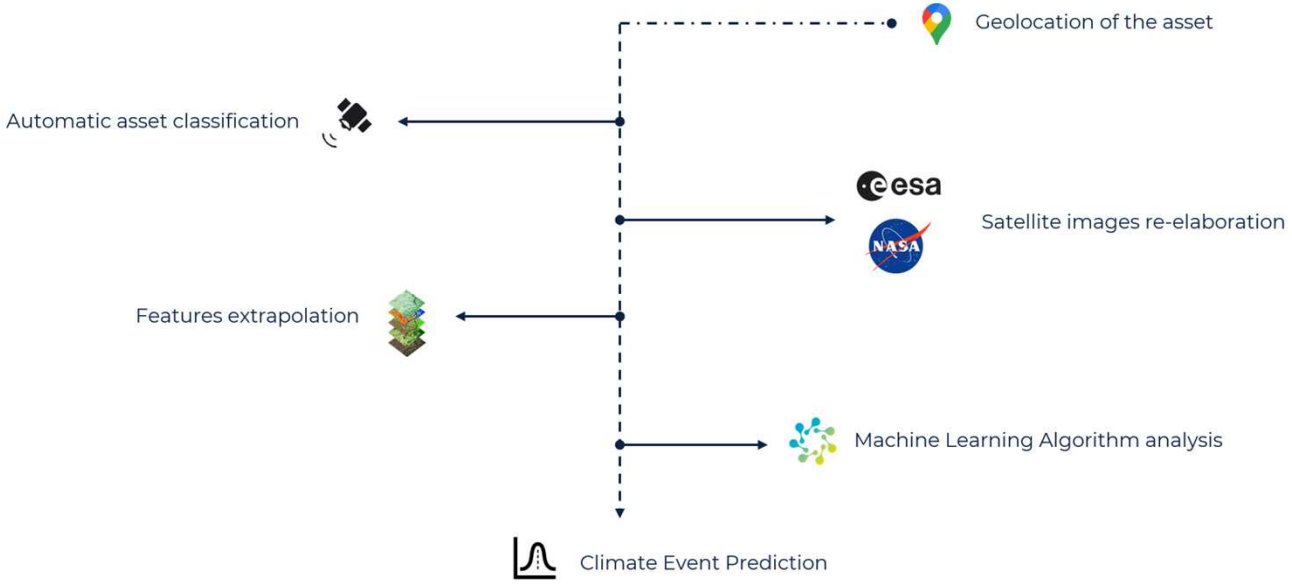
Eoliann leverages the power of satellite data and AI to provide climate-proof predictions of risk exposure



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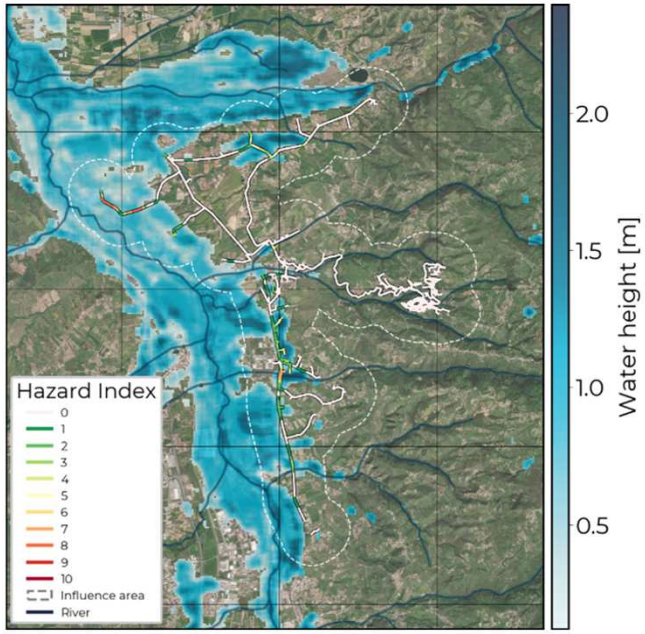
Our software returns a probabilistic assessment of events' intensity and impact for every European location

- Analysis on points or lines
- Asset-type specific analysis
- Resolution up to 30 m
- Different Return Periods
- 2025 - 2050
  RCP 2.6 4.5 8.5



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Eoliann is a benefit corporation, with the goal of helping businesses to **quantify the probability, intensity and impact of climate events**.

Our Main Customers & Partners in the Infrastructure Sector

Institutional network

Finanziato dall'Unione europea NextGenerationEU

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Book a meeting with: EOLIANN

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EOLIANN

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enterprise europe network

Pitch Presentations

Time to meet the innovators!

Pitch 2

Floodwaive GmbH

Julian Hofmann

Intelligent Flood Models and Early Warning Systems of the Next Generation

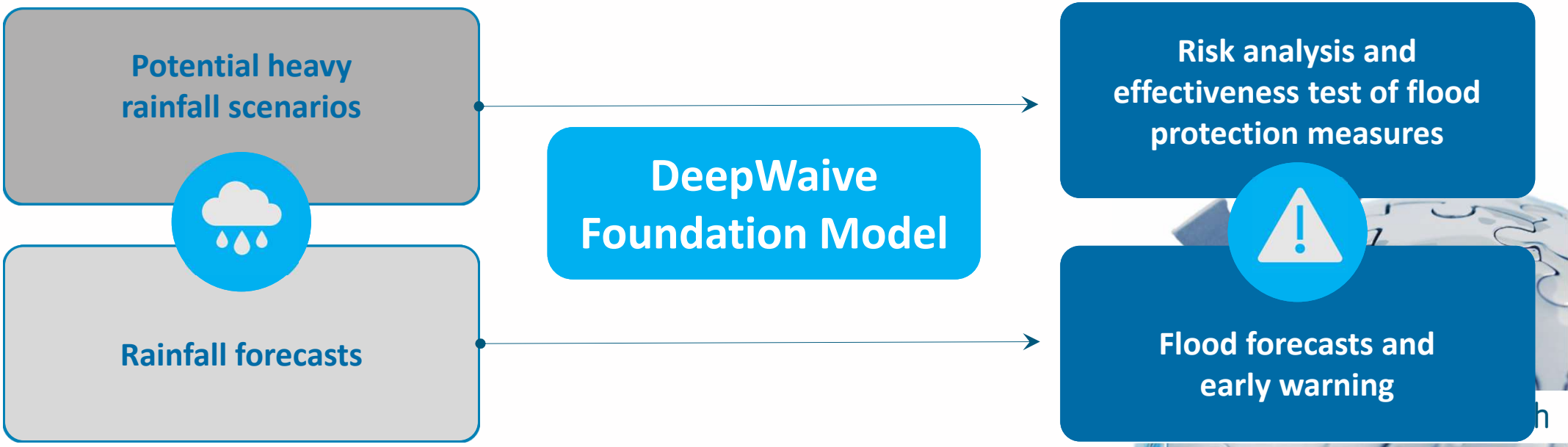
FloodWaive Predictive Intelligence GmbH

Dr.-Ing. Julian Hofmann
CEO & Co-Founder

FloodWaive

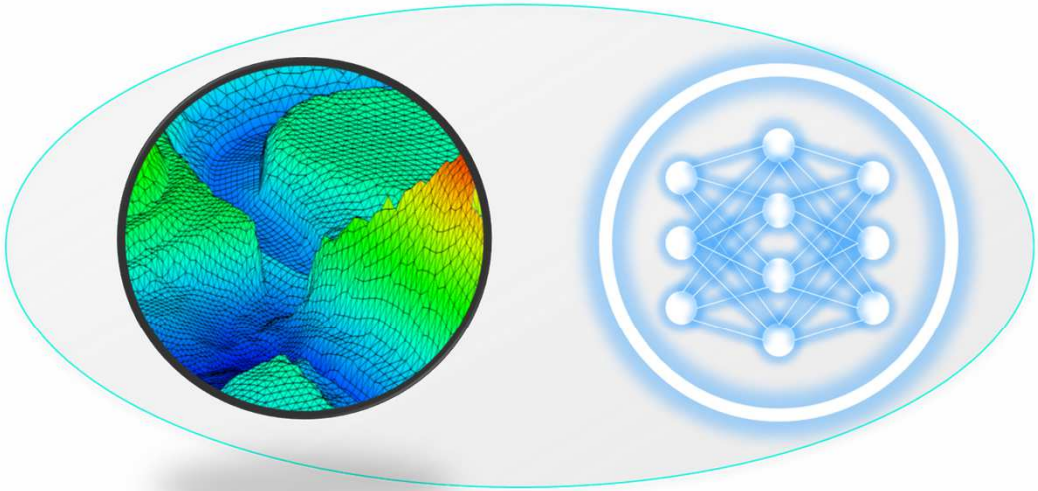
Unified Solution for Risk Analysis, Mitigation & Early Warning

Empowering cities and infrastructure operators to turn climate data into actionable flood protection for holistic risk management



Up to One Million Times Faster than Traditional Flood Models

We are merging physics-based flood models with advanced AI for unprecedented performance and near-instant insights



Short Computation Time

High Model Accuracy

High Scalability

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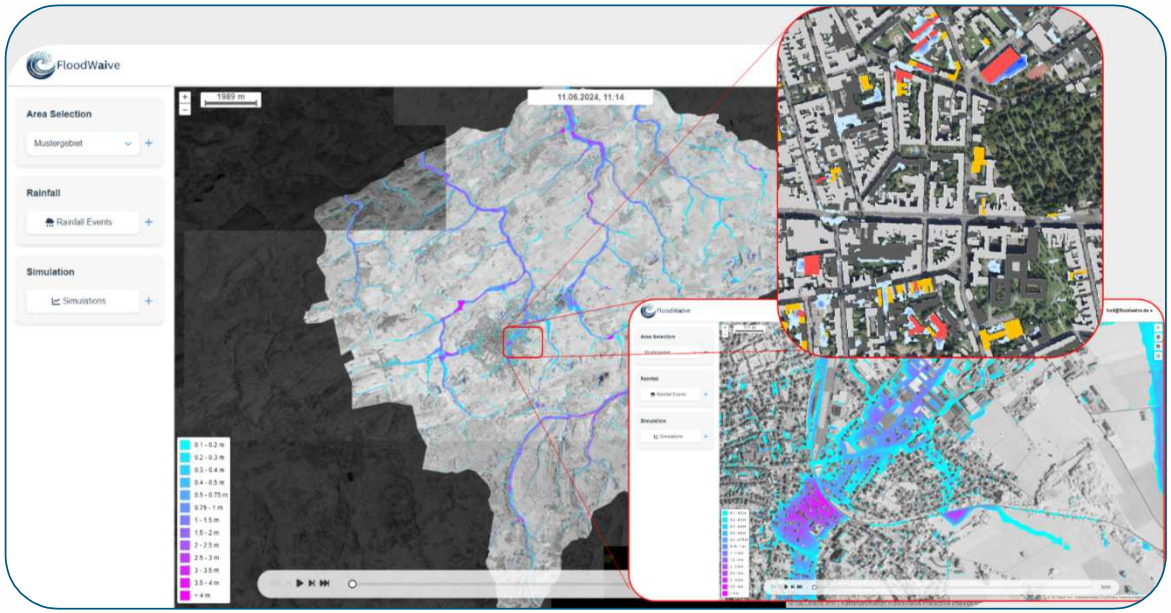
Risk Analysis & Forecasting: A Service for Sustainable Impact

***1. Minimal Resource Footprint**: No on-site sensors needed | **2. Plug & Play Integration**: Easily merges with existing GIS*
***3. Proactive Damage Prevention**: Reduces repair costs, lowers environmental harm, and protects communities*



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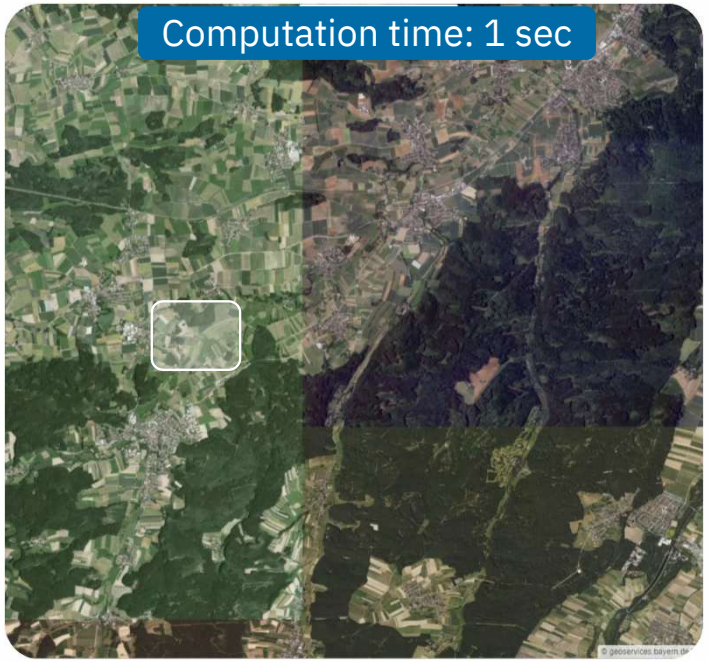
Customers of Our AI-Powered Flood Analytics



Products:

AI Risk Analyzer
Rapid Risk Analytics
Dynamic Evaluation
of Flood Measures

AI FloodCast
Impact-based
Flood Forecasting
and Early Warning

Customers:

- **Municipalities**
- **Engineering**
- **Industry**

- **Ministry**
- **County**
- **Industry**

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Looking Beyond New Customers: Ideal Cooperation Partners

- **Research & Academia**
  Co-development of AI and hydraulic modeling; scientific validation and joint publications
- **Technology Providers**
  Sensor/data system integrators, cloud/IT specialists for robust, scalable solutions
- **Policy & Regulatory Bodies**
  Collaboration for shaping flood management guidelines and sustainable planning policies
- **NGOs & Environmental Groups**
  Joint awareness campaigns, broader impact, and engagement with local communities
- **Infrastructure & Engineering Firms**
  Integrating flood resilience into existing or new construction projects

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Book a meeting with: Floodwaive

Dr.-Ing. Julian Hofmann
CEO & Co-Founder
FloodWaive Predictive Intelligence GmbH
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FloodWaive

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Pitch Presentations

Time to meet the innovators!

Pitch 3

Okeanos

Benjamin Mewes

Solution title

Okeanos Smart Sensor Solutions

Mewes, Benjamin
CEO

Introduce your sustainable solution

Okeanos.VIVID is a highly innovative solution that stands out due to the integration of multiple data sources. It is the only system that combines soil moisture, radar precipitation, and local water level measurements to provide hyperlocal flood forecasts for previously unmonitored smaller water bodies and flow sections.

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- # If relevant, give further details on the technology/process

In case the prior slide was sufficient to explain your solution, please just remove this page

Unlike traditional flood systems that focus on major rivers, this system offers forecasts for smaller water bodies that are typically not covered by official flood monitoring networks.

Unmonitored Rivers and Urban Streams: Particularly vulnerable to flash floods and sudden inundation. This system addresses the gap by issuing early warnings for at-risk sections.

Fine-Scale Prediction Models: Analyze and combine multiple data sources to provide reliable forecasts at the municipal level.

- **Describe your solutions differential value and sustainable impact**

Hyperlocal inunadation mapping in real time for several applications.

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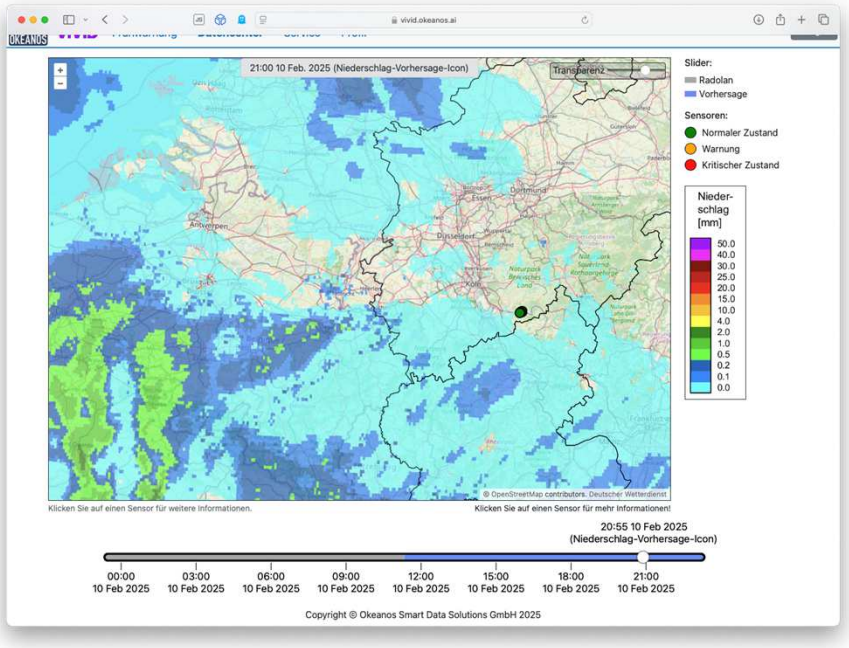
Market/Target audience – Who can apply your solution?

- *Municipalities and regional authorities*
- *Industrial sites*



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Sustainable and circular innovation needs good networks along the whole value chain. What kind of cooperation partners would you like to connect to beyond finding new customers?

Cities, Councils, etc.

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Book a meeting with: Okeanos

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CEO
Okeanos Smart Data Solutions
Benjamin.mewes@okeanos.ai

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OKEANOS

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Pitch Presentations

Time to meet the innovators!

Pitch 4

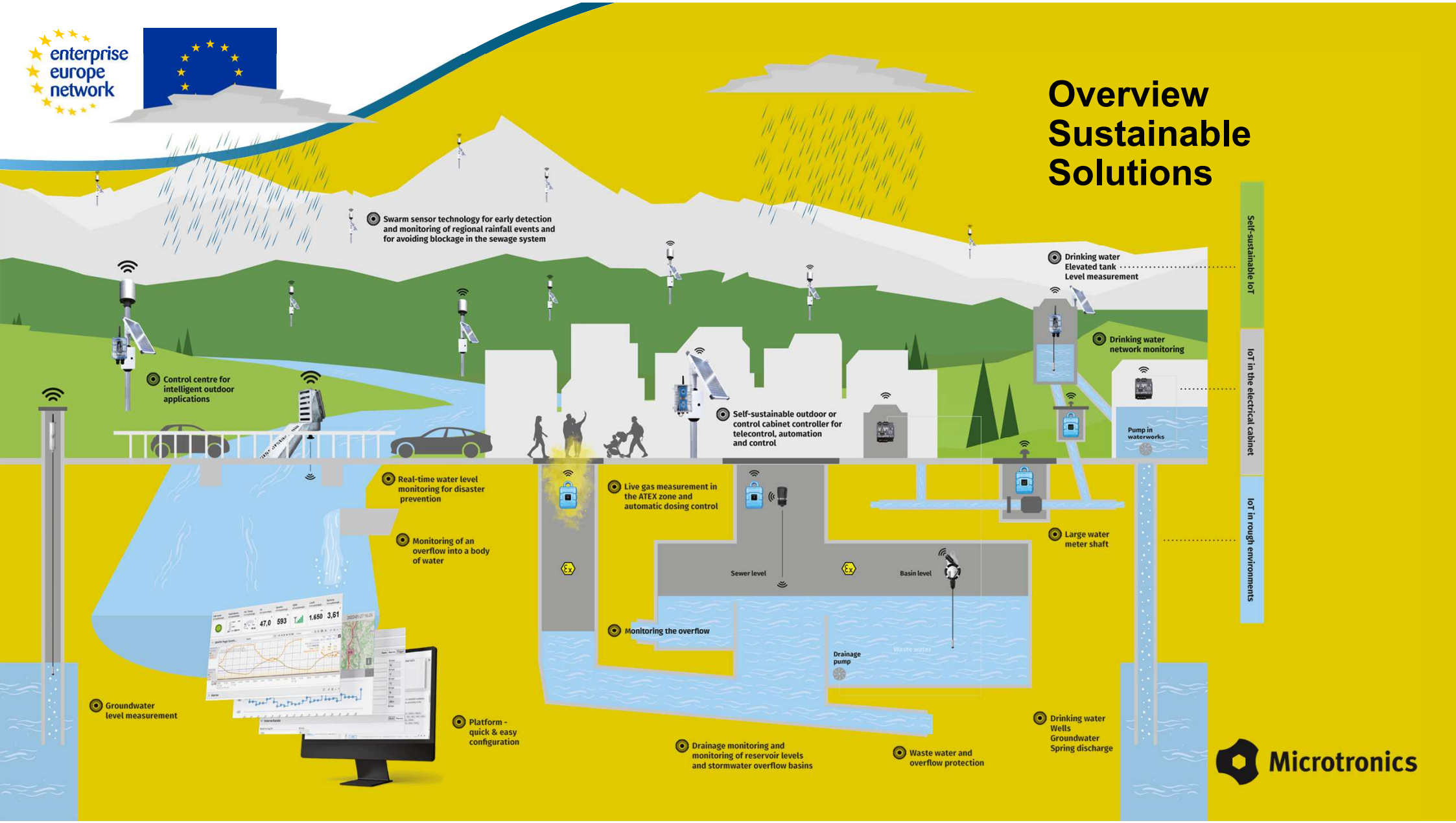
Microtronics Engineering

Stefan Pfeffer

Decision-grade data: Data loggers for sewers and water shafts

Microtronics Engineering GmbH

Stefan Pfeffer
Managing Director Finance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Overview Sustainable Solutions
Swarm sensor technology for early detection and monitoring of regional rainfall events and for avoiding blockage in the sewage system
Drinking water Elevated tank Level measurement
Drinking water network monitoring
Control centre for intelligent outdoor applications
Self-sustainable outdoor or control cabinet controller for telecontrol, automation and control
Pump in waterworks
Real-time water level monitoring for disaster prevention
Live gas measurement in the ATEX zone and automatic dosing control
Large water meter shaft
Monitoring of an overflow into a body of water
Sewer level
Basin level
Monitoring the overflow
Drainage pump
Waste water
Groundwater level measurement
Platform - quick & easy configuration
Drainage monitoring and monitoring of reservoir levels and stormwater overflow basins
Waste water and overflow protection
Drinking water Wells Groundwater Spring discharge
Self-sustainable IoT
IoT in the electrical cabinet
IoT in rough environments
Microtronics

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Sensors

Microtronics devices

Microtronics platform

Control system connection & process system technology

e.g.

FlowChief

SCHRAML

mSyS.
Prozessleitsystem

Ecosystem

Microtronics

Decision-grade data

- From small to large-scale applications
- Above-average battery life
- 10 second measurement interval
- Worldwide data transmission
- Interface to AI/SCADA systems

Microtronics

Target audience

- Municipalities
- Infrastructures
- (Waste) water management
- Energy sector

→ That requires a strong partner network

Microtronics

Cooperation partners

- Organisations that rely on decision-grade data
- Partners
- End customers

Microtronics

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Book a meeting with: Microtronics

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Managing Director Finance
Microtronics Engineering GmbH

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Microtronics

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Pitch Presentations

Time to meet the innovators!

Pitch 5

Indymo

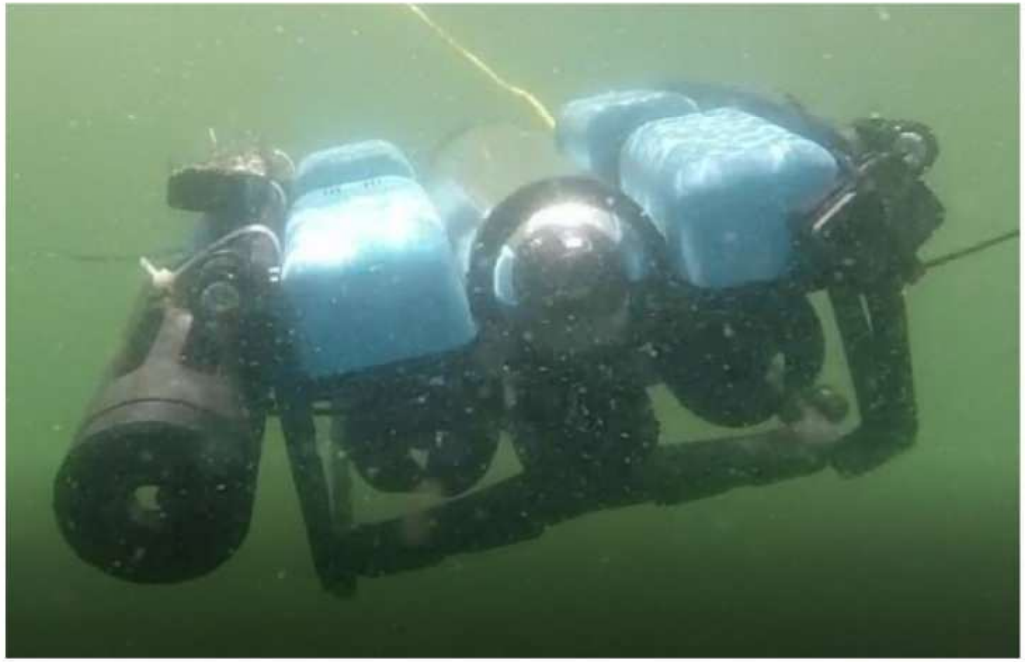
Rui Lima

Aquatic drones in water management: applications for water quality monitoring, ecology scans and inspections of infrastructure

Indymo

Rui Lima
Researcher, General Manager

Revolutionizing Water Monitoring with Aquatic Drones



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Innovative Dynamic Monitoring

We offer innovative monitoring services using affordable, cutting-edge aquatic drones, designed to collect underwater images, and water quality data. We make multi-dimensional spatial data collection and underwater inspections accessible to a wide range of organizations.

Discovering new insights in your water system

Water systems are critical to human and ecological survival. With climate change and urban development these systems are changing faster than ever. Therefore, there is an urgency of better and dynamic monitoring methods and technologies.

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indymo

- Pioneer in the use of underwater drones for environmental studies
- SME, with 10 years of experience in aquatic robotics R&D and in exploring promising applications in the water sector
- Research-driven, with strong link to education institutions
- Active in international projects since 2017 (Indonesia, Perú, Mali, Myanmar, Vietnam, Denmark, Portugal)
- Located in Delft, The Netherlands

Why innovative dynamic monitoring solutions for water quality?

European and national regulations require extensive monitoring to assess the water quality and ecological status of water bodies

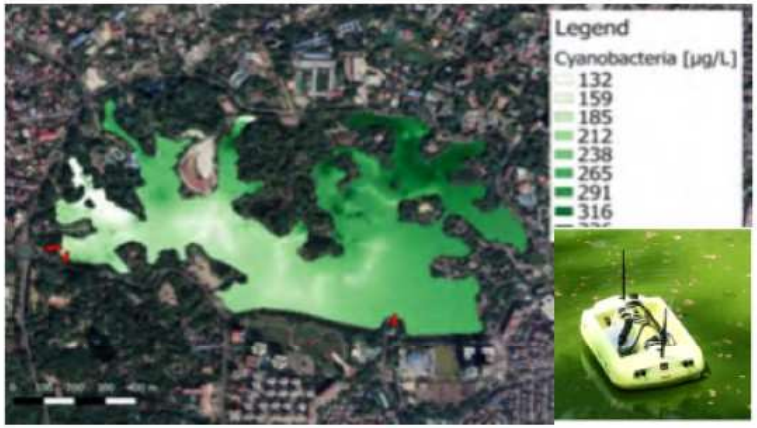
Grab Samples are the most common monitoring method:

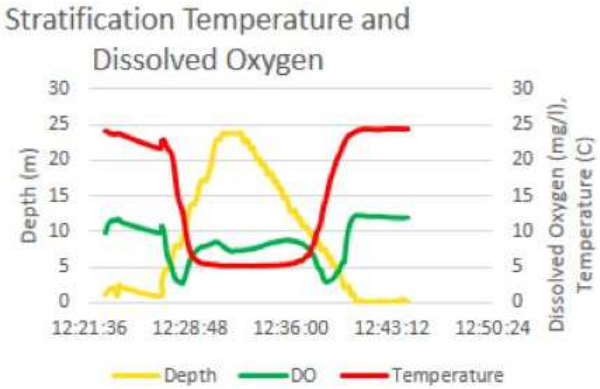
- Single point in time
- Posterior testing/analysis in a laboratory
- Several points can be combined to reflect the overall condition of a water body
- Time consuming and not cost-effective

Urgency to develop (cost)efficient monitoring methods and tools to support informed water management decisions, enhance understanding of water systems, and refine hydrodynamic models.

Aquatic drones at the service of water professionals!

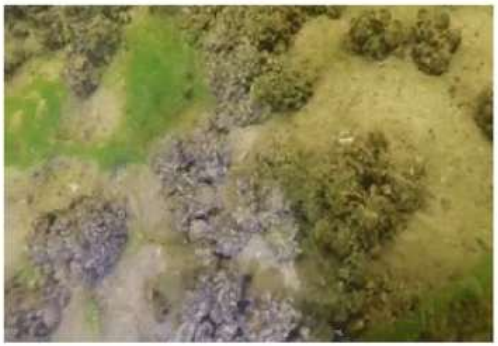
Water quality: mapping, stratification profiling and collection of water samples



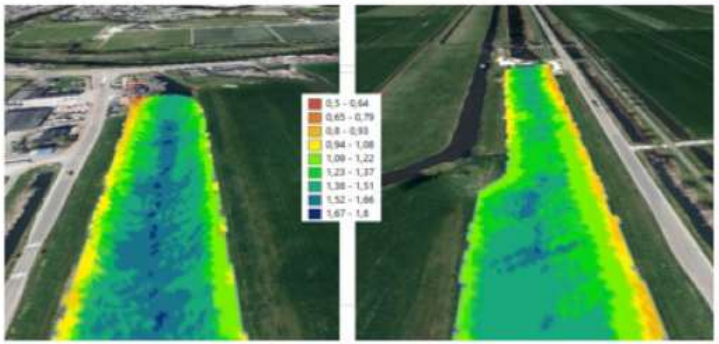


Inspections (quays, culverts/pipes)

Ecological observations



Bathymetry

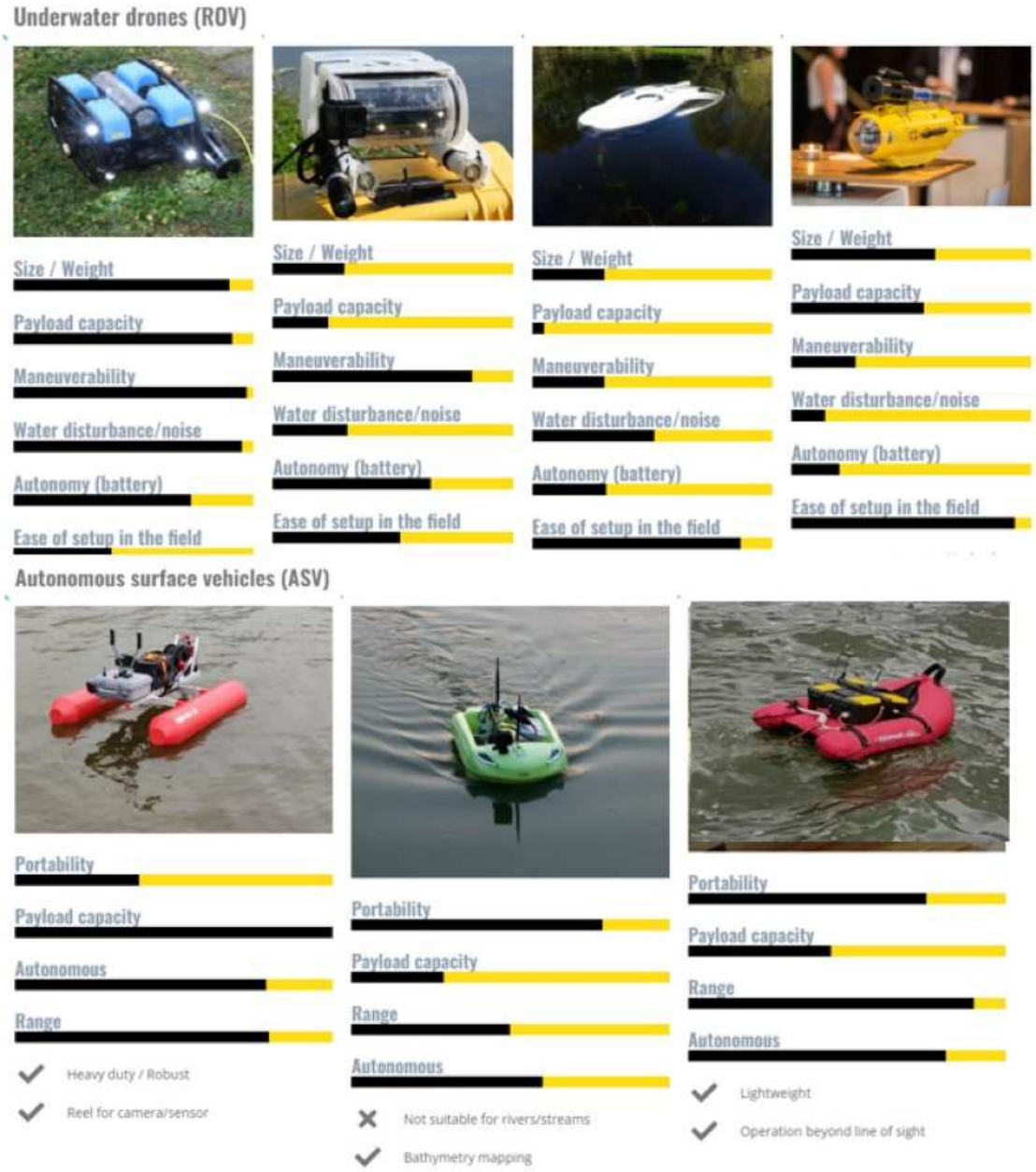


Different vehicles and sensor configurations

Underwater and surface vehicles, or a combination
(e.g. support vessels system, communication relay)

**<u>To collect multi-dimensional datasets
and imaging of underwater environments</u>**

- Autonomous navigating capabilities, waypoint missions
- Remote control via 4G/LTE communication,
- Underwater positioning and communication systems
- Sonar, underwater GPS and DVL technology
- Adaptive navigation algorithms (based on measured data)



Any sensors/cameras/devices can be fitted in our drones

Water Quality Sensors

Parameters:

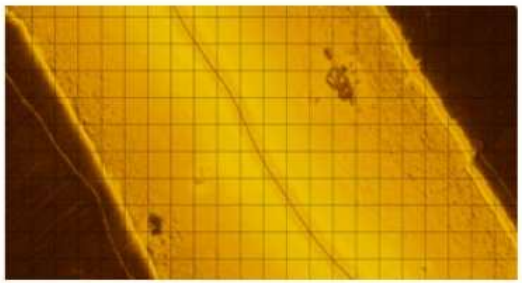
- Turbidity
- Dissolved oxygen
- Electrical conductivity
- Chlorophyll-a
- Blue/green algae
- pH
- Pressure/depth

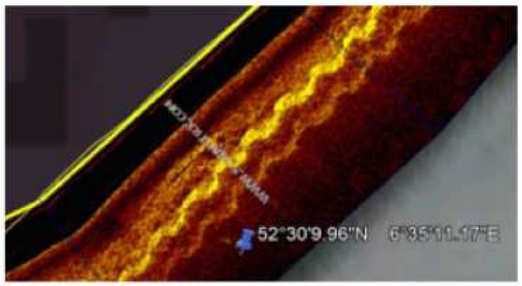
Imaging technologies

- RGB low light cameras
- Multibeam Side-Imaging
- Flood light system

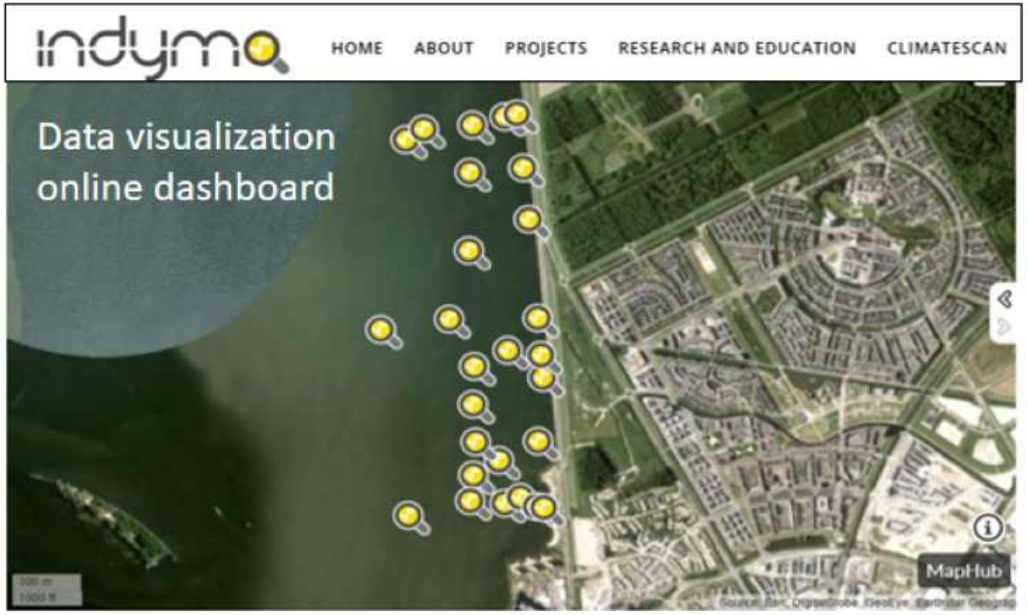
Other systems and tools

- Manipulator robotic arm
- Samplers (water)
- Navigation instrumentation
- Extended payload and battery capacity






Live stream visualization and control through radio or 4G, android systems, and headset
4G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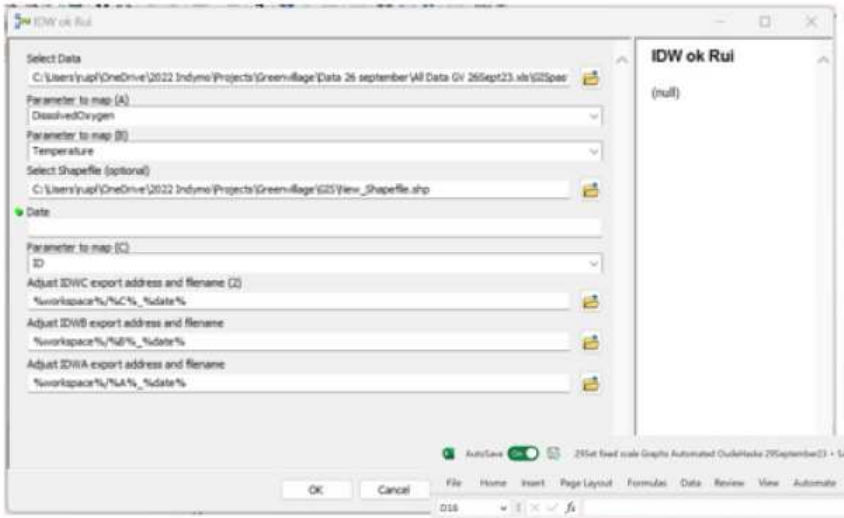
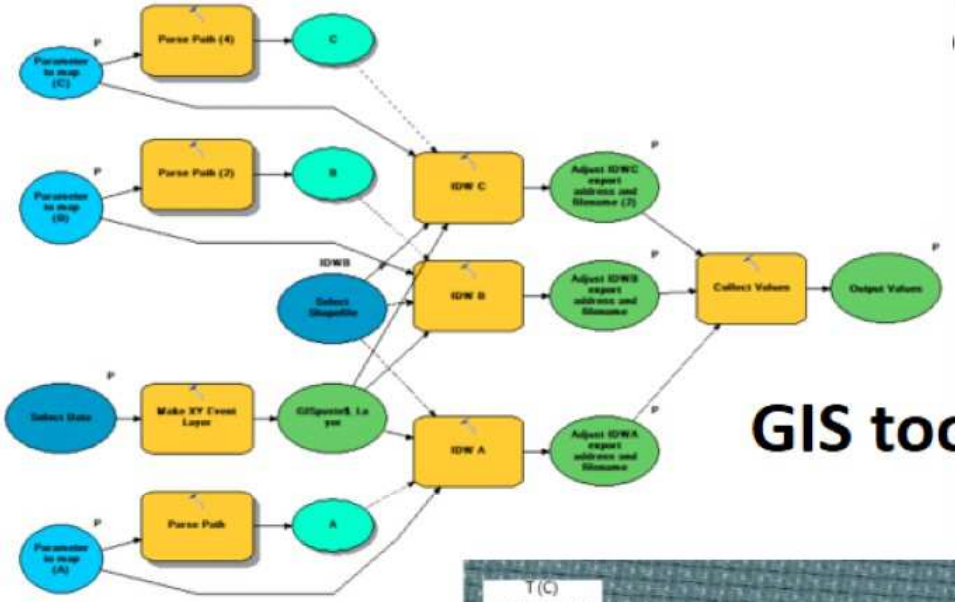
HOME
ABOUT
PROJECTS
RESEARCH AND EDUCATION
CLIMATESCAN
Data visualization online dashboard
MapHub


Real-time data visualization
4G
9.07
7.44
372.7
0.49
372.7
96.0
10.88
13.96
18.06
0.5

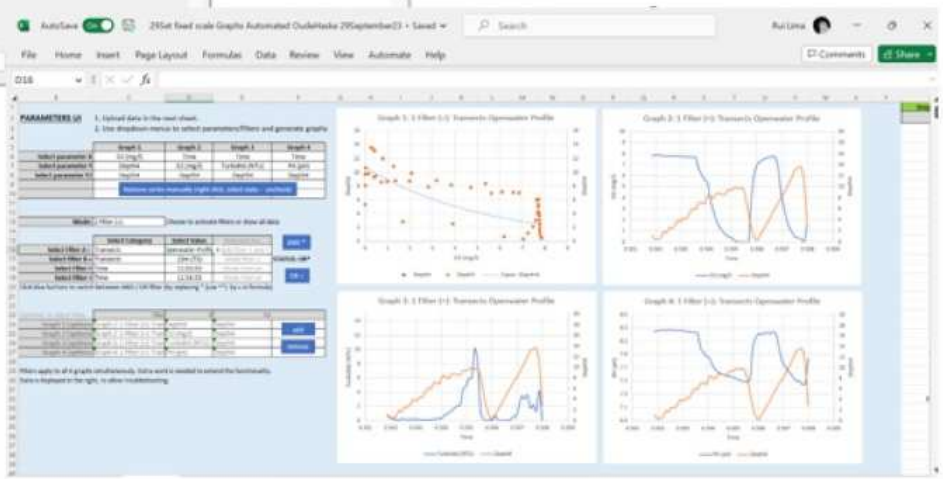

Autonomous collection of water samples
R&D: COLLECTING WATER SAMPLES
GIFRUN.COM

Data processing tools and automation

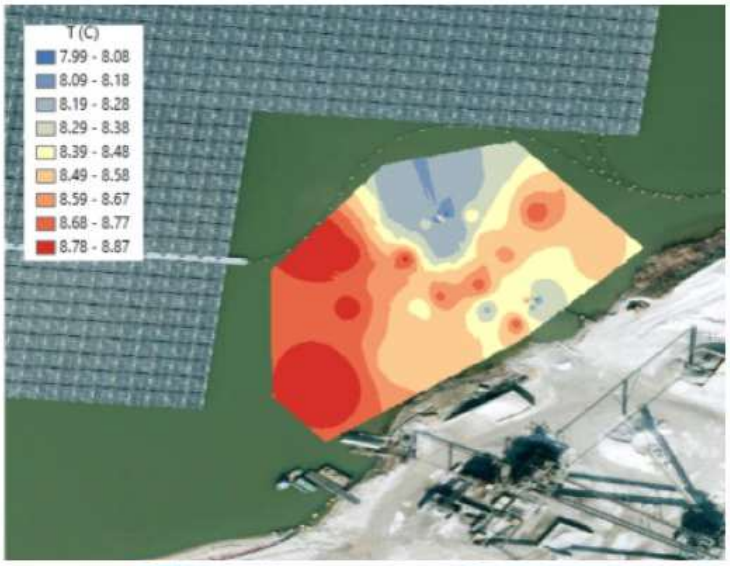




GIS tool



Optimization of data processing and map generation

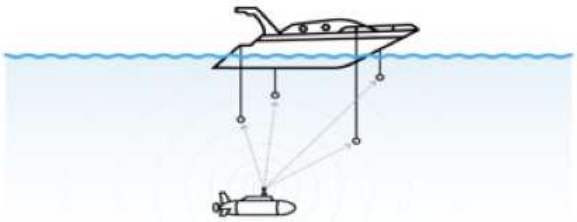


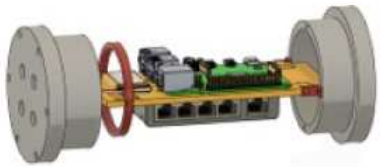
Competitive and flexible solutions to address challenging tasks

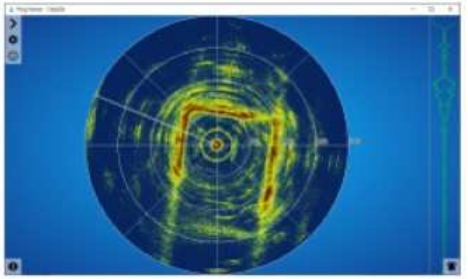
Tailored Solutions
Custom sensor integration based on each project's specific data collection requirements.

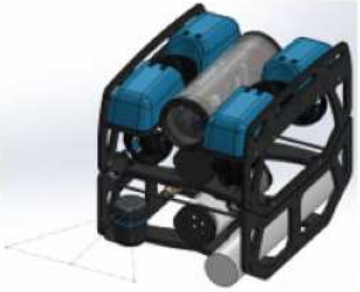
Adaptability
Flexibility to modify sensor configurations as project needs evolve.

Scalability
Suitable for applications ranging from shallow water mapping to river monitoring and large-scale ecological research.

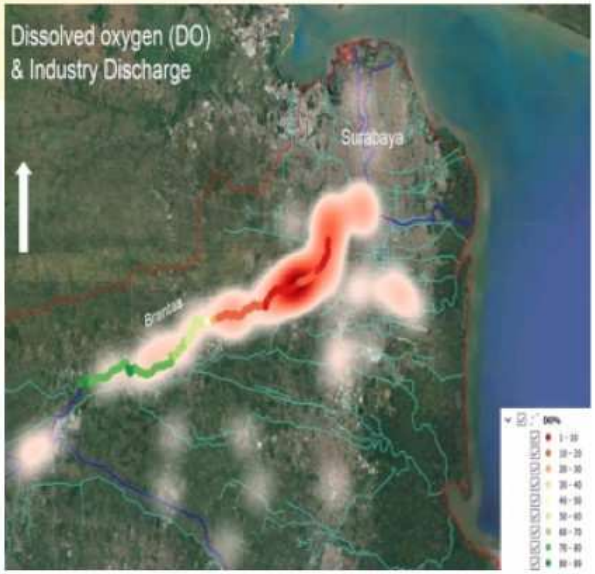







International Projects



Baseline studies and monitoring of water quality

Field campaigns in Indonesia, Mali, Vietnam, Peru, Myanmar.

- Monitoring with drones - learn local challenges and potential for implementation
- Monitoring with apps (test strips and phone app)
- Monitoring of large areas using sensors on boats / ASVs

indymo

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Book a meeting with: INDYMO

Rui Lima
Researcher, General Manager
Indymo
Rui.plima@indymo.nl

een.ec.europa.eu

Pitch Presentations

Time to meet the innovators!

Pitch 6

Ambling Ingenierìa y Servicios

Sergio Miguel

Water Prediction Models based on Artificial Intelligence

AMBLING INGENIERÍA Y SERVICIOS

Sergio Miguel
R&D Leader

Our solution enables real-time water consumption prediction through advanced data analysis and machine learning models.

This approach optimizes water resource management, reducing losses and improving operational efficiency.

The technology is highly adaptable to different environments and sectors, from urban supply to industrial network management, facilitating informed and sustainable decision-making.

Our solution combines IoT sensors for real-time monitoring with predictive models based on artificial intelligence.

These models analyze consumption patterns, weather conditions, and other key factors to generate accurate forecasts.

This technology helps companies and administrations prevent leaks, optimize water distribution, and improve demand planning.

Our solution stands out for its ability to provide highly accurate predictions, enabling the minimization of water waste and improving water management efficiency.

Measurable Sustainable Impact:

- *Reduction of water losses in distribution networks by up to 20%.*
- *Improvement in supply planning efficiency by 30%.*
- *Decrease in energy consumption associated with water pumping and treatment.*

SustainableSolutionsMatch

Our solution is designed for:

- *Water cycle management companies*
- *Public administrations and infrastructure operators*
- *Industries with high water consumption*
- *Smart cities and urban sustainability projects*

All these entities can benefit from more efficient water management, reducing costs and minimizing environmental impact.

SustainableSolutionsMatch

We seek collaborations with:

- *Research centers and universities specializing in water technologies and sustainability.*
- *Technology companies and IoT sensor providers.*
- *Governments and public entities interested in improving water efficiency.*
- *Software companies for integration with infrastructure management platforms.*

SustainableSolutionsMatch

#EENCanHelp

Book a meeting with: AMBLING

Sergio Miguel
R&D Leader
Ambling Ingeniería y Sevicios S.L.
smiguel@ambling.es

een.ec.europa.eu

Up2Circ

enterprise europe network

Pitch Presentations

Time to meet the innovators!

Pitch 7

Grasp Earth

Eliot Llopis

Aerosol monitoring for a better understanding of Climate impact from municipalities and industries

GRASP Earth

Eliot Llopis
Head of Communication

Aerosols direct inference on Climate impact

- Aerosols affect surface temperature, precipitation, and extreme weather.
- Policymakers in municipalities should include aerosol impacts in NDCs and NAPs.
- As with GHG, global collaboration is needed for pushing aerosol integration in climate plans.

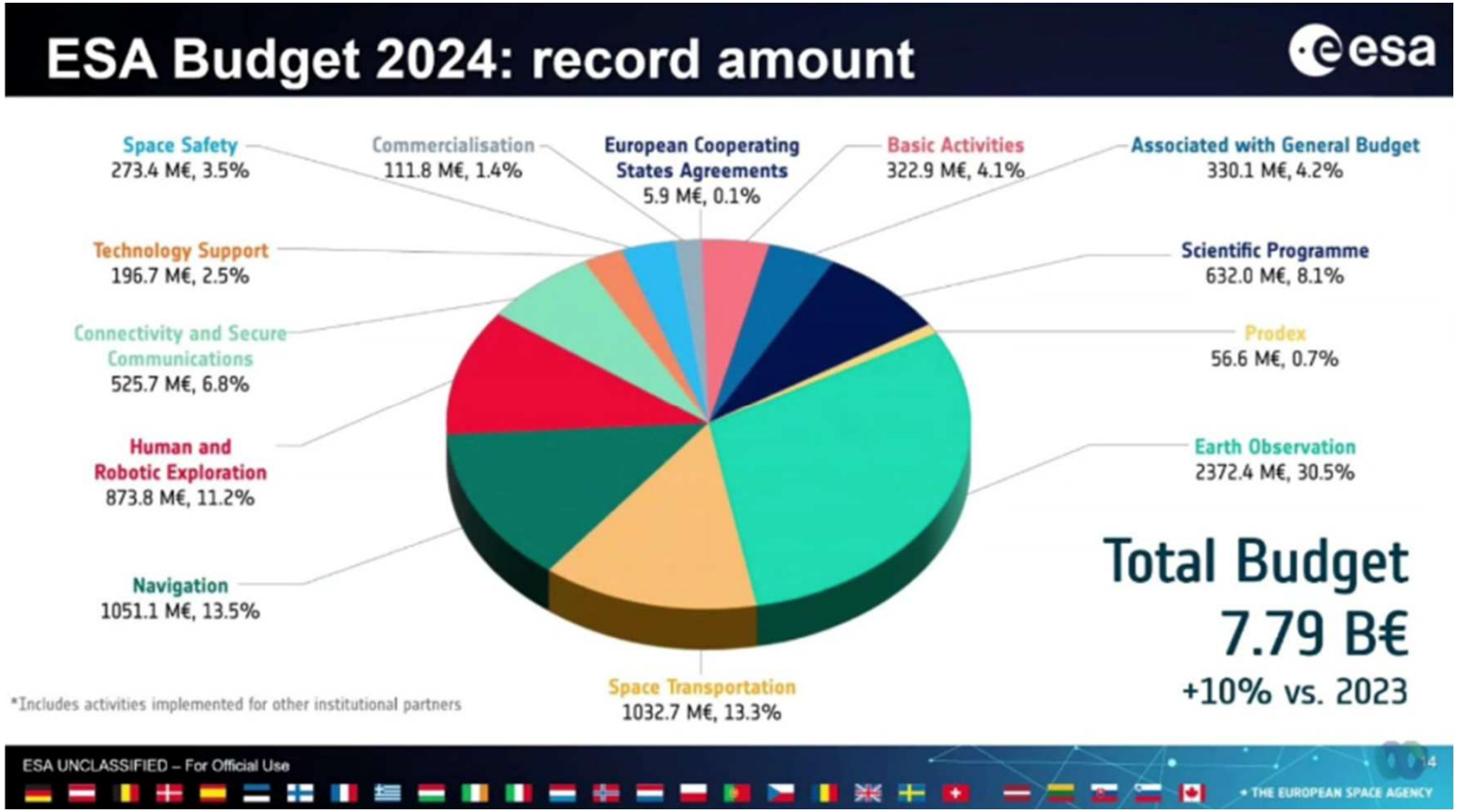
World Health Organization. (2021). **WHO global air quality guidelines: Particulate matter (PM2.5 and PM10), ozone, nitrogen dioxide, sulfur dioxide and carbon monoxide**. Geneva: World Health Organization. https://www.who.int/publications/i/item/9789240034228

Current Aerosol monitoring limitations

1. ***Model-based solutions***
    a. *What? Use generalized environmental models*
    b. *Positive: Cover gaps from ground sensors data, extending the coverage.*
    c. *Negative: It is based on assumptions. May inaccurately estimate pollution levels by 30-50% missing small but significant emission sources.*

1. ***Ground-based solutions***
    a. *What? Use of ground stations to capture real data*
    b. *Positive: Data is accurate*
    c. *Negative: Expensive method, limited scalability. Covers less than 5% of a city's area. Usually complemented by low reliable low-cost sensors and models based on assumptions.*

Space is the answer



https://thenextweb.com/news/european-space-agency-esa-budget-2024

Our mission

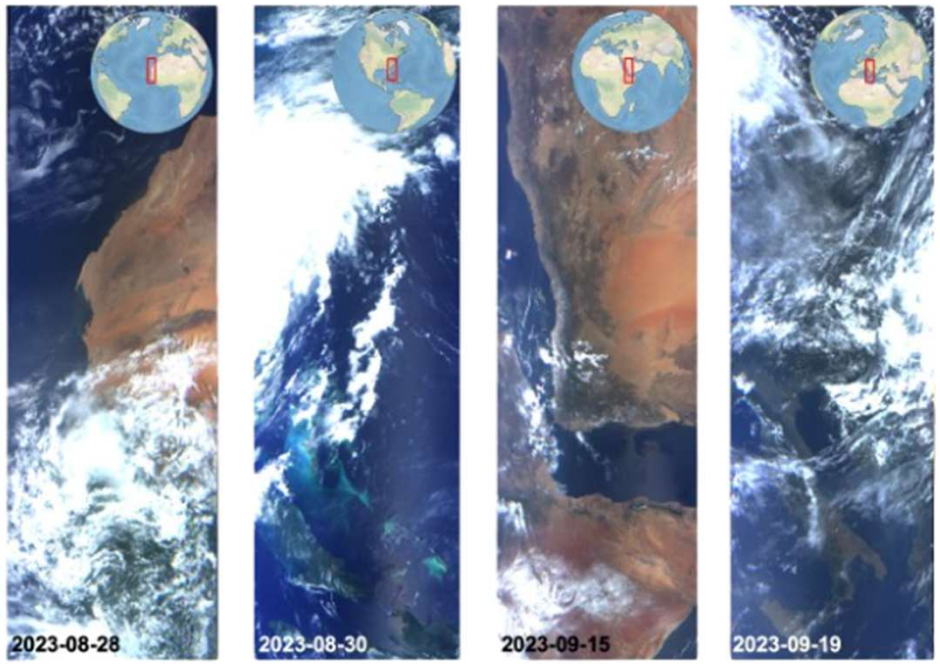


Image:GAPMAP-0's data scenes across 4 different regions of the globe. Each scene is identified with the specific region on a map and the corresponding capture time. Source: GRASP

+80k
CITATIONS

RESEARCH SCIENCE ENGINEERING

The outcome

COVERAGE

100% global and spatial full atmospheric column coverage. No assumptions

RoI

Up to 70-75% cheaper than existing methods with a very high Return on Investment.

RELIABLE

Based on 30 years of atmospheric r&d and proven Space technologies.

enterprise europe network

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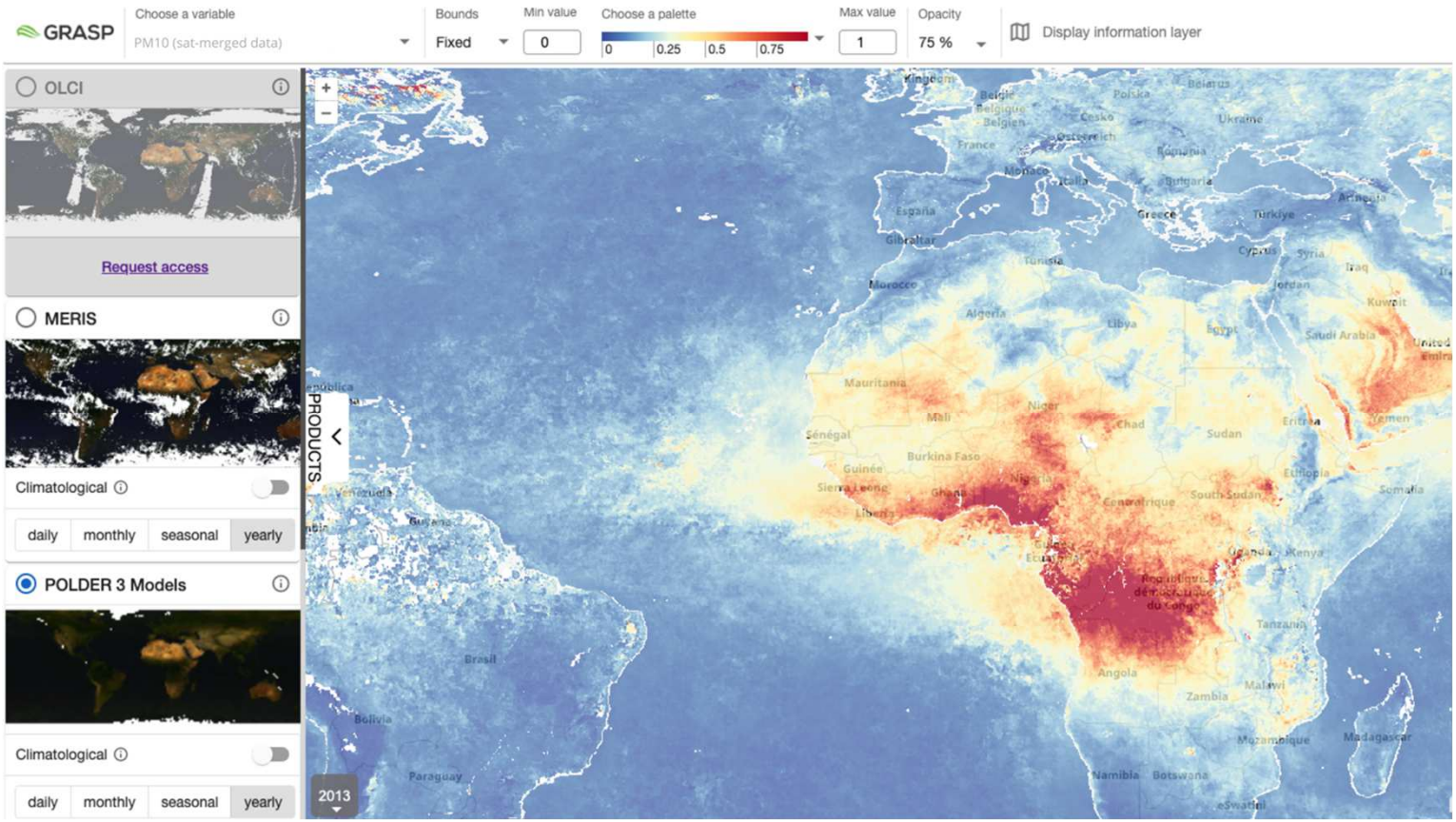
Test your aerosol impact today



PM10 map from POLDER 3 satellite data merge. Source: GRASP-Open

#EENCanHelp

Book a meeting with: GRASP Earth

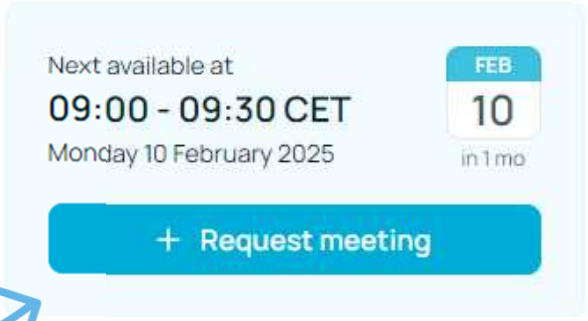
Eliot Llopis
Head of Communication
eliot.llopis@grasp-earth.com

een.ec.europa.eu

Closing Remarks

A big thank you to all pitchers and attendees!
We appreciate your participation today.

If you'd like to connect with any of the pitching companies, please use the matchmaking tool to **book a meeting**!



Need support? **Enterprise Europe Network is here to help!**

Reach out to your local Network partner:

https://een.ec.europa.eu/local-contact-points

#EENCanHelp

Thank you!

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