



Sustainable Peri-Urban framework
for Climate Neutral development

SOLUTIONS PROVIDER

AI-Analytics Designer



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General Information

Solution Name

AI-Analytics Designer for sustainable manufacturing and governance

Solution Type

Digital Tool

Solution Owner

SIMAVI

TRL Level

TRL 5 - Target TRL 7

Challenge solved

Target Pain Point

A real-time AI-powered sustainability analytics tool that provides predictive maintenance, optimizes energy use, and supports circular economy transitions, enabling manufacturers, and regulators to make data-driven decisions.

The Innovation

Core Functionality

- AutoML and IoT-driven real-time analytics
- Predictive maintenance and defect prevention
- Real-time sustainability monitoring dashboards

Beyond State of the Art

The tool combines industrial efficiency with AI-based sustainability governance. It provides predictive maintenance and industrial defect prevention capabilities, reducing downtime and waste. The AI-Analytics Designer integrates participatory governance functions that allow local authorities to track emissions, enforce Local Green Agreements and align industry with climate goals. It promotes industrial symbiosis by identifying opportunities for converting waste into AI-based resources, and ultimately provides a replicable AI-based governance model in peri-urban carbon reduction efforts.



User value - Benefits

01

Predictive maintenance
and defect prevention

02

Optimize energy use

03

Circular economy
transitions support

04

Data-driven decisions

Implementation and validation

Living Lab

Living Lab 1, 2 and 3.

Replication Potential

The adoption of the solution on other sites will be facilitated by the experience and lessons learned from the LL implementation and testing process.



SPURUP

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National
Technical
University
of Athens



pwc



cesie
the world to only one direction



IUE
Institute
for Urban
Excellence



SIMAVI
Software Imagination & Vision



University of
BRISTOL



WEST
OF ENGLAND
MAYORAL
COMBINED
AUTHORITY



FGS



prometech



DITENCO
ocean efficient engineering



MG sustainable



IANUS
TECHNOLOGIES



ppc inspectra



Suite5
We Deliver Intelligence



Teletia
Technologies



UNIQ CUBE



ΑΘΗΝΑΪΚΗ
ΖΥΘΟΠΟΙΑ



Aalborg
Kommune



CITY OF
THESSALONIKI



ZAGORKA



PORT OF
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AALBORG UNIVERSITY
DENMARK



ULTRAQUA
UV DISINFECTION SYSTEMS



Fulcea



IAMR
European Research Institute
Naples 1981



AESS



IESI
Comune di Iesi



CNH



novelcore
Innovation & Commercial



frontier
innovation
centre



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