



Sustainable Peri-Urban framework
for Climate Neutral development

A large, modern glass building with multiple levels of green terraces and trees, set against a blue sky with light clouds. The building has a grid-like facade of glass panels. A green L-shaped graphic element is on the left, and a yellow arrow graphic points upwards on the right.

SOLUTIONS PROVIDER

Manufacturing-as-a-Service (MaaS) platform



Funded by
the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Climate, Infrastructure and Environment Executive Agency (CINEA). Neither the European Union nor the granting authority can be held responsible for them.

General Information

Solution Name

Manufacturing-as-a-Service
(MaaS) platform

Solution Type

Digital Tool

Solution Owner

SIMAVI

TRL Level

TRL 5 - Target TRL 8

Challenge solved

Target Pain Point

The MAAS platform will be decentralized, industrial resource-sharing system designed to optimize manufacturing efficiency, reduce waste, and accelerate the green transition in peri-urban areas. This platform will enable industries to share manufacturing resources, production capacity, and logistics infrastructure, promoting circular economy principles and energy efficiency while minimizing costs.

The Innovation

Core Functionality

- Advanced matchmaking
- Digital twins
- Industrial resource allocation optimization

Beyond State of the Art

The MaaS tool will transform peri-urban manufacturing into a sustainable, circular and collaborative industrial ecosystem, while reducing costs, emissions and resource inefficiencies, while advancing the state of the art by creating a decentralized, federated MaaS ecosystem where manufacturing resources are dynamically shared through matching, enhancing interoperability through digital twins, optimizing industrial resource allocation and reducing waste, facilitating Local Green Agreements by connecting industries with city authorities, businesses and policymakers to jointly develop sustainable industrial frameworks and scaling a replicable MaaS governance model, ensuring broad adoption in peri-urban regions.



User value - Benefits

01

Sharing the manufacturing resources, logistics, and production

02

Reducing waste and increasing efficiency

03

Local Green Agreements facilitation

04

MaaS governance model

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

Sustainable Peri-Urban framework
for Climate Neutral development



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



Aalborg
Kommune



PORT OF
AALBORG



PORT OF
AALBORG



PORT OF
AALBORG
LOGISTICS



Aalborg
Kommune



AALBORG UNIVERSITY
DENMARK



ULTRAQUA
UV DISINFECTION SYSTEMS



Fulcea



IAMR
European Research Institute
Naples 100



AESS



IESI
Comune di Iesi



CNH



novelcore
Innovation & Commercial



frontier
innovation
centre



Funded by
the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Climate, Infrastructure and Environment Executive Agency (CINEA). Neither the European Union nor the granting authority can be held responsible for them.