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Build4Cit
SIMAVI CL5 Pitch

Software Imagination & Vision

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Monica FLOREA

Head of Unit European Projects Department
Monica.Florea@simavi.ro

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SIMAVI
Software Imagination & Vision

Software Imagination & Vision (SIMAVI) has strong experience in R&D projects as **technological partner, integrator, as well as coordinator in over 70 awarded projects** within **Horizon Europe, H2020, ERASMUS+, DEP, EDF, ISF, ERA-Net, EUREKA and COST**.
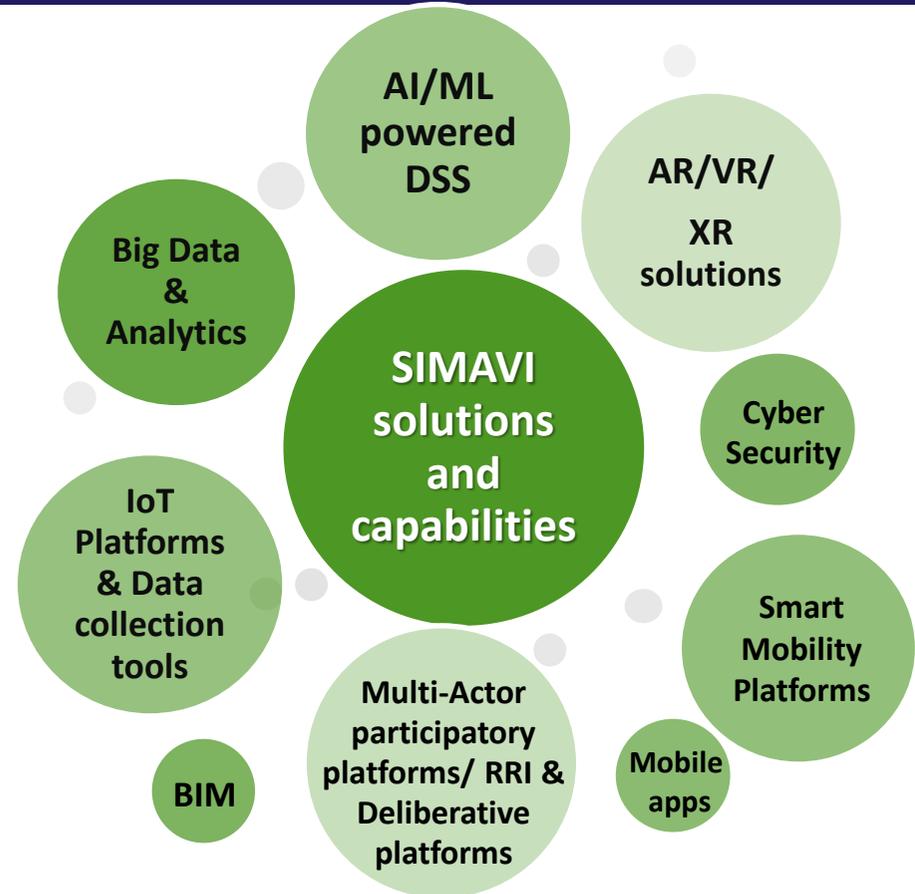
REFERENCES

Click on Projects

ENERGY SHIELD
[Coordinator SIMAVI]

INTERPED

inteGRIDy

FlexiGrid

NEVERMORE

EUNOMIA

DEM4PED

CyberSEAS

Opt4EU

iDRIVING

PANTHEON

SIMAVI solutions and capabilities

AI/ML powered DSS

AR/VR/ XR solutions

Big Data & Analytics

Cyber Security

IoT Platforms & Data collection tools

Smart Mobility Platforms

Multi-Actor participatory platforms/ RRI & Deliberative platforms

Mobile apps

BIM

R&D Projects ✉ **Monica.Florea@simavi.ro**

Topic: **HORIZON-CL5-2026-09-D4-03: Advanced data platforms to integrate whole life carbon in building information tools, assessments, and certification (Built4People Partnership)**

Deadline: 15th of September 2026

Type: Innovation Action, Lump Sum

TRL: Activities are expected to achieve TRL 6-8

Funding: EUR 5.50 million / project, 2 projects to be funded

Project idea Build4Cit

Build4Cit will develop an **interoperable suite of digital solutions that enables building stakeholders to make data-driven decisions supporting whole-life energy, carbon, and environmental performance**. The project will also advance EU-wide adoption of whole life carbon (WLC) assessments and contribute to the Built4People Partnership, delivering:

❑ **Interoperable Digital Platform for Whole-Life Data**
Build4Cit will develop a secure, EBSI-based Digital Data Sharing Platform that integrates real-time building data, BIM, EPCs, SRIs, BRPs, Digital Product Passports, Digital Building Logbooks, and national/international LCI databases. It will enable accurate, EU-aligned whole life carbon (WLC) assessments and improve the reliability of embodied environmental flow data.

❑ **Advanced Analytics and Decision-Support Tools**
Build4Cit will deliver hybrid ML-enhanced digital twins, advanced renovation and investment planning tools, and interoperable data standards to optimise operational carbon performance, renovation pathways, and decarbonisation strategies across the building lifecycle.

❑ **Next-Generation Building Management and Data Sovereignty Solutions**
Build4Cit will introduce an integrated BMS that leverages local and external datasets for energy optimisation and user comfort, alongside an EBSI-based DBL wallet ensuring immutable, sovereign storage and sharing of critical lifecycle and building data.

❑ **Large-Scale Validation Across Diverse Building Types**
Three large-scale pilots: residential, commercial, and educational will demonstrate the scalability, interoperability, and impact of the Build4Cit ecosystem, supporting digitalisation, WLC transparency, and the Built4People Partnership's low-carbon building transformation objectives.

Project idea Build4Cit

Consortium partners:

✓ ICT & platform integrators & UX

✓ Digital twin & AI specialists

Looking for:

✓ LCA & WLC & lifecycle data experts

✓ SSH & behavioural experts

✓ Standardization & certification bodies

✓ Pilot ecosystems: Building managers & Construction/renovation companies

Pilots:

✓ A range of **building types (such as residential, commercial, educational, etc.)** to **<u>address diverse use cases</u>** (including **energy monitoring, renovation optimization, etc.)**

R&D Projects   Monica.Florea@simavi.ro

CL5 Topics of interest:

- **HORIZON-CL5-2026-07-D1-01:** Next generation climate monitoring and related capabilities
- **HORIZON-CL5-2026-07-D1-04:** Fighting disinformation and effectively communicating on climate change
- **HORIZON-CL5-2025-05-D3-14:** Development of innovative solutions strengthening the security of renewable energy value chains
- **HORIZON-CL5-2026-02-D3-19:** Innovation solutions for a digital spine in the EU energy system
- **HORIZON-CL5-2026-02-D3-20:** Innovative tools and services to manage and empower energy communities
- **HORIZON-CL5-2026-03-D3-23:** AI-driven forecasting algorithms for Grid and Consumer friendly Energy Sharing – Societal Readiness pilot
- **HORIZON-CL5-2026-02-D4-04:** Innovative approaches for the deployment of Positive Energy Districts
- **HORIZON-CL5-2026-09-D4-01:** Researching the technical, social & economic factors impacting the energy performance of Smart Buildings (Built4People Partnership)
- **HORIZON-CL5-2026-09-D4-03:** Advanced data platforms to integrate whole life carbon in building information tools, assessments, and certification (Built4People Partnership)
- **HORIZON-CL5-2026-05-D5-14:** Ports of the future (ZEWT Partnership)
- **HORIZON-CL5-2026-01-D6-06:** Federated CCAM data exchange platform (CCAM Partnership)
- **HORIZON-CL5-2026-10-D6-09:** Road Safety and resilience of rural areas
- **HORIZON-CL5-2026-10-D6-10:** Enhanced resilience in multimodal passenger transport through digital technologies and generative and discriminative AI

CLUSTER 5 Destinations:
D1: Climate sciences and responses for the transformation towards climate neutrality
D3: Sustainable, secure and competitive energy supply
D4: Efficient, sustainable and inclusive energy use
D5: Clean and competitive solutions for all transport modes
D6: Safe, Resilient Transport and Smart Mobility services for passengers and goods

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Specific contributions to CL5 topics:

- ❑ **EIIS (Energy Integrated Information System) application**;
- ❑ **Building information management systems;**
- ❑ **Interactive Dashboards with data modelling & visualization and predictive analytics**;
- ❑ **Software Architecture for small and medium distribution system operators (DSOs)**;
- ❑ **Integrated Smart GRID Cross-Functional Solutions**;
- ❑ **IoT Platform development & Data integration from IoT sensors**;
- ❑ **Social Media Acquisition Engine to monitor, analyze, and counteract disinformation**;
- ❑ **Digital app/ platform for community engagement, awareness, and reporting**;
- ❑ **Mobile and in-vehicle applications for early warnings**;
- ❑ **Digital Twin-Based Control Center with XR features**;
- ❑ **ICT Toolkit for simulating and assessing the impacts and risks of climate change;**
- ❑ **Cybersecurity domain solutions** (vulnerability assessment, threat detection, risk mitigation):
  - Heatmaps to represent vulnerable components or malware/intrusion activity;
  - Dashboard and Attack Graphs displaying how an intruder can traverse a network of nodes through vulnerabilities;
  - Dark Web Monitoring tool (MT) for potential threats;
  - SIEM (System Information Event Management) for collecting and analyzing security event data.
- ❑ **Pilot deployment and implementation in Romania and Eastern Europe**, by engaging key partners: DSOs/TSOs, Buildings, Hydropower plants, Transport System Operators, Car manufacturing & Automotive, Smart Cities & Public Authorities, Meteorological agencies, Ministry of Environment, Ports & Airports, Shipyards, NGOs & Clusters.

R&D Projects   ✉   **Monica.Florea@simavi.ro**

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Thank you!

Monica FLOREA
Head of Unit European Projects
Monica.Florea@simavi.ro

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