SIMAVI
Software Imagination & Vision

European R&D Projects

Horizon EUROPE   ERASMUS+

Digital EUROPE   ERA-Net

ISF

EUREKA   EDF   Horizon 2020

+ 70 EUROPEAN R&D projects

10 HE Projects as Coordinator

TECHNOLOGIES

GenAI

AI/ML

IoT

Integration & Interoperability

Big Data Analytics

Cloud computing

Cybersecurity

GIS

Digital Twins

AI-based DSS

Federated Learning

AR/VR/XR

Virtual Assistants

Mobile Technologies

Serious Games

Security

Energy

eCustoms

eGovernment

eTraining

eAgriculture

eHealth

Customized Applications

Industry 4.0

eLearning

Enterprise Application Suite

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R&D references: *https://www.simavi.ro/en/rd-projects*

CyberSecurity

SECUR-EU – Enhancing Security of European SMEs in Response to Cybersecurity Threats (DEP). *www.secur-eu.eu*

ECHO - European network of Cybersecurity centres and competence Hub for innovation and Operations. *www.echonetwork.eu*

SIMARGL - Secure Intelligent Methods for Advanced RecoGnition of malware and stegomalware. *www.simargl.eu*

SECANT – SECurity And privacy protectioN in Internet of Things devices. *www.secant-project.eu*

CC-DRIVER – CyberCriminality Driver *www.ccdriver-h2020.com*

Border & Customs Security

MARCONNECT - Securing Europe's MARitime domain against threats through vessel- CONNECTed services (SIMAVI Coordinator).

ODYSSEUS - Unobtrusive Technologies for Secure and Seamless Border Crossing for Travel Facilitation. (SIMAVI Coordinator) *www.odysseusproject.eu*

BorderUAS - Semi-autonomous border surveillance platform combining next generation unmanned aerial vehicles with ultra-high-resolution multi-sensor surveillance payload (SIMAVI Coordinator). *www.borderuas.eu*

CONNECTOR – CustOms exteNded iNteroperablE Common informaTiOn sharing environment. *www.connector-project.eu*

METICOS - A Platform for Monitoring and Prediction of Social Impact and Acceptability of Modern Border Control Technology. *www.meticos-project.eu*

ISOLA - Innovative & Integrated Security System on Board Covering the Life Cycle of a Passenger Ships Voyage. *www.isola-project.eu*

Technologies for prevention, investigation and mitigation

LAW-GAME - An Interactive, Collaborative Digital Gamification Approach to Effective Experiential Training and Prediction of Criminal Actions. *www.lawgame-project.eu*

RED-Alert - Real-time Early Detection and Alert System for Online Terrorist Content based on Natural Language Processing, Social Network Analysis, Artificial Intelligence and Complex Event Processing (SIMAVI Coordinator)

PREVISION - PREdiction and Visual Intelligence for Security InformatiON. *www.prevision-h2020.eu*

CREST - Fighting Crime and Terrorism with an IoT-Enabled Ecosystem of Advanced Intelligence, Operations, And Investigation Technologies. *www.project-crest.eu*

SPIRIT – Synergies to Protect places of worshIp and RelIgious gaTherings (ISF). *www.spirit-isf.eu*

SpeechXRays - Multi-channel biometrics combining acoustic and machine vision analysis of speech, lip movement and face. *www.speechxrays.eu*

Security for Critical Infrastructures

VIGIMARE - Vigilant Maritime Surveillance of Critical Submarine Infrastructure. *https://vigimare.eu/*

IMPETUS - Intelligent Management of Processes, Ethics and Technology for Urban Safety H2020. *www.impetus-project.eu*

ENSURESEC - End-to-end Security of the Digital Single Market's E-commerce and Delivery Service Ecosystem. *www.ensuresec.eu*

Disaster - Resilient Society

TeamAware - Team Awareness Enhanced with Artificial Intelligence and Augmented Reality (SIMAVI Coordinator).

PANTHEON - Community-Based Smart City Digital Twin Platform for Optimised DRM operations and Enhanced Community Disaster Resilience.

www.pantheon-project.eu

Search and Rescue – Emerging technologies for the Early location of Entrapped victims under Collapsed Structures and Advanced Wearables for risk assessment and First Responders Safety in SAR operations.

www.search-and-rescue.eu

EDF

FEDERATES - FEDeratedEcosystem of euRopean simulation Assets for Training and decision Support. *www.federates.eu*

Industry 5.0, Circular Economy & Computing Technologies

ACCURATE - Achieving Resilience Through Manufacturing As A Service, Digital Twins And Ecosystems. (SIMAVI Coordinator) www.accurateproject.eu

HIVEMIND - Human-centred collaboratIVE MultI-ageNt framework for accelerating software Development and maintenance.

MATCHMAKER - Open data and industry driven environment for multiphase and multiscale Materials Characterization and Modelling combining physics and data-based approaches. *www.he-matchmaker.eu*

PREDICT-6G - PRogrammable AI-Enabled DeterminIstiC neTworking for 6G. *www.predict-6g.eu*

EUMINE - European Materials Informatics Network (COST Action). www.eumine-cost.eu

eHealth & HealthCare

CVDLink – A federated paradigm of real-world data sources utilization for the empowerment of diagnosis, prognosis and risk assessment of cardiovascular conditions (SIMAVI coordinator) www.cvdlink-project.eu

iBeChange – Addressing psychosocial and lifestyle risk factors to promote primary cancer prevention: An integrated platform to promote behavioural change. www.ibechange-website.ecancer.org

NEMO - Next Generation Meta Operating System. *www.meta-os.eu*

CircThread - Building the Digital Thread for Circular Economy Product, Resource & Service Management. *www.circthread.com*

KYKLOS 4.0 - An Advanced Circular and Agile Manufacturing Ecosystem based on rapid reconfigurable manufacturing process and individualized consumer preferences. *www.kyklos40project.eu*

ZDMP - Zero Defects Manufacturing Platform. *www.zdmp.eu*

ReCiPSS - Resource-efficient Circular Product-Service Systems. *www.recipss.eu*

FACTLOG - Energy-aware Factory Analytics for Process Industries. *www.factlog.eu*

ENACT - Environmental Effect on Health Care and Wellbeing and Active Interventions.

CARING NATURE - ClimAte neutRal INitiatives for GrowiNg heAlTh and care Unmet Requirements. www.caringnature.eu

PAINLESS - Pain relief in palliative care of cancer using home-based neuromodulation and predictive biomarkers.

www.palliativeprojects.eu/painless/

STRATIF-AI - Continuous Stratification for Improved Prevention, Treatment, and Rehabilitation of Stroke Patients Using Digital Twins and AI. *www.stratif-ai.eu*

Cultural heritage and Immersive technologies for Training

SHIFT - MetamorphoSis of cultural Heritage Into augmented hypermedia assets For enhanced accessibiliTy and inclusion (SIMAVI Coordinator). *www.shift-europe.eu*

XR4ED - eXtended Reality for Education *www.xr4ed.eu*

HECOF - Higher Education Classroom Of the Future (ERAMUS+). *www.hecof.eu*

PALAEMON - A holistic passenger ship evacuation and rescue ecosystem. *www.palaemonproject.eu*

eAgriculture & Food

AgriDataValue - Smart Farm and Agri-environmental Big Data Space. *www.agridatavalue.eu*

AGRARIAN - *pAce-AIr-Ground Last Mile InfRastructure & Dynamic PrOgrAmmable DistRibuted EnvIronment For Edge FArmiNg.* www.agrarian-project.eu

DEMETER - Building an Interoperable, Data-Driven, Innovative and Sustainable European Agri-Food Sector. *www.h2020-demeter.eu*

TRIBIOME - Advanced tools for integration and synergistic inTeRconnectIon of microBIOMEs in resilient food systems. *www.tribiome.eu*

MES-CoBraD - Multidisciplinary Expert System for the Assessment & Management of Complex Brain Disorders. *www.mes-cobrad.eu*

ProCare4Life - PeRsOnalized Integrated CARE Solution for Elderly facing several short or long term conditions & enabling a better quality of LIFE. *www.procare4life.eu*

InteropEHRate - Interoperable EHRs at user edge. *www.interopehrate.eu*

DeepHealth - Deep-Learning and HPC to Boost Biomedical Applications for Health. *www.deephealth-project.eu*

SPHINX - An Universal Cyber Security Toolkit for health-care industry. *www.sphinx-project.eu*

vCare - Virtual Coaching Activities for Rehabilitation in Elderly. *www.vcare-project.eu*

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Energy, Mobility and Smart Cities

EnergyShield - Integrated Cybersecurity Solution for the Vulnerability Assessment, Monitoring and Protection of Critical Energy Infrastructures (SIMAVI Coordinator). *www.energy-shield.eu*

INTERPED - INTERoperable cloud-based solution for cross-vector planning and management of Positive Energy Districts. www.interped.eu

iDriving - Intelligent & Digital Roadway Infrastructure for Vehicles Integrated with Next-Gen Technologies. https://idriving-project.eu/

CyberSEAS - Cyber Securing Energy dAta Services. *www.cyberseas.eu*

inteGRIDy - integrated Smart GRID Cross-Functional Solutions for Optimized Synergetic Energy Distribution, Utilization Storage Technologies. *www.integridy.eu*

FLEXIGRID - Enabling flexibility in future power grids. *www.flexigrid.org*

DEM4PED - Data Exchange Model For Positive Energy Districts.

Smart Communities and Water ecosystems

ITHACA - artificial Intelligence To enhance Civic pArticipation. *www.ithaca-project.eu*

ACAB - Accesible Credit for All Businesses.

EUNOMIA - User-oriented, secure, trustful & decentralised social media. *www.eunomia.social*

SUPER_MoRRI - Scientific Understanding and Provision of an Enhanced and Robust Monitoring system for RRI. *www.super-morri.eu*

LIV-IN - Living Innovation - Co-creationg smart futures with industry and citizens. *www.living-innovation.net*

NAIADES - A holistic water ecosystem for digitisation of urban water sector. *www.naiades-project.eu*

FLOOD-serv - Public FLOOD Emergency and Awareness SERVice (SIMAVI Coordinator) *www.floodserv-project.eu*

Green Deal & Environmental Monitoring

SILVANUS - Climate resilient forest management platform to prevent and suppress forest fire. *www.silvanus-project.eu*

TREEADS - A Holistic Fire Management Ecosystem for Prevention, Detection and Restoration of Environmental Disasters. *www.treeads-project.eu*

OptFor-EU - OPTimising FORest management decisions for a low-carbon, climate resilient future in EUrope. *www.optforeu.eu*

NEVERMORE - New Enabling Visions and tools for End-useRs and stakeholders thanks to a common MOdeling fRamework towards a climatE neutral and resilient society. *www.nevermore-horizon.eu*

About us

Software Imagination & Vision (**SIMAVI**) is a Romanian ICT company with extensive expertise in: Cybersecurity & Security, Critical Infrastructures, eHealth, Energy, Mobility and Smart Cities, Industry 5.0, Circular Economy, Computing Technologies, eAgriculture & Food, Smart Communities and Water ecosystems, Green Deal & Environmental Monitoring, Cultural Heritage, XR, Training, ERP & BI, eCustoms, and eGovernment. SIMAVI has strong experience in R&D projects, having been involved a coordinator, technological partner & integrator in over 70 Horizon Europe and Horizon 2020 projects.

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