

SOVEREIGN

distributed ledger technologies and user-driven automation towards self-SOVEREIGN mobile data access in beyond 5G networks



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Project Overview

SOVEREIGN aims to fuel artificial intelligence (AI) with DLT-backed data in order to innovate the B5G service chain and the B5G protocol stack towards the support of fully decentralized, instantaneous, and anonymous resource trading across the B5G network ecosystem (end terminals, infrastructure, OTT service providers, etc.). SOVEREIGN aims to empower intelligent end points in B5G networks, to gain full control of their identities, connectivity, sessions, service terms, and shared data upon accessing B5G spectrum, antennas, network slices and services.

Project Information

SOVEREIGN

Grant agreement ID: 101131481

DOI

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EC signature date

24 August 2023

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1 January 2024

End date

31 December 2027

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Marie Skłodowska-Curie Actions (MSCA)

Total cost

€ 0,00

EU contribution

€ 1 656 000,00



Coordinated by

ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO

ATHINON

Greece

Self-sovereign identity (SSI) is a model for managing digital identities in which individuals or businesses have sole ownership over the ability to control their accounts and personal data

Consortium

The consortium consists of the following partners:

- HELLENIC REPUBLIC National and Kapodistrian University of Athens
- FOGUS INNOVATIONS & SERVICES
- LINKÖPINGS UNIVERSITET
- InQbit The Q-Bit Innovation
- instituto de telecomunicações
- UNIVERSITÉ DU LUXEMBOURG
- iquadrat
- InCites CONSULTING

6 Countries

8 Partners

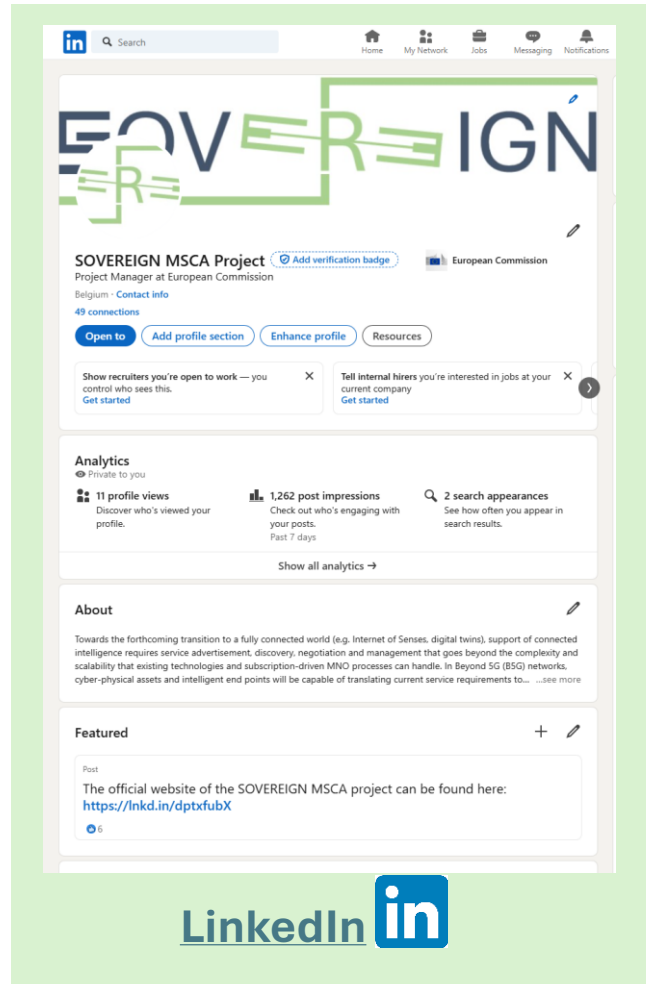
Project Coordinator

National and Kapodistrian University of Athens

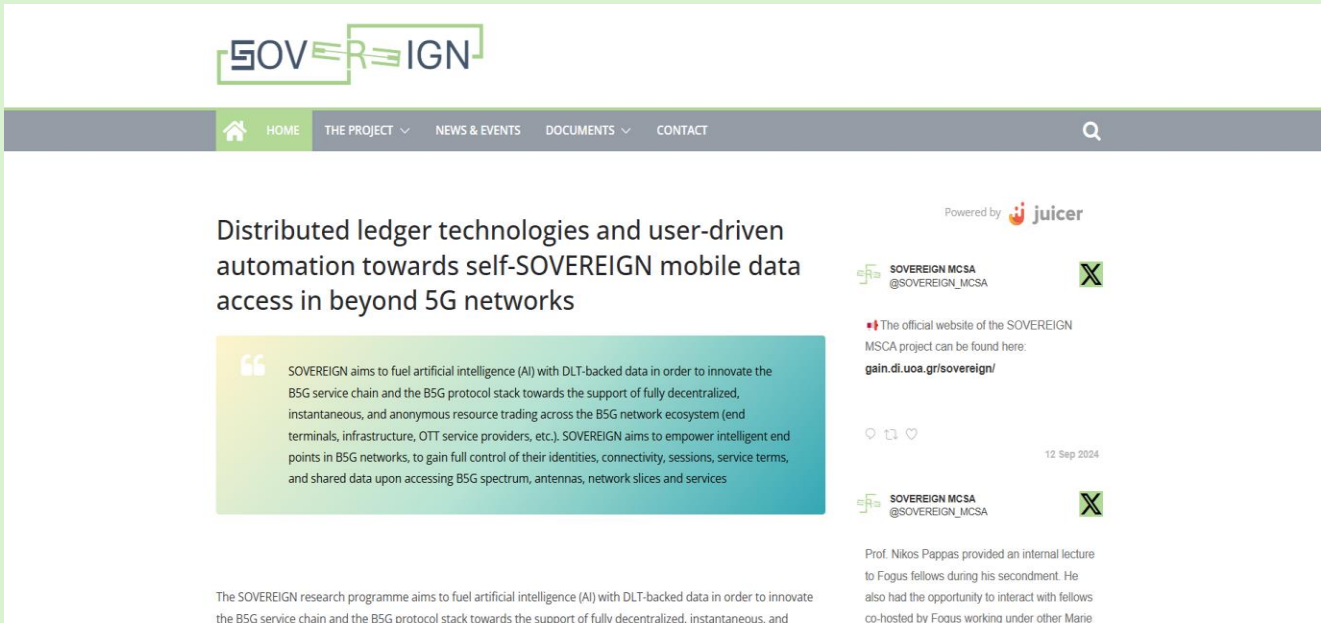
Prof. Dionysis Xenakis, nio@uoa.gr

Dissemination Activities

The SOVEREIGN project has set up a **LinkedIn** and an **X account**, providing information and the latest news of the project to the partners and the public.



The official site of SOVEREIGN project is active since the beginning of the project, providing comprehensive information about the project, including the objectives, the work packages and their relative tasks, the consortium details, public documents, news and events of the project and contact information of the coordinator.



Dissemination Activities

MOBILE WORLD CONGRESS (MWC) 2024

26-29 February 2024, Barcelona, Spain

Iquadrat (IQU) had a booth on the MWC 2024 presenting the SOVEREIGN project to the public.



19th International Conference on Availability, Reliability, and Security (ARES) - 4th International Workshop on Advances on Privacy Preserving Technologies and Solutions (IWAPS)

July 30 – August 2, 2024, Vienna, Austria

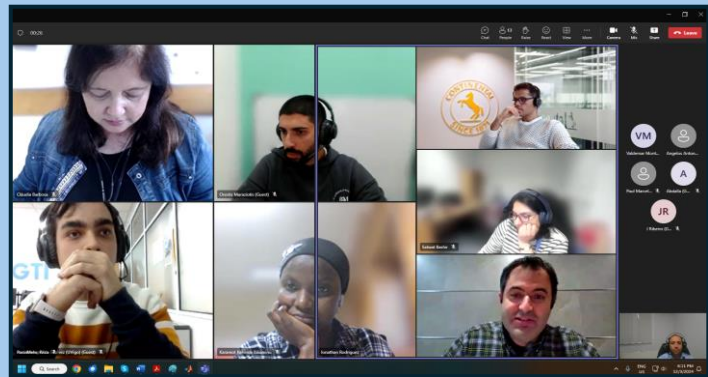
The SOVEREIGN project co-organized together with other EU-funded research projects the 4th IWAPS workshop on July 31st, 2024.



Dissemination Activities

Industrial Dissemination Day (IDD) by IEEE Communications Society Communications Systems Integration and Modeling (CSIM) Technical Committee December 3, 2024

Prof. Jonathan Rodrigues from IT has chaired the 1st IDD by IEEE CSIM Tech. Committee. Prof. Dionysis Xenakis from UOA was one of the three-member jury which evaluated interesting research proposals and early results of young researchers in the area of 6th Generation Telecommunications. The event was held online and coordinated by the Instituto de Telecomunicações (IT) Research Center in Portugal.



Internal meeting and transfer of knowledge



Prof. Nikolaos Pappas from Linköping University (LIU) provided an internal lecture to FOGUS fellows during his secondment in Athens.

He also had the opportunity to interact with fellows co-hosted by FOGUS working under other Marie Curie Actions.



Communication Activities

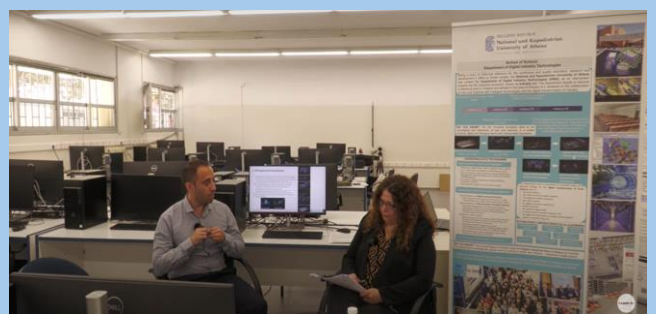
Public talk of Prof. Chatzinotas at NKUA

In April 2024, Prof. Symeon Chatzinotas from University of Luxembourg provided a lecture in the undergraduate course of "Data Networks" on "Mega Constellations: Trends, Technologies and Vision", which has been attended by 100+ undergraduate students and many faculty members of two local departments at the Euripos Campus of the National and Kapodistrian University of Athens, i.e., the Digital Industry Technologies Department and the Aerospace Science and Technologies Department, and has also been livestreamed and recorded through Webex.



Multimedia content to target public and SOVEREIGN fellows' interviews

A Greek web TV channel focusing on advanced technology and entrepreneurship topics under the T-PRESS Web TV had made interviews of UOA research group fellows. Prof. Dionysis Xenakis (UOA - project coordinator), Prof. Symeon Chatzinotas (ULU – secondee) and Mrs Anastasia Tsiota (UOA - secondee) talked about the SOVEREIGN project.



1st SOVEREIGN Hackathon

SOVEREIGN Project supported the 1st Hellenic University Hack (UniHack) Cyber Security contest, which occurred on December 7, 2024.



Other Activities

Navigating the Future II Conference

On Friday 16 February 2024, Prof. Dionysis Xenakis participated as panelist in the prestigious Green Transport & Logistics «**Navigating the Future II**» in Athens, Greece. More than 300 attendees, including government members, board members of almost all logistic associations, business executives, distinguished academics, students (including NKUA department) have taken part into this event, making it both successful and impactful.



Public interview in Hellenic Broadcasting Corporation of Greece (ERT) in a radio show

Prof. Dionysis Xenakis from the UOA had a public talk on the Hellenic radio and talked about his department's educational and research work and how the next generation of A.I. experts and robotics technology specialists can be connected to the job market.

Kick-off Meeting

The kickoff meeting of the **SOVEREIGN Project** was held online on February 5th, 2024. The consortium members had a fruitful discussion related to project's next steps!



Secondments

UOA → IQB

Anastasia Tsiota from the National and Kapodistrian University of Athens (UOA), Athens, Greece was seconded to InQbit Innovations SRL (IQB), Bucharest, Romania in February 2024.



LIU → FOG

Prof. Nikolaos Pappas from Linköping University (LIU), Sweden, during his secondment at Fogus Innovations and Services PC, Greece.



Secondments

ULU → FOG

Prof. Symeon Chatzinotas from University of Luxemburg (ULU), during his secondment at Fogus Innovations and Services PC (FOG), Greece.



IQB → UOA

Bogdan Padeanu from INQBIT INNOVATIONS SRL (IQB), Romania, started his secondment on September 2024 at the National and Kapodistrian University of Athens (UOA), Greece.

Upcoming Events

Mid-term Review meeting

The mid-term review (MTR) meeting of **SOVEREIGN Project** is going to be held physically at the National and Kapodistrian University of Athens, Greece on **5th February 2025**, where the SOVEREIGN partners are going to meet the Project Officer of the project.

SOVEREIGN course

The first course of the **SOVEREIGN Project** is going to be about “Blockchains, DLTs, Consensus and Mixing Protocols, Test Nets” and is planned to be held on **18th-19th February 2025** at the National and Kapodistrian University of Athens. The event will be co-organized with other EU-funded actions.

Industrial Dissemination Day (IDD) & Industrial Exhibition

The 1st SOVEREIGN Industrial Dissemination Day and the 1st SOVEREIGN Industrial Exhibition will be co-held in the Industry-Tec 2025 Exhibition on **14th-16th February 2025**.

The Industry-Tec Exhibition is an **international** event targeting the following stakeholders:

- ✓ Experienced automation companies and OEMs showcasing their newest products
- ✓ Industry experts battle-testing their smart manufacturing solutions
- ✓ Hi-tech startups becoming the catalysts for the leap forward
- ✓ Investors looking for the best ideas worth funding

The exhibition will be held in Mediterranean Exhibition Center (MEC), in Athens, Greece and UOA will be one of the event exhibitors.