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(MSCA Staff Exchanges 2022)



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



WP7– Open Science, Standardisation and Exploitation

Deliverable D7.3 “Dissemination, communication,
standardization, public engagement report Y2”

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Project Profile

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Document History

VERSIONS

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Version	Date	Author	Remarks
0.1	15/12/2025	Dionysios Xenakis (UOA)	Initial draft
1	30/12/2025	Nikolaos Pappas (LIU)	Final version

Executive Summary

The main objective of WP7 is the dissemination of the results obtained within SOVEREIGN project, in order to ensure the visibility of the project, promote its goals and enable the exploitation of its achievements. This deliverable presents activities that have been implemented during the first half of the action.

Contents

Executive Summary	3
1 Introduction	5
2 Dissemination Strategy	6
2.1 Website	6
2.2 Conference/journal publications	6
2.3 Workshops/conference organization	9
2.4 SOVEREIGN Courses	13
2.5 Industrial Dissemination Day	17
2.6 Open science engagement	19
2.7 Participation in IEEE Technical Committees – TC	19
3 Communication and public engagement	23
3.1 Communication activities	23
3.1.1 Brochure	23
3.1.2 Social media	23
3.1.3 E-newsletters	25
3.1.4 Multimedia content to target public	28
3.1.5 Online/Printed Press	32
3.1.6 Industrial Exhibitions	32
3.1.7 Other Activities	35
3.2 Public engagement activities	39
3.2.1 Public Talks	39
3.2.2 SOVEREIGN Hackathons	39
3.2.3 Open Days	42
4 Standardization	44
5 Overview of the SOVEREIGN Dissemination, Communication, Public Engagement and Standardization Activities by Y2	46

1 Introduction

Towards the forthcoming transition to a fully connected world (e.g. Internet of Senses, digital twins), support of connected intelligence requires service advertisement, discovery, negotiation and management that goes beyond the complexity and scalability that existing technologies and subscription-driven MNO processes can handle. In Beyond 5G (B5G) networks, cyber-physical assets and intelligent end points will be capable of translating current service requirements to comprehensive technical specifications dynamically (e.g. QoS/QoE management per service chunk) as well as request for full customization of their service terms in line with current availability of tenants/resources and their application requirements. Distributed ledger technologies (DLTs) hold the key for natively disintermediated, cost-efficient, and anonymous B5G communications, enabling transparency and trust to be established across the integrated DLT, radio access and core network continuum. The SOVEREIGN research programme 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. To this end, SOVEREIGN will conceptualize and develop a modular end-to-end service architecture integrating DLT-empowered service provisioning, fully decentralized AAA operations, forward-thinking protocols for self-sovereign identity management and anonymity/data privacy preservation as well as user-driven AI-enabled mobility management and traffic steering over joint DLT/B5G system infrastructures.

The technical contributions of SOVEREIGN are, without doubt, the main priority of the project. However, the dissemination of the developed ideas and the obtained results to a wide audience, ranging from the research community to non-scientific public, is critical for the overall success and the impact of the project on society. WP7 aims to increase the visibility of SOVEREIGN by coordinating the activities related to the dissemination of the results and the exploitation of the proposed solutions.

2 Dissemination Strategy

In full compliance with the contractual arrangements, SOVEREIGN ensures that the results of the fellows' research are disseminated and exploited by the people, business and society through the following activities.

2.1 Website

The official site of SOVEREIGN project has been 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.

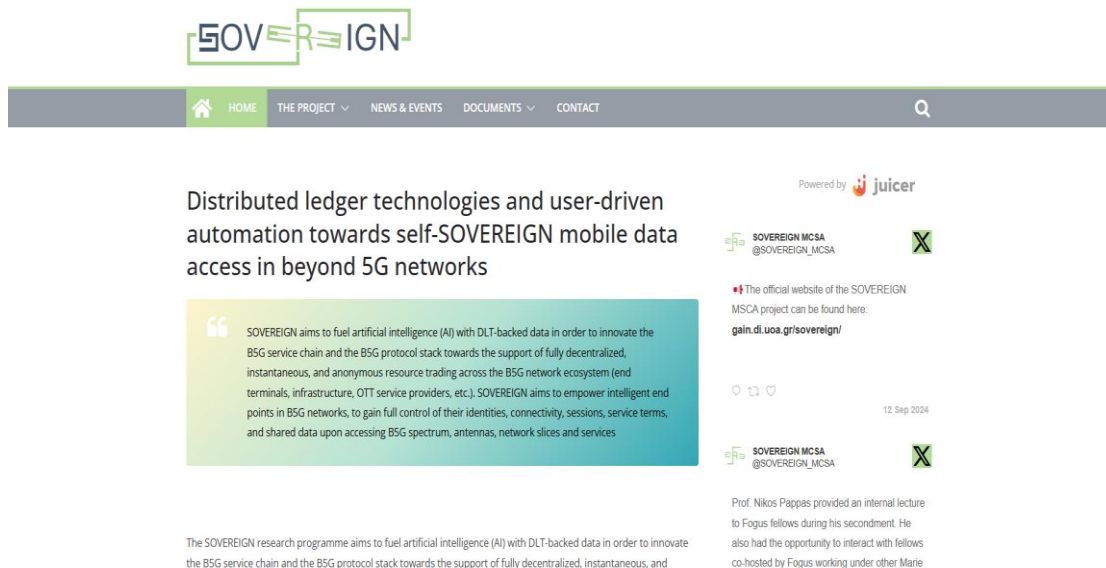


Figure 1. Official site of SOVEREIGN project <https://sovereign-msca.com/>

2.2 Conference/journal publications

Fellows' research work has been published to the following top-tier journals, magazines and conferences with and acknowledgment to the SOVEREIGN project.

Publications to top-tier journals and magazines:

1. G. Fontanesi *et al.*, "Artificial Intelligence for Satellite Communication: A Survey," in *IEEE Communications Surveys & Tutorials*, vol. 28, pp. 1381-1435, 2026, doi: 10.1109/COMST.2025.3534617.
2. T. V. Chien, N. M. Quan, T. N. Do, C. Le, T. N. Nguyen and S. Chatzinotas, "Fast Beam Placement for Ultra-Dense LEO Networks," in *IEEE Wireless Communications Letters*, vol. 14, no. 3, pp. 621-625, March 2025, doi:

- 10.1109/LWC.2024.3516818.
3. S. Kisseleff, V. M. Baeza, H. Al-Hraishawi, K. Ntontin, W. A. Martins and S. Chatzinotas, "Massive RF Inter-Satellite Links for Massive Non-Terrestrial Networks," in *IEEE Communications Magazine*, vol. 63, no. 5, pp. 48-53, May 2025, doi: 10.1109/MCOM.002.2400313.
 4. B. Shen, Y. Wu, W. Zhang, S. Chatzinotas and B. Ottersten, "LEO Satellite-Enabled Random Access With Large Differential Delay and Doppler Shift," in *IEEE Transactions on Wireless Communications*, vol. 24, no. 4, pp. 2876-2893, April 2025, doi: 10.1109/TWC.2025.3525738.
 5. G. Zachos, G. Mantas, K. Porfyraakis, J. Manuel Camões Sobral de Bastos and J. Rodriguez, "Anomaly-Based Intrusion Detection for IoMT Networks: Design, Implementation, Dataset Generation, and ML Algorithms Evaluation," in *IEEE Access*, vol. 13, pp. 41994-42028, 2025, doi: 10.1109/ACCESS.2025.3547572
 6. B. Hathout, P. Shepherd, T. Dagiuklas, K. Nagaty, A. Hamdy and J. Rodriguez, "Adaptive Trust Management for Data Poisoning Attacks in MEC-Based FL Infrastructures," in *IEEE Open Journal of the Communications Society*, vol. 6, pp. 3140-3160, 2025, doi: 10.1109/OJCOMS.2024.3523368
 7. G. Stamatakis, N. Pappas, A. Fragkiadakis, N. Petroulakis and A. Traganitis, "Semantics-Aware Active Fault Detection in Status Updating Systems," in *IEEE Open Journal of the Communications Society*, vol. 5, pp. 1182-1196, 2024, doi: 10.1109/OJCOMS.2024.3363731
 8. G. Karevnanavar, H. Pable, O. Patil, R. V. Bhat and N. Pappas, "Version Age of Information Minimization over Fading Broadcast Channels," in *IEEE Transactions on Wireless Communications*, doi: 10.1109/TWC.2024.3510942
 9. H. Zhou, Y. Deng, X. Liu, N. Pappas and A. Nallanathan, "Goal-Oriented Semantic Communications for 6G Networks," in *IEEE Internet of Things Magazine*, vol. 7, no. 5, pp. 104-110, September 2024, doi: 10.1109/IOTM.001.2300269
 10. E. Delfani and N. Pappas, "Version Age-Optimal Cached Status Updates in a Gossiping Network with Energy Harvesting Sensor," in *IEEE Transactions on Communications*, doi: 10.1109/TCOMM.2024.3471969
 11. E. Delfani, G. J. Stamatakis and N. Pappas, "State-Aware Timeliness in Energy Harvesting IoT Systems Monitoring a Markovian Source," in *IEEE Transactions on Green Communications and Networking*, doi: 10.1109/TGCN.2024.3479460

Publications to top-tier conferences:

12. X. Hu, N. Pappas and H. H. Yang, "Version Age-Based Client Scheduling Policy for Federated Learning," 2024 IEEE International Conference on Acoustics, Speech, and Signal Processing Workshops (ICASSPW), Seoul, Korea, Republic of, 2024, pp. 695-699, doi: 10.1109/ICASSPW62465.2024.10626990
13. J. Zhu, N. Pappas and H. H. Yang, "Boosting Dynamic TDD in Small Cell Networks by the Multiplicative Weight Update Method," 2024 IEEE Wireless Communications and Networking Conference (WCNC), Dubai, United Arab Emirates, 2024, pp. 1-6, doi: 10.1109/WCNC57260.2024.10571025
14. Q. Wang, H. Chen, P. Mohapatra and N. Pappas, "Secure Status Updates under Eavesdropping: Age of Information-based Secrecy Metrics," IEEE INFOCOM 2024 - IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS), Vancouver, BC, Canada, 2024, pp. 01-06,

- doi:10.1109/INFOCOMWKSHPS61880.2024.10620867
15. E. Delfani and N. Pappas, "Optimizing Information Freshness in IoT Systems with Update Rate Constraints: A Token-Based Approach," 2024 IFIP Networking Conference (IFIP Networking), Thessaloniki, Greece, 2024, pp. 213-221, doi: 10.23919/IFIPNetworking62109.2024.10619779
 16. B. A. Madhabhavi, G. Karevvanavar, R. V. Bhat and N. Pappas, "Semantic Text Transmission via Prediction with Small Language Models: Cost-Similarity Trade-off," 2024 IEEE International Conference on Communications Workshops (ICC Workshops), Denver, CO, USA, 2024, pp. 1244-1249, doi:10.1109/ICCWorkshops59551.2024.10615608
 17. J. Luo and N. Pappas, "Goal-Oriented Estimation of Multiple Markov Sources in Resource-Constrained Systems," 2024 IEEE 35th International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Valencia, Spain, 2024, pp. 1-6, doi: 10.1109/PIMRC59610.2024.10817179
 18. Jiping Luo and Nikolaos Pappas. 2024. Minimizing the Age of Missed and False Alarms in Remote Estimation of Markov Sources. In Proceedings of the Twenty-fifth International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing (MobiHoc '24). Association for Computing Machinery, New York, NY, USA, 381–386. 10.1145/3641512.3690161
 19. E. Delfani and N. Pappas, "Semantics-Aware Status Updates with Energy Harvesting Devices: Query Version Age of Information," 2024 22nd International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Seoul, Korea, Republic of, 2024, pp. 177-184
 20. J. Luo and N. Pappas, "Semantic-Aware Remote Estimation of Multiple Markov Sources Under Constraints," 2024 22nd International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Seoul, Korea, Republic of, 2024, pp. 15-21
 21. M. N. Dazhi, H. Al-Hraishawi, B. Shankar and S. Chatzinotas, "MARL-aided Spectral Efficiency Maximization in Multi-Tier NTN Operating Multi-Connectivity with Different Waveforms for PAYG Service," 2024 IEEE 100th Vehicular Technology Conference (VTC2024-Fall), Washington, DC, USA, 2024, pp. 1-7, doi: 10.1109/VTC2024-Fall63153.2024.10757662.
 22. P. Shepherd, T. Dagiuklas, B. Alkan and J. Rodriguez, "Integrating a Zero-Trust Adaptive Security Framework in Edge Based Federated Learning," 2024 IEEE 29th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD), Athens, Greece, 2024, pp. 1-5, doi: 10.1109/CAMAD62243.2024.10942760
 23. G. Zachos *et al.*, "Anomaly-based Intrusion Detection for IoMT Networks: Leveraging Blockchain Technology," 2025 IEEE International Conference on Communications Workshops (ICC Workshops), Montreal, QC, Canada, 2025, pp. 1215-1220, doi: 10.1109/ICCWorkshops67674.2025.11162309
 24. G. Zachos, G. Mantas, J. Bastos, J. Rodriguez, A. Tsiota, D. Xenakis, "Anomaly-based Intrusion Detection for Zephyr-based Resource-Constrained Devices in IoMT Networks", 2025 IEEE Conference on Network Function Virtualization and Software-Defined Networks (IEEE NFV/SDN), 10–12 November 2025, Athens, Greece
 25. G. Smpokos, D. Xenakis, M. Kountouris, N. Pappas, "Age of Information-Aware

- Cognitive Shared Access Networks with Energy Harvesting”, 2025 IEEE Conference on Network Function Virtualization and Software-Defined Networking (IEEE NFV-SDN), 10–12 November 2025, Athens, Greece
26. I. Vittorakis, D. Xenakis, G. Kalpaksoglou, “On the Resource Consumption of 2D Human Pose Estimation Services in MEC-enabled Networks”, 2025 IEEE Conference on Network Function Virtualization and Software-Defined Networking (IEEE NFV-SDN), 10–12 November 2025, Athens, Greece
27. D. Xenakis, P. Xepapadakou, K. Palias, “On the Service Probability of MEC-enabled Beyond 5G Systems supporting 3GPP Location Services”, 2025 IEEE Conference on Network Function Virtualization and Software-Defined Networking (IEEE NFV-SDN), 10–12 November 2025, Athens, Greece
28. E. A. Doost, G. Mantas, J. Bastos, J. Rodriguez, A. Tsiota, D. Xenakis, “Physical-Layer Security in OFDM-Based PNC-Enabled IoT: Analysis and Detection of Symbol-Level Jamming Attacks”, 2025 IEEE Globecom Workshops: Workshop on Machine Learning and Deep Learning for Wireless Security, 8–12 December 2025, Taipei, Taiwan

2.3 Workshops/conference organization

The **1st SOVEREIGN Workshop** was organized in conjunction with the IEEE NFV-SDN Conference (IEEE Conference on Network Function Virtualization and Software Defined Networks 10–12 November 2025 // Athens, Greece). This workshop on “Software-driven 6G Networks for Healthcare 4.0 and Self-Sovereign Mobile Data Access – 6G-NATA”, aims to provide a platform for academic and industry researchers to discuss practical solutions, including emerging technologies and ecosystems, for the realization of emerging 6G networking architectures, technologies and applications with a special focus on the Healthcare 4.0 and self-sovereign mobile data access paradigms.



IEEE Conference on Network Function Virtualization and
Software Defined Networks
10–12 November 2025 // Athens, Greece



The Call for Papers with reference to the SOVEREIGN project is below (<https://nfvsdn2025.ieee-nfvsdn.org/sites/nfvsdn2025.ieee-nfvsdn.org/files/WS4.pdf>):

Call for Papers:

Workshop on “Software-driven 6G Networks for Healthcare 4.0 and Self-Sovereign Mobile Data Access - 6G-NATA”

This workshop, co-located with the IEEE NFV-SDN Conference, aims to provide a platform for academic and industry researchers to discuss practical solutions, including emerging technologies and ecosystems, for the realization of emerging 6G networking architectures, technologies and applications with a special focus on the Healthcare 4.0 and self-sovereign mobile data access paradigms.

Topics

- Novel 6G dynamic spectrum sharing.
- Advanced radio resource management (RRM) techniques.
- Channel characteristics and modelling.
- Multiuser communications and network information theory.
- Beamforming, beam tracking, and mobility solutions.
- Energy efficiency and energy consumption models for Healthcare 4.0.
- Scalable and resilient network architectures for Healthcare 4.0.
- AI-enabled network management for Healthcare 4.0.
- ML algorithms tailored for 6G healthcare systems.
- AI-enabled semantic-aware network management.
- AI-enabled E2E slicing and zero-touch orchestration.
- Big data analytics and intelligent edge computing in Healthcare 4.0.
- Security and Privacy (Blockchain technology, holographic communication, haptic feedback technology, etc.).
- Integrated terrestrial and non-terrestrial networks.
- Multi-sensor IoT devices.
- Self-sovereign mobile data access architectures and protocols.
- Distributed identity and self-sovereign security mechanisms.
- AI-driven/adversarial cybersecurity frameworks and mechanisms.
- Analytical models and mathematical formulations for 6G network modeling.
- Immersive applications and digital twin platforms for the industrial/Healthcare 4.0 continuum.
- Multi-access edge computing platforms leveraging SDN/NFV technologies for the support of emerging 6G networking paradigms.

Contribution Types:

- Full Paper (min. 4 max. 6 pages). These include mainly accomplished research results.
- Short Paper (min. 3 max. 4 pages). These typically present work-in-progress, preliminary results, or recent developments.

Important Dates:

- 1st of July 2025 Submission of complete papers for workshops
- 30th August 2025 Notification of acceptance

— 30th of September 2025 Camera-ready

Workshop Organizing Committee

Chairs:

- Amalia Miliou, Professor at the Dept. of Informatics, Aristotle University of Thessaloniki.
- Agapi Mesodiakaki, Senior Researcher at the Dept. of Informatics, Aristotle University of Thessaloniki.
- Anastasia Tsiota, Senior Researcher at FOGUS INNOVATIONS AND SERVICES P.C.

References:

The Workshop is supported by the following projects:

HORIZON – MSCA – 2022 – DN-ELIXIRION (GA 101120135)

HORIZON – MSCA – 2022 – SE – SOVEREIGN (GA 101131481)

HORIZON – MSCA – 2022 – SE – AIAS (GA 101131292)



The web link of the conference is <https://nfvsdn2025.ieee-nfvsdn.org/> and the full program can be found in <https://nfvsdn2025.ieee-nfvsdn.org/program>.



Figure 2. SOVEREIGN project organized and supported the 6G-NATA Workshop

SOVEREIGN also co-organized the “**5th International Workshop on Advances in Privacy Preserving Technologies and Solutions (IWAPS)**”, that took place in the framework of the 20th International Conference on Availability, Reliability and Security (ARES Conference) in Ghent, Belgium, August 11–14, 2025. (<https://2025.ares-conference.eu/> and <https://2025.ares-conference.eu/program/iwaps/>)

This workshop aims to strengthen security and privacy through research and relevant activities for the design of secure, privacy-preserving and trust architectures, investments in cyber-defense, data analyses, fusion platforms, protocols, algorithms, services, and applications for next generation systems and solutions.

The 2025 IWAPS brought together researchers, engineers, and practitioners for presenting and discussing the latest advances and innovations in theories, infrastructure, schemes, and applications for secure computation, privacy technologies, security economics, and human computer interaction, as well as to identify emerging research topics and define future trends.



Figure 3. SOVEREIGN co-organized the 5th IWAPS Workshop

The workshop was co-organized by the following European Commission projects:

- AIAS (HORIZON, GA no: 101131292)
- NITRO (DIGITAL, GA no: 101145872)

- ANTIDOTE (HORIZON: GA no: 101183162)
- cPAID (HORIZON: GA no: 101168407)
- RESCALE (HORIZON, GA no: 101120962)
- CYBERUNITY (DIGITAL, GA no: 101128024)
- CHRISS (HORIZON, GA no: 101082440)
- ENTRUST (HORIZON, GA no: 101095634)
- O-CEI (HORIZON, GA no: 101189589)
- aerOS (HORIZON, GA no: 101069732)
- COBALT (HORIZON, GA no: 101119602)
- CyberSuite (DIGITAL, GA no: 101145861)
- FAME (HORIZON, GA no: 101092639)
- OASSES (HORIZON, GA no: 101092702)
- ODEON (HORIZON, GA no: 101136128)
- SAFE-6G (HORIZON, GA no: 101139031)
- SOVEREIGN (HORIZON, GA no: 101131481)
- TRUSTEE (HORIZON, GA no: 101070214)

SOVEREIGN co-organized the “**4th International Workshop on Advances in Privacy Preserving Technologies and Solutions (IWAPS)**”, that was held in conjunction with the 19th International Conference on Availability, Reliability and Security (ARES Conference), in Vienna, Austria, July 30 — Aug 02, 2024. (conference site: <https://2024.ares-conference.eu/> and workshop site: <https://2024.ares-conference.eu/iwaps>)



Figure 4. SOVEREIGN co-organized the 4th IWAPS Workshop in Vienna, Austria

The workshop was co-organized from the following European Commission projects:

- AIAS (HORIZON, GA no: 101131292)
- NITRO (DIGITAL, GA no: 101145872)

- RESCALE (HORIZON, GA no: 101120962)
- ERATOSTHENES (H2020, GA no: 101020416)
- CYBERUNITY (DIGITAL, GA no: 101128024)
- CHRISS (HORIZON, GA no: 101082440)
- ENTRUST (HORIZON, GAS no: 101095634)
- aerOS (HORIZON, GA no: 101069732)
- COBALT (HORIZON, GA no: 101119602)
- CyberSuite (DIGITAL, GA no: 101145861)
- FAME (HORIZON, GA no: 101092639)
- OASSES (HORIZON, GA no: 101092702)
- ODEON (HORIZON, GA no: 101136128)
- SAFE-6G (HORIZON, GA no: 101139031)
- SOVEREIGN (HORIZON, GA no: 101131481)
- TRUSTEE (HORIZON, GA no: 101070214)

2.4 SOVEREIGN Courses

- 1) The **1st SOVEREIGN Course** on "Blockchain: Fundamentals and Security" was organized on February 18-19, 2025. The course was co-organized with the ELIXIRION-MC action and implemented 20hours of learning within the interval of 2 days, awarding certificates of 1 ECTS. SOVEREIGN fellows have attended the 1st course both physically and online.



Figure 5. 1st SOVEREIGN MSCA Project Course

The agenda is the following:

SOVEREIGN Online Course on
“Blockchain: Fundamentals and Security”
 Tuesday 18th – Wednesday 19th of February 2025

Organized by

MSCA-SE-SOVEREIGN (GA 10101640)
 distributed ledger technologies and user-driven automation towards self-SOVEREIGN mobile data access in beyond 5G networks

MSCA-DN-ELIXIRION (GA 10102033)
 rEalizing healthcare 4.0 exploiting the 5G network evolution

Technical Coordination by
 Dr. Dionysis Xenakis, Assistant Professor NKUA, Department of Digital Industry Technologies
 Project Coordinator: MSCA-SE-SOVEREIGN programme

The Course is under the auspices of

MBA Hellenic Republic National and Kapodistrian University of Athens
 The Master's Program of the National and Kapodistrian University of Athens in **Business Administration**

myFINTECH Hellenic Republic National and Kapodistrian University of Athens
 The Master's Program of the National and Kapodistrian University of Athens in **Financial Technology (FINTECH)**

Technically co-sponsored by the following EU-funded actions:

NGI TRUST CHAIN Enabling a Human-Centred, Trustworthy and Sustainable Internet	CHRIS Critical Infrastructure High Assurance and Resilience through Integrated Sanctioning Solutions	AIAS AI-Assisted Cybersecurity and Trust-enabling Smartly defined against adversarial AI attacks	ERATOSTHENES Secure management of IoT devices lifecycle through digital trust and distributed ledgers
GA 10100320	GA 10100340	GA 10100320	GA 10100340

1 st Day: Tuesday 18 th of February 2025			
Time	Speaker	Title	Syllabus
8:30 - 10:15	NKUA Prof. Thanasis Papaioannou Sponsoring Project: NSI TrustChain	Blockchain Fundamentals (1/2)	<ul style="list-style-type: none"> Introduction to Blockchain Technology Definition, key characteristics (decentralization, transparency, immutability). Historical evolution (from Bitcoin to modern systems). Components of a Blockchain Nodes, transactions, blocks, consensus mechanisms. Public vs. Private Blockchains Differences, examples, and use cases. Blockchain trilemma
10:15 - 10:45			Coffee Break
10:45 - 12:30	NKUA Prof. Thanasis Papaioannou	Blockchain Platforms and Ecosystems	<ul style="list-style-type: none"> Bitcoin <ul style="list-style-type: none"> Key features, scripting language. Ethereum <ul style="list-style-type: none"> Smart contracts, ERC standards, Ethereum Virtual Machine (EVM). Other Platforms <ul style="list-style-type: none"> Hyperledger Fabric, Solana, Cardano. Blockchain Interoperability <ul style="list-style-type: none"> Cross-chain solutions and bridges. Advanced operations <ul style="list-style-type: none"> Sharding, state channels, oracles.
12:30 - 13:30			Lunch Break
13:30 - 15:15	University of Piraeus Mr. Aggelos Sideris Sponsoring Project: CHRIS	Blockchain Fundamentals (2/2)	<ul style="list-style-type: none"> Introduction to Blockchain Technology Definition, key characteristics (decentralization, transparency, immutability). Historical evolution (from Bitcoin to modern systems). Components of a Blockchain Nodes, transactions, blocks, consensus mechanisms. Public vs. Private Blockchains <ul style="list-style-type: none"> Differences, examples, and use cases. Blockchain trilemma
15:15 - 15:45			Coffee Break
15:45 - 17:30	University of Piraeus Mr. Anastasios Voudouris Sponsoring Project: ERATOSTHENES	Cryptographic Foundations	<ul style="list-style-type: none"> Core Cryptographic Concepts <ul style="list-style-type: none"> Hashing Public and private key cryptography. Digital signatures. Merkle Trees <ul style="list-style-type: none"> Structure, purpose in blockchains. Security Challenges

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 SOVEREIGN COURSE 1 Page 2 of 5
 18th - 19th February 2025

2 nd Day: Wednesday 19 th of February 2025			
Time	Speaker	Title	Syllabus
8:30 - 10:15	NKUA Prof. Thanasis Papaioannou & Prof. Dionysis Xenakis	Consensus Mechanisms	<ul style="list-style-type: none"> Proof of Work (PoW) <ul style="list-style-type: none"> Mechanism, energy concerns, and mining. Proof of Stake (PoS) and Variants <ul style="list-style-type: none"> Staking mechanics. Delegated PoS, Practical Byzantine Fault Tolerance (PBFT). Emerging Consensus Mechanisms <ul style="list-style-type: none"> Proof of Authority (PoA), Proof of Space and Time, etc. Comparative Analysis <ul style="list-style-type: none"> Strengths, weaknesses, and use-case suitability.
10:15 - 10:45			Coffee Break
10:45 - 12:30	NKUA Prof. Thanasis Papaioannou	Smart Contracts (1/2)	<ul style="list-style-type: none"> What are Smart Contracts? <ul style="list-style-type: none"> Definition, characteristics, execution. Smart Contract Development <ul style="list-style-type: none"> Tools: Solidity. Hands-on: Write and deploy a basic contract. Common Vulnerabilities <ul style="list-style-type: none"> Reentrancy, integer overflow, gas limit issues.
12:30 - 13:30			Lunch Break
13:30 - 15:15	University of Piraeus Mr. Aggelos Sideris Sponsoring Project: CHRIS	Smart Contracts (2/2)	<ul style="list-style-type: none"> What are Smart Contracts? <ul style="list-style-type: none"> Definition, characteristics, execution. Smart Contract Development <ul style="list-style-type: none"> Tools: Solidity. Hands-on: Write and deploy a basic contract. Common Vulnerabilities <ul style="list-style-type: none"> Reentrancy, integer overflow, gas limit issues.
15:15 - 15:45			Coffee Break
15:45 - 17:30	NKUA Prof. Thanasis Papaioannou & Prof. Dionysis Xenakis	Blockchain Applications	<ul style="list-style-type: none"> Healthcare Supply Chain Decentralized Finance Telecoms / Content Sharing Other applications
17:45 - 18:30			Coffee Break
18:30 - 19:30	University of Piraeus Mr. Anastasios Voudouris Sponsoring Project: AIAS	Blockchain and Research	<ul style="list-style-type: none"> State-of-the-Art Research Topics <ul style="list-style-type: none"> Privacy-preserving technologies (zk-SNARKs, zk-STARKs). Multiparty computation Game theory Open Challenges Opportunities for Innovation <ul style="list-style-type: none"> Identifying gaps for academic contributions.

Need further details / Having connectivity issues? Please mail to: info@soverign.gr

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 SOVEREIGN COURSE 1 Page 3 of 5
 18th - 19th February 2025

2) **SOVEREIGN Courses 2 & 3** were organized on November 11th – 14th, 2025. The 4 full-day event was hybrid, providing the opportunity to SOVEREIGN fellows to attend either online or physically at the National and Kapodistrian University of Athens. The courses were in the following areas: **“Standardization, Patent Writing & IPR Management”** and **“Competitive Proposal Writing & Project**

Management”. Prof. Dionysis Xenakis technically supervised and coordinated the implementation. SOVEREIGN Fellows have attended the courses physically and online.



Figure 6. SOVEREIGN MSCA Project Courses 2 & 3

For Day 1 we had the pleasure to physically host our colleagues Dr. Lechosław Tomaszewski from *Orange Polska* and Dr. Xavier Pons Masbernart from *Airbus Aircraft* that provided our students and Faculty members an in-depth overview on “Standards and Regulations in Wireless Telecoms” and “Standards and Regulations in Non-Terrestrial Networks”.

The courses were attended by research fellows and Doctoral Candidates working under the EU-funded actions:

- ELIXIRION-MC (Project Coordinator: Prof. Amalia Miliou)
- SOVEREIGN MSCA Project (Project Coordinator: Prof. Dionysis Xenakis)
- MSCA-AeroNet (Project Coordinator: Prof. Tasos Dagiuklas)
- EXARCH-EU (Project Coordinator: Prof. Dionysis Xenakis)

and are also made available to Researchers and Faculty Members of the National and Kapodistrian University of Athens (online). The agenda of the event is below:

Online Complementary Courses on “Standardization, patent writing and IPR management” and “Competitive proposal writing and project management”

Tuesday 11th – Friday 14th of November 2025

Coordination and Technical Supervision by:
Prof. Dionysis Xenakis, National and Kapodistrian University of Athens
 Head of the X-TREND: Industry X.O Twins, Reality and Network eDge technologies research group
 In collaboration with the research group of **Prof. Amalia Milou**, Aristotle University of Thessaloniki

Organized by the EU-funded actions

ELIXIRION (GA 10120135): rEalizing healthcare 4.0 eXploiting the 5G network evolution
 Project Coordinator: **Prof. Amalia Milou** (AUTH)

SOVEREIGN (GA 10131481): distributed ledger technologies and user-driven automation towards self-SOVEREIGN mobile data access in beyond 5G networks
 Project Coordinator: **Prof. Dionysis Xenakis** (NKUA)

EXARCH (GA 101236244): sEvritization of Industry X.O Assets powered by secure, Resilient and immersive digital twin technologies
 Project Coordinator: **Prof. Dionysis Xenakis** (NKUA)

AeroNet (GA 101236523): In-Flight Broadband Connectivity and Experimentation for Beyond 5G Networks
 Project Coordinator: **Prof. Tasos Dagklidas** (LSBU)

The Courses are under the auspices of

HELLENIC REPUBLIC
 National and Kapodistrian University of Athens

ARCHIMEDES
 NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS
 Archimedes Center for Innovation and Entrepreneurship

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
 Εθνικόν και Καποδιστριακόν Πανεπιστήμιον Αθηνών
 Funding Support Office of the National and Kapodistrian University of Athens

MBA
 HELLENIC REPUBLIC National and Kapodistrian University of Athens
 The Master's Program of the National and Kapodistrian University of Athens in "Business Administration"

mvcFIN TECH
 HELLENIC REPUBLIC National and Kapodistrian University of Athens
 The Master's Program of the National and Kapodistrian University of Athens in "Financial Technology/ FINTECH"

Standardization, patent writing and IPR management

[Meeting link here for days 1 and 2](#)

1st Day: Tuesday 11th of November 2025

Time	Speaker	Title	Syllabus
9:00-10:45	Dr. Lechoslaw Tomaszewski (DRAN)	Standards and regulations in the wireless Telecoms	<ul style="list-style-type: none"> Do we need standards and regulations? Regulations in the wireless communications Regulatory framework for mobile communication networks, global/regional/national levels, bodies, legislation
10:45-11:15			Coffee Break
11:15-13:00	Dr. Lechoslaw Tomaszewski (DRAN)	Standards and regulations in the wireless Telecoms	<ul style="list-style-type: none"> Standards in the wireless communications - 3GPP, ITU, ETSI, IEEE, IETF, 0-RAN
13:00-14:00			Lunch Break
14:00-15:45	Dr. Xavier Pons (AIRBUS)	Standards and regulations in the NTN	<ul style="list-style-type: none"> TBD
15:45-16:15			Coffee Break
16:15-18:00	Dr. Xavier Pons (AIRBUS)	Standards and regulations in the NTN	<ul style="list-style-type: none"> TBD

2nd Day: Wednesday 12th of November 2025

Time	Speaker	Title	Syllabus
9:00-10:45	Dr. Lechoslaw Tomaszewski (DRAN)	SNS, 3GPP, ITU, ETSI pre-standardization activities related to the research challenges of the project	<ul style="list-style-type: none"> TBD
10:45-11:15			Coffee Break
11:15-13:00	Dr. Lechoslaw Tomaszewski (DRAN)	SNS, 3GPP, ITU, ETSI pre-standardization activities related to the research challenges of the project	<ul style="list-style-type: none"> TBD
13:00-14:00			Lunch Break
14:00-15:45	Dr. Yiannis Dimitrakopoulos (Technology Transfer Office Manager at Archimedes Center of NKUA)	Patent writing, focusing on patent structure and language, inventive steps, standard essential patents, patent classification.	<ul style="list-style-type: none"> TBD
15:45-16:15			Coffee Break
16:15-18:00	Dr. Yiannis Dimitrakopoulos (Technology Transfer Office Manager at Archimedes Center of NKUA)	Introduction to Intellectual Property Rights, infringement, foreground/background.	<ul style="list-style-type: none"> TBD

Technically Coordinated by **Prof. Dionysis Xenakis**, X-TREND Research Group @ NKUA page 2 of 5
 Complementary Courses of ELIXIRION, SOVEREIGN, EXARCH, AeroNet EU-funded actions 11th – 14th November 2025

Competitive proposal writing and project management

[Meeting link here for days 3 and 4](#)

3rd Day: Thursday 13th of November 2025

Time	Speaker	Title	Syllabus
9:00-10:45	Dr. Dimitrios Apostolopoulos (NTUA)	EC funding opportunities HORIZON EUROPE & Research project Management principles	<ul style="list-style-type: none"> Horizon Europe at a glance: pillars, clusters, TRLs, RIA/IA/CSA & where to find calls Finding the right fit: decode "scope-expected outcomes-impact", eligibility, KPIs, and Work Programme reading tips EU Funding & Tenders Portal: account & roles, PIC validation, organisation data, partner search, call page anatomy How to submit: Part A (Terms, budget, consortium, ethics/security flags) + Part B (Excellence-Impact-Implementation templates), annexes, validations, final checks, submission receipt & resubmission rules Winning proposals & reviewer mindset: scoring criteria, impact pathways, credible workplan/budget, risk/PP/Exploitation, common pitfalls & quick checklists
10:45-11:15			Coffee Break
11:15-13:00	Dr. Giannis Kanakis (NTUA)	Competitive proposal writing: Explanation of different proposal sections	<ul style="list-style-type: none"> Pick a Horizon Europe call Impact sprint (3 issues- Economic, Scientific/Technical, Social): 5-slide presentation per team linking to Expected Outcomes; quantify scale & significance, define target groups Draft the WP map and draw the part chart, showing inter-WP dependencies and the critical path WP deep-dive: choose one WP and specify objectives, tasks (T.x.y), deliverables (D.x.y), milestones (M.x.y) Create a budget sheet of your institution (PPs & costs)

Technically Coordinated by **Prof. Dionysis Xenakis**, X-TREND Research Group @ NKUA page 3 of 5
 Complementary Courses of ELIXIRION, SOVEREIGN, EXARCH, AeroNet EU-funded actions 11th – 14th November 2025

Time	Speaker	Title	Syllabus
13:00-14:00			Lunch Break
14:00-15:45	Mr. Stamatios Kolovos (NKUA)	Project management-1: Consortium Agreement, Grand Agreement, meetings, audits, reviews as well as financial and administrative aspects	<ul style="list-style-type: none"> TBD
15:45-16:15			Coffee Break
16:15-18:00	Dr. Nikos Passas (NKUA)	Guidelines for writing successful proposals including the preparation stage and building a strong consortium	<ul style="list-style-type: none"> Introduction - From idea to implementation Proposal preparation Structure of the proposal How to submit a project proposal Tips for successful proposal After approval

4th Day: Friday 14th of November 2025

Time	Speaker	Title	Syllabus
9:00-10:45	Prof. Dionysis Xenakis (NKUA)	Guidelines for writing a successful MSCA Doctoral Network (DN) and Staff Exchange (SE) proposals	<ul style="list-style-type: none"> Discussion on the key sections of MSCA-DN MSCA-SE proposals Tips and pitfalls in proposal preparation
10:45-11:15			Coffee Break
11:15-12:00	Prof. Micaela Mathias (online) (DUB)	ERC funding opportunities	<ul style="list-style-type: none"> Cracking the ERC Code: Winning Support for Groundbreaking Research
12:15-13:00	Dr. Prodromos-Vasilios Melakos (online) (HBC)	MSCA IF funding opportunities	<ul style="list-style-type: none"> General Info Evaluation criteria Open discussion
13:00-14:00			Lunch Break
14:00-15:45	Dr. Dimitrios Apostolopoulos	Project management-2: planning, reporting, quality assurance, risk analysis- contingency deliverables/milestones/d deadlines.	<ul style="list-style-type: none"> PM fundamentals: purpose, lifecycle, key constraints and roles Methodologies overview: Waterfall vs Agile (when to apply each) Practical tasks: Quiz: Select the best next step under Scrum or Waterfall Build a Kanban board in Trello/MS Project
15:45-16:15			Coffee Break

Technically Coordinated by **Prof. Dionysis Xenakis**, X-TREND Research Group @ NKUA page 4 of 5
 Complementary Courses of ELIXIRION, SOVEREIGN, EXARCH, AeroNet EU-funded actions 11th – 14th November 2025

18:45 – 19:00	Dr. Dimitrios Apostolakis	<p>Project management-2: planning, reporting, quality assurance, risk analysis, contingency plans, deliverables/milestones/d deadlines.</p> <ul style="list-style-type: none"> Develop a Work Breakdown Structure (WBS) with deliverables and acceptance criteria Build schedules with dependencies and critical paths Estimate effort and cost using top-down, bottom-up, and three-point methods Define cost baselines, track variances, and manage risks/change Practical tasks Draft a mini project plan with WBS and critical path Create a simple budget tracker (baseline vs actuals) Team presentations on trade-offs and risks
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X-TREND: industry X, LoT, Reality and Network eDge technologies research group

National and Kapodistrian University of Athens (NKUA)

Dr. Dionysis Xenakis Assistant Professor, NKUA
Faculty Member of the Department of Digital Industry Technologies
X-TREND Research Group Lead

<p>ACTIVITIES INVOLVED</p> <p>Academy Head/Contact point of the CSDO Networking Academy @ NKUA</p> <p>SVISE Coordinator of a 6-member industry-academia committee implementing the Multi between NKUA and the Innovation of Industries of Central Greece</p> <p>Committee member of the Innovation and Business Accelerator program @ ARCHEDES, NKUA</p>	<p>X-TREND R&I FOCUS AREAS</p> <ul style="list-style-type: none"> 5G/6G and edge computing empowered services Digital Twins & AR/VR apps Blockchain-backed service design 3D mapping & reconstruction Traceability 4.0 Digital Threads Explainable AI Cybersecurity Algorithmic design and performance analysis Industry - Academia Collaboration
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[WEBSITE](#) [X-TREND POSTER](#) [PRESS RELEASES](#)

Technically Coordinated by [Prof. Dionysis Xenakis](#) [X-TREND Research Group](#) @ NKUA page 5 of 5
Complementary Courses of ELIXIRION, SOVEREIGN, EXARCH, AeroNet EU-funded actions 18th – 19th November 2025

2.5 Industrial Dissemination Day

- 1) The **1st SOVEREIGN Industrial Dissemination Day** were co-held in the Industry-Tec 2025 Exhibition on February 14th – 16th, 2025. Two special sessions were organized by the UOA research group, with top-tier panelists, on the digital transformation of Health and the EU industry on Sunday February 16th, 2025, at MEC Paianias. Session 2, on Digital Transformation of the EU Industry, was powered by the SOVEREIGN MSCA Project. The project coordinator, Prof. Dionysis Xenakis, has organized and supervised the events in collaboration with SOVEREIGN fellows.

2η Διεθνής Έκθεση
INDUSTRY.TEC
 ΒΙΟΜΗΧΑΝΙΚΟΣ ΕΞΟΛΙΣΜΟΣ SMART MANUFACTURING

14 -16 Φεβρουαρίου 2025

3 DAY EVENT

INDUSTRY.TEC FORUM 2025

HELLENIC REPUBLIC
 National and Kapodistrian University of Athens
 EST. 1837

National and Kapodistrian University Special Session on
 «Digital Transformation towards Industry 4.0 and Healthcare 4.0»

February 16, 2025, Industry.TEC Exhibition Forum, MEC Palatia, Athens Greece
 Lavriou Street 301, Aθήνα 190 02
 FREE OF CHARGE ACCESS – NO FEES REQUIRED

Technical Coordination by Prof. Dimpasis Anastasiou, NKUA



EVENT SCHEDULE

15:00 – 16:15

Panel on the “Digital Transformation of the Healthcare Industry”

(English Session) powered by the MSCA-DN-ELIXIRION EU funded action (G.A. 101120135)

Panelists



Dr. Dionysia Xenakis
 Panel Coordinator
 Assistant Professor, UGA, Department of Digital Industry Technologies
 X-TREND Research Team Head



Dr. Daphne Kaitelidou
 President of the Organization for Quality Assurance in Health, Greece
 Full Professor, UGA, Department of Nursing



Dr. Stelios Kymourougoulas
 Psychiatrist
 ex-Member of the European Parliament
 Civil Rights and Health Expert



Dr. Dimitris Katsianis
 Deputy Chairman of the National Infrastructures for Research and Technology (NSRF)
 Assistant Professor, UGA, Department of Digital Industry Technologies



Panagiotis Kouris
 CEO of Office Line S.A.



Dr. Christos Xenakis
 Team Captain, Hellenic Cybersecurity Team
 Full Professor, University of Piraeus, Department of Digital Systems
 Systems Security Lab

AGENDA Highlights

- Round table
- The 2025 healthcare ecosystem: stakeholders, infrastructures and status of healthcare information systems (HIS)
- Healthcare data: Availability, Interoperability and Privacy
- Enabling technologies, investments needed and challenges towards Healthcare 4.0
- Exemplary Case Studies & Best Practices at EL or EU level
- What to expect by 2030 and the role of academia/industry to this end



Under the auspices of



The Master's Program of the NKUA in "Financial Technology/ FINTECH"



The Master's Program of the NKUA in "Business Administration"



Co-sponsored by



MSCA-DN-ELIXIRION (G.A. 101120135)



MSCA-SE-SOVEREIGN (G.A. 101131481)

Communication sponsors



16:30 – 18:00

Panel on the “Digital Transformation of the EU Industry”

(Greek Session) powered by the MSCA-SE-SOVEREIGN EU funded action (G.A. 101131481)



Evangelos Gizelis
 CEO @ Gizelis SA
 Founder @ Gizelis Robotics



Michail Papageorgiou
 Head of Technology Endowment Office
 @ Metlen Group SA



Dr. Minas Tsoukalas
 Senior Manager, Data & AI
 @ Accenture Greece



Konstantinos Chatzimichail
 Networks & Managed Services
 Pre-Sales Lead @ Ericsson Hellas



Konstantinos Giannoulis
 Group Information Technology
 Manager @ SABO S.A.



Konstantinos Ntzeimis
 Compliance, Quality Control & Process
 Manager of Office Line S.A.

AGENDA Highlights

- Round table
- Technological Readiness and Digital Transformation of the Greek Industry today
- Best practices and case studies
- Change of mentality and restructuring of enterprises necessary
- Skills and synergies required



Figure 7: Participants and panellists in the 1st SOVEREIGN Industrial Dissemination Day

2.6 Open science engagement

SOVEREIGN GitHub repository is up and running (<https://github.com/Fogus-Gr/SOV-FOGUS>). A place where SOVEREIGN fellows exchange their code sets and software images before making them available to the public.

2.7 Participation in IEEE Technical Committees – TC

Prof. Rodriguez (IT) is CSIM Vice Chair and has organized two 6G IDD promoting the SOVEREIGN focus. The project coordinator Prof. D. Xenakis and SOVEREIGN fellows have actively participated in them. Also, Prof. Xenakis has actively participated in the IEEE Communications Society Student Competition 2024 and 2025, representing the EMEA Region for IEEE.

- 1) The SOVEREIGN MSCA Project supported the **1st Industrial Dissemination Day (2024) by the IEEE-CSIM TC**. Prof. Jonathan Rodrigues from IT has chaired the 1st Industrial Dissemination Day of the IEEE ComSoc CSIM Technical Committee, on December 3rd, 2024. 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.

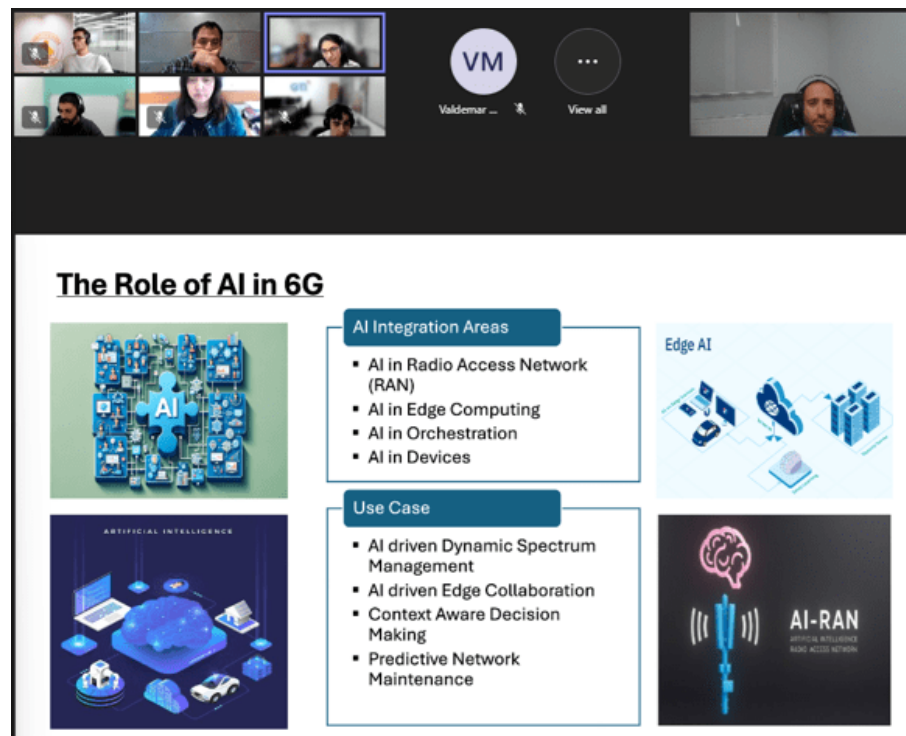


Figure 8. 1st Industrial Dissemination Day (2024) by the IEEE-CSIM TC

- 2) The SOVEREIGN MSCA Project supported the **2nd Industrial Dissemination Day (2025) by the IEEE-CSIM TC**. Prof. Jonathan Rodrigues from IT has chaired the one of the panels, as VC of the IEEE ComSoc CSIM Technical Committee, on December 19th, 2025. Prof. Dionysis Xenakis from UOA was one of the four-member jury which evaluated interesting research proposals and early results of young researchers in the use of AI in 6th Generation Telecommunications. The event was held online.

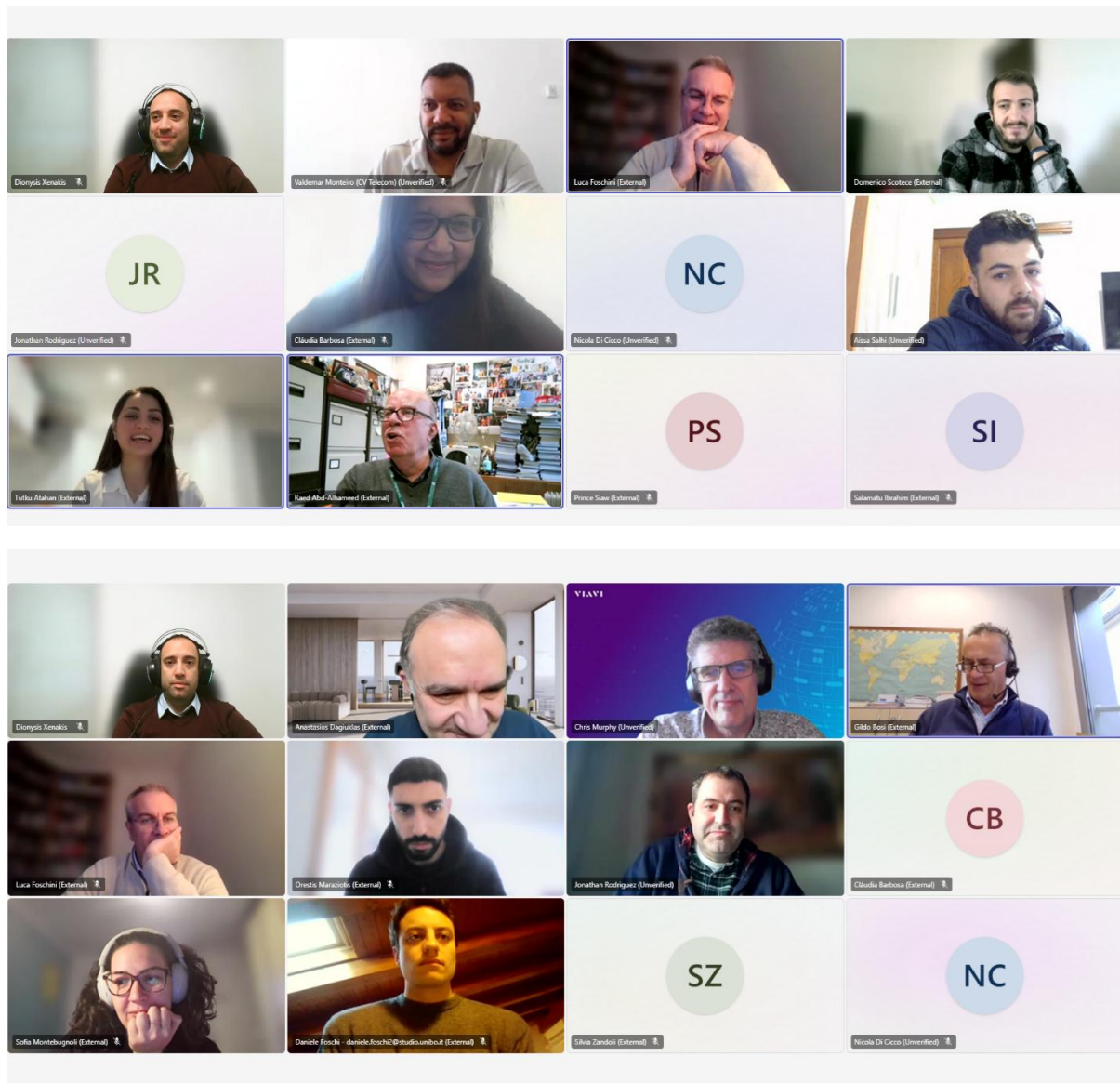


Figure 9: 2nd Industrial Dissemination Day (2025) by the IEEE-CSIM TC (2 panels)

- 3) The SOVEREIGN MSCA Project supported the **IEEE Communications Society Student Competition 2024**. In the **IEEE Communications Society Student Competition 2024**, Prof. Xenakis represented the Europe, Middle East and Africa (EMEA) Region of the IEEE Communications Society for the fourth consecutive year (2021-2024). This Competition is the most recognizable competition for students in the Information and Communications Technologies (ICT) area worldwide and is organized annually by the Institute of Electrical and Electronics Engineers (IEEE) based in the United States of America (USA). The aim of the Competition, which is part of the actions of the IEEE Communications Society, is to recognize students (or groups of students) who demonstrate in practice their ability to improve people's lives by applying ICT, through the

development of projects that have the potential to contribute to a better future for all of us. In the IEEE Communications Society Student Competition 2024, a total of 93 proposals were submitted, and the evaluation process took place in two phases.

- 4) The SOVEREIGN MSCA Project supported the **IEEE Communications Society Student Competition 2025**. Prof. Xenakis represented the Europe, Middle East and Africa (EMEA) Region of the IEEE Communications Society for the fifth consecutive year (2021-2025). In the IEEE Communications Society Student Competition 2024, a total of 150 proposals were submitted, and the evaluation process took place in two phases.

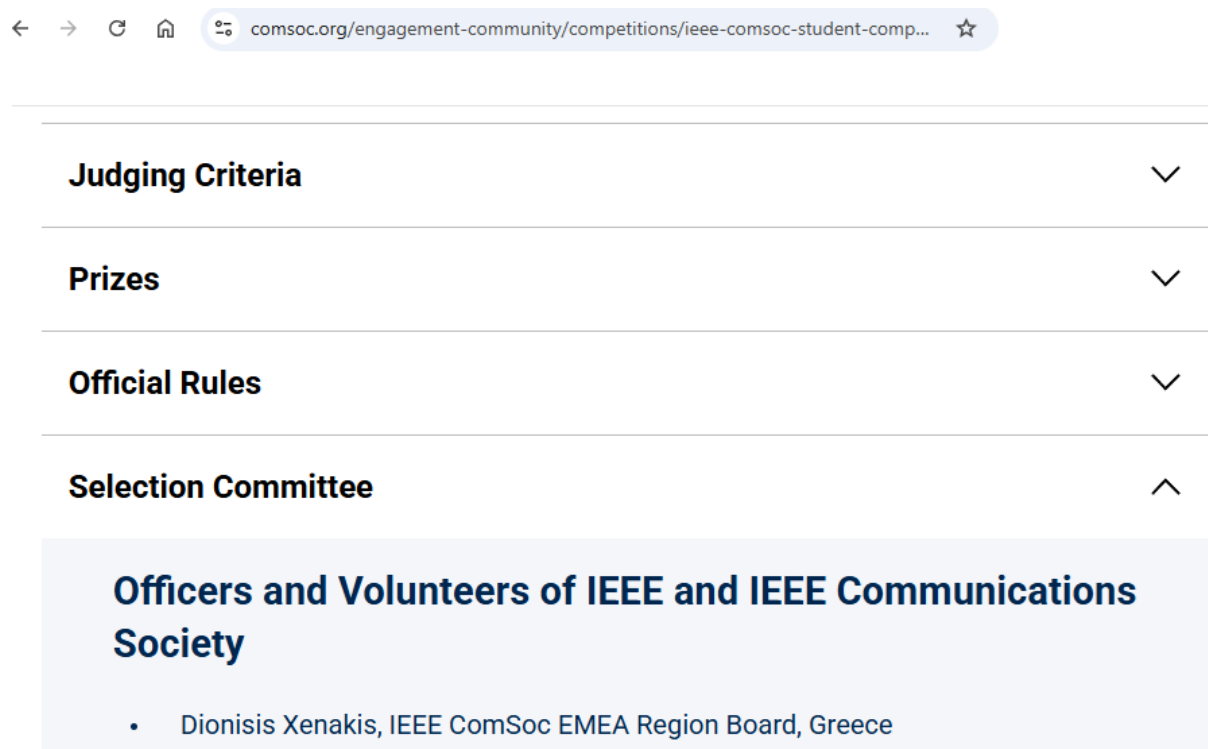


Figure 10: Prof. Dionysis Xenakis, SOVEREIGN PC, as member of the IEEE ComSoc Student Competition Committee in the [official](#) site of IEEE ComSoC

3 Communication and public engagement

3.1 Communication activities

3.1.1 Brochure

SOVEREIGN MSCA Project issued its first brochure summarizing the activity, innovations, and potential impact of the SOVEREIGN solutions, DLTs and B5G in the daily life of EU citizens, in a more open and less scientific way. Brochure is available in English and was disseminated to city councils, local universities, schools, recreational areas, etc.

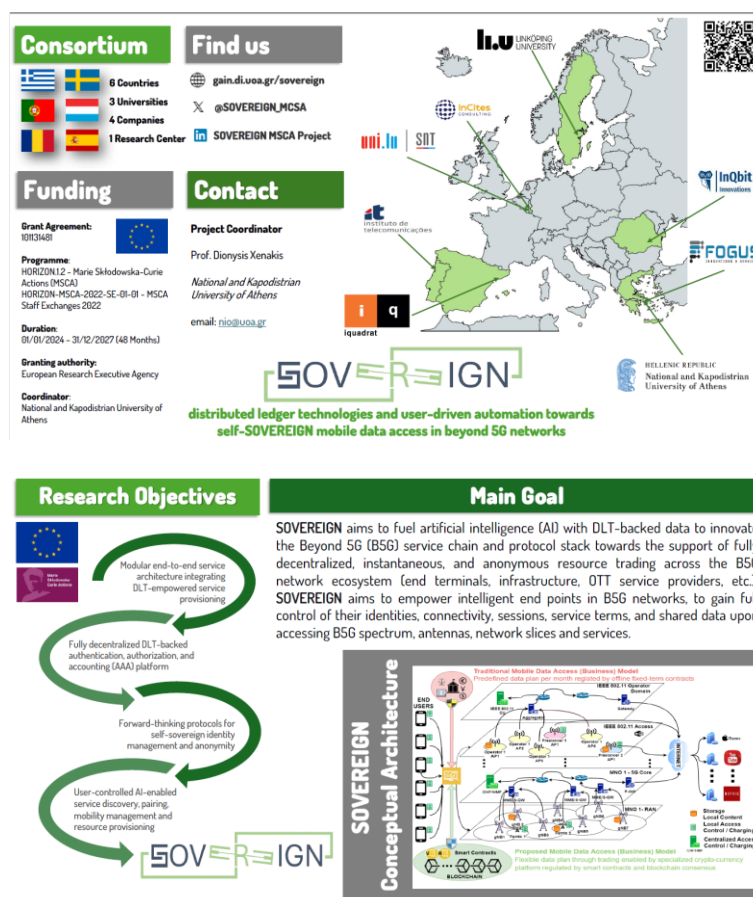


Figure 11. The first brochure of the SOVEREIGN project

3.1.2 Social media

We created accounts in popular social media by the beginning of the project (X/Twitter, LinkedIn, etc.), which are used as channels for providing information to the general public on events, activities and advances of the project.

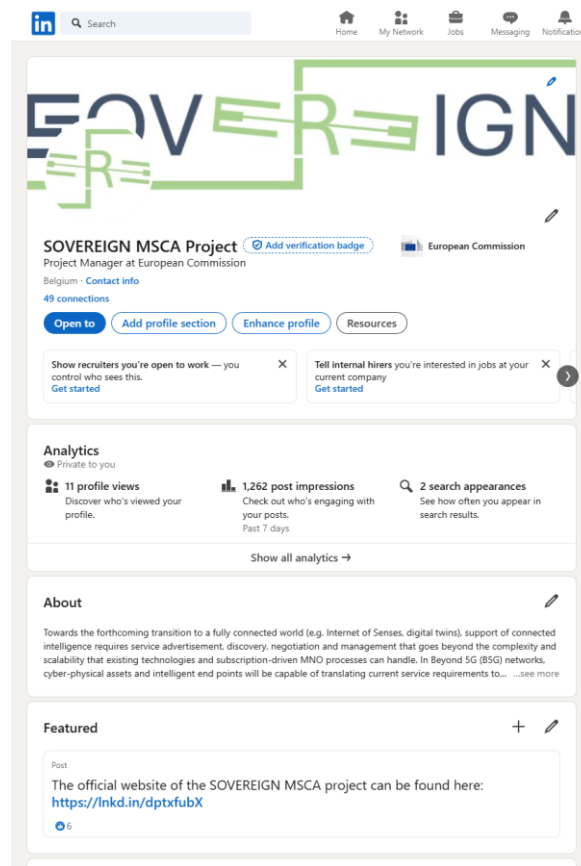


Figure 12. SOVEREIGN's Project LinkedIn Account
[\(https://www.linkedin.com/in/sovereign-msca-project-5288722b8/\)](https://www.linkedin.com/in/sovereign-msca-project-5288722b8/)



Figure 13. SOVEREIGN's Project X Account (https://x.com/sovereign_mcsa)

3.1.3 E-newsletters

E-newsletters are issued bi-yearly (starting at M12) in the project online tools (website, social media), advertising the SOVEREIGN achievements (e.g., technologies, demo KPIs), events (e.g., workshops) and activities to the key B5G stakeholders.

The first e-newsletter was issued in December 2024, providing useful information about the project, dissemination and communication activities that were organized, secondments of SOVEREIGN fellows and upcoming events. The first e-newsletter is the following:

Newsletter

Issue #1 | December 2024

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

In this issue

- p.1 Project Overview
- p.2-4 Dissemination Activities
- p.5 Communication Activities
- p.6 Other Activities
- p.7-8 Secondments
- p.9 Upcoming Events

This project has received funding from the European Union's HORIZON.1.2 - Marie Skłodowska-Curie Actions (MSCA) programme under grant agreement ID 101131481.

Project Overview

Project Information

SOVER=IGN
Grant agreement ID: 101131481

DOI: [10.36327/101131481](https://doi.org/10.36327/101131481)

EC signature date: 24 August 2023

Start date: 1 January 2024 End date: 31 December 2027

Funded under: Marie Skłodowska-Curie Actions (MSCA)

Total cost: € 0.00

EU contribution: € 1 056 000.00

Coordinated by: ETHNICKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON
Athina, Greece

SOVER=IGN 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.). SOVER=IGN 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.

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

National and Kapodistrian University of Athens

FOGUS

LJ UNIVERSITY OF NOVI SAD

InQbit

iCites

Iquadrat

6
Countries

8
Partners

Project Coordinator
National and Kapodistrian University of Athens
Prof. Dionysis Xenakis, nio@uoa.gr

p.1

Dissemination Activities

The SOVER=IGN 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.

Dissemination Activities

MOBILE WORLD CONGRESS (MWC) 2024
26-29 February 2024, Barcelona, Spain

Iquadrat (IQU) had a booth on the MWC 2024 presenting the SOVER=IGN 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 SOVER=IGN project co-organized together with other EU-funded research projects the 4th IWAPS workshop on July 31st, 2024.

p.2

Dissemination Activities

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Dissemination Activities


MOBILE WORLD CONGRESS (MWC) 2024
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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 SOVER=IGN project co-organized together with other EU-funded research projects the 4th IWAPS workshop on July 31st, 2024.

p.3



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



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

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.



p.4

p.5



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



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

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.



p.6

p.7

 distributed ledger technologies and user-driven automation towards self-SOVEREIGN mobile data access in beyond 5G networks		 distributed ledger technologies and user-driven automation towards self-SOVEREIGN mobile data access in beyond 5G networks	
Secondments		Upcoming Events	
ULU → FOG Prof. Symeon Chatzinotas from University of Luxemburg (ULU), during his secondment at Fogus Innovations and Services PC (FOG), Greece. 		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.
 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.		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.	
p.8		p.9	

3.1.4 Multimedia content to target public

- 1) The SOVEREIGN MSCA Project was presented on a public interview in Hellenic Broadcasting Corporation of Greece (ERT) in a radio show, on November 1st, 2024. 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.
<https://hub.uoa.gr/i-silicon-valley-tis-elladas-sta-psachna-evvoias-oi-kathigites-tou-e-k-p-a-dimitris-katsianis-kai-dionysis-xenakis-miloun-sto-radiofono-tis-ert/>
- 2) The SOVEREIGN MCSA Project has been promoted with interviews by many SOVEREIGN fellows that include Prof. Dionysis Xenakis (UOA), Prof. Symeon Chatzinotas (ULU), Anastasia Tsiota (UOA), Klearchos Palias (UOA) and Maria Melina Dolapsaki (UOA), in a Greek web TV channel focusing on advanced technology and entrepreneurship topics under the T-PRESS Web TV. The interviews are also available to the public on YouTube channel from April 2024.

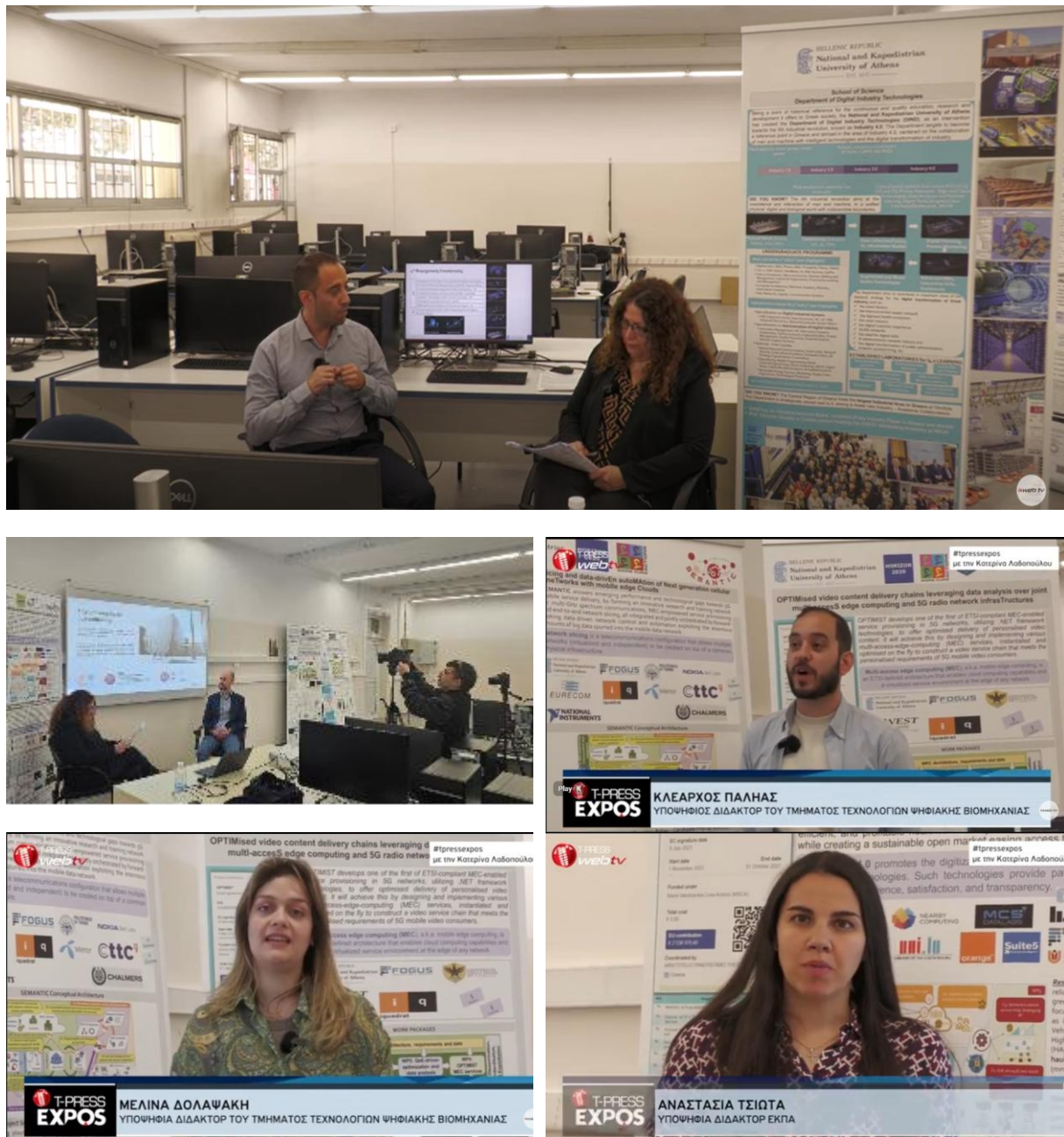




Figure 14: Multimedia Content to Target Public by SOVEREIGN fellows

<https://www.youtube.com/watch?v=davyrekrul8>

- 3) The PC Prof. Dionysis Xenakis (UOA) has participated in many national TV broadcast shows, discussing the power and challenges of using AI, also promoting the challenges and outputs of the SOVEREIGN MSCA Action.

	<p>12 January 2025</p>	<p>Short discussion on the show “Kalimera” with Fay Mavragani on SKAI TV (National broadcast TV) on recent incidents concerning Artificial Intelligence and Autonomous Driving.</p>	
	<p>18 May 2025</p>	<p>Short discussion on the show “Kalimera” with Fay Mavragani on SKAI TV (National broadcast TV) on the use of AI technologies.</p>	<p>https://www.youtube.com/watch?v=eL616auv5NU</p>
	<p>5 Sept 2025</p>	<p>Short discussion on the TV show “Newsroom” with Giorgos Siadimas on ERT NEWS (National broadcast TV) on digital tools and mechanisms.</p>	<p>https://www.dropbox.com/scl/fi/j5ukl9v5q1kzapn3pzmf/VID-20250905-WA0000.mp4?rlkey=gydi4uvi4sif1a1g0chmdj0i3&st=4wj92qim&dl=0</p>
	<p>17 Sept 2025</p>	<p>Short discussion on the TV show “Newsroom” with Giorgos Siadimas on ERT NEWS (National broadcast TV) on, the use of AI tools (FaceSwap, etc.) and the distribution of AI-altered content among minors.</p>	<p>https://www.dropbox.com/scl/fi/s148gknhztr0qh96a8s8x/VID-20250917-WA0000.mp4?rlkey=48hlydofk2ocer9y14o66e254&st=no6nssz9&dl=0</p>

	<p>31 Oct 2025</p>	<p>Short discussion on the TV show “Newsroom” with Giorgos Siadimas on ERT NEWS (National broadcast TV) on recent incidents of online scams using widely known corporate logos, deploying phishing and impersonation attacks as well as hacking personal/corporate accounts. A short checklist with simple countermeasures that can be used to protect us against such attacks was provided</p>	<p>https://www.dropbox.com/scl/fi/yqc2a4taty8jvxeudh7fi/VID-20251031-WA0000.mp4?rlkey=84o0q2kkkcwrw7u9kotg67fdo&st=4e7sjdhg&dl=0</p>
	<p>10 Dec 2025</p>	<p>Discussion with two well-respected journalists Mara Zacharea and Georgios Kouvaras, in their YouTube show “ΟΙ ΣΥΜΦΟΙΤΗΤΕΣ”, on the challenges and opportunities offered by AI, focusing on the creation of misleading content.</p>	<p>https://www.youtube.com/watch?v=MvMejbRZvNs</p>

3.1.5 Online/Printed Press

The SOVEREIGN project has contributed with many online and printed Press Articles in magazines/newspapers with very high circulation in Greece (Kathimerini, Logistics and Management Magazine, Power Transmission Magazine).

- 1) Aristeidis Samitas, Dionysis Xenakis, «Empowering Research and Collaborations between Industry-Academia», Kathimerini, Oikonomiki, 16 Nov. 2025. [[Online Version](#)]



Figure 15. Printed Press (Greek version)

- 2) Dionysis Xenakis, “[Traceability 4.0 in the Logistics Domain: Τεκμαιρόμεθα τοις παρούσι τ’ αφανή](#)”, Logistics and Management Magazine, TEXNOEΚΔΟΤΙΚΗ T-PRESS, pp. 44-46, iss. February 2024, no. 237, February 2024. [[PDF Version](#)]
- 3) Dionysis Xenakis, “[Digital Twins: Today and Tomorrow of the EU Industry](#)”, Power Transmission Magazine, TEXNOEΚΔΟΤΙΚΗ T-PRESS, pp. 44-47, iss. December 2024, no. 237, February 2024. [[PDF Version](#)]

3.1.6 Industrial Exhibitions

The key project innovations were presented through stands/demos with working testbeds in industry-attended events and the project partners. This activity increased the awareness of the industrial stakeholders and operators on the project results.

- 1) The **1st SOVEREIGN Industrial Exhibition** was co-held in the *Industry-Tec 2025 Exhibition* on February 14th – 16th, 2025. SOVEREIGN fellows, along with research fellows working in other projects (MSCA AIAS, MSCA ELIXIRION, etc) have been present in the booth promoting the action activities. The booth has

been visited by many students, professionals, executives, representatives of the Greek Industry, including the responsible for **Member Relations of the Hellenic Federation of Enterprises** Mr. Dimitris Vergados as well as the **Minister of Development and Investments** of the Hellenic Republic (Greece) Mr. Takis Theodorikakos (pictures below).

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 was held in Mediterranean Exhibition Center (MEC), in Athens, Greece and UOA was one of the event exhibitors.

Technology enthusiasts, students, pupils, families with children, industry executives, researchers and faculty members, had the opportunity to discuss in person with members of the UOA research team, as well as their colleagues from other projects to which the group participates in (ELIXIRION-MC, Optimist, SOVEREIGN MSCA Project, AIAS MSCA). Some of the fellows that were present at the UOA booth were from Aristotle University of Thessaloniki (AUTH), University of Luxembourg, University of Malaga, Linköping University, Nearby Computing, Suite5 Data Intelligence Solutions, Fogus Innovations and Services P.C. and more.

Several platforms have been demonstrated by SOVEREIGN fellows.



Figure 16: Photos from the 1st Industrial Exhibition day. Article [here](#)

- 2) Iquadrat (IQU) had a booth on **MOBILE WORLD CONGRESS (MWC) 2024**, presenting the SOVEREIGN project to the public. Mobile World Congress is an annual trade show dedicated to the mobile communications industry. The MWC 2024, was held in Barcelona, Spain, on February 26-29, 2024, and delivered four days of vibrant discussion and networking, convening industry leaders and attendees from across the mobile ecosystem. MWC 2024 brought together connectivity leaders from 205 countries and territories, exploring industry topics including AI, the usage gap, GSMA Open Gateway and the investment gap.



Figure 17. IQU's booth in MWC 2024

3.1.7 Other Activities

- 1) On February 16, 2024, Prof. Dionysis Xenakis participated as panelist in the prestigious Green Transport & Logistics «Navigating the Future II» organized by T-PRESS at the Divani Caravel hotel in Athens, Greece. More than 300 attendees, including government members, board members of almost all logistic associations, business executives, distinguished academics, students (including

UOA department) have taken part into this event, making it both successful and impactful. The discussion in the panel was on "Digital Transformation, Innovation and Artificial Intelligence".



Figure 18: Green Transport & Logistics «Navigating the Future II» , AI Panel with the SOVEREIGN PC Prof. Dionysis Xenakis

- 2) On April 2024, Prof. Symeon Chatzinotas 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 Ethnikon kai Kapodistriakon Panepistimion Athinon (UOA), under the EU-funded research action SOVEREIGN MCSA Project. The lecture has also been livestreamed and recorded through Webex.



Figure 19. Prof. Chatzinotas (ULU) provided a lecture at UOA undergraduate students

- 3) Prof. Nikolaos Pappas from Linköping University (LIU) provided an internal lecture to Fogus fellows during his secondment in 2024. He also had the opportunity to interact with fellows co-hosted by Fogus Innovations and Services P.C. working under other Marie Curie Actions: AIAS and ELIXIRION.



Figure 20. Prof. Nikolaos Pappas at FOGUS providing lecture to fellows

- 4) Prof. Nikolaos Pappas from Linköping University (LIU) provided a tutorial at IEEE GLOBECOM 2024 on December 12th, 2024. The title of the tutorial was “Goal-oriented and Semantic Communications and Networking for 6G”. The IEEE GLOBECOM 2024 conference was held on 8–12 December 2024, Cape Town, South Africa.
- 5) On September 3rd, 2024, Prof. Nikolaos Pappas from Linköping University (LIU) provided a tutorial at IEEE PIMRC 2024. The title of the tutorial was “Goal-oriented Semantic Communication”. IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) was held on 2–5 September 2024, Valencia, Spain.

Tutorial Outline

Part I: Semantics-aware Communications

Part II: Information Theoretic Approaches to Goal-oriented Semantic Communication

Part III: End-to-end information chain

Part IV: Concluding remarks, open problems, and future directions

- 6) On June 5th, 2024, Prof. Nikolaos Pappas from Linköping University (LIU) provided a tutorial at IFIP/IEEE Networking 2024 with title “From Information Freshness to Semantics of Information and Goal-oriented Communications”. The International Federation for Information Processing (IFIP) Networking 2024 Conference (NETWORKING 2024) was held in Thessaloniki, Greece, 3 – 6 June

2024.

- 7) In December 2024, Prof. Nikolaos Pappas provided an online invited talk on “Semantics-aware Goal-Oriented Communications: AoI and beyond”. The talk was within the “Semantic Communications Enabled Intelligent Wireless Networks Workshop” in 2024 IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS).

3.2 Public engagement activities

3.2.1 Public Talks

Within 2024-2025, the vast majority of SOVEREIGN fellows have provided public talks. Some of the noticeable ones, include the participation of SOVEREIGN fellows in the 3rd Student Innovation & Entrepreneurship Competition of Archimedes (UOA) that was held on December 2025. In the event, Anastasia Tsiota and Ioannis Stamoulias presented the scope of the SOVEREIGN MSCA action as well as their research focus.



Figure 21. SOVEREIGN fellows participated in the 3rd Student Innovation & Entrepreneurship Competition at NKUA

3.2.2 SOVEREIGN Hackathons

UOA has leveraged the participation of Senior Researchers of IQB into the steering committee of the European Cyber Security Challenge (ECSC) and co-organized a hands-on event on distributed ledger, cryptography, network security and software security HACKATHON with wide participation of programmers, engineers, students, and others.

1) 1st SOVEREIGN Hackathon

SOVEREIGN Project supported the 1st Hellenic University Hack (UniHack) Cyber

Security contest, which occurred on December 7, 2024. UOA participated with several students under the supervision of Prof. Dionysis Xenakis.



Figure 22. UOA team of the 1st SOVEREIGN Hackathon (2024)

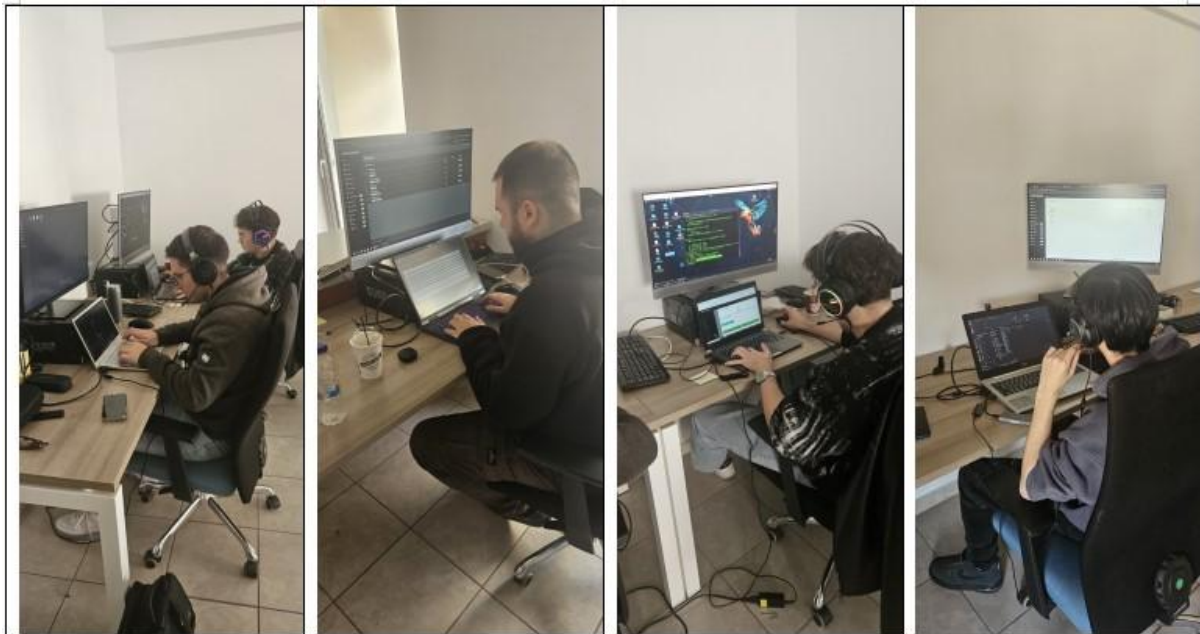
2) 2nd SOVEREIGN Hackathon

The **2nd SOVEREIGN Hackathon** was co-held with the Hellenic University Hack (UniHack) and the national Capture The Flag (CTF) competition that was organized on December 13th, 2025, including the participation of at least 92 different research teams, 350+ undergraduate, graduate, candidate PhD, PhD and Postdoc students (among others) that solved up to 34 puzzles in the areas of Web, Miscellaneous, Reverse Engineering, Forensics, Cryptography, Binary exploitation (pawN) και Hardware.

UOA team that was supported by the SOVEREIGN project, acquired the 4th position (among 103 teams) gathering in total 5523 points and solving 29/34 challenges. The project coordinator of the SOVEREIGN action, Dionysis Xenakis, has been local organizer for the UOA and the SOVEREIGN MSCA action.



Figure 23. UOA team of the 2nd SOVEREIGN Hackathon (2025)



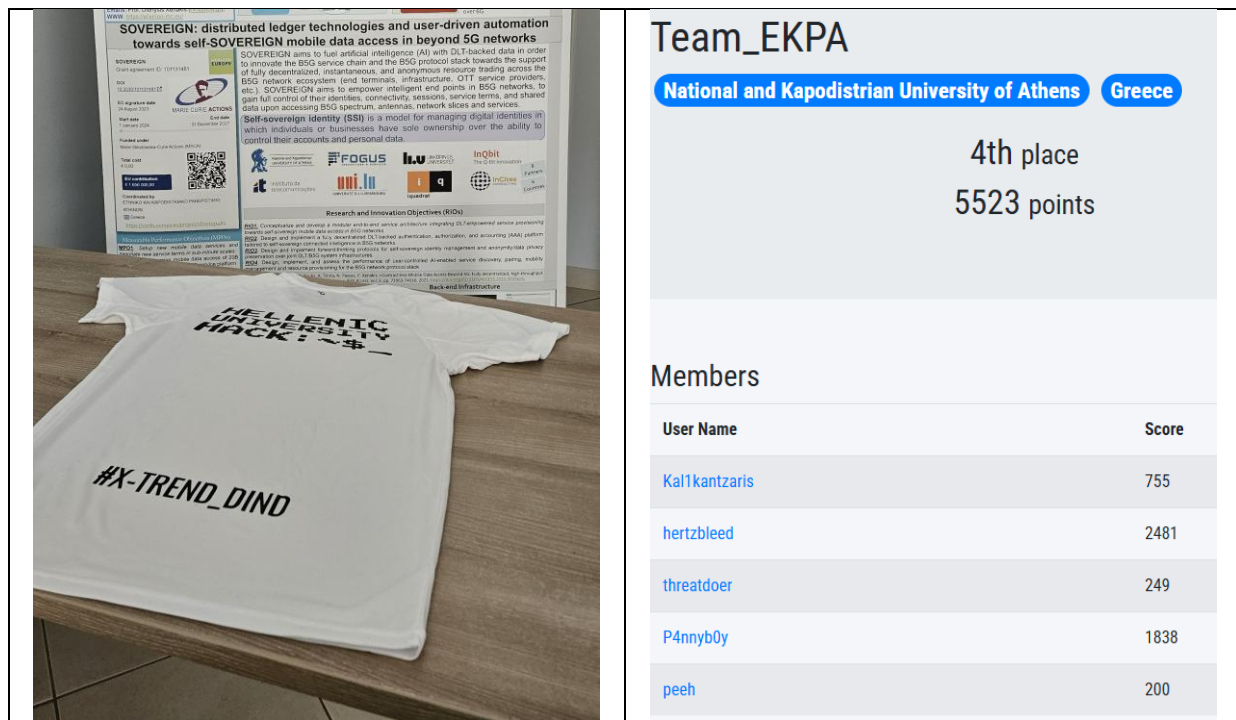


Figure 24: Promotion material for the SOVEREIGN Hackathons, including the SOVEREIGN Poster

3.2.3 Open Days

On March 7, 2024, UOA Euripos Campus (Psachna - Euboea), hosted a **"Career Day"** for high-school students in collaboration with the local Municipality of Dirfyon Messapion (Euboea). During the event, high-school students had the opportunity to learn about the academic curricula and impact of local NKUA departments as well as to visit and be actively engaged in lab activities in a handful of training/research labs.

Among others, students had the opportunity to visit the "Data Networks" lab that Prof. Dionysis Xenakis administrate at the Department of Digital Industry Technologies. The lab enables our undergraduate students to acquire hands-on experience in line with the Cisco Networking Academy Program. The specific curriculum is integrated into the lab of the "Data Networks" and "Network Management" undergraduate courses, while it is offered to about 300+ postgraduate students each year (since 2023), studying at both the Digital Industry Technologies as well as the Aerospace Science and Technology Departments of UOA.

Besides, presenting the curriculum and actively engaging high-school students with hands-on experiences at the Academic Departments that they are targeting to study at, is also invaluable for them, helping them also to better infer on their talents, interests and future career path.

The UOA departments at the Euripos Campus (Psachna - Euboea) are:

- Department of Digital Industry Technologies
- Department of Agricultural Development, Agri-food & Natural Resources
- Department of Ports Management & Shipping
- Department of Aerospace Science and Technology
- Department of Digital Arts and Cinema



Figure 25. Prof. Dionysis Xenakis presented the Department of Digital Industry Technologies during the Career Day, on March 7, 2024



Figure 26. High-school students had the opportunity to acquire hands-on experience in the “Data Networks” lab, during the Career Day, on March 7, 2024

4 Standardization

SOVEREIGN beneficiaries and fellows also had constant presence in top-tier standardization bodies and events, promoting concepts, research work and ideas also coming from the SOVEREIGN research outcomes.

- FOG is founding member of the ETSI Software Development Group OpenCAPIF (SDG OCF), contributing to the group with many different research outcomes in the area of software development and beyond 5G networking (<https://ocf.etsi.org/team/>). Dr. Dimitris Tsolkas (FOG CEO) is Acting SDG chair and provides strategic direction / oversight for the OpenCAPIF initiative.
- On November 26, 2025, FOG participated in the Joint SDG Ecosystem Day, a full-day event where ETSI’s Software Development Groups (SDGs) and their ecosystems come together to share implementation experiences and future plans. The session was delivered by FOG fellow S. Charismiadis and was about "Leverage CAPIF vendor extensibility feature to expose CAMARA APIs".

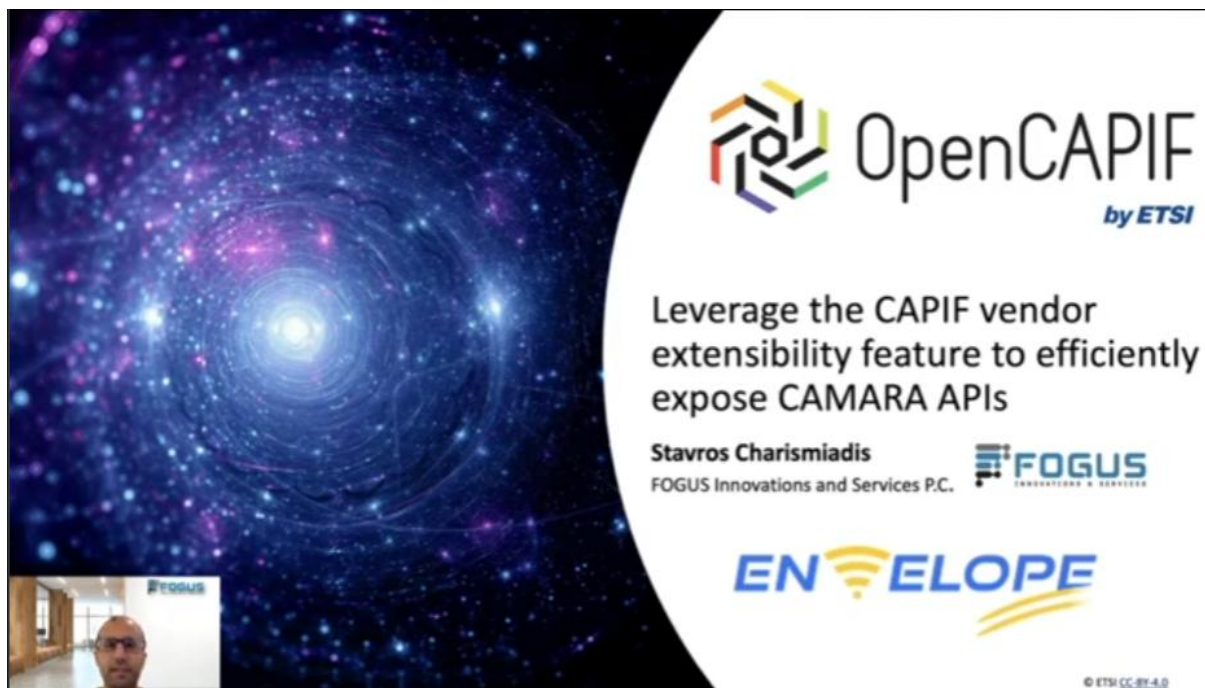


Figure 27: FOG contribution in the ETSI Joint SDG Ecosystem Day

- On April 15-16, 2025, FOGUS participated in the ETSI 6G Monday event, that looks at the early-stage progress being made on 6G. This day long conference provided an entry point into the European 6G landscape (Projects, R&D progress, Academia) and the role of the Standards bodies in it. Dr. Dimitris Tsolkas, CEO of FOG, participated in the event presented relevant work in the area of 6G standardization.



Figure 28: FOG contribution in the ETSI 6G Monday Conference

5 Overview of the SOVEREIGN Dissemination, Communication, Public Engagement and Standardization Activities by Y2

SOVEREIGN Activities (Delivered by Y2)					
Type	Name	Description	Target Audience	Communication Channel	Outcome
DISSEMINATION	Website	Up and running https://sovereign-msca.com/	Industry, business partners Innovators EU Institutions National authorities Regional authorities Local authorities Civil society Citizens Research communities Specific end user communities International organisation (UN body, OECD, etc.) Other Investors	Website	Thousands of visitors
DISSEMINATION	Publications	29+ Peer-reviewed publications in conferences / journals	Industry, Innovators, Research Communities	Multiple events, publications	11 journals 18 conferences
DISSEMINATION	Workshops organization	1 st SOVEREIGN Workshop in IEEE NFV-SDN 2025 on “Software-driven 6G Networks for Healthcare 4.0 and Self-Sovereign Mobile Data Access – 6G-NATA”, 4 th IWAPS in ARES Conference 2024,	Industry, business partners Innovators EU Institutions	Multiple events	3 workshops, hundreds of participants

		5 th IWAPS in ARES Conference 2025,	ns Research communi ties Internatio nal organizat ion Investors		
DISSEMINATIO N	Technical Courses	SOVEREIGN Courses 1, 2 & 3, with hundreds of participants (physically and online), over 30+ hours of delivered seminars.	Industry, business partners Innovator s Research communi ties Students Others	Multiple events	3 Courses of a total 30+ hrs duration, hundreds of participan ts
DISSEMINATIO N	Industrial Disseminati on Days	Industry.TEC 2025 with top-tier panelists, sessions and attendees	Industry, business partners Innovator s EU Institutio ns National authoritie s Regional authoritie s Local authoritie s Civil society Citizens Research communi ties Specific end user communi ties Other Investors	Event	1 event with 2 separate panels, hundreds of attendees
DISSEMINATIO N	SOVEREIGN GitHub repo	SOVEREIGN GitHub repo	Industry, Innovator s, Research Communi ties	Other (online repo)	1 repository online, global online access to all beneficiar ies /

					fellows
DISSEMINATION	Participation in IEEE Technical Committees and their Events	1st Industrial Dissemination Day (2024) by the IEEE-CSIM TC, 2nd Industrial Dissemination Day (2025) by the IEEE-CSIM TC, IEEE ComSoc Student Competition 2024, IEEE ComSoc Student Competition 2025,	Industry, business partners Innovators Research communities Other	Multiple events	4 events with hundreds of participants
COMMUNICATION	1 st SOVEREIGN Brochure	1 st SOVEREIGN Brochure	Industry, business partners Innovators EU Institutions National authorities Regional authorities Local authorities Civil society Citizens Research communities Specific end user communities International organisation (UN body, OECD, etc.) Other Investors	Online and Print Material	Reach out hundreds of readers
COMMUNICATION	Social Media	X (Twitter) and LinkedIn accounts https://www.linkedin.com/in/sovereign-msca-project-5288722b8/ https://x.com/sovereign_mcsa	Industry, business partners Innovators EU Institutions National	Social Media	2 accounts, 200+ followers, 120+ posts, thousands of views

			authorities Regional authorities Local authorities Civil society Citizens Research communities Specific end user communities International organisation (UN body, OECD, etc.) Other Investors		
COMMUNICATION	E-newsletters	3 e-newsletters	Industry, business partners Innovators EU Institutions National authorities Regional authorities Local authorities Civil society Citizens Research communities Specific end user communities International organisation	Newsletter	3 newsletters, hundreds of readers

			on (UN body, OECD, etc.) Other Investors		
COMMUNICATION	Multimedia content to target public	1 radio show, 5+ Broadcast TV Shows, 10+ fellow interviews	Industry, business partners Innovators Civil society Citizens Specific end user communities Other	Videos, TV/Radio campaign	5+ TV and 1 Radio Shows, Multiple YouTube Videos, Multiple thousands of viewers
COMMUNICATION	Online / Printed Press	10+ online and printed articles in magazines/newspapers with very high circulation in Greece that include Kathimerini, Logistics and Management Magazine, Power Transmission Magazine, Infocom magazine	Industry, business partners Innovators National authorities Regional authorities Local authorities Civil society Citizens Specific end user communities Other Investors	Media Article	10+ online and printed articles, Multiple thousands of readers
COMMUNICATION	Industrial Exhibitions	1st SOVEREIGN Industrial Exhibition at Industry.TEC 2025, Mobile World Congress (MWC) 2024	Industry, business partners Innovators EU Institutions National authorities Regional authorities Local	Exhibition	2+ Exhibitions, Thousands of visitors

			<p>authorities</p> <p>Civil society</p> <p>Citizens</p> <p>Research communities</p> <p>Specific end user communities</p> <p>International organisation (UN body, OECD, etc.)</p> <p>Other Investors</p>		
COMMUNICATION	Contribution to panels and technical tutorials	7+ events	<p>Industry, business partners</p> <p>Innovators</p> <p>EU Institutions</p> <p>National authorities</p> <p>Local authorities</p> <p>Civil society</p> <p>Citizens</p> <p>Research communities</p> <p>Specific end user communities</p> <p>Students</p> <p>Other Investors</p>	Multiple Events	7+ events, Hundreds of attendees
PUBLIC ENGAGEMENT	Public Talks	10+ public talks, including the presentation of the SOVEREIGN action focus in a Student Competition at UOA	<p>Industry, business partners</p> <p>Innovators</p> <p>Research communities</p> <p>Specific</p>	Multiple Events	10+ events, hundreds of attendees

			end user communities Students Investors		
PUBLIC ENGAGEMENT	Hackathons	2 Hackathon events in the SOVEREIGN research focus areas (blockchain, security, etc) with hybrid participation and vast participation from students, PhDs, Postdocs, private sector employees, tech enthusiasts	Research communities Specific end user communities Students Other	Multiple events	2 events, hundreds of participants
PUBLIC ENGAGEMENT	Open Days	Multiple events at the beneficiaries premises (e.g., UOA held 2)	Students Other	Multiple events	Hundreds of participants
STANDARDIZATION	Contributions to Standardization Committees	Leadership in an ETSI SDG, 2+ contribution to ETSI events	Industry, business partners Innovators EU Institutions Research communities Specific end user communities	Multiple events	2+ presentations and contribution to ETSI events
Type	Name	Description	Target Audience	Communication Channel	Outcome