



CyberNEMO

End-to-end Cybersecurity to NEMO meta-OS



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Objectives

CyberNEMO aims to infuse **end-to-end cybersecurity** and **trust** on the IoT-Edge-Cloud-Data Computing Continuum. CyberNEMO delivers **innovations that support resilience, risk preparedness, awareness, detection and mitigation** within Critical Infrastructures deployments and across supply chains on top of NEMO (Next Generation Meta OS – HE 101070118), which manages the IoT-Edge-Cloud continuum, through an open-source, flexible, adaptable, and multi-technology meta-Operating System.

CyberNEMO will offer end-to-end and full stack protection, ranging from a low level Zero-Trust Network Access layer up to a human AI explainable Situation Perception, Comprehension & Protection (SPCP) framework and tools, collaborative micro-services Auditing, Certification & Accreditation and a pan-European Knowledge Sharing, risk Assessment, threat Analysis and incidents Mitigation (SAAM) collaborative platform.

Approaches



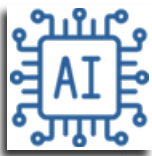
Cybersecure Critical Infrastructures and across supply chains



Free & Open Source



Culture of cybersecurity



AI-based resilience, preparedness, awareness, detection, and risk mitigation



Cybersecure AIoT-Edge-Cloud-Data continuum



Ethics-by-Conception



In a nutshell

01 End-to-end Cybersecurity to NEMO Meta-OS

02 Secure integration of self-aware, (semi-) autonomous entities

03 Internet-native Zero Trust Network Access (ZTNA)

04 Secure Access Service Edge

05 Cybersecure Situation Perception, Comprehension and Protection

06 PRESS (Privacy, data pProtection, Ethics, Security & Societal) framework

07 Evidence-based Certification & Accreditation assurance

08 Cross-domain/cross-border Knowledge Sharing, Risk Assessment, Threat Analysis and Incidents Mitigation

09 Cybersecurity in Critical Infrastructures & across supply chains Secure Execution Environment(SEE)

10 4 pilots securing infrastructures in the areas of energy, water, health, media and smart agriculture. Plus a cross-border pilot



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The Consortium



designed by CyberSocial Lab.



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