CyberNEMO

- AI-based resilience, preparedness, awareness, detection, and risk mitigation
- Cybersecure AIoT-Edge-Cloud-Data continuum
- Cybersecure Critical Infrastructures and across supply chains
- Culture of cybersecurity
- Free & Open Source

Knowledge Sharing, risk Assessment, threat Analysis and incidents Mitigation (SAAM)

DevZeroOps Platform as a Service
- Plugin & Applications Life Cycle Manager
- Cybersecure Micro-Services Digital Twins (CMDT)

Cybersecurity Situation Perception, Comprehension & Protection (SPCP)
- Intrusion Prevention/ Detection/ Mitigation System DSS (IPDM-DSS)
- Cybersecure DNS (cDNS)
- AI-based Firewall as a Service (AI-FWaaS)

Auditing, Certification & Accreditation (ACA)

Data Sovereignty Space
- DLT/ Blockchain
- Shared Data Space Tools

PRESS Framework
- Privacy Protection Enforcement (PPE)
- Continuum Access Security Broker (CASB)

Meta-Orchestrator
Scheduler
- Micro-Services Space
- Micro-Services SEE

- Intent based Migration Controller
- Honeypot Sandboxing

Meta-Orchestrator (End-to-end policy/SLO based optimization)
Local Scheduler
- Distributed Micro-Services (IaaS)
- Micro-Services Secure Execution Environment (SEE)
- Microservices Federated Catalogue
- External Catalogues (e.g. GAIA-X)

Zero Trust Network Access (ZTNA)
- Network Virtual Micro-segmentation
- Continuous Network Monitoring & Validation
- Network Access Controller
- Network Topology Attestation
- Distributed Lateral Movement Detection

- mNCC
- Traffic Filtering/ Optimization
- meta Network Cluster Controller (mNCC)

- Packet Inspection

IoT/5G & Resources Control
- Fog – M2M Networking
- 5G - MCM Networking

5G Edge/Core Network & Resources Management
- SD-WAN
- 5G Communications/FTTH /Fibre Backbone

- CyberNEMO Integration Infrastructure Technology Lab
- Smart Energy & Smart Water Critical Infrastructures
- Proactive & Intelligent Protection of Healthcare Critical Infrastructures
- Secure and Intelligent Media Content Supply Chain Ecosystems
- Smart Farming and FinTech/Logistics Supply Chain

- End-to-end Cybersecurity to NEMO Meta-OS
- Secure integration of self-aware, (semi-) autonomous entities
- Internet-native Zero Trust Network Access (ZTNA)
- Human-explainable AI (XAI) and Intelligence Amplification
- Data provenance verification and data loss prevention
- Zero knowledge and zero trust validations of data transactions
- Computing Continuum role-based access for transactions verification and validation
- PRESS (Privacy, data pRotection, Ethics, Security & Societal) framework
- Cybersecurity in Critical Infrastructures & across supply chains Secure Execution Environment(SEE)

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