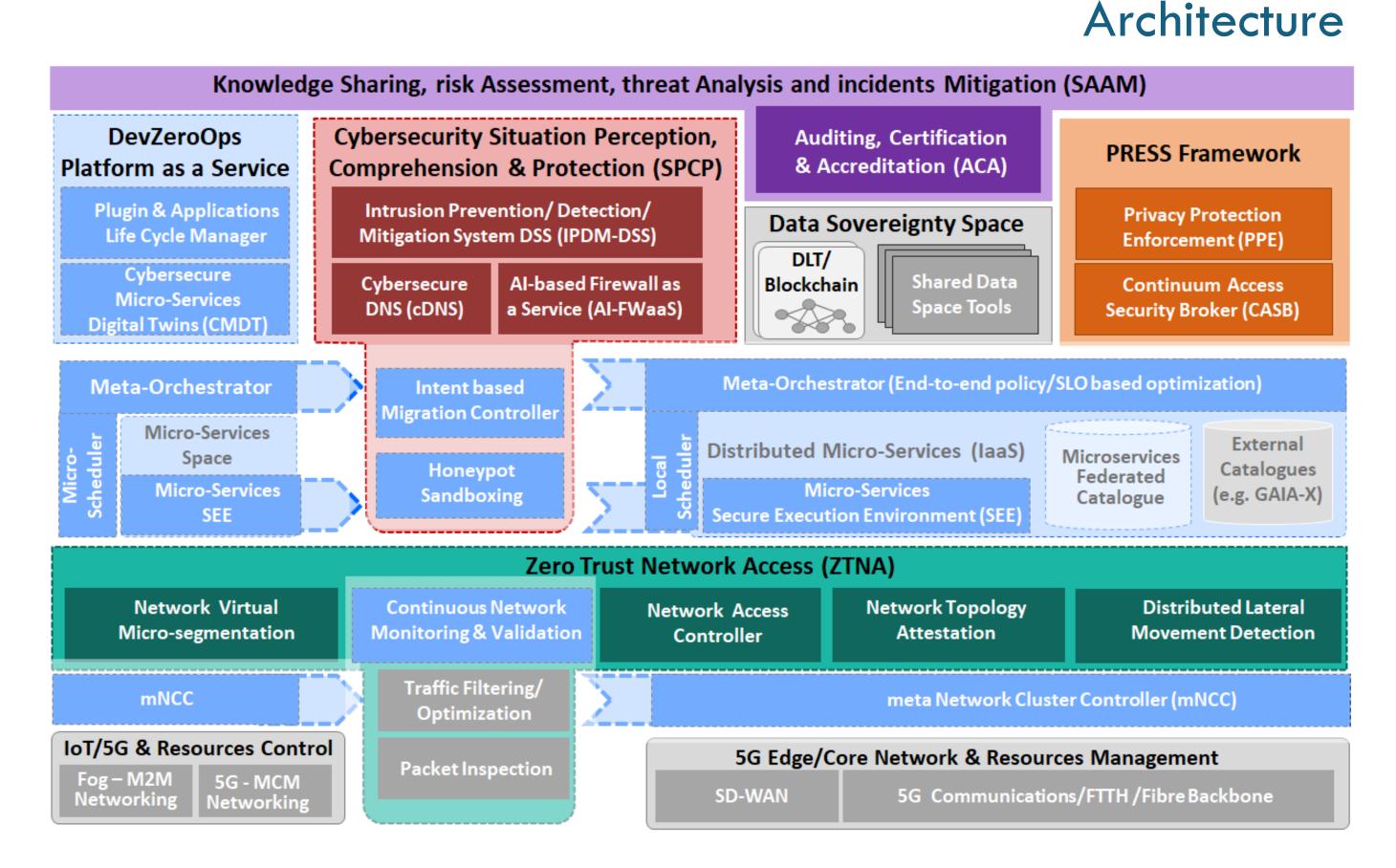


ZTNA in Computing Continuum

CyberNEMO enhances end-to-end cybersecurity and trust across the IoT-Edge-Cloud-Data continuum building on NEMO (Next Generation Meta-OS), delivering an open, modular and adaptive platform to support secure, resilient and intelligent critical infrastructure and supply chain operations. The project introduces Zero Trust Network Access, explainable AI for and situation threat awareness response, collaborative auditing and certification services, and a pan-European framework for knowledge sharing, risk analysis and mitigation, addressing the increasing complexity and interdependence of connected systems.



Zero Trust Network Access (ZTNA)

Identity verification Least privilege access

Network Microsegmentation Flexible, software-defined

Security perimeters

Cybersecure Micro-services Digital Twins (CMDT)

Traceability Scalability via blockchain/DLT

Situation Perception, **Comprehension & Protection** (SPCP)

Al-driven anomaly detection and threat analysis

Secure Execution Environment (SEE)

Secure microservice lifecycle management

PRESS Framework

Privacy, data pRotection, Ethics, Security & Societal

Evidence-based Certification & Accreditation assurance

Auditing Accountability

Collaborative SAAM Platform

Knowledge Sharing, risk Assessment, threat Analysis and incidents Mitigation

Trials

Pilot	Description
Integration Infrastructure Technology Lab	Integration of cybersecurity, IoT, and 5G/6G testbeds
Smart Energy & Smart Water Critical Infrastructure	Protection of energy/water networks against cyberattacks and data breaches
Secure and Intelligent Media Content Supply Chain	Secure multimedia distribution in multi-domain Edge- Cloud environments
Proactive & Intelligent Protection of Healthcare Critical Infrastructures	Security of medical data, prevention of unauthorized access, and early threat alerts
Smart Farming and FinTech/Logistics Supply Chain	Traceability, transparency, and security in agrifood supply chains
Pan-European SAAM multi-Living Labs Federation	Pan-European federation of labs for cross-validation and data governance











ASM Terni Sp.A



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