

LATEST CHALLENGES, SOLUTIONS AND REGULATIONS REGARDING HEALTH DATA PROTECTION AND CYBERSECURITY WERE DISCUSSED AT THE CYBERMED 2025 CONFERENCE

20th May 2025, Carina Ioana NITA

CYBERGUARD Consortium participated at the "CyberMed 2025: Cybersecurity in the Era of Digitalization of Health. Regulations, Education and Patient Data Protection" Event on 20th May 2025. CYBERGUARD Consortium Partner - The National Cyber Security Directorate (DNSC), in partnership with the Center for Innovation and e-Health (CleH) within the "Carol Davila" University of Medicine and Pharmacy (UMFCD), organized the first edition of the Conference. The Conference was held at the Council Hall of the "Carol Davila" University of Medicine and Pharmacy in Bucharest.

The Project objectives are: develop and deploy advanced AI-driven technologies within Security Operation Centers (SOCs) to enhance their capabilities in analyzing, detecting, and preventing cyber threats; establish a secure and efficient Cyber Threat Intelligence (CTI) sharing framework to facilitate collaboration and information exchange amongst stakeholders; implement proactive vulnerability management and incident response mechanisms; enhance the resilience of SOCs against emerging threats; and promote cybersecurity awareness within European societies and organizations.

The Agenda of the Conference highlighted the following key topics: Global Cyber Threats and Developments in the field of Cybersecurity; Digital Security for Medical Residents: Simple Rules that can prevent disaster; Assessment of the maturity of Cybersecurity at the level of Healthcare Institutions in Romania; Inbox Immunization: Protecting Patient Data and Digital Health in the Healthcare System; Human factors in protecting Patient Data in the era of Digitalization of Medical Services; Teleradiology – integrated Solution for Medical Data Security and Treatment Optimization; and Cybersecurity Risks in the Medical domain.

The Conference brought together dedicated professionals in the fields of healthcare, IT and cybersecurity, as well as representatives of public and private institutions, who exchanged the knowledge's on the latest challenges, solutions and regulations regarding the protection of medical data.

CYBERGUARD Consortium was also represented by Dr. Luminita STANCIULESCU – M.D., Ph.D., Second Degree Researcher (CS II) & Project Manager, from the Bucharest Emergency Clinical Hospital (SCUB) Partner.

"At SCUB, our top priority is saving lives, we provide emergency medical services not just for the city, but for the entire country. That's why cybersecurity is not just an IT issue for us, it's a matter of patient safety. Through the CYBERGUARD project, we're working to build a proactive, security-focused culture within the hospital and ensure our systems are resilient. We also see this as a model that can be replicated across other hospitals in Romania that use similar healthcare infrastructures."

Dr. Luminita STANCIULESCU – M.D., Ph.D

CYBERGUARD Project funded by the European Cybersecurity Competence Centre (ECCC), under the Digital Europe Programme, with the Topic: DIGITAL-ECCC-2024-DEPLOY-CYBER-06-ENABLINGTECH, started its implementation on 1st December 2024, and gathers 13 Consortium



Partners Organizations from Cyprus, Greece, Spain and Romania. The European Consortium Partners is coordinated by I-ENERGYLINK (RO) working together with ARISTOTLE UNIVERSITY OF THESSALONIKI (GR), BOLTON TECHNOLOGIES (CY), CACTUS DIGITAL (GR), CLONE SYSTEMS (CY), COLUMBIA SHIPMANAGEMENT (CY), ROMANIAN NATIONAL CYBERSECURITY DIRECTORATE (RO), ELIAS NEOCLEOUS (CY), INTERNATIONAL HELLENIC UNIVERSITY (GR), JOT INTERNET MEDIA (ES), ROMGAZ (RO), BUCHAREST EMERGENCY HOSPITAL (RO), and SIQSESS TECHNOLOGY (RO).

CYBERGUARD addresses the escalating complexity of cyber threats targeting critical infrastructure sectors such as Transportation, Energy, Finance, Maritime, Government, and Health. The key point of this approach is the deployment of sophisticated defense & attack strategies, driven by experts specializing in AI and enabling technologies.

The Project is committed to enhance the cybersecurity infrastructure across various organizations, aiming to proactively predict, detect, and mitigate cyber threats and vulnerabilities. By integrating a range of advanced technologies and methodologies, CYBERGUARD seeks to advance the security posture of organizations significantly.

Its Innovative Solutions are: the deployment of machine learning algorithms for the detection and prevention of cybersecurity threats on networks and hosts, addressing complex security challenges posed by new and multifaceted threat actors. The aim is to enhance traditional detection mechanisms; advancing the generation, management, and secure dissemination of CTI within CYBERGUARD, by creating and implementing advanced tools and platforms to ensuring data security and privacy; systematizing the assimilation, organization, and scrutiny of diverse and voluminous data sets.

The Project results and outcomes will carry open-source licenses and will be disseminated within Events such as: Hackathons, Workshops and Conferences. The key action of the dissemination is to create awareness for CYBERGUARD services and products globally, establishing and promoting a market where Europe holds a prominent and influential position.

