Secure Societies 2024: Horizon Europe Cluster 3 Brokerage Event in Istanbul Pitch Presentation Template

Mihaela Curcă

Romanian National Cybersecurity Directorate

REPUBLIC OF TÜRKİYE MINISTRY OF INDUSTRY AND TECHNOLOGY

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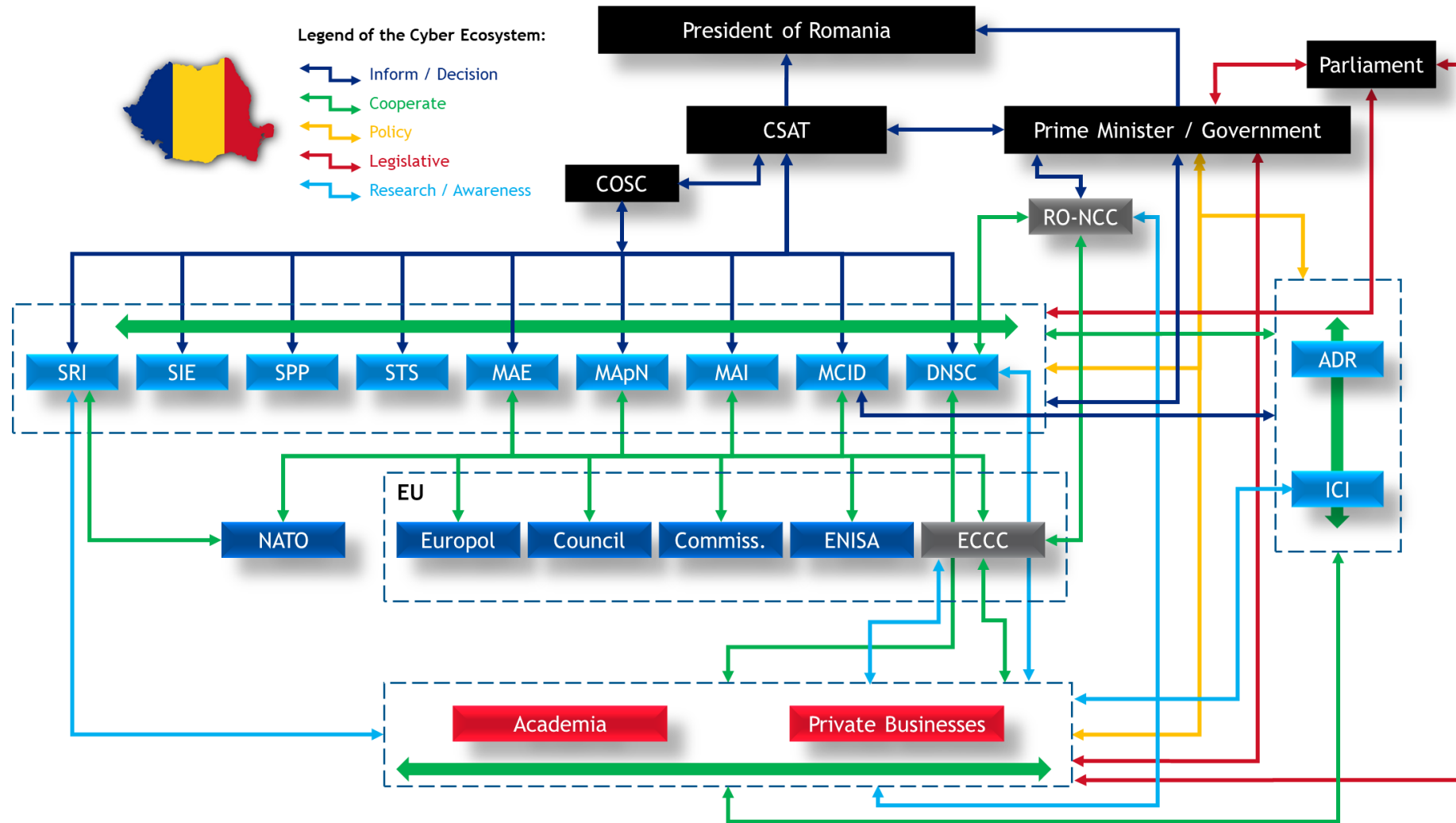
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TÜBİTAK

«ESQI – European Security Quantum Initiative»

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Proposal activity: **Post-quantum cryptography transition HORIZON-CL3-2024-CS-01-02**

Romanian cyber security ecosystem

National Cyber Security Directorate (DNSC)

- The **national-level competent authority** for national civilian cyberspace, including the management of risks and cyber incidents

- Created under the authority of the **Government**

- Under the direct coordination of the **Romanian Prime Minister**

- Target of **1250 staff members** by 2030

- **Open for business …**

DIRECTORATUL NAȚIONAL
DE SECURITATE CIBERNETICĂ

National Cyber Security Directorate (DNSC)

Projects funded by the EU's Horizon 2020 Programme

Geiger Cybersecurity Counter Project - GEIGER

The project developed a "Geiger counter" for cybersecurity, which dynamically displays the current level of risks for the company and allows the user to take simple measures to significantly reduce risk exposure - completed on 31.01.2023.

Dynamic business continuity of critical infrastructures on top of adaptive multi-level cybersecurity – DYNABIC

The project aims to strategically increase the resilience of European critical services and their business continuity capabilities following advanced cyber and physical attacks directed against them. Essential Service Operators will be better equipped to anticipate, detect, and combat disruptions caused by cyber attacks - ongoing, until 30.11.2025

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Proposal idea/content

- *Role in the project: Coordinator*

- *The project aims to **research, investigate, develop, and implement post-quantum cryptographic algorithms** to secure critical infrastructure systems, including **financial networks, energy grids, and healthcare systems**. By leveraging the expertise of the consortium members, the project will focus on **developing robust encryption protocols, testing them in real-world scenarios, and providing recommendations for secure deployment strategies and certification standards**.*

- ***Expected outcomes** of the project include the development **of tailored post-quantum encryption protocols, their testing and validation in various environments, recommendations for secure deployment strategies, and increased awareness and capacity among stakeholders**. These outcomes are expected to **lead to strengthened resilience of critical infrastructure systems against quantum-powered cyber threats, increased confidence among stakeholders in the security and reliability of infrastructure systems and facilitated adoption of post-quantum cryptographic algorithms across various sectors**, contributing to EU cybersecurity capacities and sovereignty in digital technologies.*

Project participants

Existing Consortium - profile of known partners (if any)

No	Partner Name	Type	Country	Role in the Project
01	National Cybersecurity Directorate		Romania	Coordinator
02	Giesecke+Devrient GmbH		Germany	Partner
03	BitRezus PC		Greece	Partner
04	RedAlertLabs		France	Partner
05	Polytechnic University		Romania	Partner
06	Electi Consulting		Cyprus	Partner
07	I-ENERGYLINK S.R.L.		Romania	Partner

Project participants

Consortium – required partners

No	Expertise	Type	Country	Role in the project
01	Research Institure	RTD	TBD	Partner
02	Universities and research institutions	RTD	TBD	Partner
03	Governments and government agencies		TBD	Partner