4ª Sesión Plenaria CoU SPAIN

MINISTERIO DEL INTERIOR

SECRETARÍA DE ESTADO DE SEGURIDAD

SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COMUNICACIONES PARA LA SEGURIDAD

COU ESPAÑA
SEGURIDAD

Subdirectorate General of Information and Communications Systems for Security
European R + D + i Projects Unit
Madrid, 6 de Septiembre de 2019

Rosalia Machin Prieto

R&D EUROPEAN PROJECTS
SPANISH COU COORDINATOR – MINISTRY OF INTERIOR

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CoU Spain

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Próximos Pasos

CoU SPAIN

CoU Spain - **Facilitate and coordinate the participation of all the final users of Spain** *(Forces and bodies of Security, Marine Rescue, Customs, Emergencies, Civil Protection, Defense ..) in the European Cou. Identify successful projects to disseminate them and recognize the proposals of interest according to the needs of all end users.*

SPANISH SECURITY COMMUNITY OF USERS

MINISTERIO DEL INTERIOR
SECRETARÍA DE ESTADO DE SEGURIDAD
SUBDIRECCIÓN GENERAL DE SISTEMAS DE INFORMACIÓN Y COMUNICACIONES PARA LA SEGURIDAD

CoU SPAIN
VISIÓN GLOBAL - REUNIONES

- 3 PLENNARY SESSIONS (2017-2018-2019)

- 1st Working Groups meeting (February 2019)

- Extraordinary Working Groups meetings for Horizon Europe (July 2019)

- 1st Industry and Academy Days (May 2019)

CoU SPAIN
Grupos consolidados y Creación Nuevo GT13

CoU Europe	CoU Spain
PROTECTING INFRAESTRUCTURES AND SMART CITIES	▪ 1. CRITICAL INFRASTRUCTURES ▪ 3. AUTOMOTIVE – SMART CITIES
DISASTER / RESILIENT SOCIETIES	▪ 4. CIVIL PROPOSAL AND POST-CRISIS RESTITUTION ▪ 10. INTEGRATION AND INTERCONNECTION OF SYSTEMS
FIGHT AGAINST CRIME AND TERRORISM	▪ 5. TERRORISM ▪ 6. ORGANIZED CRIME AND TRAFFICKING OF HUMAN BEINGS ▪ 7. FORENSIC TECHNIQUES ▪ 11. SPECIAL EQUIPMENTS
BORDERS / EXTERNAL SECURITY	▪ 8. CUSTOMS, COASTS, BORDERS AND ILLEGAL IMMIGRATION
DIGITAL SECURITY / CIBERSECURITY	▪ 2. CIBERSECURITY
GENERAL MATTERS	▪ 9. SECURITY AND SOCIETY ▪ 12. DRONES-ANTIDRIVES SYSTEMS ▪ 13. ARTIFICIAL INTELLIGENCE

CoU SPAIN
GRUPOS CONSOLIDADOS Y VOLUMEN PARTICIPANTES

During these months, the utility and high expectations of the need to pursue and strengthen our community construction have been demonstrated, with **more than 260 members from 25 public bodies and LEAs integrating the community**.
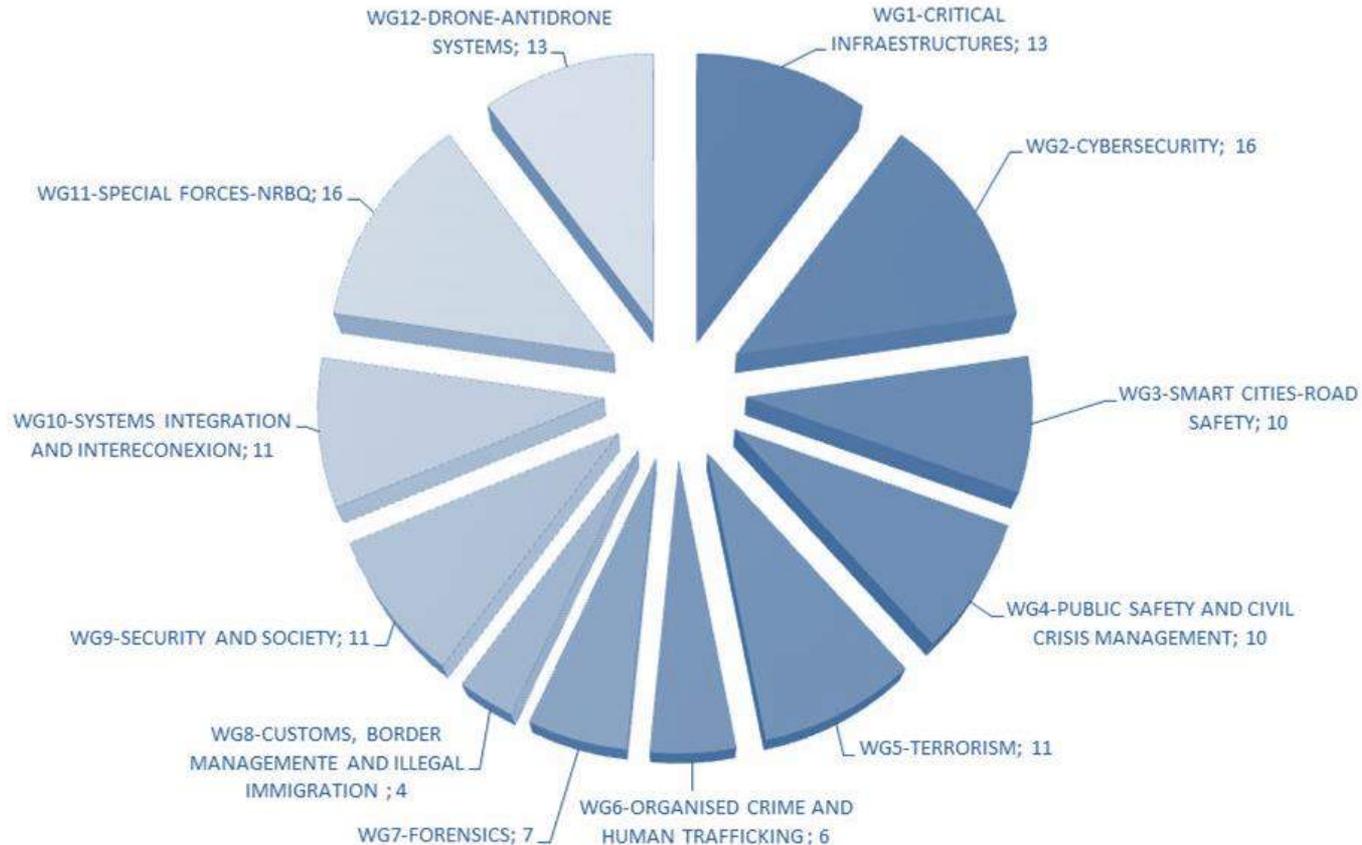
CoU SPAIN

Participating Entities

CoU SPAIN
ORGANIZATION

END USERS
National Public organisms and Law Enforcement Agencies

ACADEMY
Spanish research centers, universities and foundations network

INDUSTRY
National Security Industrial Network

END-USERS' NEEDS (2021 - 2024)

1. DISASTER-RESILIENT SOCIETIES – DRS

DRS – Disaster Resilient Societies

- ✓ CBRN-E (including pandemics and infectious diseases)
- ✓ Crisis management
- ✓ Natural hazards (including climate change-related hazards)

END-USERS' NEEDS (2021 – 2024)

1. DISASTER-RESILIENT SOCIETIES – DRS

a. **CBRN-E (chemical, biological, radiological, nuclear and explosives, including pandemics and infectious diseases)**

On-site non-invasive CBNR forensics

Portable large-scale cleaning systems for chemical, biological and radiological risks

Definition at European level of a library of detectable risk substances

Development of detection and identification systems of chemical risk including solutions for the radiological check of containers

AI detection on biological attacks
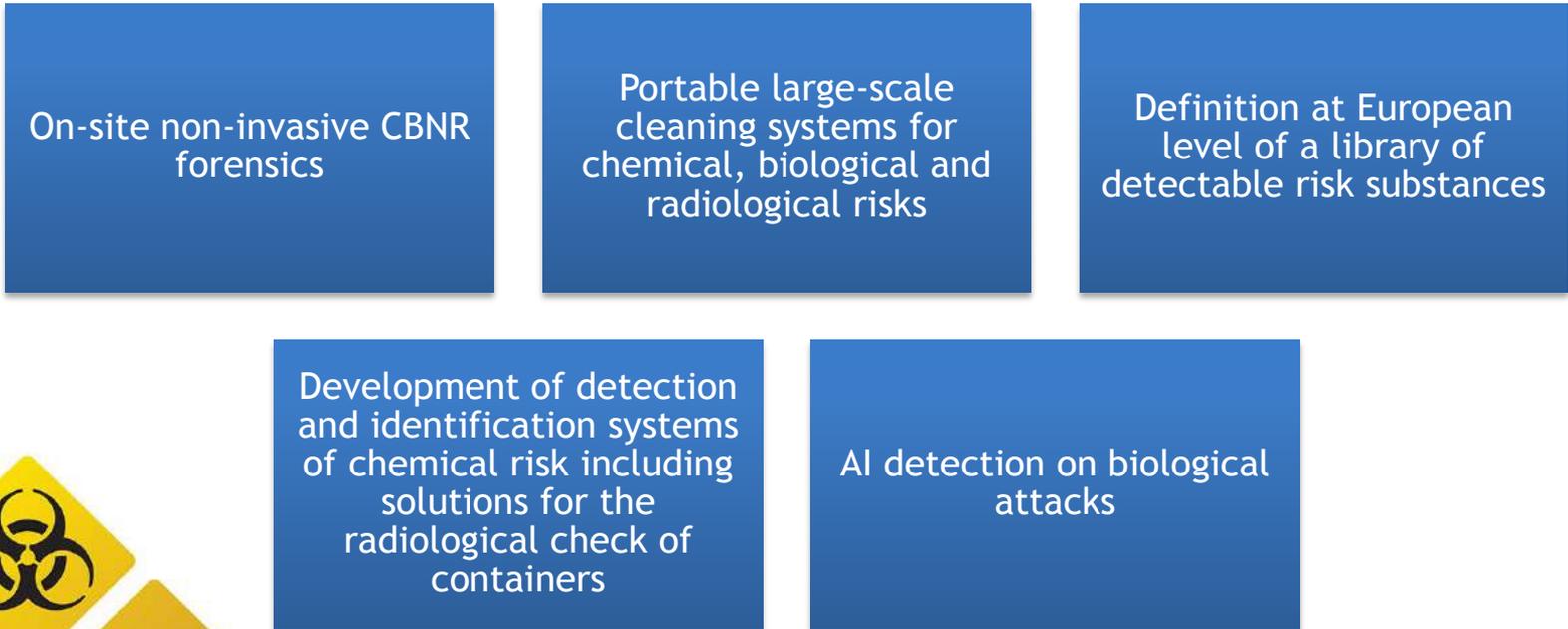
END-USERS' NEEDS (2021 – 2024)
1. DISASTER-RESILIENT SOCIETIES – DRS

b. Crisis management

Augmented reality as a tool for intervention units	Establishment of a plan for national and international coordinated action for emergency situations	Psychosocial training of the population and professionals in response to emergency situations

Anticipation in the detection of emergencies and attacks, forecast of evolution and dissemination to affected people

c. Natural hazards (including climate change)

Development of specific IPE (Individual Protection Equipment) for first responders	Use of 5G for searching people

END-USERS' NEEDS (2021 – 2024)

2. PROTECTION AND SECURITY (EITHER TECHNOLOGICAL AREAS AND/OR SOCIETAL AREAS – SECURITY AND SOCIETY)

Protection and Security

- ✓ Border management (including customs, border crossing points and EU external security)
- ✓ Protection of public spaces (including urban security)
- ✓ Security and resilience of infrastructures and vital societal functions (including CIP)
- ✓ Maritime security
- ✓ Fight against crime and terrorism

END-USERS' NEEDS (2021 – 2024)

2. PROTECTION AND SECURITY (EITHER TECHNOLOGICAL AREAS AND/OR SOCIETAL AREAS – SECURITY AND SOCIETY)

a. Border management (including customs, border crossing points, and EU external security) - BES

> Implementation of biometric technologies along with abnormal behavior detection

> Algorithms for analysis and prediction of migratory flows, main routes

b. Protection of public spaces (including urban security)

> Prevent the malicious use of drones in urban spaces

END-USERS' NEEDS (2021 – 2024)

2. PROTECTION AND SECURITY (EITHER TECHNOLOGICAL AREAS AND/OR SOCIETAL AREAS – SECURITY AND SOCIETY)

c. Security and resilience of infrastructure and vital societal functions (including critical infrastructures protection)

Improvement coordination among Critical Infrastructure Operators (Public and Private) and public organisms	Fight against Insider and Hybrid Threats	Training in action and prevention of risks to the population - Resilient societies

d. Maritime security (EU critical maritime infrastructures, illegal migration, piracy, trafficking of illegal goods, border protection and coast guard functions)

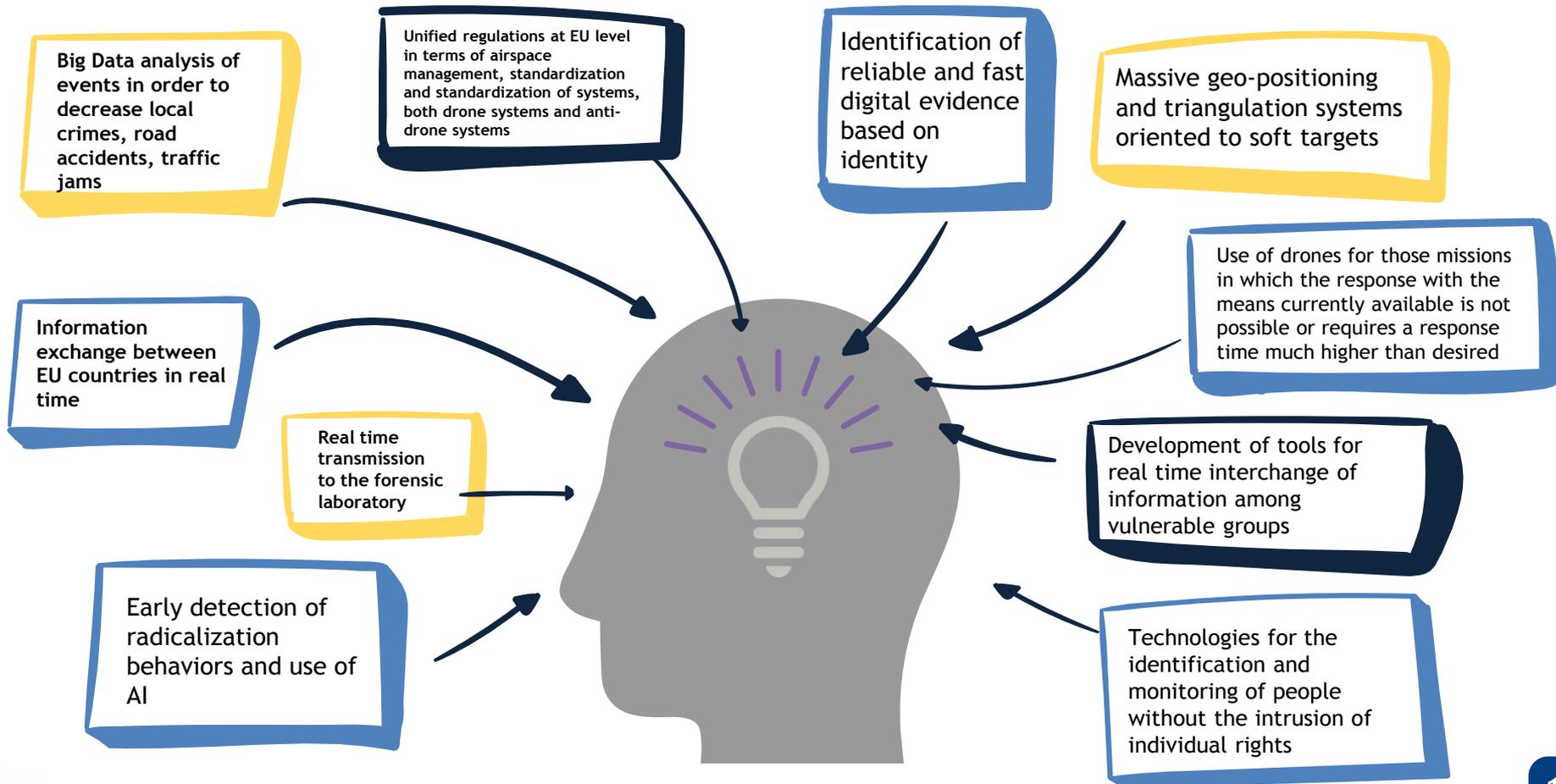|		
Access and exploitation of satellite information for maritime and coastal surveillance	Systems for economic fraud identification	Improvement of security in maritime oriented to energy supply chain

END-USERS' NEEDS (2021 – 2024)

2. PROTECTION AND SECURITY (EITHER TECHNOLOGICAL AREAS AND/OR SOCIETAL AREAS – SECURITY AND SOCIETY)

e. FCT - Fighting crime and terrorism (continuación)

Big Data analysis of events in order to decrease local crimes, road accidents, traffic jams

Unified regulations at EU level in terms of airspace management, standardization and standardization of systems, both drone systems and anti-drone systems

Identification of reliable and fast digital evidence based on identity

Massive geo-positioning and triangulation systems oriented to soft targets

Use of drones for those missions in which the response with the means currently available is not possible or requires a response time much higher than desired

Information exchange between EU countries in real time

Real time transmission to the forensic laboratory

Development of tools for real time interchange of information among vulnerable groups

Early detection of radicalization behaviors and use of AI

Technologies for the identification and monitoring of people without the intrusion of individual rights

END-USERS' NEEDS (2021 – 2024)
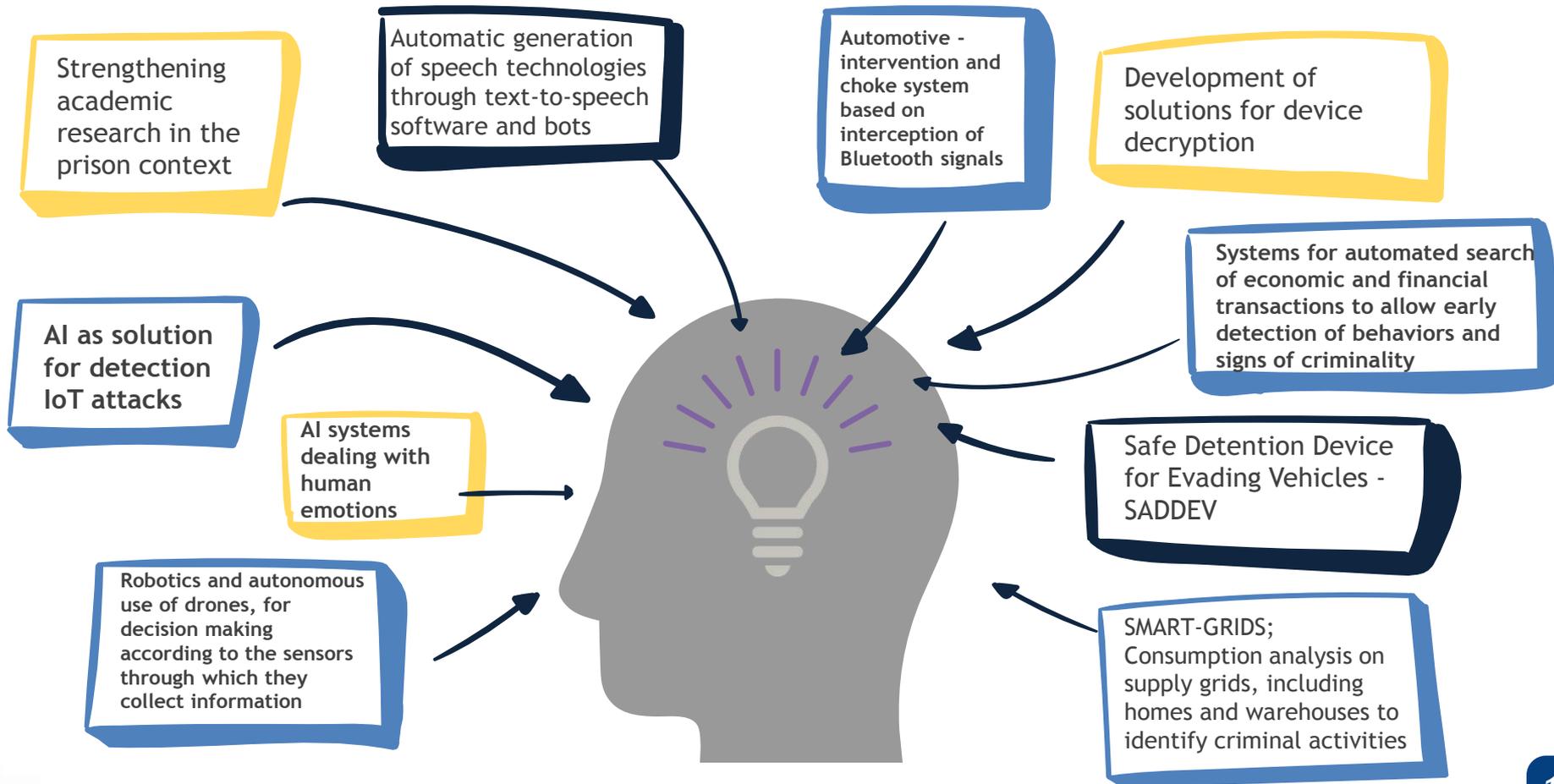## 2. PROTECTION AND SECURITY (EITHER TECHNOLOGICAL AREAS AND/OR SOCIETAL AREAS – SECURITY AND SOCIETY)

e. FCT - Fighting crime and terrorism (continuación)

Strengthening academic research in the prison context

Automatic generation of speech technologies through text-to-speech software and bots

Automotive - intervention and choke system based on interception of Bluetooth signals

Development of solutions for device decryption

AI as solution for detection IoT attacks

AI systems dealing with human emotions

Robotics and autonomous use of drones, for decision making according to the sensors through which they collect information

Systems for automated search of economic and financial transactions to allow early detection of behaviors and signs of criminality

Safe Detention Device for Evading Vehicles - SADDEV

SMART-GRIDS; Consumption analysis on supply grids, including homes and warehouses to identify criminal activities

END-USERS' NEEDS (2021 – 2024)

3. CYBERSECURITY (BOTH FOR LEAs – LAW ENFORCEMENT AGENCIES -, AS WELL AS COMPANIES, SMEs AND CITIZENS, INCLUDING CYBERSECURITY FOR CRITICAL SECTORS)

END-USERS' NEEDS (2021 - 2024)

3. CYBERSECURITY (BOTH FOR LEAS – LAW ENFORCEMENT AGENCIES -, AS WELL AS COMPANIES, SMES AND CITIZENS, INCLUDING CYBERSECURITY FOR CRITICAL SECTORS)

Standardization at European level of the standards to measure the level of maturity in Cybersecurity and Cyber resilience

Technologies for Identification and treatment of disinformation and propaganda actions, as well as analysis of the Dark Web and social networks

Technologies for early detection of the attacker and the study of his Tactics, Techniques and Procedures (TTPs)"
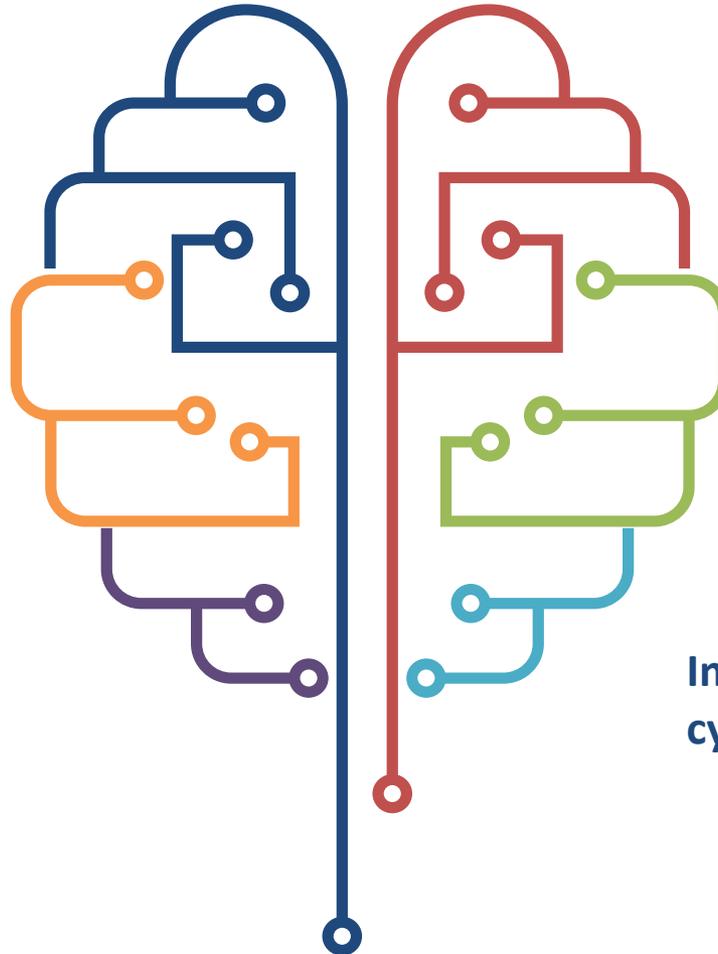
Solutions for the application of new technologies such as IA, Block chain and Data Analytics to Cybersecurity

Cryptocurrency

IA and Cybersecurity in Critical Infrastructures

Improvement of children cyber-protection

CoU Spain
Next steps

- Constitution of **the CoU as reference entity in the next framework programs of the European Commission (FP9**). Search for new solutions for real operational needs.

- Consolidate the CoU as a representative entity in Europe, and centralize the broad spectrums of each country in CoU at national level

- Continue with **the Integration of new members of the Public Administration: Roadmap of the national panorama**

CoU Spain
Next steps

- **Contact with Universities and technological development centers** in search of future collaborations

- **Finish the inclusion of national companies** related to technological innovation in Security. Promote international partnerships

- Inclusive sessions to bring the final users of the security field closer to collaborate on block proposals with industry and academia

CoU SPAIN

BIGGER BENEFIT

BEST COLLABORATION

BEST COMUNICATION

Muchas gracias

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