

# NATIONAL INFORMATION CAMPAIGN JOIN HORIZON EUROPE



Pillar 2:

Global Challenges & European Industrial Competitiveness

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# Civil Security for Society

## Cluster 3

### Introduction to WP 2021 - 2022

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# Civil Security for Society



## Pillar 1

Excellent Science

European Research Council

Marie Skłodowska-Curie  
Actions

Research Infrastructures



## Pillar 2

Global Challenges and  
European Industrial  
Competitiveness

Clusters

- Health
- Culture, Creativity and Inclusive Society
- **Civil Security for Society**
- Digital, Industry and Space
- Climate, Energy and Mobility
- Food, Bioeconomy, Natural Resources, Agriculture and Environment

Joint Research Centre



## Pillar 3

Innovative Europe

European Innovation Council

European innovation  
ecosystems

European Institute of  
Innovation  
and Technology

## Widening Participation and Strengthening the European Research Area

Widening participation and spreading excellence

Reforming and Enhancing the European R&I system

# Main characteristics

- **Support to EU policy priorities**
- **Focus to meet capability requirements – capability-based research**
- **Ensuring ethical outcomes that are supported by society – social sciences and humanities dimension of technologies**
  
- **Continuity from past + respond to new requirements → new technology**
- **Participation of end-users/practitioners, society organizations**
- **Facilitation of an uptake and deployment of solutions**
- **New focus on supply chain security and autonomy in key areas including digital**
- **Longer-term scenarios + reaction on short-terms needs**
- **HE Missions, partnerships : not yet**

# Policy background

## Support to EC policy priorities:

- Promoting the European way of life,
- European Green Deal and
- Europe fit for the Digital Age

## Implementation of :

**Security Union Strategy (2020-2025)** – 4 strategic priorities; mapping concrete actions, tools, measures for EU citizens security; 12/2020 1<sup>st</sup> progress report

## Key areas for actions in internal security:

- organised crime,
- terrorism and the prevention of violent radicalisation,
- resilience of EU critical infrastructures and public spaces,
- cybercrime, including fighting child sexual abuse,
- law enforcement cooperation and information exchange,
- **research and innovation**

# Policy background

Cluster 3 supports the Implementation of :

- **the Counter-Terrorism Agenda**
- **the New Pact on Migration and Asylum**
- **EU Disaster Risk Reduction policies**, Sendai Framework for Disaster Risk Reduction
- **EU Climate Adaptation Strategy**
- **the EU Maritime Security Strategy – Civil Military Research Agenda for Maritime security**
- **the EU Cybersecurity Strategy**

# Synergies with other programmes

## R&I could be followed by final development and market uptake

- **Internal security fund (ISF) – LEA capabilities**
- **Integrated Border Management Fund (IBMP)**
  - Boarder Management and visa Instrument
  - Customs Control Equipment Instrument
- **Digital Europe programme – Cyber security and LEAs digital capabilities; the take-up R&I projects – AI, HPC and CS; and research infrastructure**
- **European Regional Development Fund (ERDF) and Cohesion Fund - prevention disaster risks , adaptation to climate change, protection of public spaces and utilities, CS and interregional cooperation**
- **Union Civil Protection Mechanism (UCPM) – via Prevention&Preparednes projects ; rescEU – reserve capacities**

# Work programme

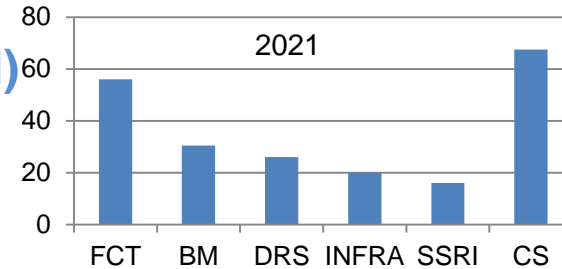
- **Two years programme**
- **General introduction - contribution to impact HE Strategic Plan**
  - “A resilient EU prepared for emerging threats”
  - “Creating a more resilient, inclusive and democratic European society”
  - “Promoting an open strategic autonomy by leading the development of key digital and enabling technologies, sectors and value chains”.
- **6 destinations – one call every year – 1 deadline (8th September ?)**
- **One step evaluation , security scrutiny procedure**
- **Specific international cooperation**  
(EU security interest x need of collaboration)
- **Exclusive focus to civilian applications**
- **New terminology like „police authorities“ „second responders“**
- **Specific eligibility conditions (LEA, police authorities, citizen communities, first/second responders, social sciences ....)**



# Structure of the WP 2021-2022

## 6 destinations

- Better protect the EU and its citizens against Crime and Terrorism (FCT)
- Effective management of EU external borders (BM)
- A Disaster-Resilient Society for Europe (DRS)
- Resilient Infrastructure (INFRA)
- Increased Cybersecurity (CS)
- Strengthened Security Research and Innovation (SSRI)



Impact of the destination + related policies objectives + cooperation

Proposal – credible pathway to contributing to specific expected impacts



# Better protect the EU and its citizens against Crime and Terrorism (FCT)

## **Main challenges**

- **Contribution to the implementation of relevant politics**
- **To improve prevention, investigation and mitigation of impacts crime**
- **To transfer new knowledge and technologies to users**

## **Main impacts**

- **To deliver modern information analysis for police**
- **Improved forensic and lawful evidence collections**
- **Enhanced prevention and detection of societal issues related to crime**
- **Improved security of citizens – public spaces and cyberspace**
- **Improved cooperation of networks**

# Call: Fighting against Crime and Terrorism (FCT)

- **FCT01 - Modern information analysis for Law Enforcement (4 topics)**
- **FCT02 - Improved forensics and lawful evidence collection (1 topic, IA)**
- **FCT03 - Enhanced prevention, detection and deterrence of societal issues related to various forms of crime (1topic, IA)**
- **FCT04 - Increased security of citizens against terrorism, including in public spaces (1topic, IA)**
- **FCT05 - Organised crime prevented and combated (3 topics, IA, RIA)**
- **FCT06 - Citizens are protected against cybercrime (2 topics, RIA)**

# Effective management of EU external borders (BM)

## Main challenges

- **Contribution to relevant politics**, implementation of the European Border Surveillance System, EU Maritime Security Action Plan, ....
- **To develop knowledge and technologies that may be taken up by other instruments** (Internal Border Management Fund)

## Main impacts

- **Improved security of land, air and sea external borders** (accidents, natural disasters, illegal trafficking, piracy, terrorist attacks, cyber and hybrid threats...)
- **Improved boarder crossing for travellers**
- **Improved customs and supply chain security**



# Call: Border management (BM)

- **BM01 - Efficient border surveillance and maritime security**  
(1 topic, IA - TRL 7-8)
- **BM02 - Secured and facilitated crossing of external borders**  
(2 topics, 1 CSA, IA-2 projects)
- **BM03 - Better customs and supply chain security**  
(2 topics, RIA – TRL 4-6, IA – TRL 8)



# A Disaster-Resilient Society for Europe (DRS)

## Main challenges

- **Support to politics for risks reduction (Sendai framework for disaster risks reduction, Climate Adaptation Strategy, Counter-Terrorism Agenda .....**)
- **Understanding and exploiting of linking and synergies among policy initiatives**
- **Transdisciplinary and transboundary approach and **shift managing „disasters“ to managing „risks“****

## Main impacts

- **Enhanced understanding and improved knowledge of disaster risks by citizens**
- **Efficient cross- “sectorial, disciplines, boarder“ coordination of disaster risks management cycle**
- **Sharing knowledge and coordination regarding standardization in the area of crisis management and CBRN-E**
- **Strengthened capacities of first responders**

# Call: Disaster- Resilient Society (DRS)

- **DRS01 - Societal Resilience: Increased risk Awareness and preparedness of citizens (1 topic, RIA, SSH, 1 project)**
- **DRS02 - Improvement Disaster Risks Management and Governance (4 topics, RIA, IA, CSA, SSH, 1 project/topic)**
- **DRS03 - Strengthened capacities of first and second responders (1 topic, IA, TRL6-8, mobile labs for pandemic, Japan coop.)**

**CoU: Community of Users for Secure, Safe and Resilient Society**

**Future (CERIS) : Community of European Research and Innovation for Security**



# Resilient Infrastructure (INFRA )

## Main challenges

- **Reliable, robust and resilient operation of infrastructures**

## Main Impacts

- **Ensured resilience of large-scale interconnected systems infrastructures in case of complex attacks, pandemic or natural and man\*made disasters**
- **Rapid, effective, safe and secure response and without substantial human intervention to complex threats**
- **Complex protection systems for resilient and secure smart cities**





# Call: Resilient Infrastructure (INFRA)

- **INFRA01 - Improved preparedness and response for large-scale disruptions of European infrastructures**
  - 2 topics, IA , TRL 6-7; 1 project/topic :
  - EU infrastructures and their autonomy safeguarded against systemic risks
  - Ensured infrastructure resilience in the case of pandemics
  
- (INFRA02 - Resilient and secure smart cities (2022))



# Increased Cybersecurity (CS)

## Main challenges

- **To ensure that EU retains and develops the essential capacities to secure its digital economy, society and democracy, to protect critical HW and SW and to provide key cybersecurity services**

## Main impacts

- **Strong EU cybersecurity capacities,**
- **resilient digital infrastructures, systems and processes;**
- **secured disruptive technologies (AI, HPC, ....)**
- **smart and quantifiable security assurance and certification,**
- **reinforced cybersecurity management and culture.**



# Call: Increased Cybersecurity (CS)

- **CS01 - Secure and resilient digital infrastructures and interconnected systems**
  - \* Dynamic business continuity and recovery methodologies based on models and prediction for multi-level Cybersecurity: RIA, TRL4, 21,5M€, 5 projects
- **CS02 - Hardware, software and supply chain security**
  - \* Improved cybersecurity in open-specification hardware for connected devices: RIA, TRL4, 18 M€, 4 projects
- **CS03 - Cybersecurity and disruptive technologies**
  - \* AI for cybersecurity reinforcement : RIA, TRL4, 11M€, 3 projects
- **CS04 - Smart and quantifiable security assurance and certification shared across Europe (2022)**
- **CS05 - Human-centric security, privacy and ethics**
  - \* Scalable privacy-preserving technologies for cross-border federated computation in Europe involving personal data: RIA, TRL4, 17M€, 4 projects



# Strengthened Security Research and Innovation (SSRI)

## Main challenges

- **To serve equally to all the expected impacts of Cluster3**
- **To ensure focus on the potential final use of the research outcomes and its socially acceptance**
- **To contribute to planning EU security capabilities and autonomy and technological sovereignty in critical security areas**

## Main impacts

- **Security capabilities built on systematic and analysis-intensive security research and innovation cycle**
- **Increased commercialisation, adoption and deployment of outcomes**

# Call: Support to Security Research and Innovation (SSRI)

- **SSRI01 - Stronger pillars of security Research and Innovation (8M€)**
  - \* A maturity assessment framework for security technologies (RIA)
  - \* Knowledge Networks for Security Research & Innovation (CSA) (Boarder security; Critical Infrastructure protection)
  - \* NCP network
- **SSRI02 - Increased Innovation uptake (6M€)**
  - \* Demand-led innovation for situation awareness in civil protection (PCP)
- **SSRI03 - Cross-cutting knowledge and value for common security solutions**
  - \* Societal Impact assessment and impact creation transdisciplinary methods for security research technologies driven by active civil society engagement (RIA, (2M€), SSH,

## **International Information day – on-line in April**

- **Organised by SEREN4 project  
speakers from DG HOME, DG CNECT, REA + on-line networking**
- **SMI2G 2021 (Security Mission Information & Innovation Group)  
online – brokerage**



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