

The European Commission's science and knowledge service

Joint Research Centre

The JRC's work on standardization for critical infrastructure protection

George M. Karagiannis
Alessandro Lazari

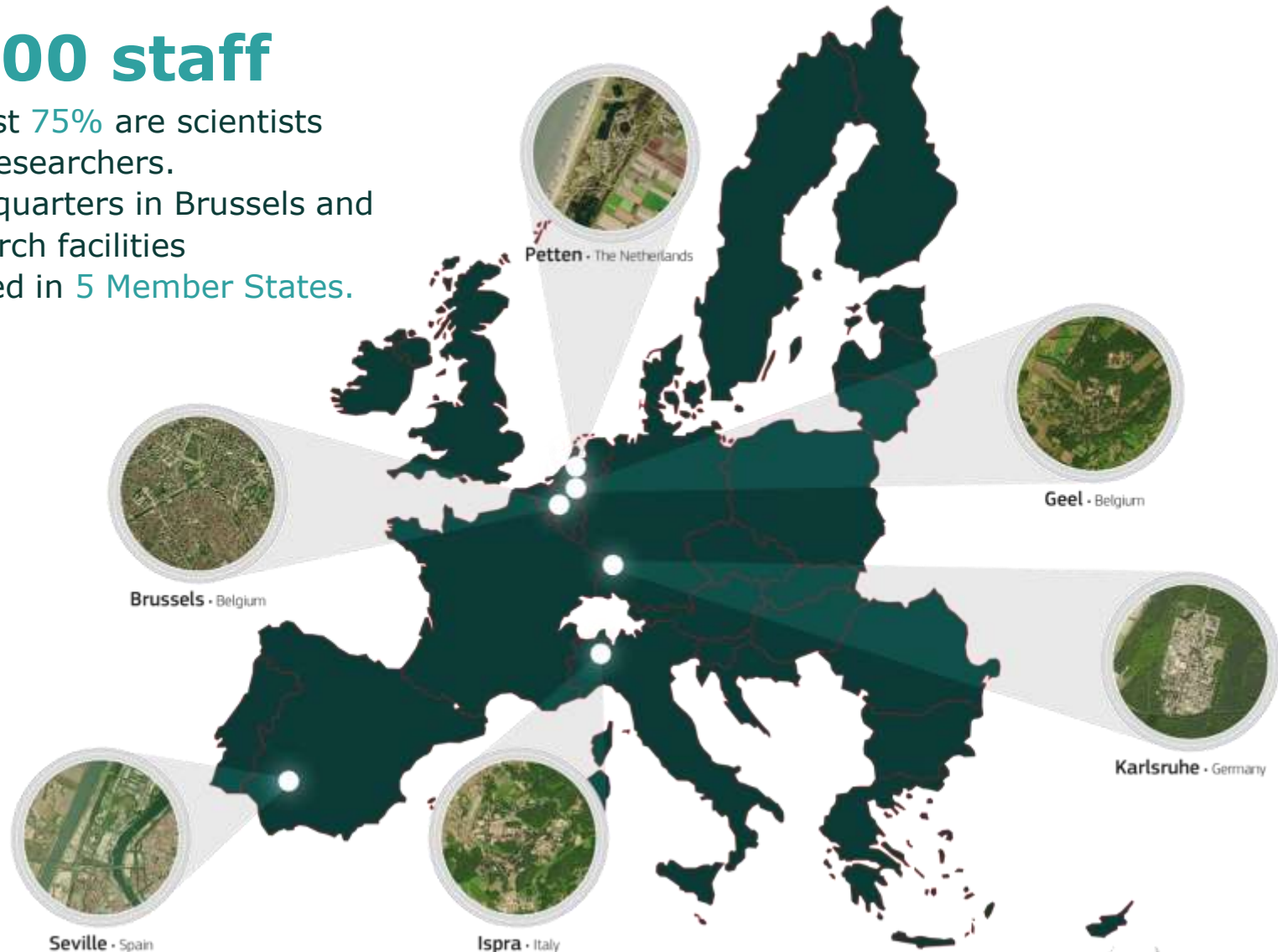


The Joint Research Centre at a glance

3000 staff

Almost 75% are scientists and researchers.

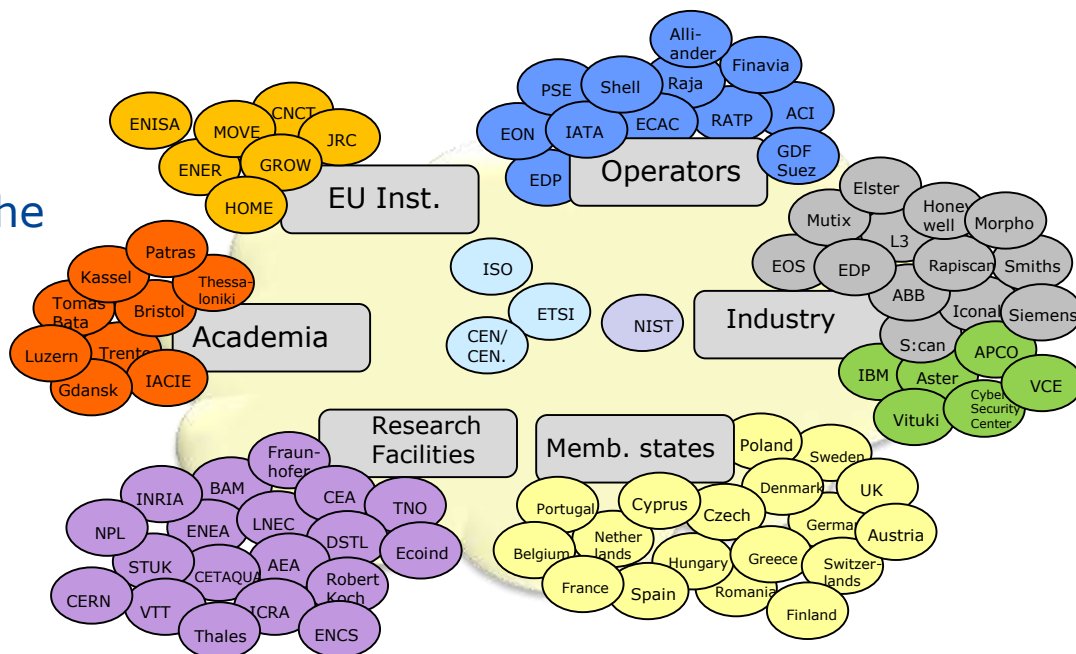
Headquarters in Brussels and research facilities located in 5 Member States.



What is ERNCIP?

A JRC-facilitated **network** of security-related **experts** volunteering to address

issues of **pre-standardization** at **EU-level** towards fostering the development of **innovative and competitive security solutions**



<https://erncip-project.jrc.ec.europa.eu/>

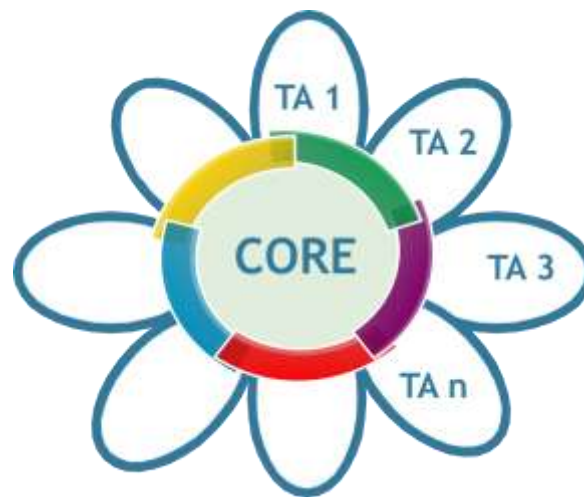
Support to EU policy

The work of ERNCIP directly supports EU policy:

- Project created within the **European Program for Critical Infrastructure Protection** (EPCIP) aimed at improving the protection of critical infrastructure in Europe;
- **Action Plan to enhance preparedness against CBRN security risks** (COM(2017) 610 final) = "Encourage harmonisation through standardisation and certification for CBRN security products and systems: Continue pre-normative research activities within the framework of ERNCIP";
- Supporting research on explosives detection (**Communication on the EU security agenda**, April 2016).

Strategic objectives and support to policy DGs

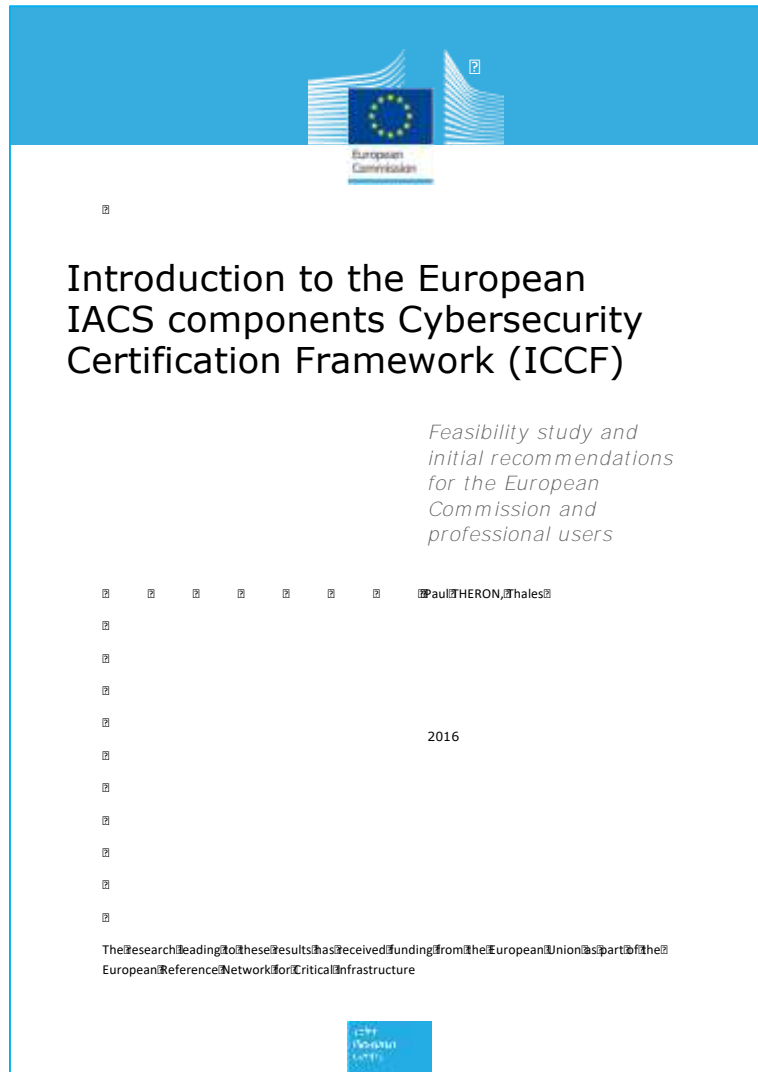
- Improve the protection of critical infrastructure in the EU (EPCIP).
- Facilitate the development of a single EU market for security products.



ERNCIP Thematic Groups

 <p>TG Chemical and Biological (CB) Risks to Drinking Water</p> <p>Chemical and Biological (CB) Risks to Drinking Water</p>	 <p>TG Detection of Explosives & Weapons at Secure Locations</p> <p>Detection of Explosives & Weapons at Secure Locations</p>	 <p>TG Detection of Indoor Airborne Chemical/Biological Agents</p> <p>Detection of Indoor Airborne Chemical-Biological Agents</p>
 <p>TG EARLY WARNING ZONES New</p> <p>Early Warning Zones</p>	 <p>TG IACS Cybersecurity Certification Framework</p> <p>European IACS components Cybersec Cert. Framework</p>	 <p>TG Radiological and Nuclear Threats to CI</p> <p>Radiological and Nuclear Threats to Critical Infrastructure</p>
 <p>TG Resistance of Structures to Explosion Effects</p> <p>Resistance of Structures to Explosion Effects</p>	 <p>TG Applied Biometrics for the security of Critical Infrastructure End</p> <p>Applied Biometrics for the security of Critical Infrastructure</p>	 <p>TG Aviation Security Detection Equipment End</p> <p>Aviation Security Detection Equipment</p>
 <p>TG Explosives Detection Equipment (non-Aviation) End</p> <p>Explosives Detection Equipment (non-Aviation)</p>	 <p>TG Industrial Automated Control Systems and Smart Grids End</p> <p>Industrial Automated Control Systems and Smart Grids</p>	 <p>TG Video Surveillance for Security of Critical Infrastructure End</p> <p>Video Surveillance for Security of Critical Infrastructure</p>

IACS (Industrial Automation & Control Systems) Compliance & Certification Framework - ICCF



IACS Compliance & Certification Framework

ICCS-A

- Accredited Third-party Full Certification
- Certification required for most critical environments

ICCS-B

- Accredited Third-party Product Certification
- Certification required for critical infrastructures

ICCS-C2

- Compliance Assessment by accredited third-party
- Enhanced C&C for common, non critical products

ICCS-C1

- Vendor's Self-declaration of Compliance
- Easy access C&C for common, non critical products

Early Warning Zones for CIP

Biometric/video technologies are becoming increasingly important for critical infrastructure protection

Millions of people are on the move...
But most Access Controls were designed for a different world

Can technology help to identify and warn of suspicious/unusual incidents?



ERNICIP proposes to assess the use of biometric/video technologies which now provide the possibility to perform risk mitigation at a distance, enabling more effective human intervention.



Stay in touch



EU Science Hub: ***ec.europa.eu/jrc***



Twitter: ***@EU_ScienceHub***



Facebook: ***EU Science Hub - Joint Research Centre***



LinkedIn: ***Joint Research Centre***



YouTube: ***EU Science Hub***

Thank you for your attention!

