

The European Commission's science and knowledge service

Joint Research Centre

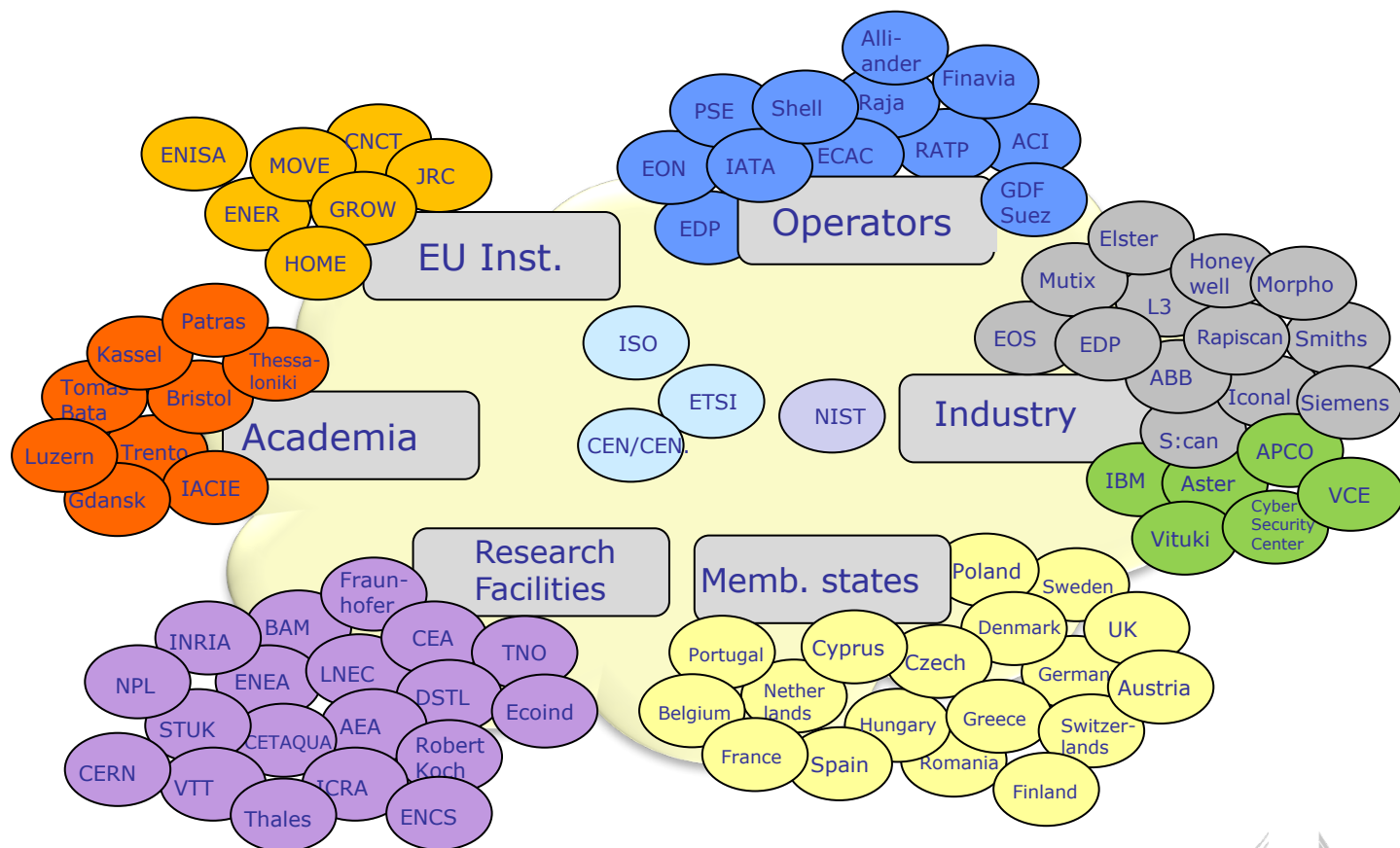
**European Reference Network
for critical infrastructure
protection (ERNCIP)**



European
Commission

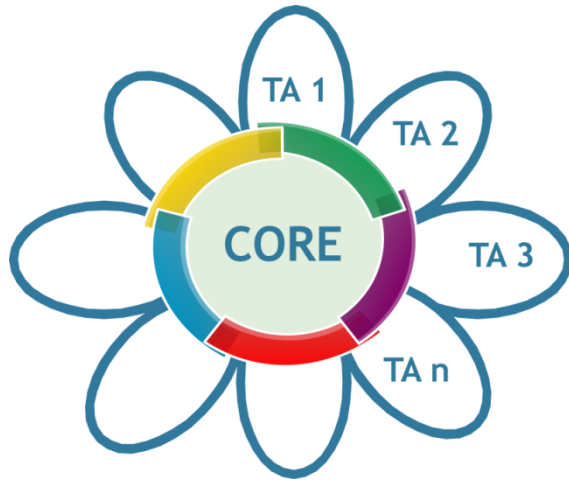
What is ERNCIP?

A Joint Research Centre-facilitated network of security related experts volunteering to address issues of pre-standardisation at EU-level towards fostering the development of innovative and competitive security solutions



ERNCIP core activities

I. Facilitate Thematic Groups



450+ experts from 200+ organisations in 18 Member States have participated in ERNCIP

II. *Develop and Operate the ERNCIP Inventory*



132 experimental facilities from 21 Member States are registered in the ERNCIP Inventory

ERNCIP Thematic Groups 2017



Chemical and Biological
(CB) Risks to Drinking
Water



Detection of Explosives
& Weapons at Secure
Locations



Detection of Indoor
Airborne Chemical-
Biological Agents



Radiological and Nuclear
Threats to Critical
Infrastructure



Resistance of Structures
to Explosion Effects



European IACS
Components, Cyber-
Security Compliance and
Certification Scheme



Extended Virtual Fencing

Thematic Groups

Detection of CBRNE agents:

- Chemical/Biological(CB) Risks to Drinking Water
- Radiological/Nuclear threats to critical infrastructure
- Detection of Indoor Airborne CB agents
- Detection of explosives and weapons at secure locations

Improvement of Protective Security:

- Protection of structures and soft targets
- Extended Virtual Fencing – application of video and biometric technologies

Improvement of Cybersecurity

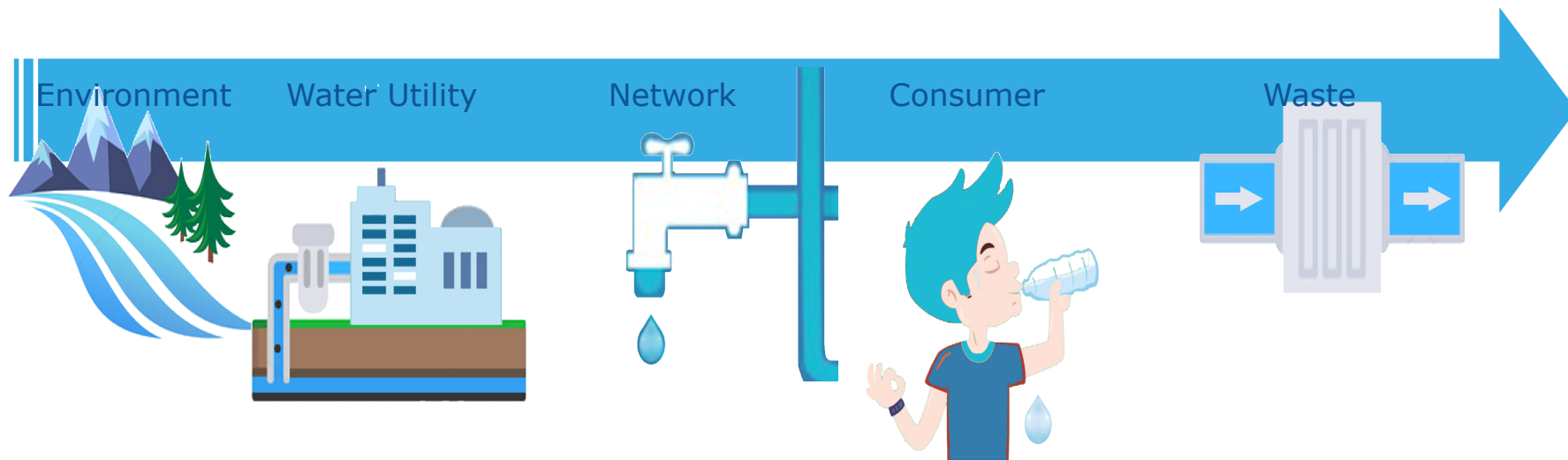
- IACS components Cybersecurity Certification Framework

Chemical and Biological Risks to Drinking Water

A response to deliberate chemical and/or biological contamination of drinking water.



- Real-time water quality monitoring systems;
- Proposal: Guidance on Water Security Plan for water utility operators to complement their Water Safety Plans.



ERNCIP/Global Initiative to combat nuclear terrorism – joint workshop

Ispra March 2017



ERNCIP/Global Initiative to combat nuclear terrorism – joint workshop

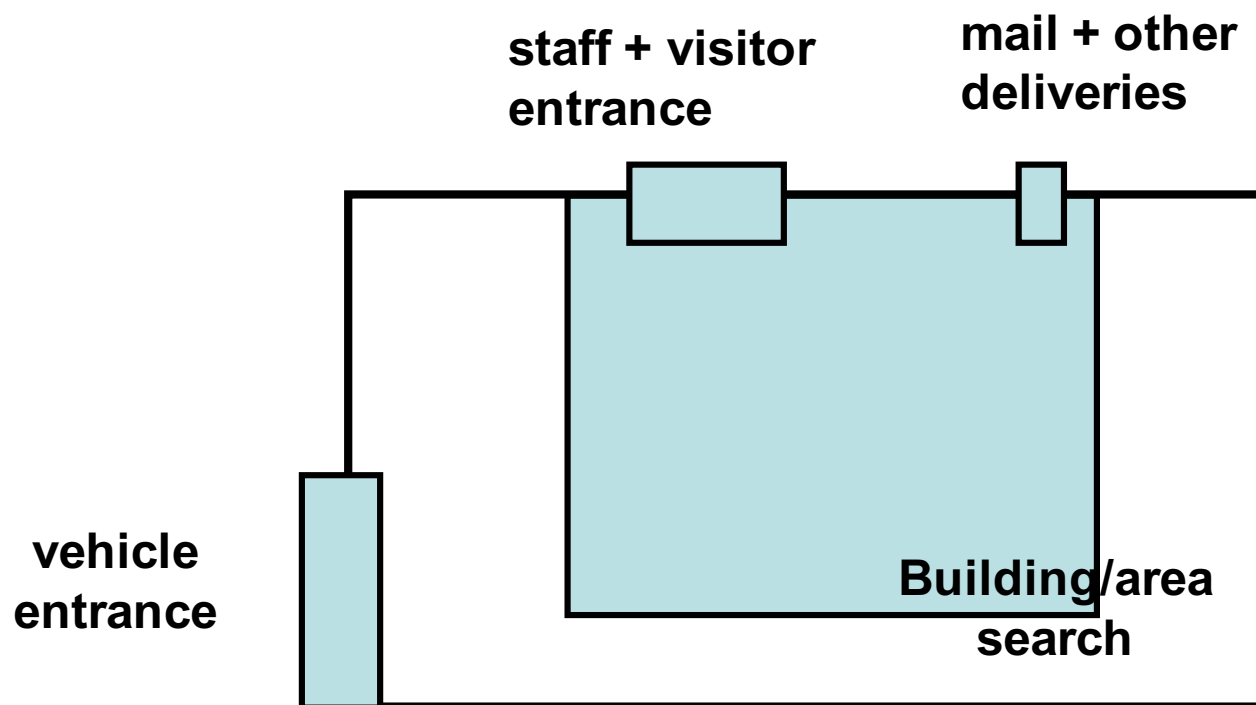
Ispra March 2017

70 experts from the nuclear security field discussed the roles and responsibilities, challenges, and opportunities of technical expert support within Nuclear Security Detection Architectures, in the event of a serious radiation event.

Detection of Explosives and Weapons in Secure Locations thematic group



Completed: Search and screening processes to mitigate threats at all types of location with a **secure perimeter**



Extended Virtual Fencing thematic group

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

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



ERNCIP 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.

Millions of people are on the move...

But
Most Access Controls were designed for a different world



Thank you for your attention

To stay in touch:

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