



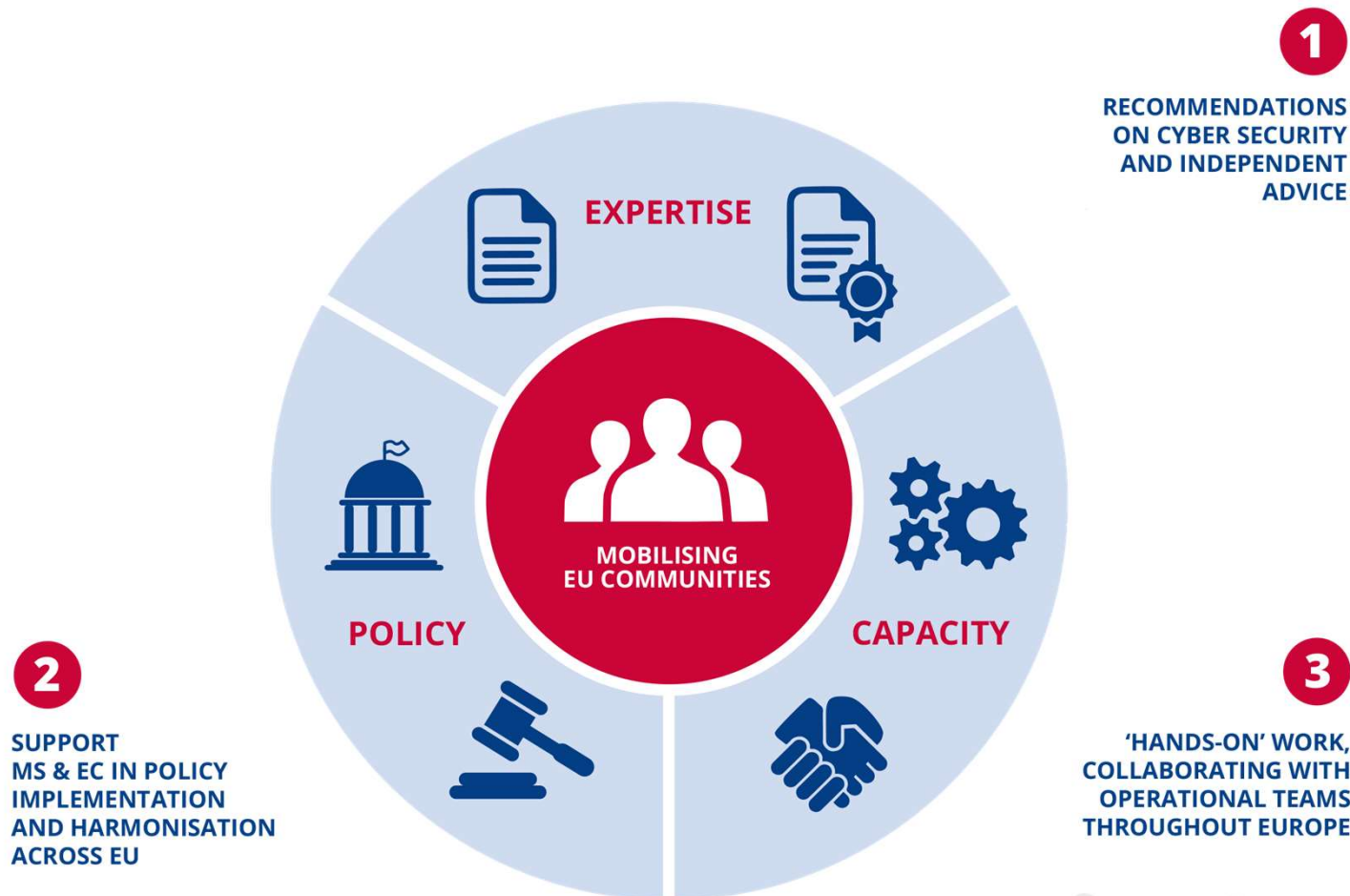
# Enhancing the protection of European Critical Information Infrastructures - ENISA work

Dr. Evangelos Ouzounis | HoU Secure Infrastructures and Services, ENISA  
NSA/ENISA Workshop | Bratislava | 30<sup>th</sup> November 2018

European Union Agency for Network and Information Security



# Positioning ENISA activities

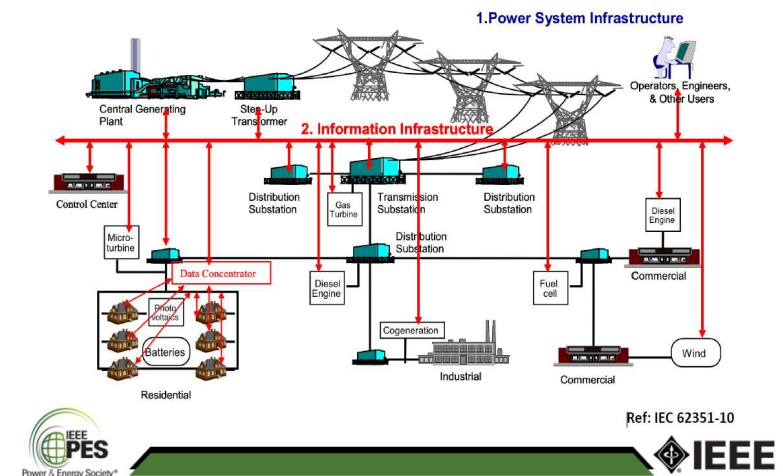


# Threat Landscape (1)



- Complex networks and services
- Significant physical disasters
- Low quality of software and hardware
- Interdependencies on ICT and other sectors
- New emerging technologies
  - Smart grid and Renewables
  - (I)IoT
  - Smart Cars,
  - 5G

## Complexity of Power Systems



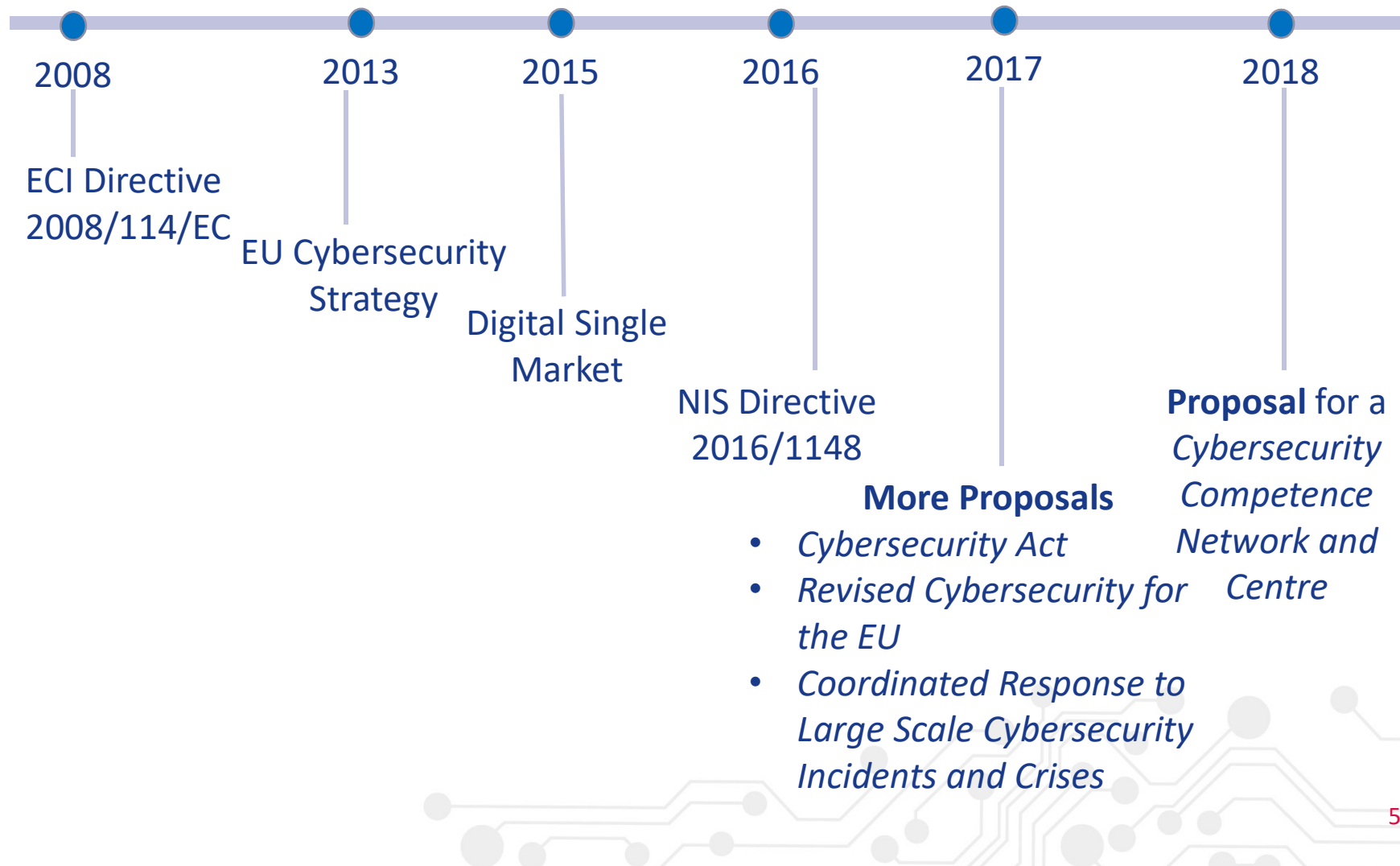
# Threat Landscape (2)



- Asymmetric threats allowing remote attacks to CII
- Increasing organized cybercrime and industrial espionage
- Regulatory Inconsistencies
- Cyber Security Maturity and skills sets
- Lack of international agreements and standards
- Lack of well functioning, international incident handling/crisis management mechanism

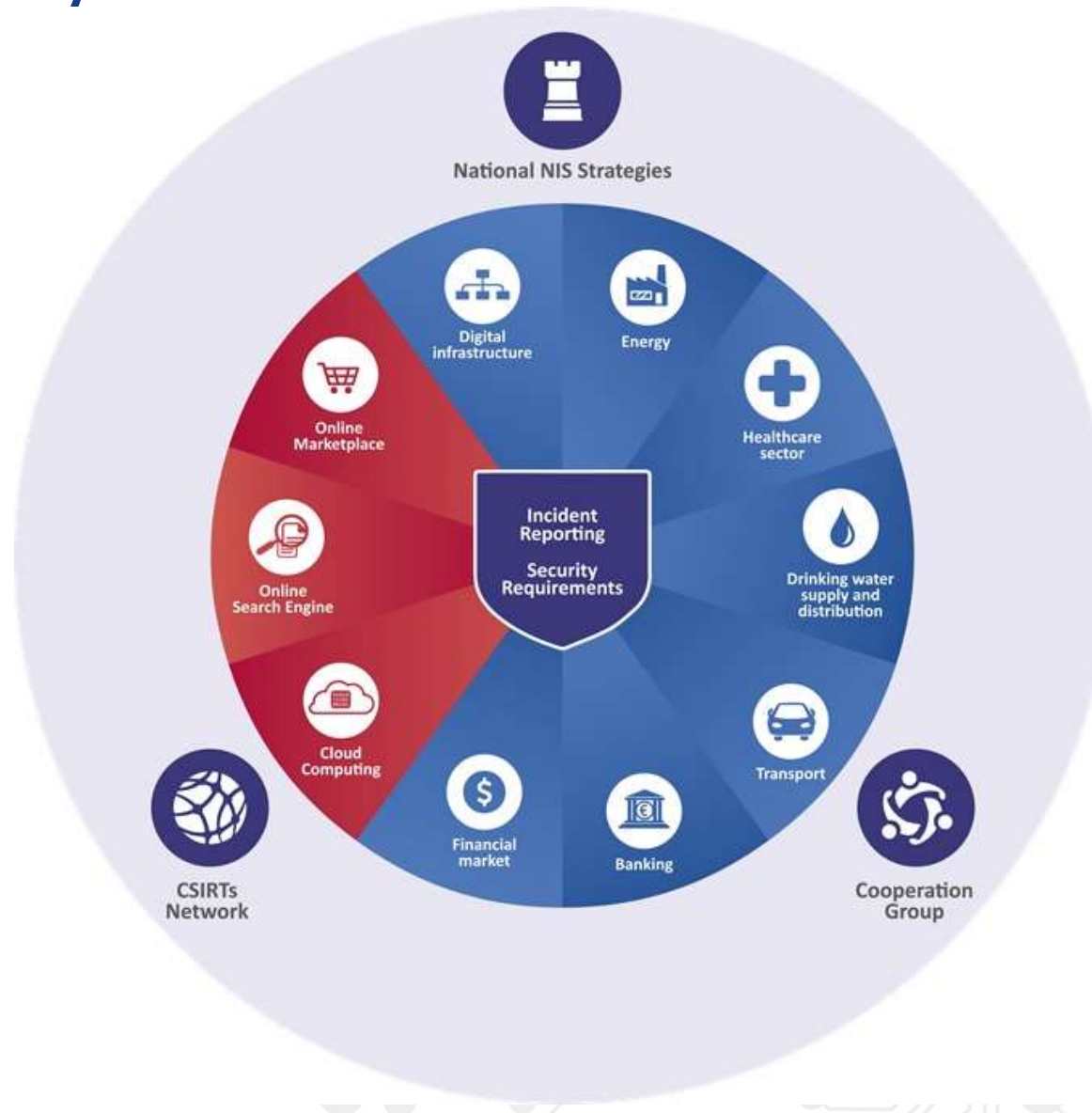


# EU Policy Context





# The Network and Information Security Directive

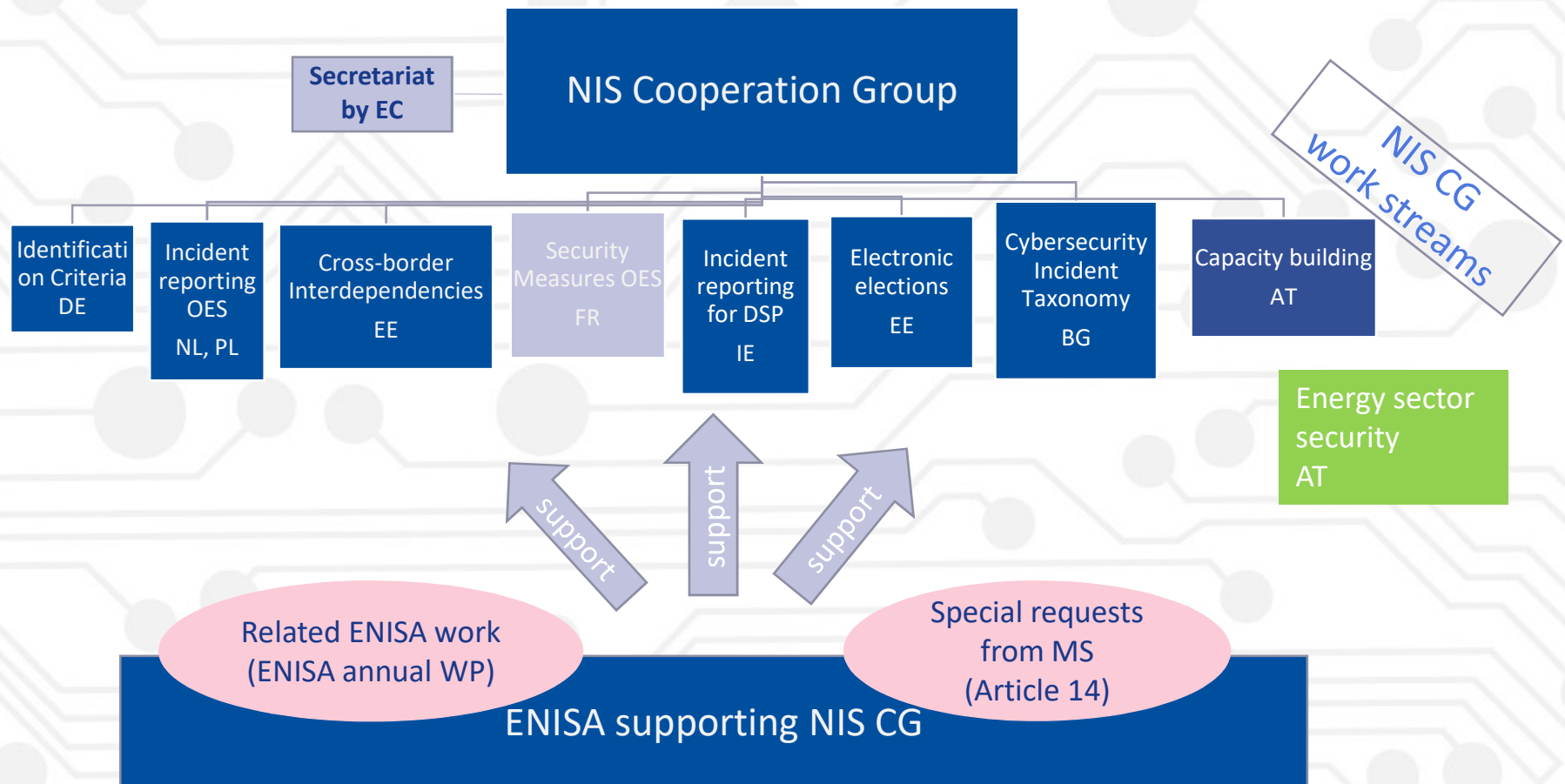


# NIS directive - TIMELINE



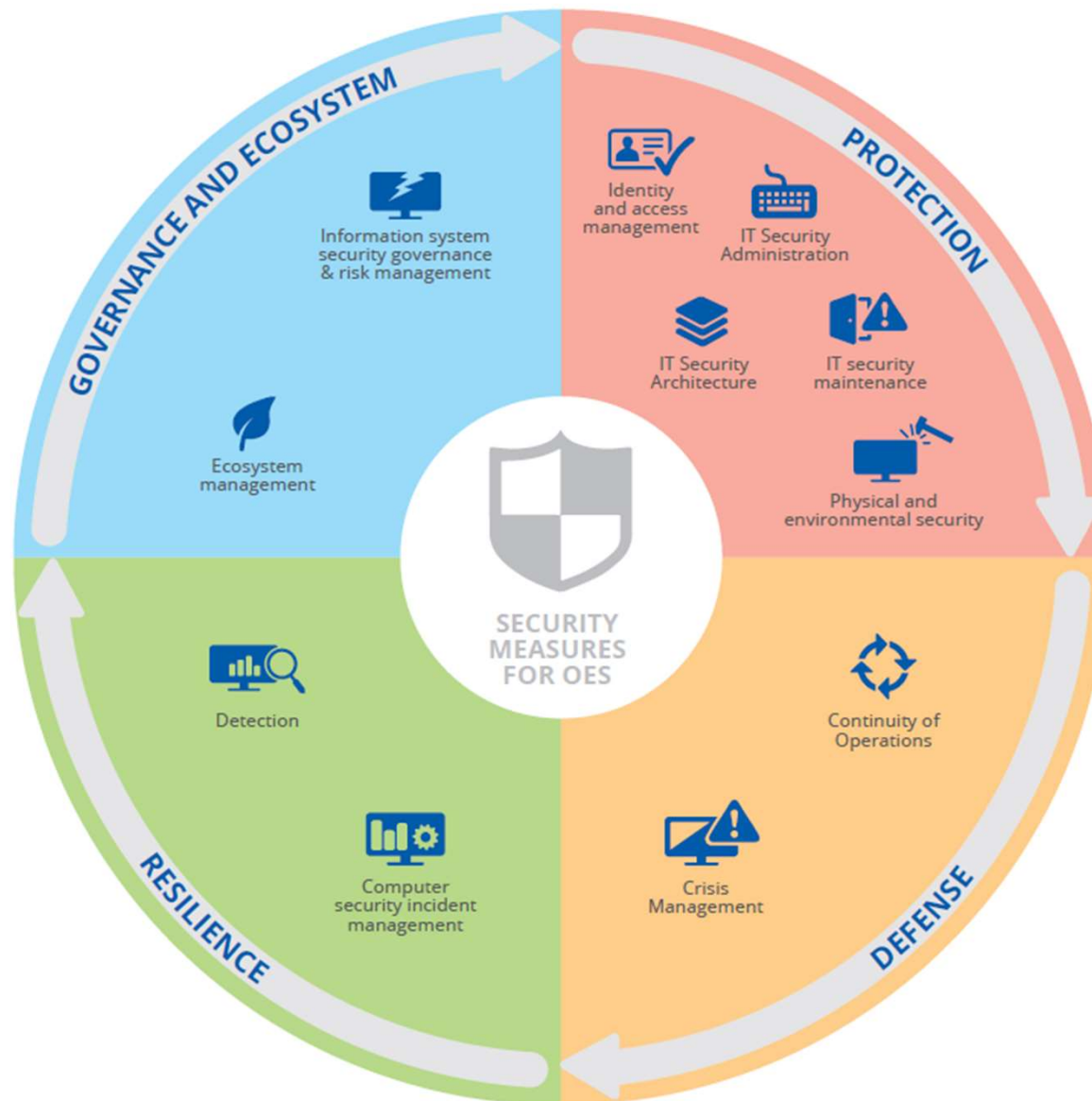
August 2016	-	Entry into force
February 2017	6 months	Cooperation Group starts its tasks
August 2017	12 months	Adoption of implementing on security and notification requirements for DSPs
February 2018	18 months	Cooperation Group establishes work programme
9 May 2018	21 months	Transposition into national law
November 2018	27 months	Member States to identify operators of essential services
May 2019	33 months (i.e. 1 year after transposition)	Commission report - consistency of Member States' identification of OES
May 2021	57 months (i.e. 3 years after transposition)	Commission review

# NIS Cooperation Group

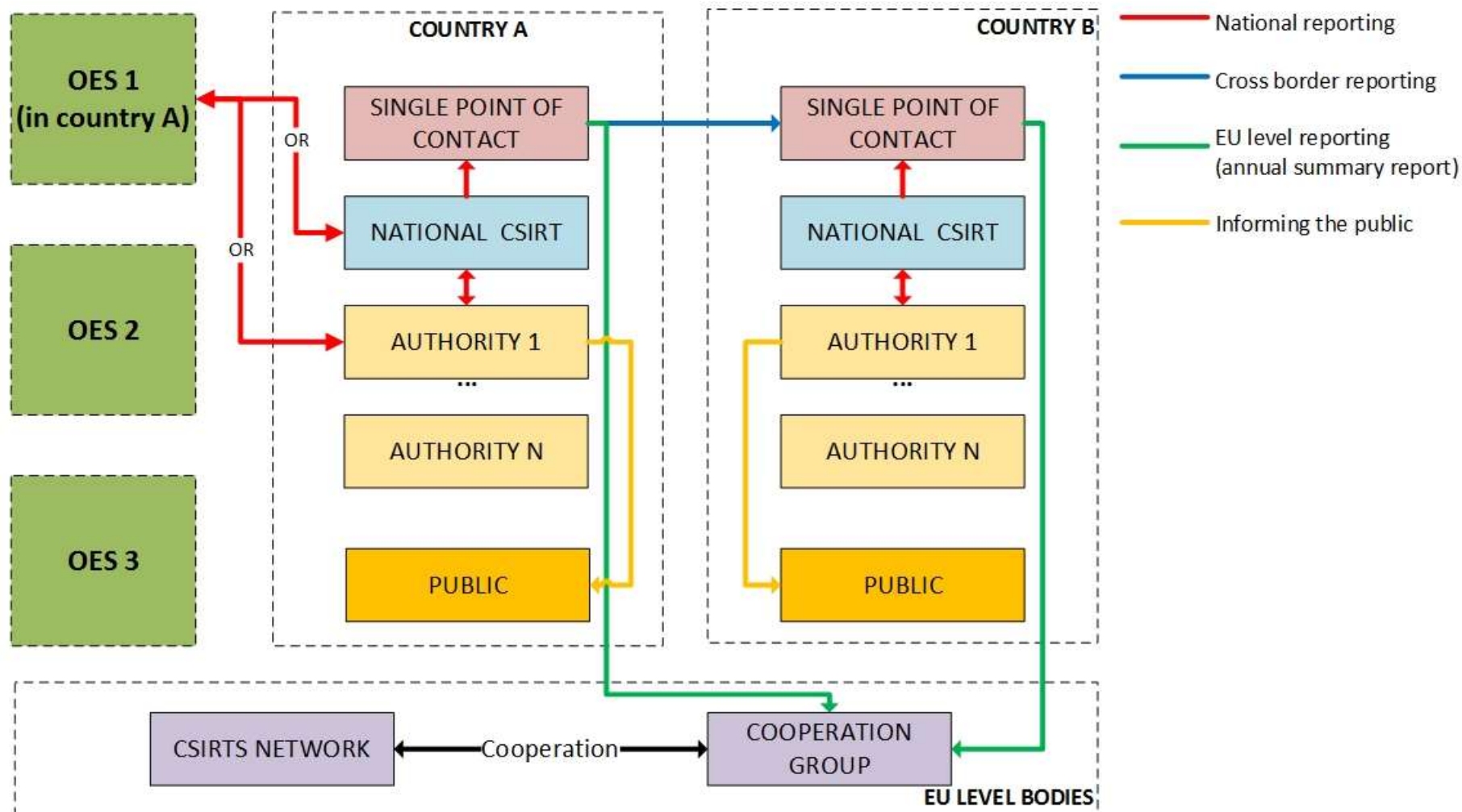




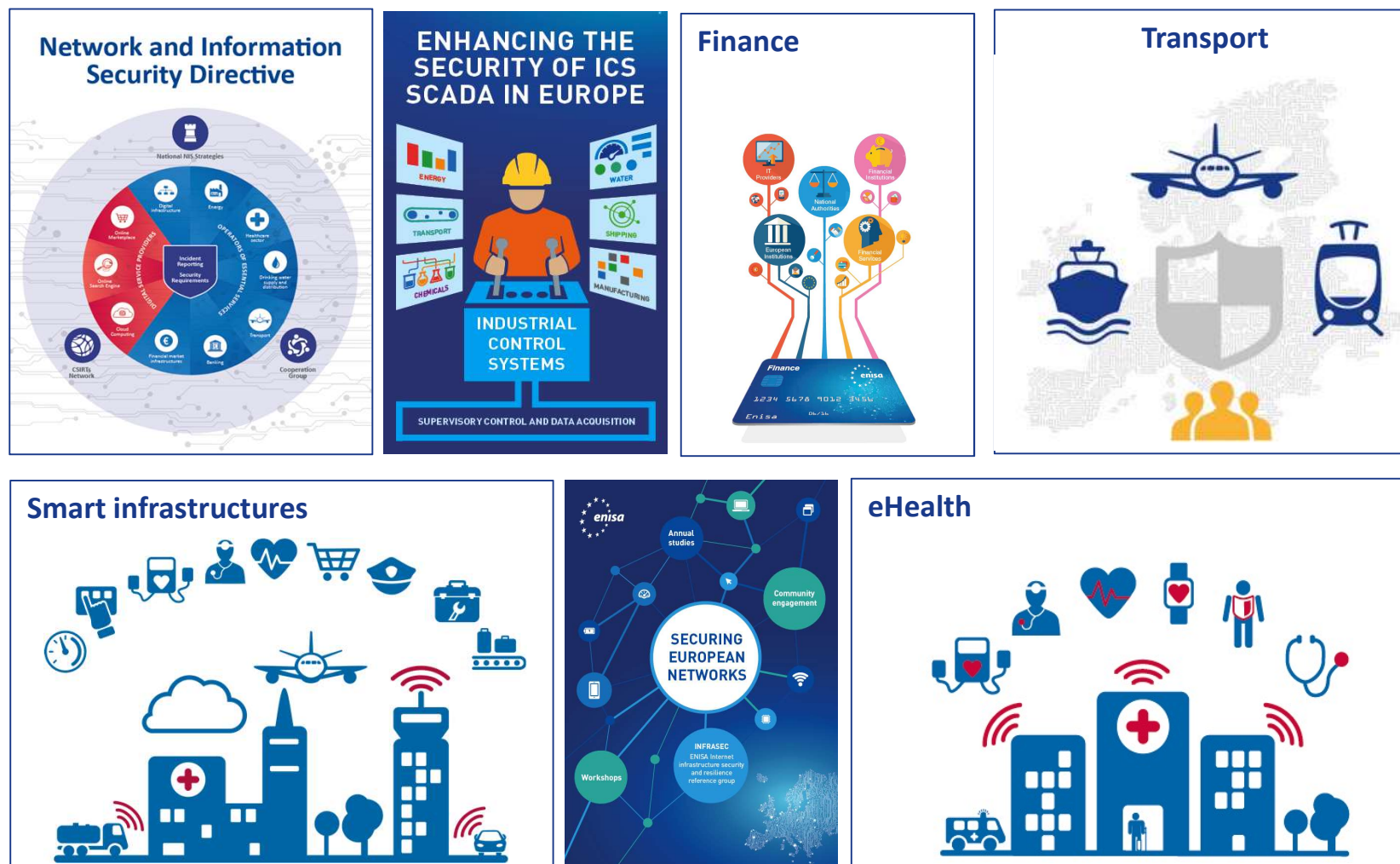
# Security Measures for OES



# Incident Reporting for OES



# Sectorial Implementation of NISD

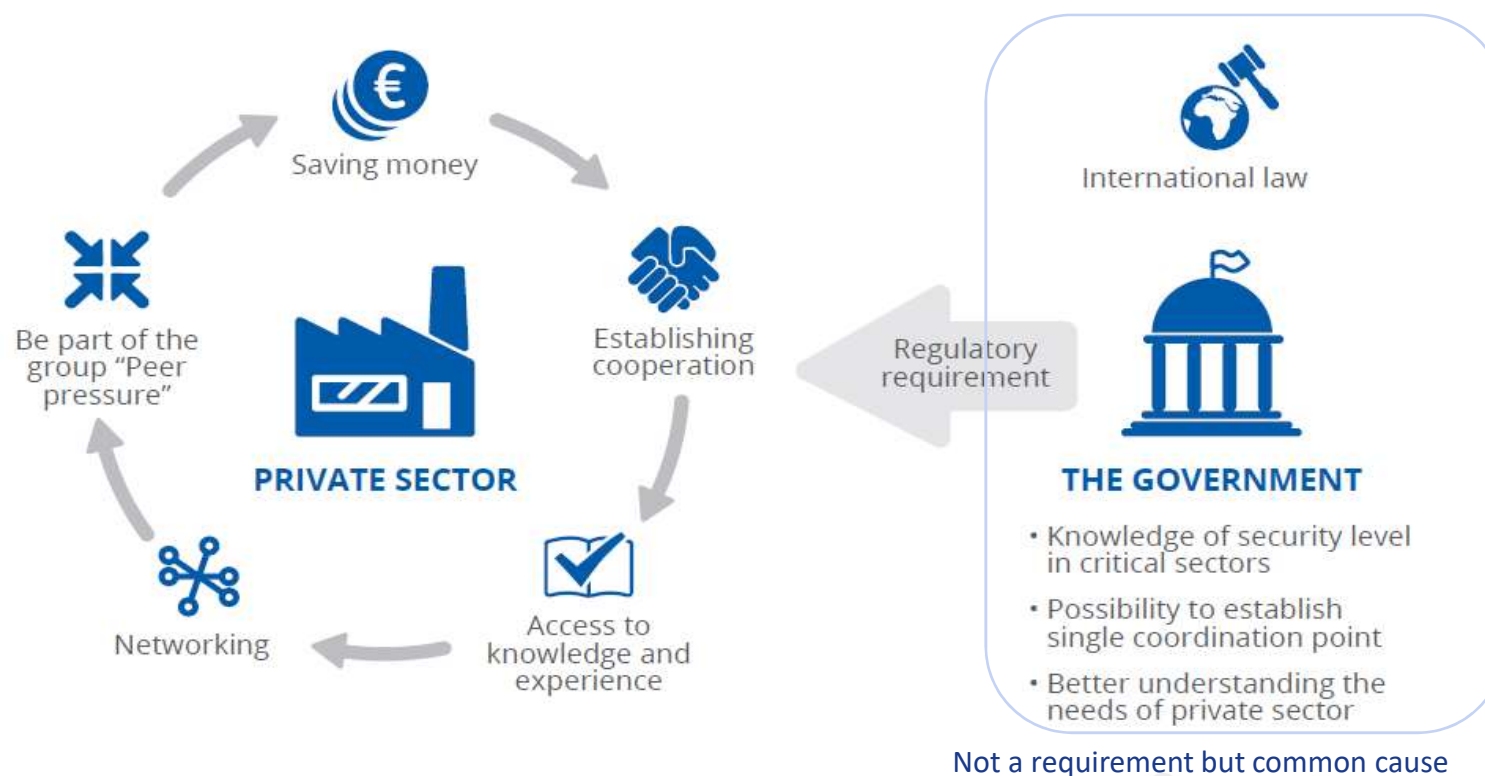


[www.enisa.europa.eu/topics](http://www.enisa.europa.eu/topics)

# Public Private Co-operation



## ISAC

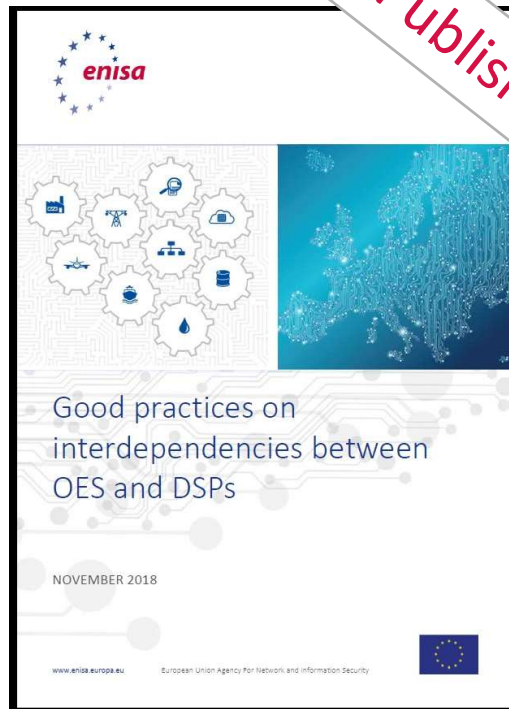




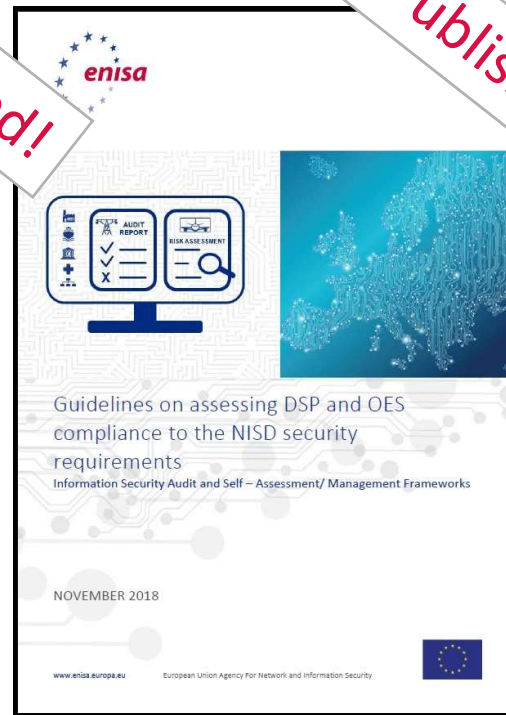
# ENISA Activities – 2018 Highlights



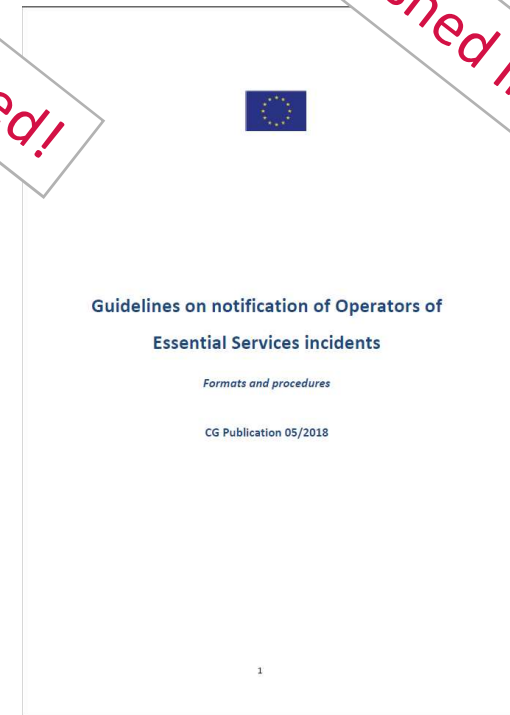
Just Published!



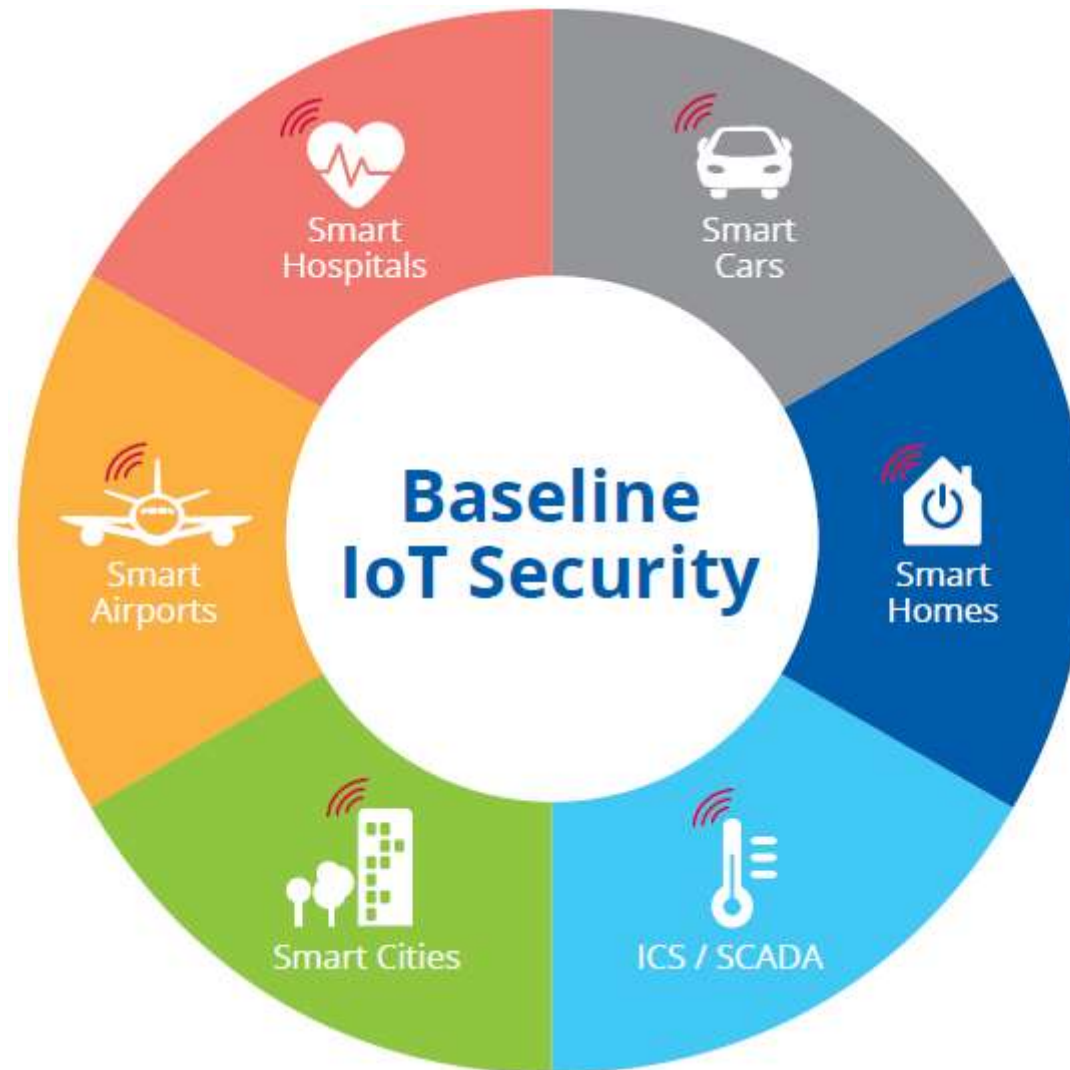
Just Published!



Published in June



# Smart Critical Infrastructures



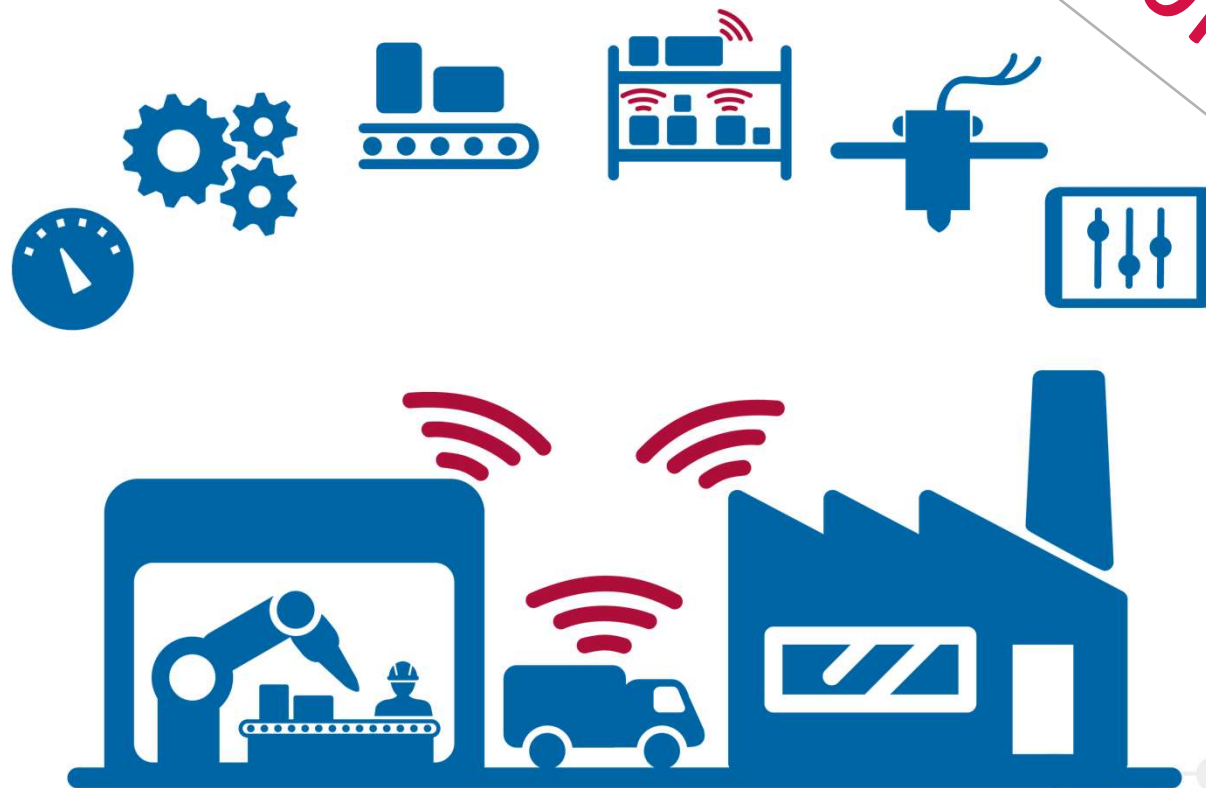


# Ongoing efforts

## Industry 4.0



Just published!



# Conclusions



1

Increased dependencies on IT (see IoT).  
Cyber attacks on CII are no longer fiction.  
Security of CII more important than ever.

2

Aim for higher security of critical infra across EU.  
NISD an important step to achieve this.

3

NISD needs strong public-private collaboration  
ENISA as catalyst for collaboration and exchange

- Foster sharing about experiences, threats, incidents
- Collecting, consolidating, disseminating good practices
- Work with authorities to achieve EU-wide harmonization

4

“Collaboration is Everything”





# Thank you



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