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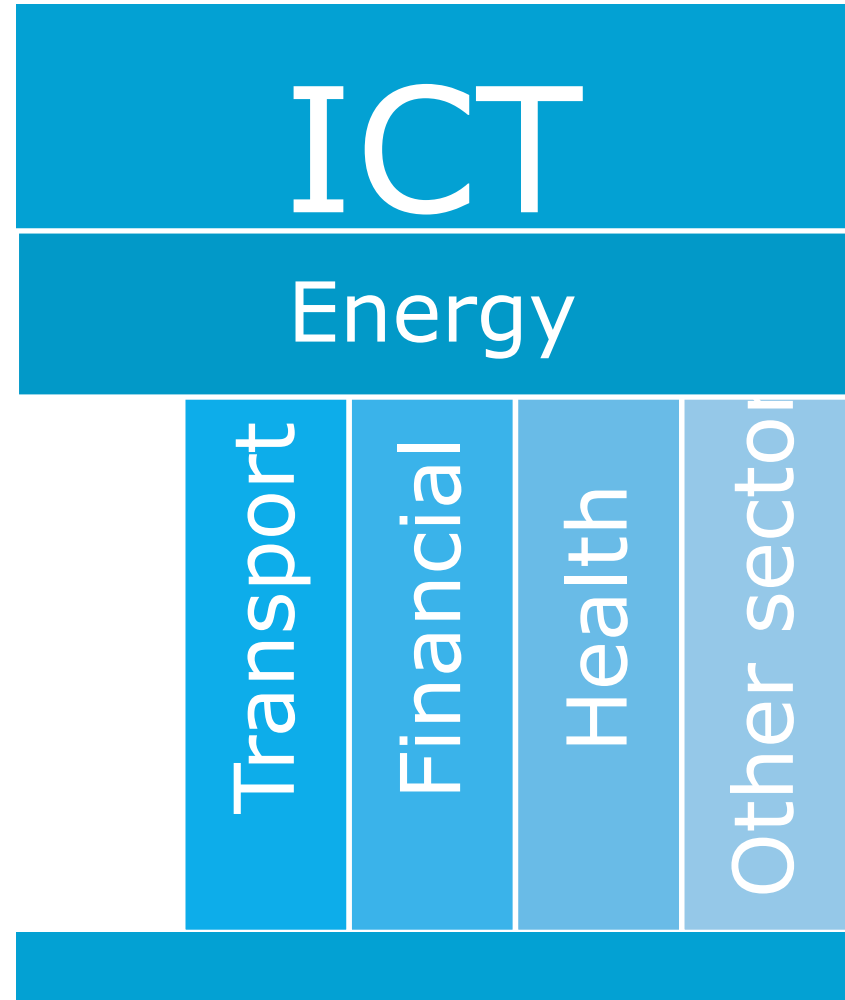
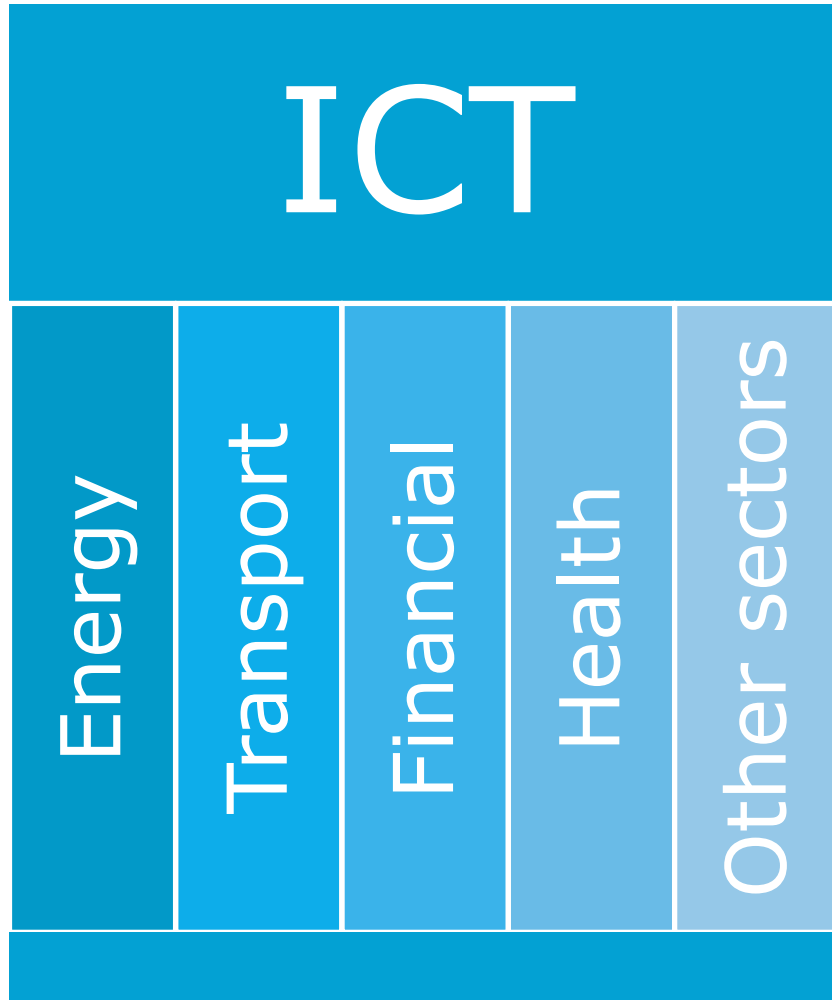


# Cybersecurity in the energy sector. Overview of EECSP Report

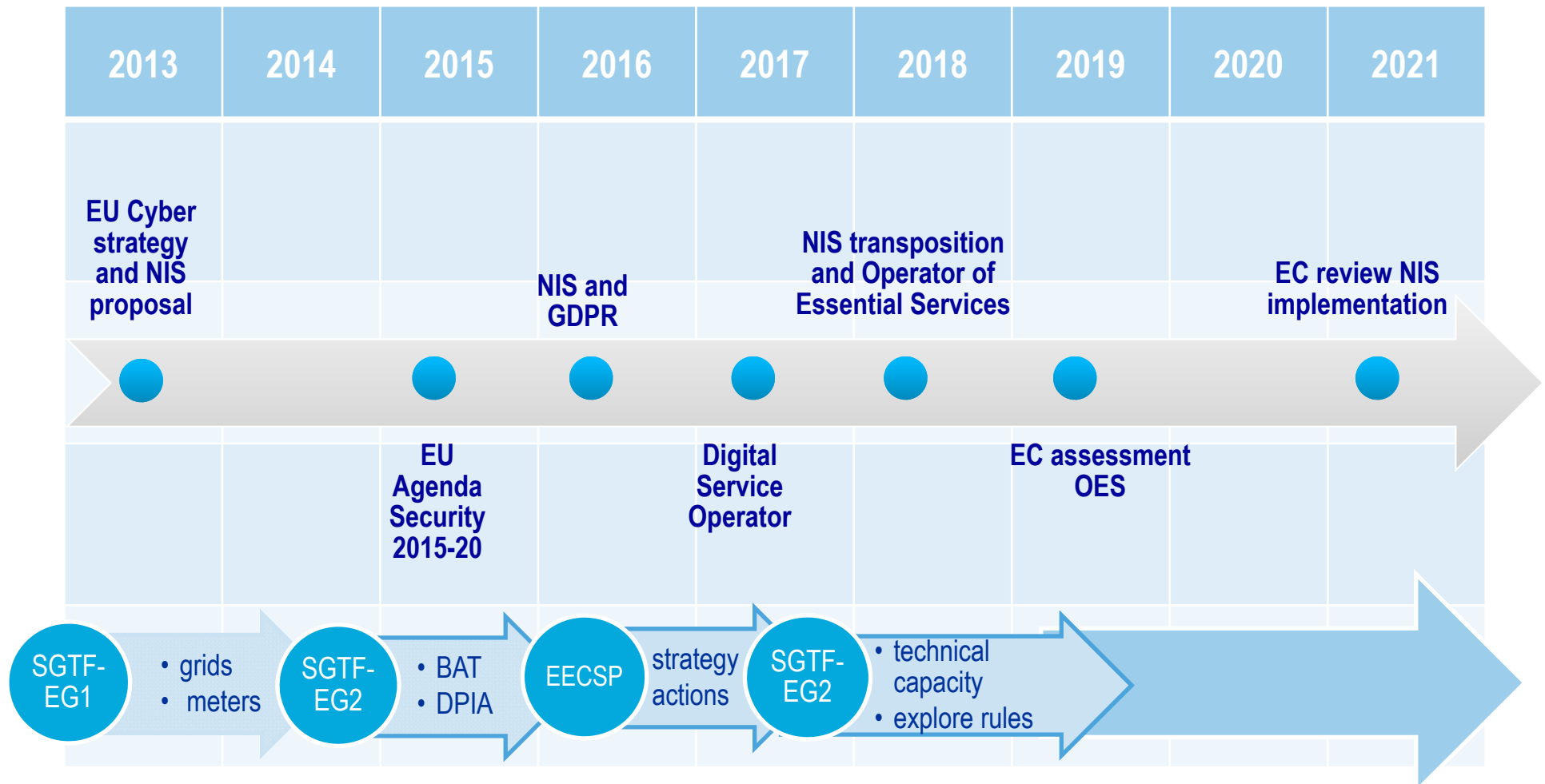
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Team Leader Smart Grids  
European Commission, DG ENER  
Brussels, 23 February 2017



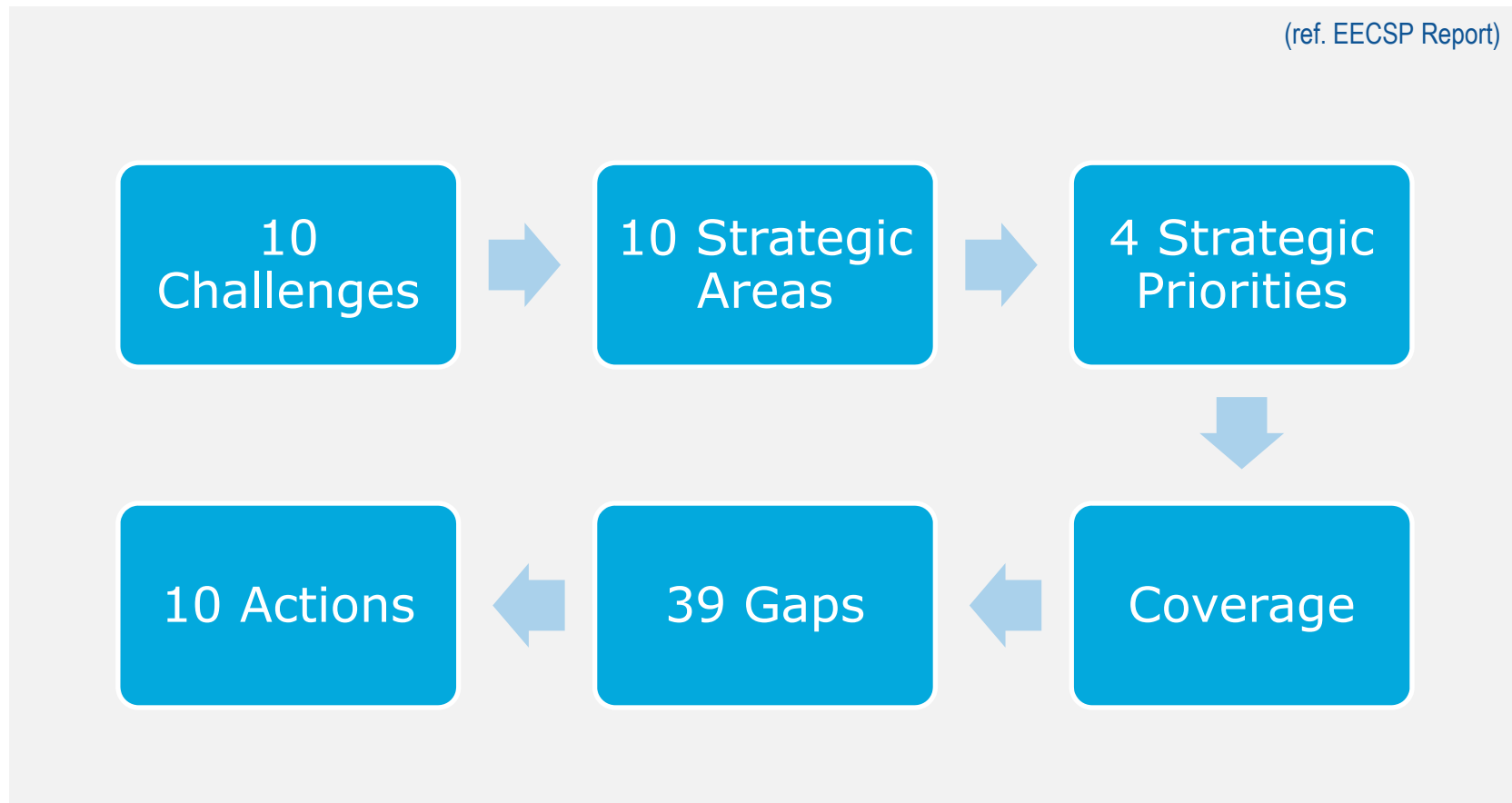
## What is the role of the Cyber security in the energy sector



## EU Cyber Security road map and specific energy activities at EU level



## Overview of the work of the Energy Expert Cyber Security Platform (EECSP)-Expert Group



## Cyber Security in the Energy Sector

	10 cyber security challenges in the energy sector (ref. EECSP Report)	Electricity	Oil	Gas	Nuclear
1	Grid stability in a cross-border interconnected energy network.	X		X	X
2	Protection concepts reflecting current threats and risks.	X	X	X	X
3	Handling of cyber-attacks within the EU.	X	X	X	X
4	Effects by cyber-attacks not fully considered in the design rules of an existing power grid or nuclear facility	X			X
5	Introduction of new highly interconnected technologies and services.	X		X	
6	Outsourcing of infrastructures and services.	X		X	X
7	Integrity of components used in energy systems.	X		X	X
8	Increased interdependency among market players.	X			
9	Availability of resources and their competences.	X	X	X	X
10	Constraints imposed by cyber security measures in contrast to real-time/availability requirements.	X		X	X

	<b>Identified Strategic Areas – Needs</b> (ref. EECSP Report)
<b>1</b>	European threat and risk landscape and treatment
<b>2</b>	Identification of provider of essential services
<b>3</b>	Cyber response framework
<b>4</b>	Crisis management
<b>5</b>	European cyber security maturity framework
<b>6</b>	Supply chain integrity framework for components
<b>7</b>	Capacity & competence build-up
<b>8</b>	Best practice and information exchange
<b>9</b>	Forster international collaboration
<b>10</b>	Awareness campaign from top level EU institutions

Present coverage	
Strategy papers	<ul style="list-style-type: none"><li>• EU Cyber Security Strategy</li><li>• Digital Single Market Strategy</li><li>• 50 national cyber security strategies</li></ul>
Legislation with focus on cyber security for critical infrastructure providers	<ul style="list-style-type: none"><li>• Network and Information Security (NIS) Directive</li><li>• European Programme for Critical Infrastructure Protection (EPCIP) Directive</li><li>• Contractual Public-Private Partnership</li></ul>
Legislation with focus on security of supply	<ul style="list-style-type: none"><li>• Security of Supply (SoS) Directive</li><li>• Security of Gas Supply Regulation</li></ul>
Legislation with focus on data protection and privacy	<ul style="list-style-type: none"><li>• General Data Protection Regulation (GDPR)</li><li>• Data Protection Impact Assessment (DPIA) Template</li></ul>

Strategic Priorities		Strategic Areas	Areas of Actions
I	Set-up an effective threat and risk management system	European threat and risk landscape and treatment	1. Identification of provider of essential services for the energy sector at EU level. 2. Risk analysis and treatment. 3. Framework of rules for a regional cooperation. 4. EU framework for vulnerabilities disclosure for the energy sector.
		Identification of provider of essential services	
		Best practice and information exchange	
		Foster international collaboration	
II	Set-up an effective cyber defence framework	Cyber response framework	5. Define and implement cyber response framework and coordination. 6. Implement and strengthen the regional cooperation for emergency handling
		Crisis management	
III	Continuously improve cyber resilience	European cyber security maturity framework	7. Establish a European cyber security maturity framework for energy. 8. Establish a cPPP for supply chain integrity 9. Foster European and international collaboration
		Supply chain integrity framework for components	
		Best practice and information exchange	
		Awareness campaign from top level EU institutions	
IV	Build-up the required capacity and competences	Capacity & competence build-up	10. Capacity and competence build-up.





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*Feb 7, 2017 4:00:11 AM*

- **The Call for Tenders has been updated.**

Call for Tenders: [ENER/B3/2017-465 - Study on the evaluation of risks of cyber incidents and on costs of preventing cyber incidents in the energy sector.](#)

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