

Cyber-Security Strategy and Regulatory Context

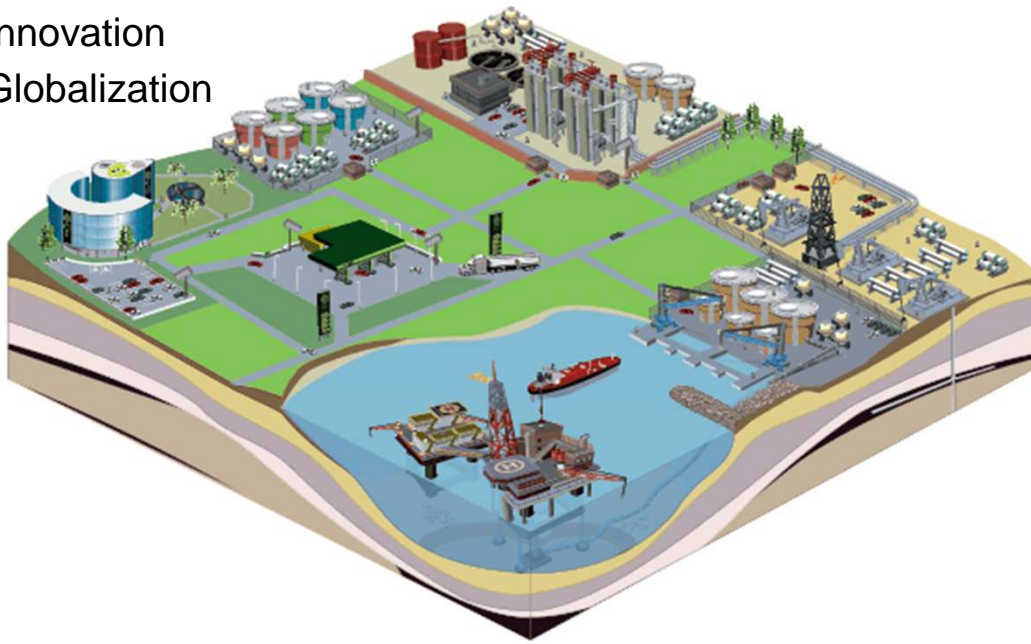
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Chamber of Commerce and
Industry of the Russian Federation
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THE HYDROCARBON VALUE CHAIN CHALLENGES DRIVES DIGITIZING THE HYDROCARBON NETWORK...

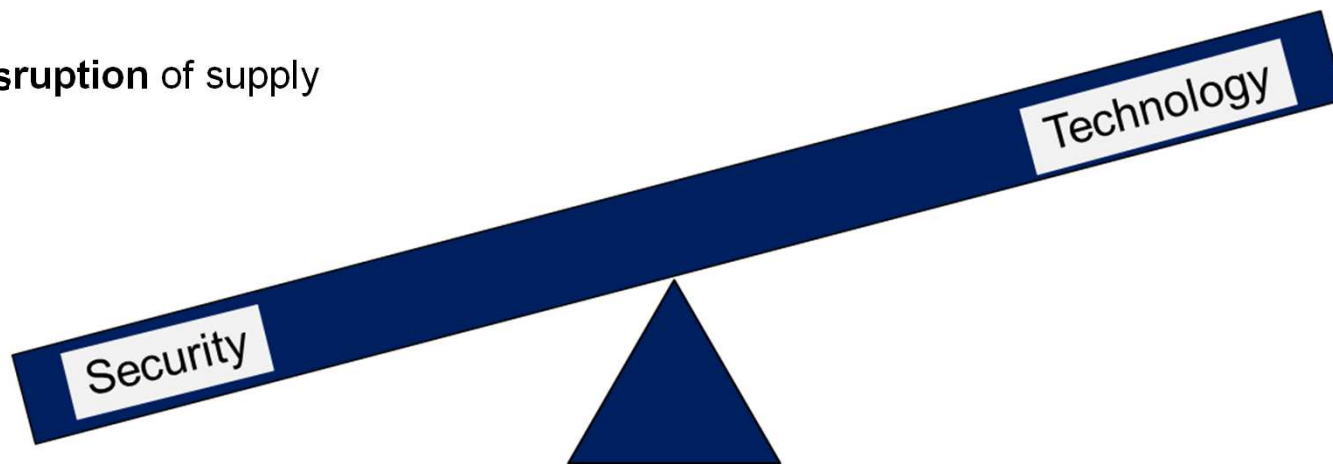
- ▶ Competition for reserves
- ▶ Pressure on cost
- ▶ Innovation
- ▶ Globalization



- ▶ Real time production and reservoir monitoring
- ▶ Collaborative production operations across teams and technologies
- ▶ Production optimization and real time asset monitoring
- ▶ Automated issue detection and response, predictive asset maintenance

..WHICH MIGHT COMPROMISE SECURITY AND SAFETY

- ▶ Compromising the oil field and refining networks can create **physical impact** on safety and environment
- ▶ Potential for **compromise of information** flow might impact competitive advantage
- ▶ **Disruption** of supply

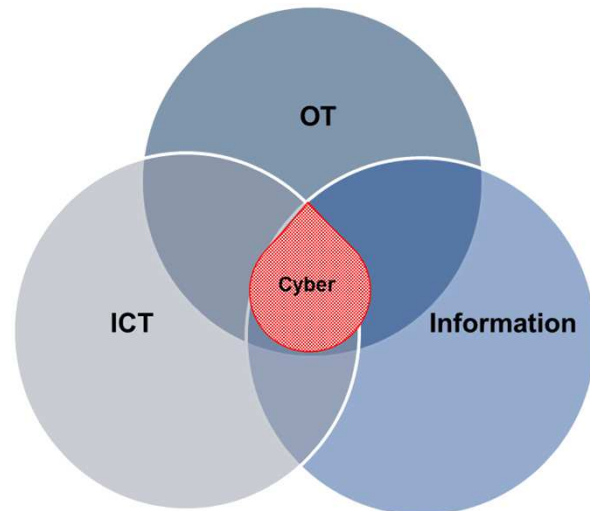


A THREAT BASED, HOLISTIC APPROACH IS REQUIRED

Homogenous Threats (random)

- ▶ Vulnerabilities
- ▶ Actors unknown
- ▶ Random

„IT Security“ –
compliance driven,
baseline
measures





Insider Threats

Heterogeneous Threats (targeted)

- ▶ Attractiveness
- ▶ Actors known
- ▶ Targeted

Direct threat,
physical or digital
threat based
measures

Regulatory framework of Cyber-Security (example EU and A)

EU-Directive on security of network and information systems (NIS)	<ul style="list-style-type: none">▶ Aims at acquiring a high level of security of network and information systems across the EU (harmonization) and to improve the security of critical infrastructure against disruptions and attacks▶ Key aspects<ul style="list-style-type: none">▶ national strategy for security of network and information systems▶ definition of operators of essential services and digital service providers▶ national organizational and coordinating structures▶ data protection and sanctions▶ Sectors affected (Annex II): energy, transport, banking, financial market infrastructures, health sector, drinking water supply and distribution, digital infrastructure	
National implementation	<ul style="list-style-type: none">▶ The EU-Directive has to be implemented into national law until May 2018▶ Operators of essential services have to be defined by November 2018.▶ Discussions with Federal Chancellery and Ministry for Interior ongoing – draft expected in upcoming weeks▶ Austrian Strategy for Cyber-Security (ÖSCS)<ul style="list-style-type: none">▶ Adopted by the Austrian Government in March 2013▶ Key aspect is the establishment of a coordination structure at operational level with the aim of securing a regular exchange between cyber-security stakeholders in Austria and to continuously monitor and analyze the situation in the cyber-field▶ Concrete measures were defined to improve cyber-security in Austria and to secure high resilience of critical infrastructure against cyber-attacks	

Operators of essential services

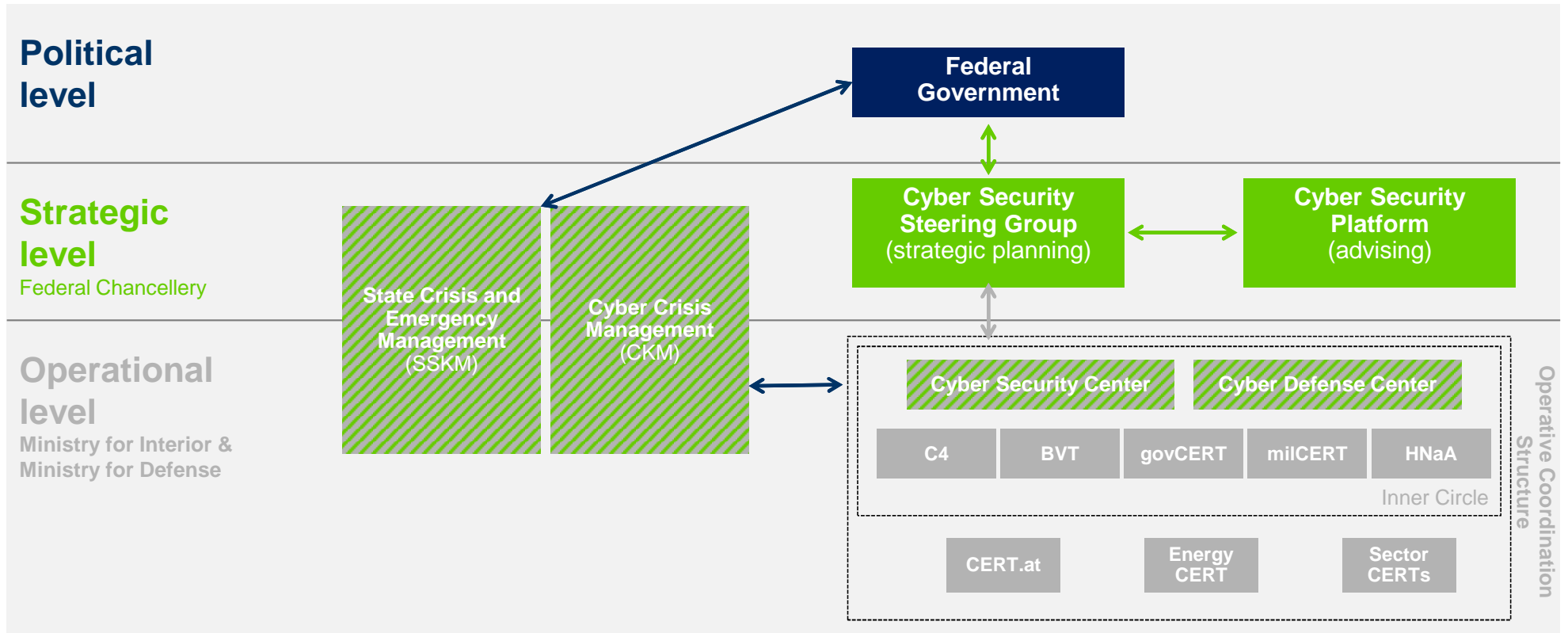
- ▶ **Member States shall identify operators of essential services which will be obliged to**

- ▶ Comply with security requirements at technical and organizational level
 - State of the art; adequacy
 - Usage of international norms, standards and specifications
 - ➔ Operators need to provide evidence for the effective implementation (e.g. result of authority/qualified auditor)
 - ➔ Authority may issue binding instructions to remedy the deficiencies identified (Art. 15)

- ▶ Notification of incidents with significant disruptive effect on the provision of that service (Art. 6), a.o.
 - Number of relying users
 - Dependency of other sectors of Annex II
 - Impact on economic and societal activities or public safety
 - duration
 - geographic spread
 - ➔ **Notification without undue delay** to responsible Computer-Emergency Team (CSIRT) - Art. 14

- ▶ **Designation of an-house contact point (CISO)**

National actors & structures in the strategy for cyber-security



Source: Federal Chancellery, Ministry for Interior, Ministry of Defense

Summary: Approach from the industry's perspective

- ▶ **Holistic** approaches and (industry) tailor made security solutions, including physical security, information security, industrial control systems' security, personnel security thorough cross-disciplinary organizations, strong cross-functional networks
- ▶ **Integrated** approach – prevention, reaction, business continuity
- ▶ **System approach** – value chain, not single objects/services (dependencies)
- ▶ **Governments and companies should have distinct, but cooperative roles:**
 - ▶ Governments to be responsible for deterring cyberattacks by nation states and organized criminal elements (highly targeted attacks)
 - ▶ Companies retaining autonomy and primary responsibility for protecting their assets against cyber-attacks
 - ▶ Governments and companies collaborate and share information of cyber threat indicators and intelligence

Summary: Principles of implementation and co-operation

- ▶ **Harmonization** of definitions and criterias laid down for the definition of critical infrastructure; harmonization of threat and risk assessments (common assessment)
- ▶ **Collaborative** - cross-border exchange with companies and states
- ▶ **Cost neutral** - potential security requirements for critical infrastructure are implemented in a cost neutral way
- ▶ **Standards** - globally used security and industry standards companies impose on themselves are recognized (no additional regulation)
- ▶ **Audits** - no additional audits shall be necessary; flexibility for companies to prove risk reduction measures implementation
- ▶ **Balanced** – sectoral and cross sectoral neutral application (no competitive disadvantage)
- ▶ **Reporting** – ensure data sovereignty and confidential business information; no duplication of existing reporting lines; severe cases only
- ▶ **Focus:** Performance not compliance

Questions & Answers

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