

Building awareness and accelerating cyber resilience in the Oil and Gas industry

About me

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Polytechnical college → 2001

- Engineer, data techniques

Norman Data Defense 2001-2006

- Software developer

DNV 2007-2014

- Head of Security services

Hydro 2014 - 2018

- Director of Corporate Information Security

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- Chief Information Security Officer

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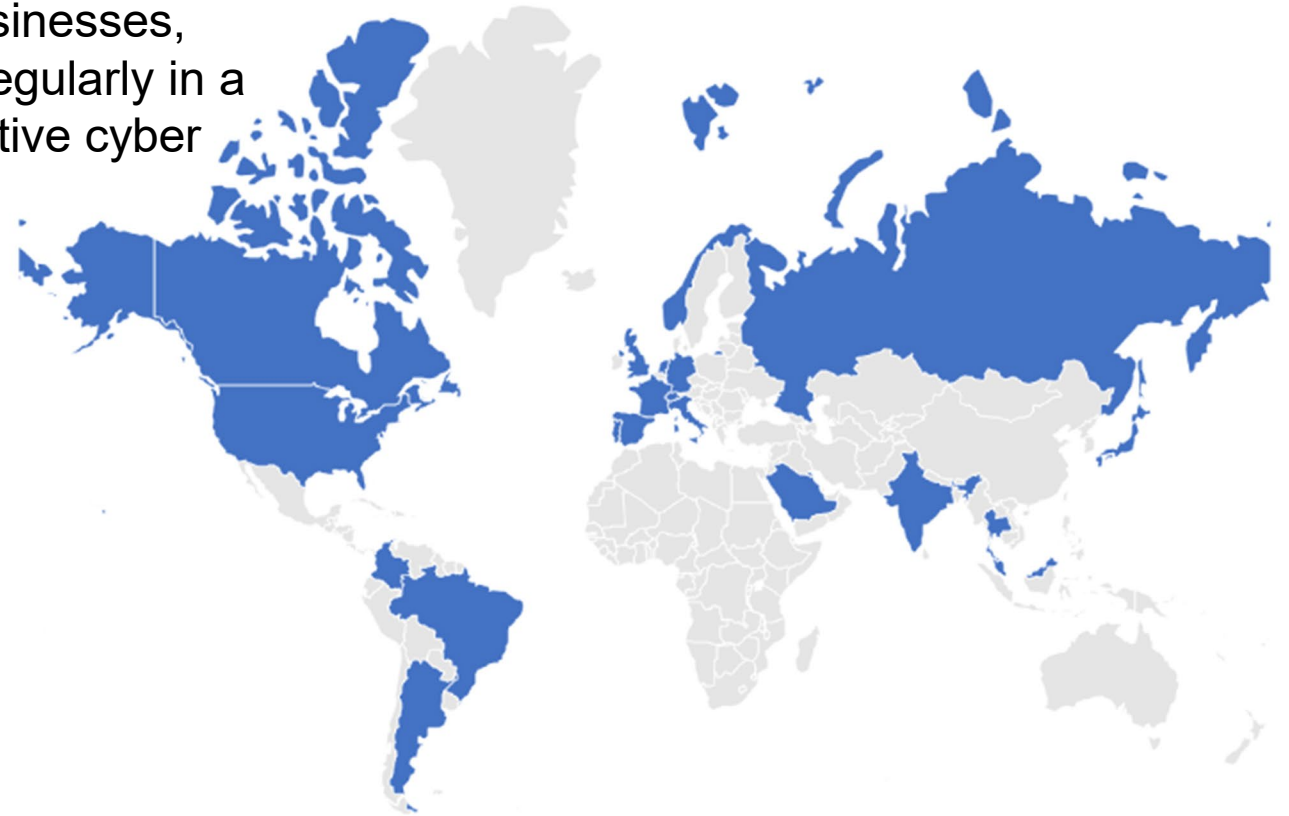
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Cyber Resilience in the Oil and Gas Industry – The Community

The Community brings together more than **40** different key Oil and Gas stakeholders from over **20** different countries

Participants include committed leaders from businesses, government entities and academia, who meet regularly in a trusted and neutral environment to ensure effective cyber resilience across the Oil & Gas sector



Multistakeholder



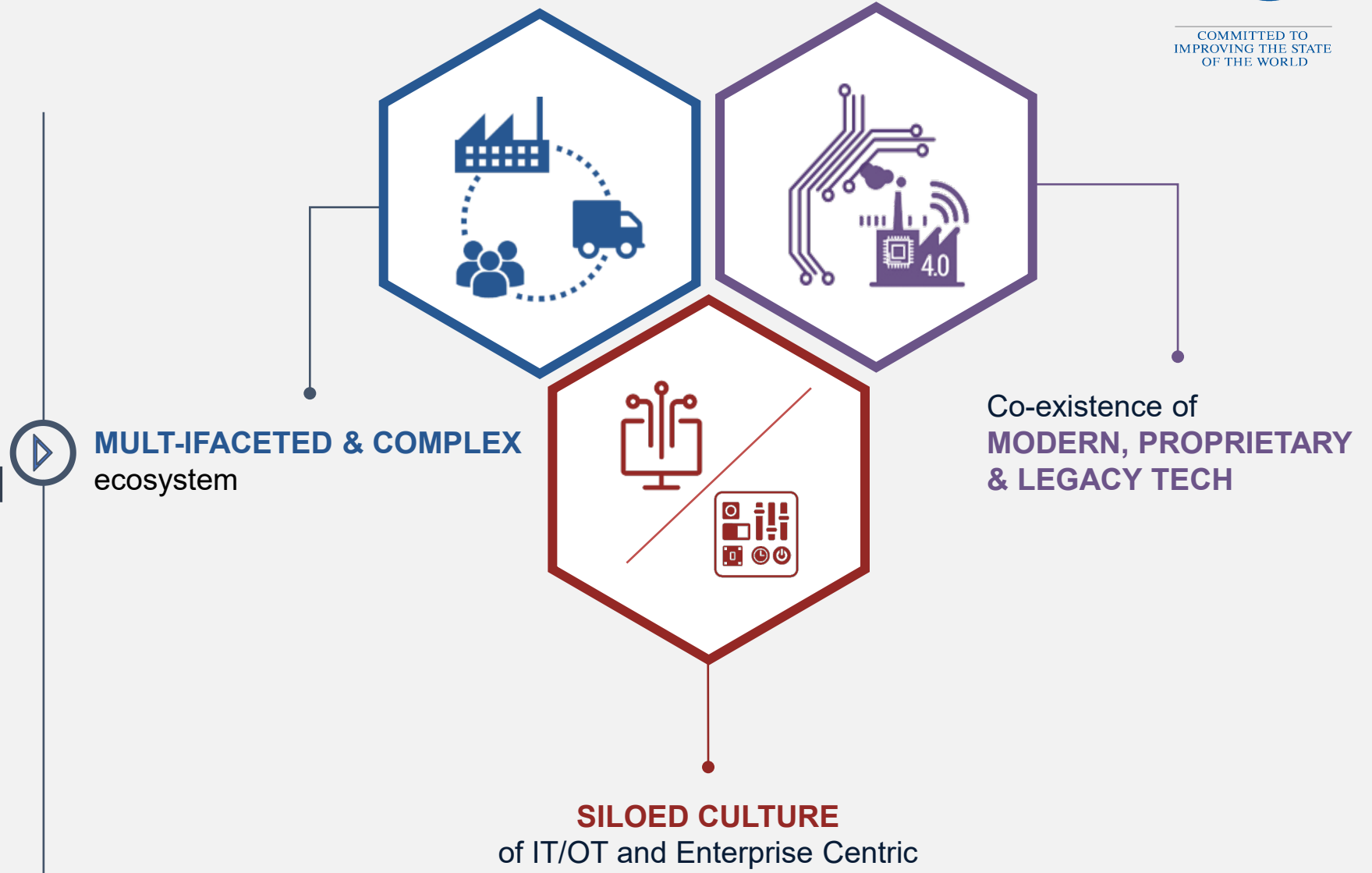
International dialogues



Influence organizational,
behavioral and cultural change

Cyber resilience challenges in Oil and Gas

The Oil & Gas industry faces a multi-faceted ecosystem, mixed technology and a siloed culture which in turn challenge cyber resilience

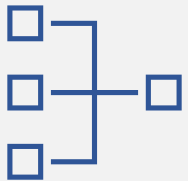


Increasing cybersecurity awareness and advancing the overall level of cybersecurity in Oil and Gas



Expanding digital threat landscape

- Malicious actors regard the energy sector as a ripe target to launch cyberattacks for financial, criminal or geopolitical gain



Complex industrial operating environment

- Cybersecurity in the oil and gas sector is challenging due to complexities associated with the running of a vast organization with different businesses, assets and personnel located worldwide, but also a complex supply chain network of customers and suppliers



Key cyber challenges

- Challenges range from poor cyber hygiene and interconnectedness to siloed/shared responsibility and engagement with trusted third parties

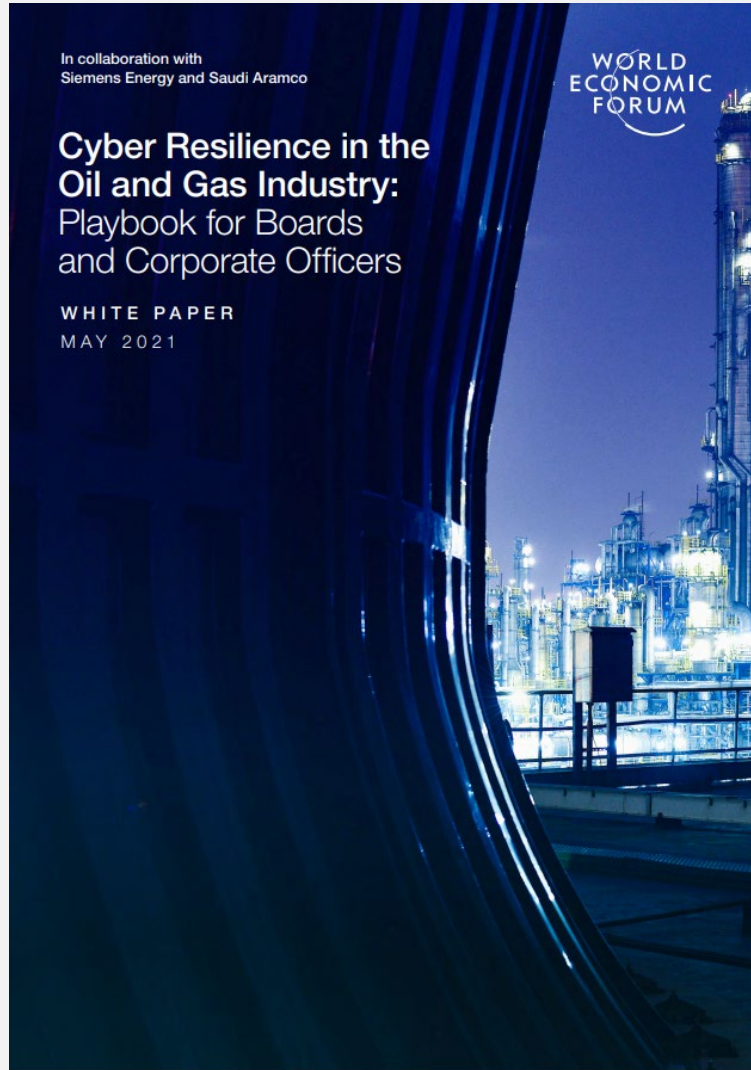
Playbook for Boards and Corporate Officers

Playbook finalized and released in May 2021

This Playbook provides:

- 10 General and six oil and gas industry specific cyber resilience principles
- Board members with guidance to help execute their oversight role and obtain actionable insights to improve cyber resilience
- Corporate officers and managers with recommended activities to help implement cyber-resilience principles and facilitate communication on the risks with executive board members

Ultimately, strong cyber resilience will reduce risk across the oil and gas industry and enable automation and digitization to continue improving efficiencies and enhance reliability in competitive supply chains



Six Cyber Resilience principles for the Oil & Gas industry



OG1. Cyber Resilience governance



OG2. Resilience by design



OG4. Corporate responsibility for cyber resilience



OG3. Holistic risk management approach

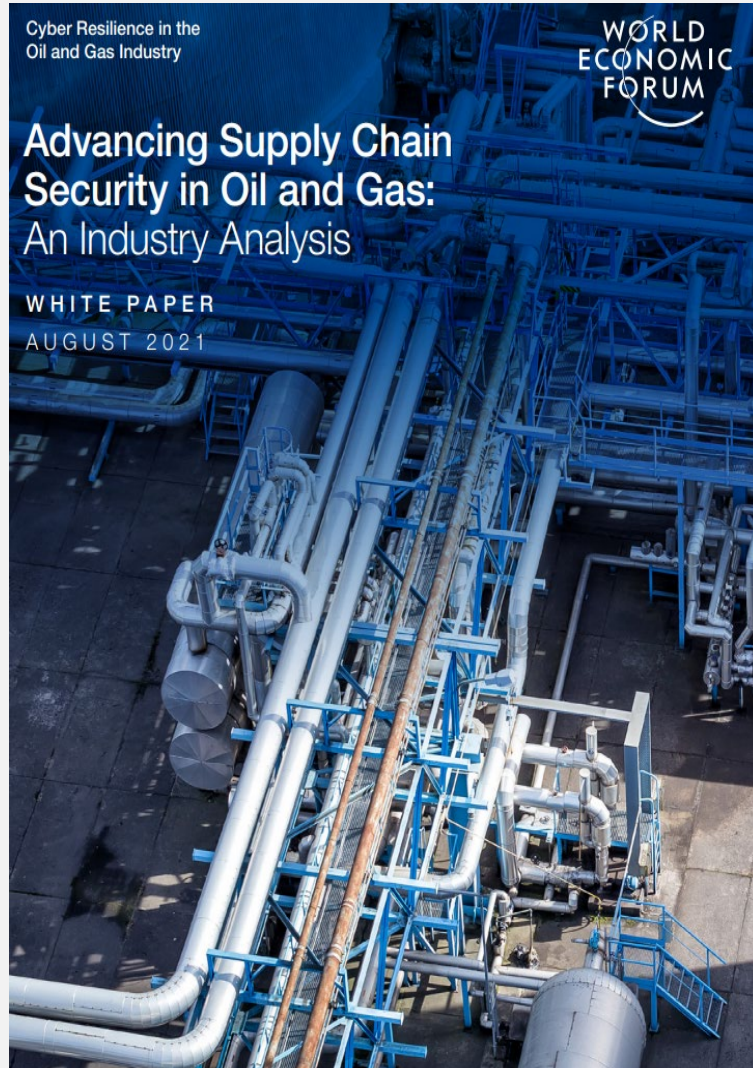


OG5. Ecosystem-wide collaboration



OG6. Ecosystem-wide cyber resilience plans

Managing supply chain risk



White paper finalized and released in August 2021

This white paper provides:

- A streamlined approach for third-party risk management that increases cyber resilience across the industry
- Guidelines for implementing a cybersecurity baseline that increases the effectiveness of cybersecurity across the industry
- Recommendation on cyber resilience principles, their key benefits and guiding principles

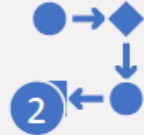
To manage cyber risk in the oil and gas industry, public-private collaboration is essential to drive the alignment of cybersecurity practices between businesses and third parties

WEF Oil and Gas Cyber security deliveries 2021-22*



Strategy & Culture

Ensure the effective adoption of cyber resilience principles for organizational and culture change



Supply chain

Establish and align cybersecurity practices to secure the Oil & Gas supply and value chains



Benchmarking

Amplify and accelerate the adoption of proven approaches for cyber resilience across the industry

* - These three deliveries are from one initiative. There will also be other WEF-initiatives delivering Cyber security material in 2022.



Thank you
