

TÜV Rheinland

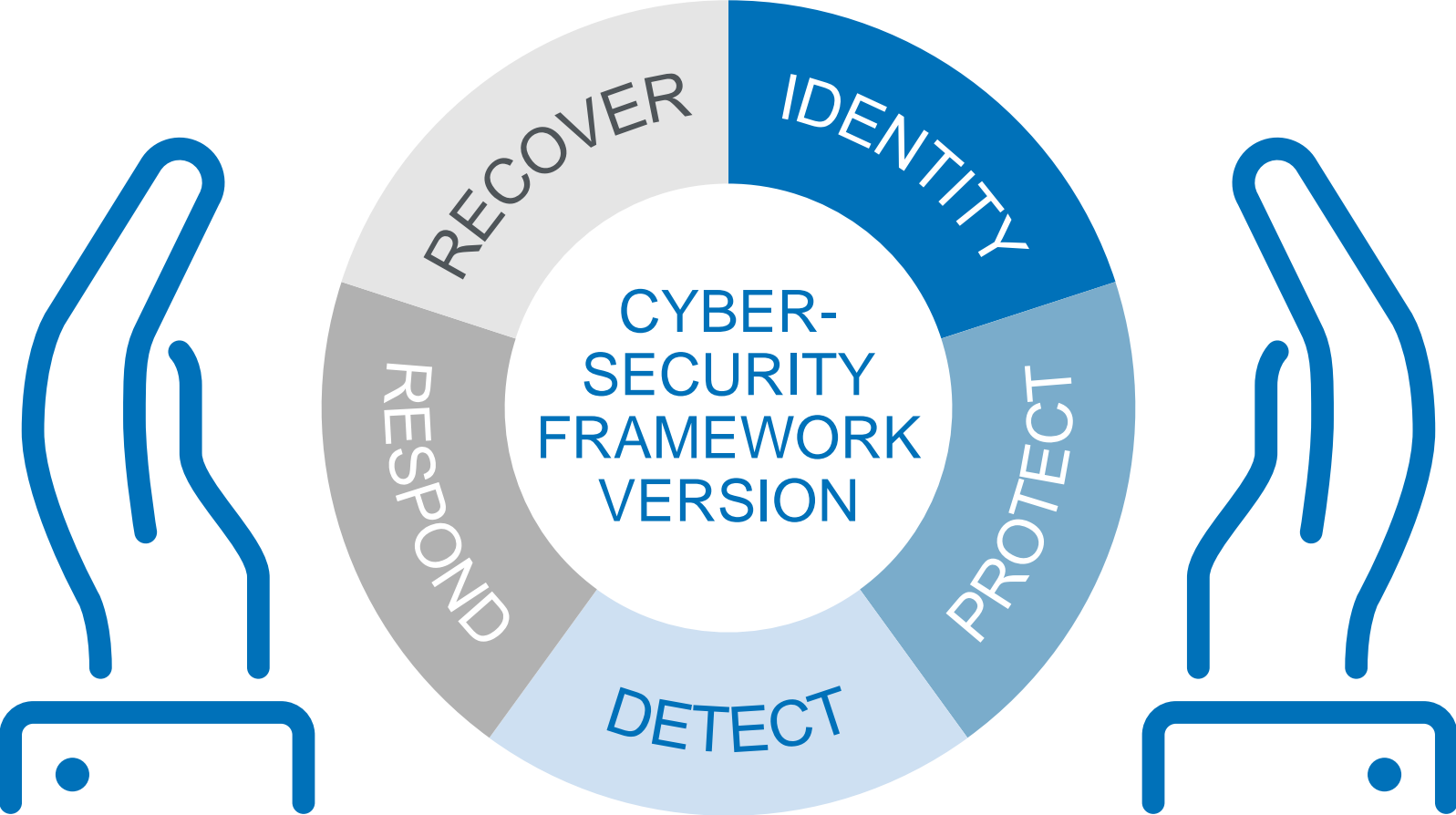
Digital Bodyguard for Industry Transformation

Wolfgang Kiener

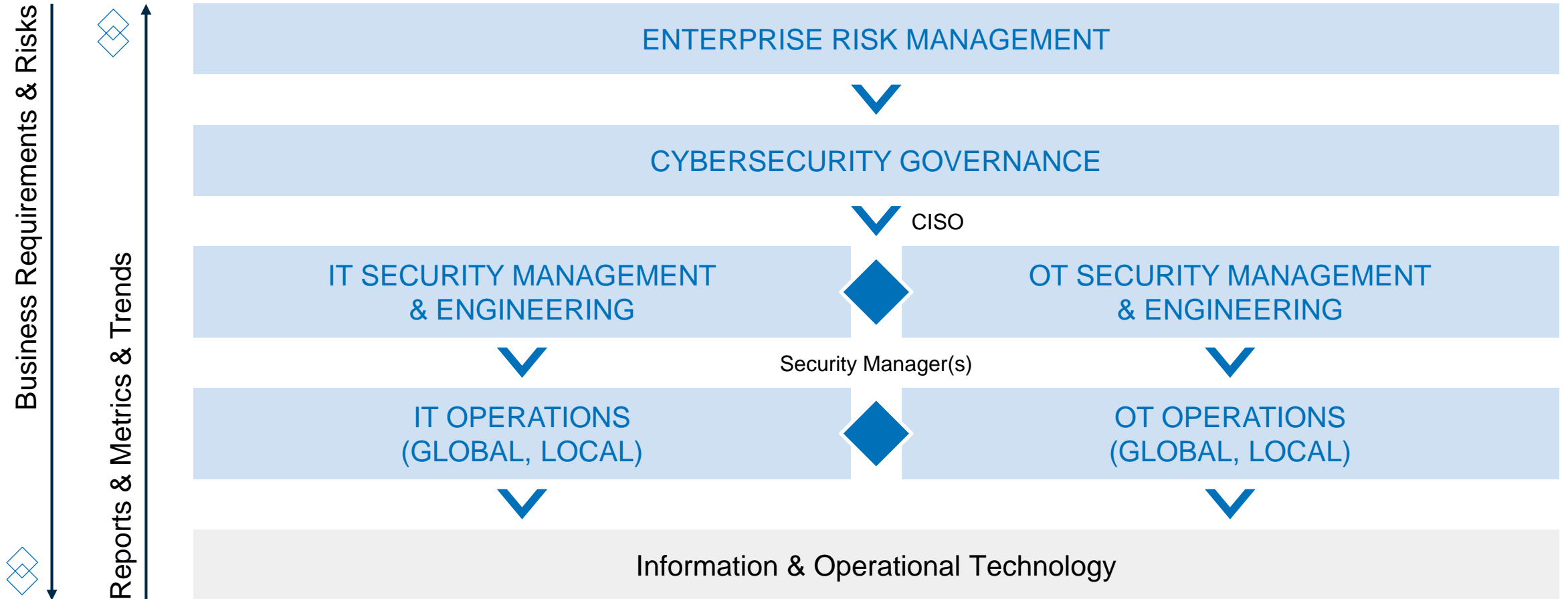
Global Head of Advanced Threat Centre



What is a Digital Bodyguard?

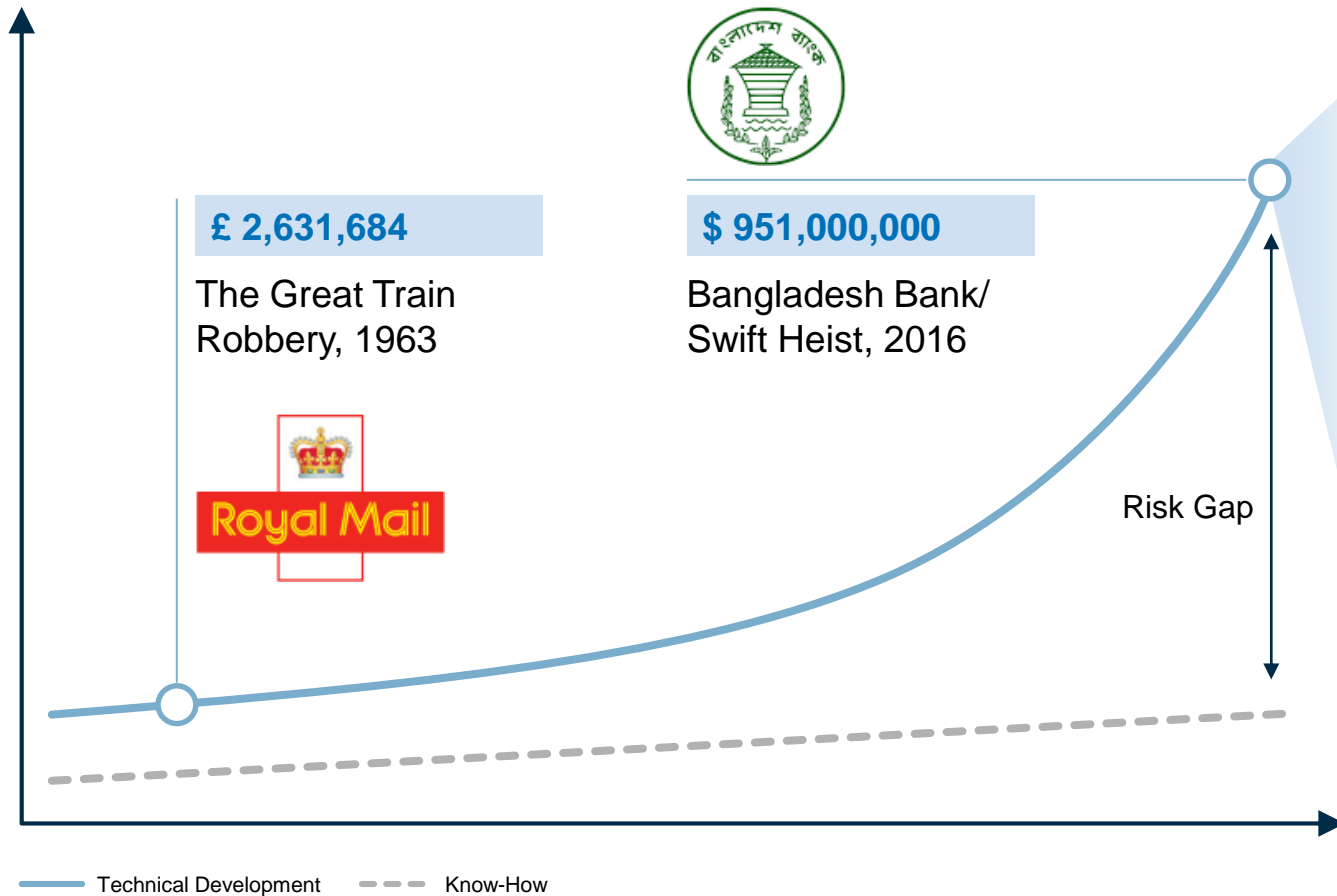


Where to find the Digital Bodyguard?



Key Challenge of the Digital Bodyguard

Risks develop exponential in the digital transformation.



INDUSTRY 4.0

- Automation
- Scalability and Interconnectivity
- AI and Machine Learning
- Agility



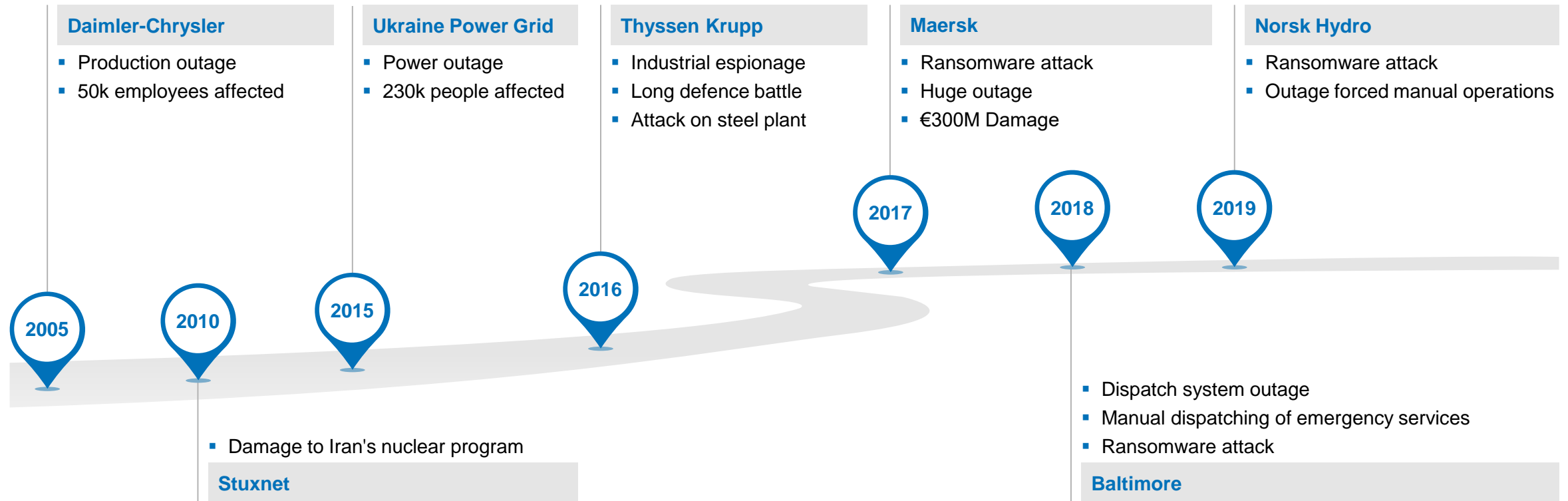
CYBER RISK 4.0

- Attack automation
- AI and Machine Learning
- Attackers are agile
- Complexity increases attack surface
- Vulnerabilities are hardly to avoid

Cyber Risk = Business Risk

A brief History on Attacks in OT

Attack frequency and impact is increasing



What do our Digital Bodyguards say?

TÜV Rheinland Industrial Security Survey 2019

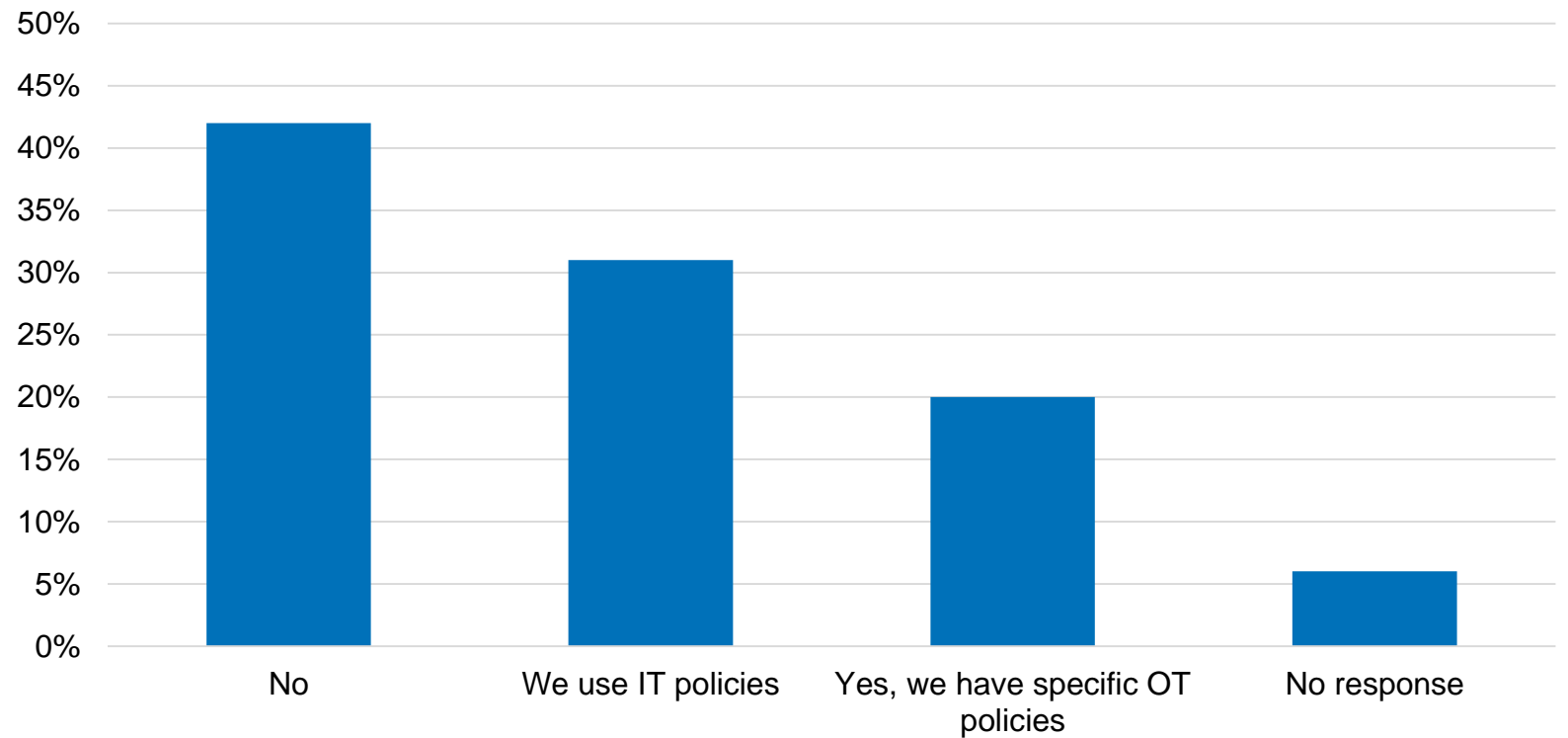


Industrial Security in 2019:
A TÜV Rheinland Perspective

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HAVE YOU IMPLEMENTED OPERATIONAL TECHNOLOGY-RELATED CYBERSECURITY POLICIES AND PROCEDURES IN YOUR BUSINESS?



What do our Digital Bodyguards say?

TÜV Rheinland Industrial Security Survey 2019

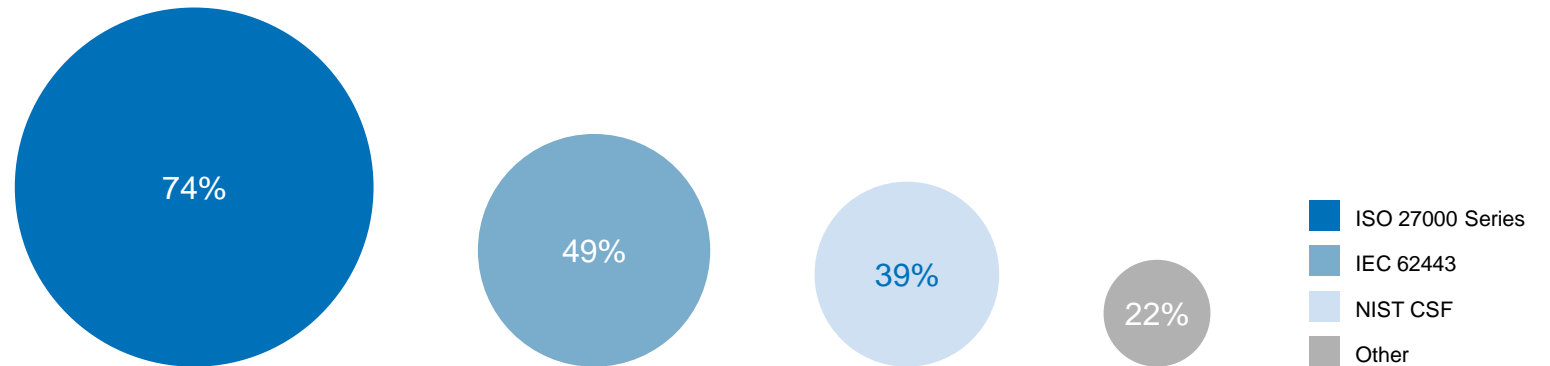


Industrial Security in 2019:
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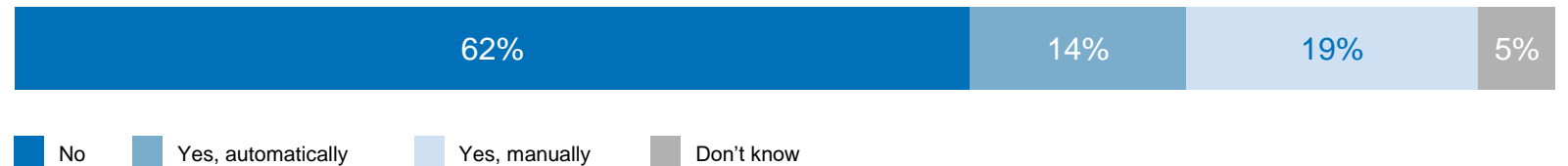
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WHAT FRAMEWORKS OR STANDARDS DID YOU USE FOR THE [CYBERSECURITY RISK] ASSESSMENT? (MULTIPLE SELECTIONS POSSIBLE)

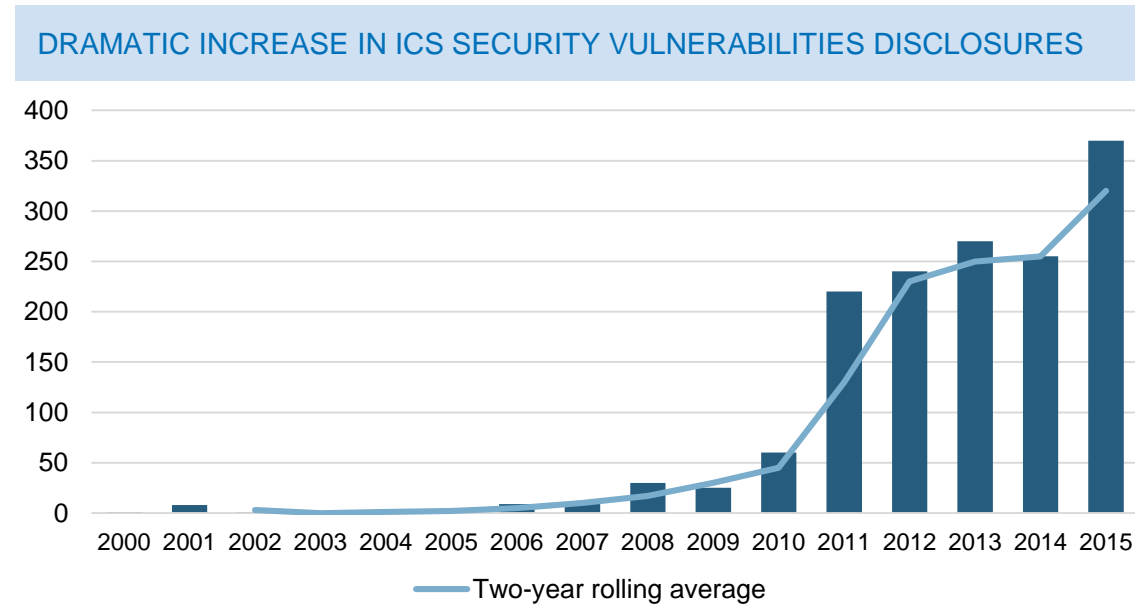


ARE YOU ABLE TO DETECT ALL THE ENDPOINTS ON YOUR OPERATIONAL TECHNOLOGY NETWORK?

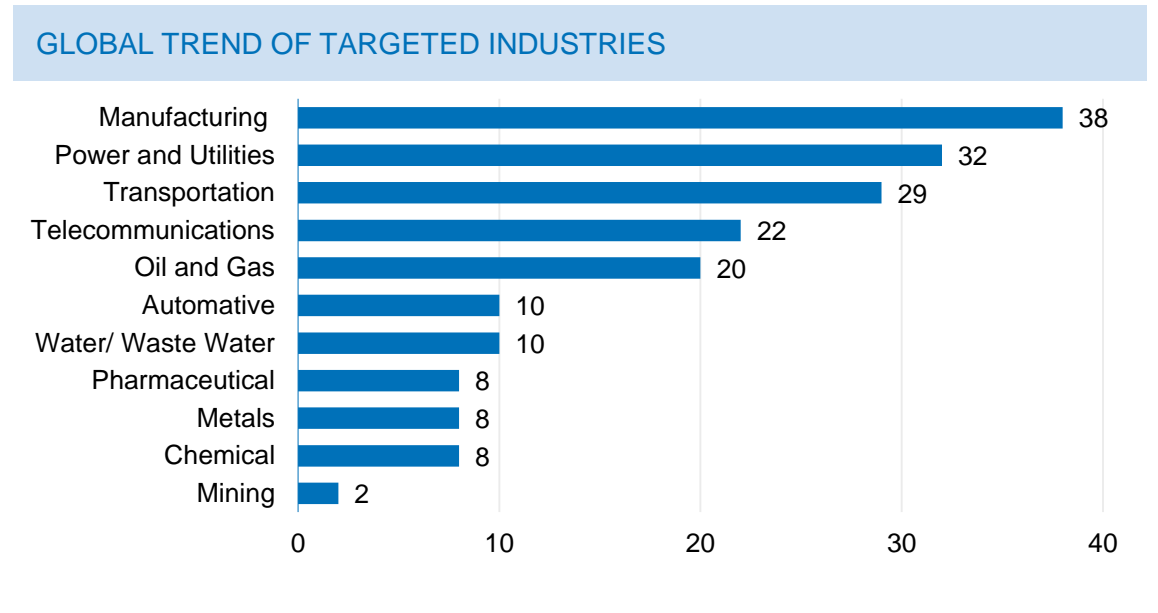


Global Industrial Control Systems Security Trends

Vulnerabilities and attacks continuously increase



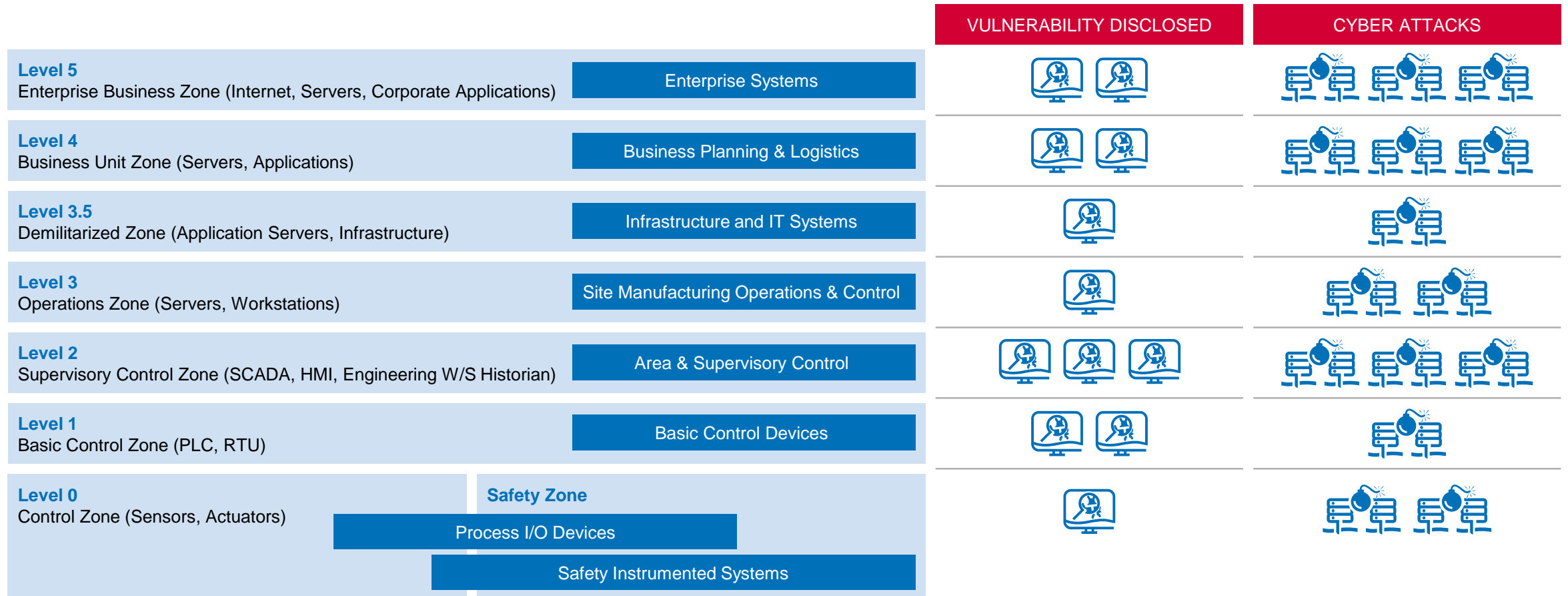
Source: Fireeye



Source: Demonstrate relative attack frequency on industry based on sector reports

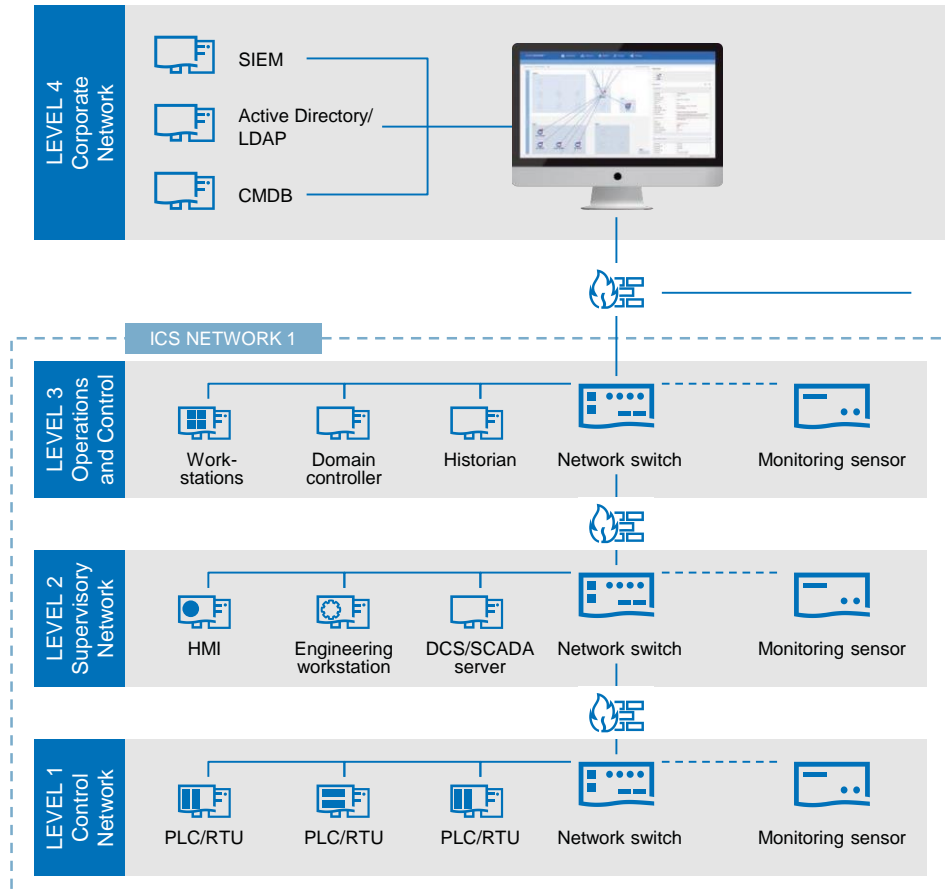
Industrial Control Systems Vulnerability and Attack Trends Analysis

Comparing vulnerability and attack trends indicate corporate systems see most attacks; providing access for threat actors to exfiltrate data and infiltrate industrial networks



Monitoring and Threat Detection is paramount

It is possible in OT environments as well.



Asset Discovery and Inventory

Communication Profile

Vulnerability Assessment

Threat Modelling

Threat Hunting

Efficient Compliance

Win a RISK ASSESSMENT

Hall 5 Booth 29

Wolfgang Kiener

Global Head of Advanced Threat Center

Phone +49 174 1880217

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