

# What the EU's Cyber Resilience Act Means for Your Business



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Digital Transformation Workgroup Leader, OMAC

# Introduction

- Joined ei3 in March 2023, driven by a passion for Automation, IIoT, and AI
- 10+ years experience in industry:
  - Operator > Technician > Engineer > Product Manager
- Spent 8 years at Mettler-Toledo in Product Management, specializing in software engineering and SAP Variant Configuration. Also led Compliance efforts for Automation & Digital Security
- 9-years of involvement in OMAC, contributing to initiatives like PackML update and OPC UA Companion Specification

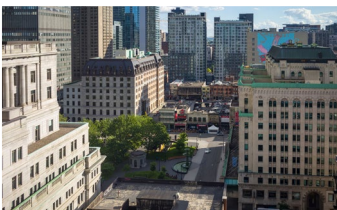
# ei<sup>3</sup> At A Glance



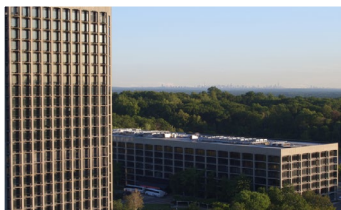
Trusted partner for Industrial IoT and AI for machine builders and manufacturers since 1999

## 3 Locations, 3 Competencies

MONTREAL, CANADA  
JAVA DEVELOPMENT



PEARL RIVER, NEW YORK  
GLOBAL HEADQUARTERS



ZURICH, SWITZERLAND  
DATA SCIENCE CENTRE



Data centres in: USA, Germany, China

Sales offices in: Japan, India

## Trusted by leading brands



## For machine builders:

- Proven, white-labeled solution to get started on your digital transformation journey immediately
- Reduce warranty costs and technician's travel time with secure remote access
- Drive new after-sales services to deliver fast support to customers and improve brand loyalty

## For machine owners:

- Achieve maximum ROI from your equipment and save costs by measuring, monitoring and controlling your key performance indicators with our powerful suite of IoT Applications
- Reduce downtime, improve quality, increase yield and lower energy consumption

**150,000**  
machines & devices  
being monitored

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**10,000**  
connected facilities

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**300 million**  
data points  
collected everyday

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# Organization for Machine Automation & Control

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## Why OMAC?

When manufacturers work together to create standards and share best practices whole industries benefit

## The OMAC Mission

Provide collaborative thought leadership, standards and support to automation professionals enabling their organizations to save time, money and resources, creating room for innovation



# Members

- Since 1994
- 60+ members and growing

## End users

Nestle, P&G,  
Arla Foods,  
WestRock, etc.

## System integrators

CONTEC, EOSYS,  
Rovisys, etc.

## OEMs

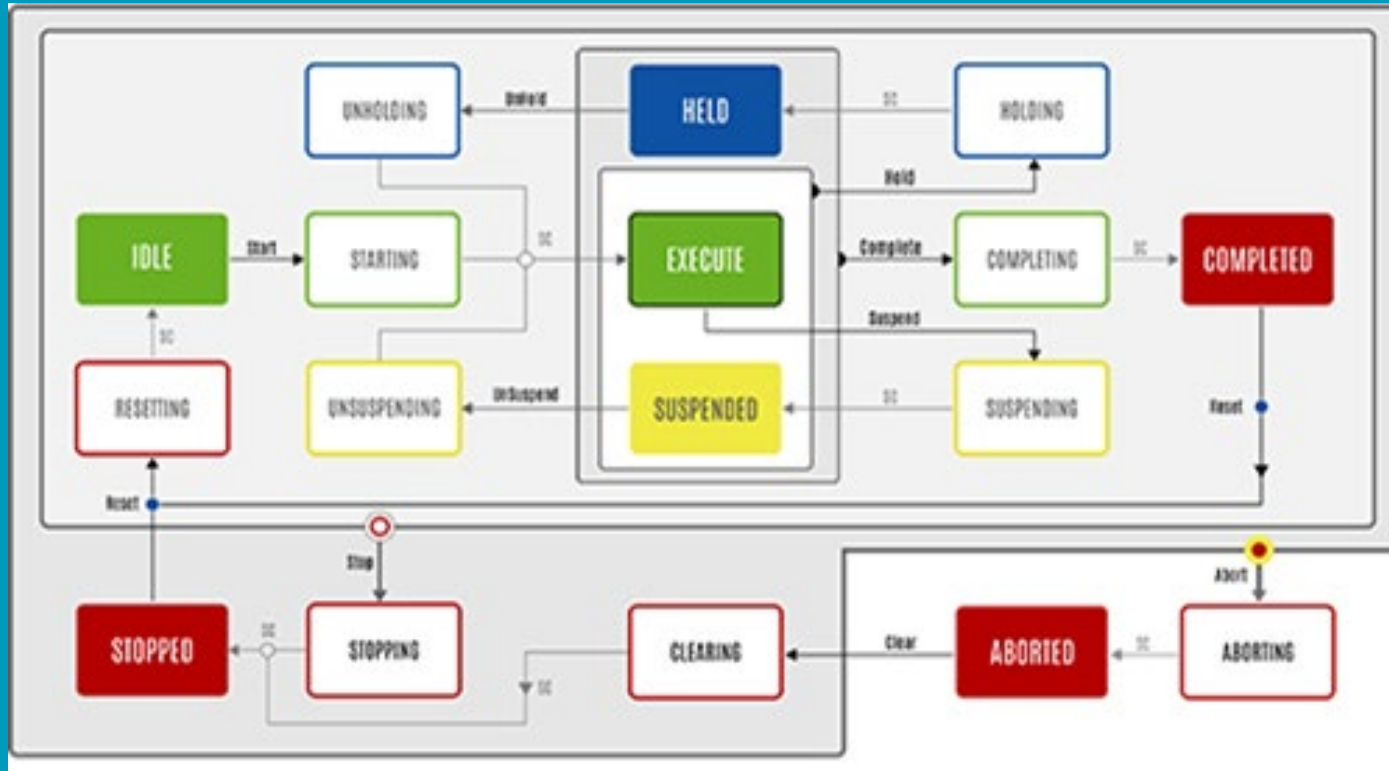
ProMach, Bobst,  
Milacron,  
Mettler-Toledo,  
etc.

## Technology providers

Rockwell,  
Siemens,  
Mitsubishi, ei3,  
Cisco, etc.

# Partner Organizations







# OMAC Workgroups



Shape the Future of  
Automation with the  
OMAC Packaging  
Workgroup (OPW)

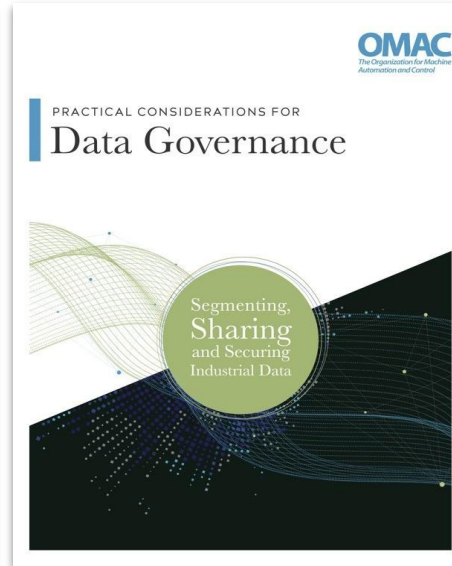
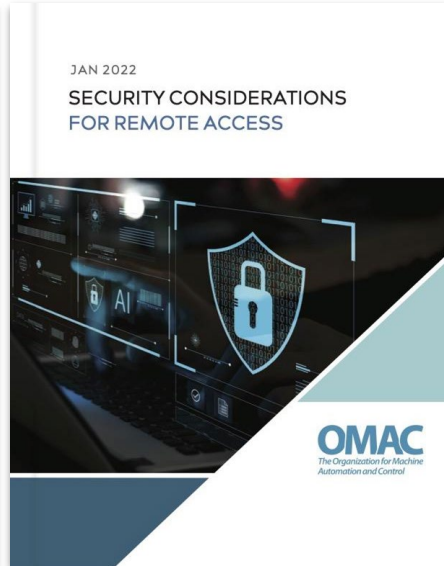


Drive Digital Twin  
Manufacturing with the  
OMAC Manufacturing  
Workgroup (OMW)



Create Remote Access Best  
Practices with the OMAC  
Digital Transformation  
Workgroup (DTW)

# Digital Transformation Workgroup



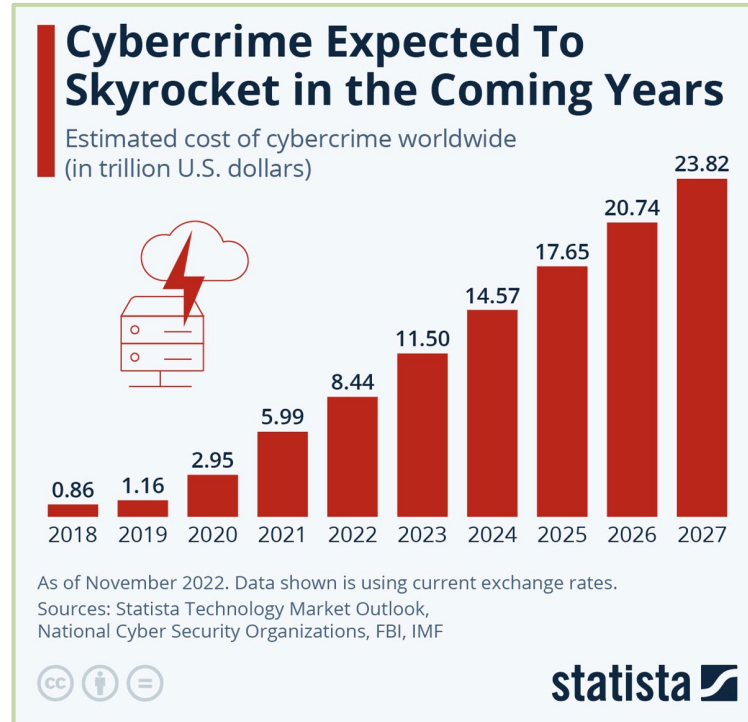


**March 12, 2024:** The European Parliament approved the Cyber Resilience Act

The Cyber Resilience Act was approved with **517 votes in favour**, 12 against and 78 abstentions

## GLOBAL CYBERCRIME DAMAGE COSTS

- \$6T a **year**
- \$500B a **month**
- \$16.4B a **day**
- \$684.9M an **hour**
- \$190,000 a **second**





- High-level, non-technical 5-page summary of the act for executive leadership
- Helps understand the scope, impact, and timeline of the new legislation
- Offers practical first steps to begin the journey towards compliance

# Products Affected by the Cyber Resilience Act



90% OF PRODUCTS

Default category

Self-assessment

**Examples:** domestic robots, smart speakers, toys, hard drives, photo editors, word processors



10% OF PRODUCTS

Class I - critical products

Self-assessment or third-party

**Examples:** IMSSs, browsers, passwords managers, anti-virus software, SIEM systems, microcontrollers, routers



Class II - highly critical products

Third-party assessment

**Examples:** operating systems, HSMs, industrial firewalls, CPUs, smartcards, smartcard readers, secure elements



# Status of the EU's CRA

Commission proposed the first draft with a two-year provision to prepare for enforcement

Final negotiations between member states and the European Parliament, followed by the establishment of the date the act goes into effect

**Sept 2022**

**Jul 2023**

**Mar 2024**

**Next Steps**

Council reached an agreement on changes to the legislation, updating the scope of products to comply, among other changes

Mapping industrial standards to legislative requirements and executing business changes to comply



# OMAC Summary for Executives



Security properties in digital products



Collaborate with experts



Security vulnerability handling procedures



Comply with EU regulations



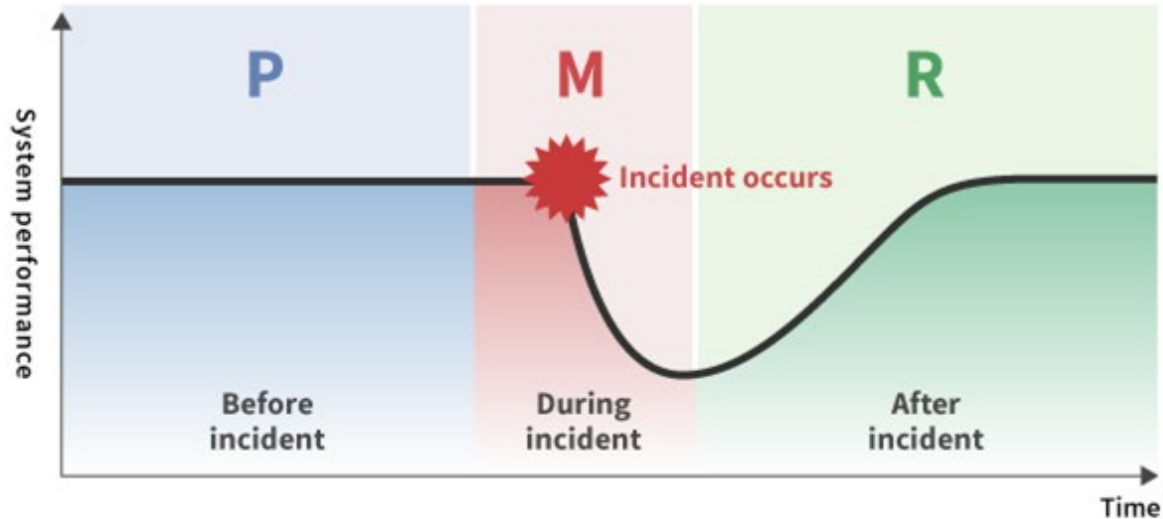
3rd party certification for critical products



Apply best practices for industrial cyber security



# Cyber Resilience



**Prepare**  
(System operation time)

Maximize system performance (extend P)

**Mitigate**  
(Losses caused by incident)

Minimize incident impact (decrease M)

**Response & Recovery**  
(Response and recovery time)

Rapid recovery (shorten R)

# Cyber Resilience



# Cyber Resilience



## STEP 1 System Hygiene

Establish a proactive and systematic process for managing standard systems hygiene



## STEP 2 Develop A Plan

Create a cross-functional team of senior management plan for cyber security events and consider hypothetical attacks



## STEP 3 Map Out Risk Profile

Study cyber patterns and attack modes to develop a tailored approach to protecting company assets



## STEP 4 Assess & Measure

Focus on rough figures, not precise estimates and avoid analysis paralysis



## STEP 5 Mitigate Risk

Invest in risk mitigation measures to protect company assets at greatest risk



## STEP 6 Cyber Insurance

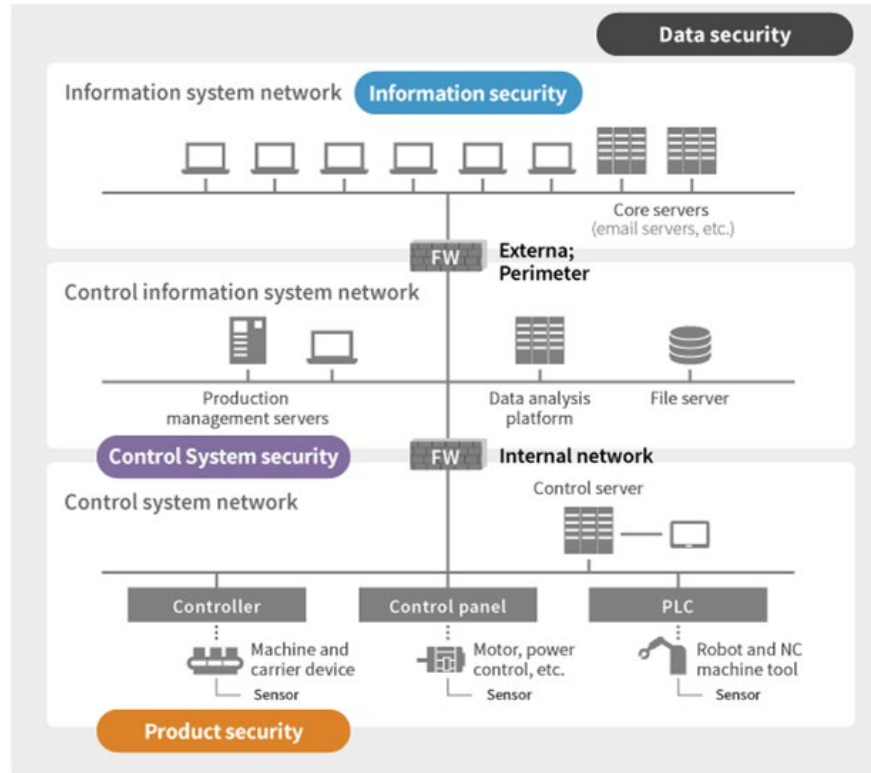
Obtain cyber insurance to provide contingent capital and specialized assistance in the event of an attack



## STEP 7 Get Started

A rough plan is okay - becoming resilient to cyber risk starts with a single step

# Cyber Resilience in Automation



Business Analyst  
CIO  
IT Architect



vs.



Plant Manager  
Control Engineer  
COO

No. 1 Priority	Confidentiality	Availability
Focus	Data integrity is key	Control processes cannot tolerate downtime
Protection Target	Windows computers, servers	Industrial legacy devices, barcode readers
Environmental Conditions	Air-conditioned	Extreme temperatures, vibrations and shocks

# Cyber Resilience in Automation



Native Compliance Tools, CSPM – Posture and Reporting

Native Monitoring and Logging, CSPM, SIEM

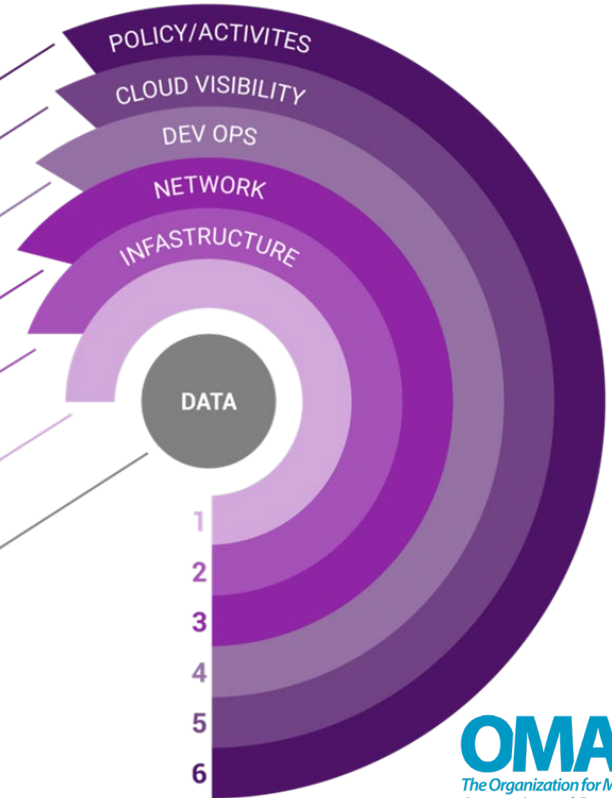
Security Automation, Application Security, Controls and Testing

Native Network and Zoning, Interconnect, Micro-Segmentation Tools, WAF

Infrastructure and Workload Security, CWPP

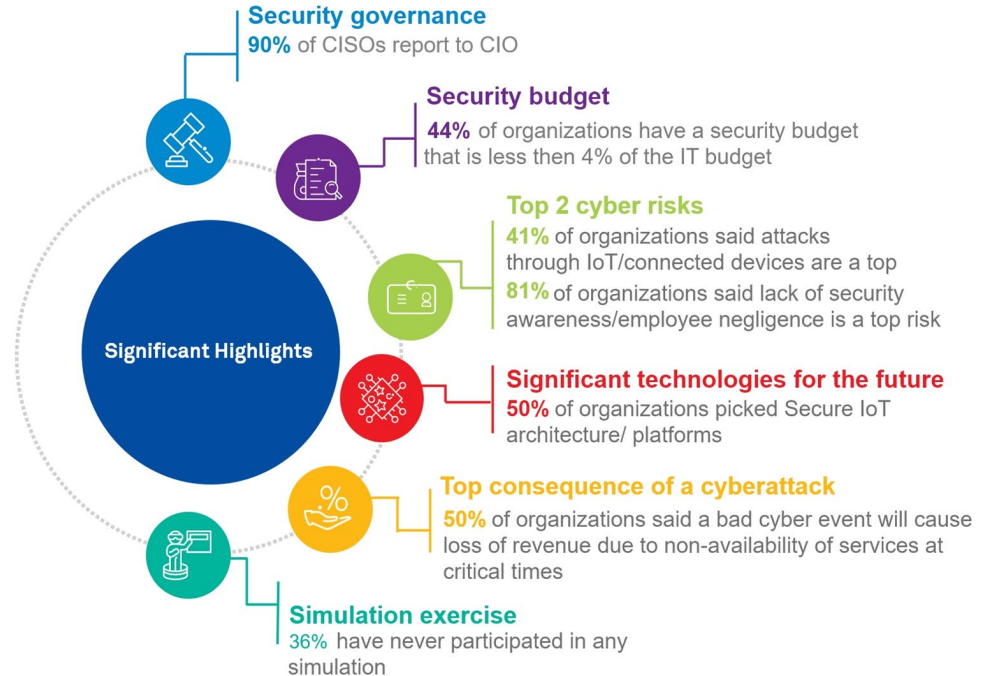
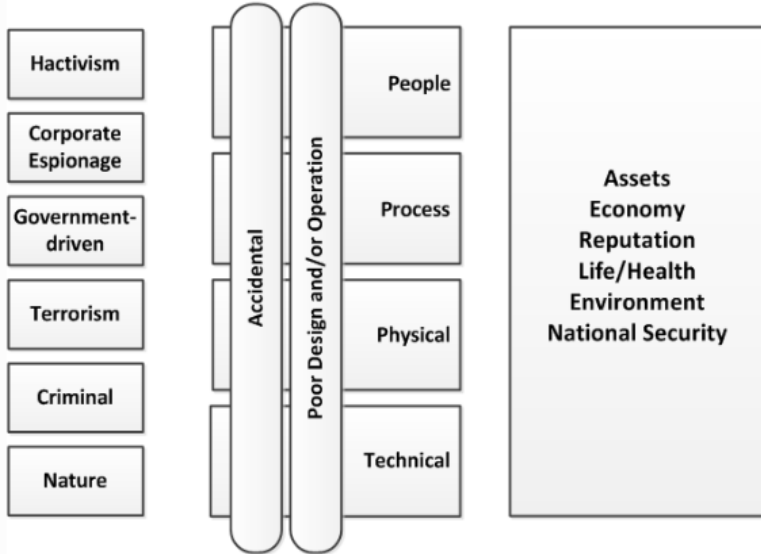
Privileged Identity Management, Cloud Access Control, Behavior Monitoring and Analytics

Data Security - Encryption, Masking, Data Loss Protection, Behavior, CASB



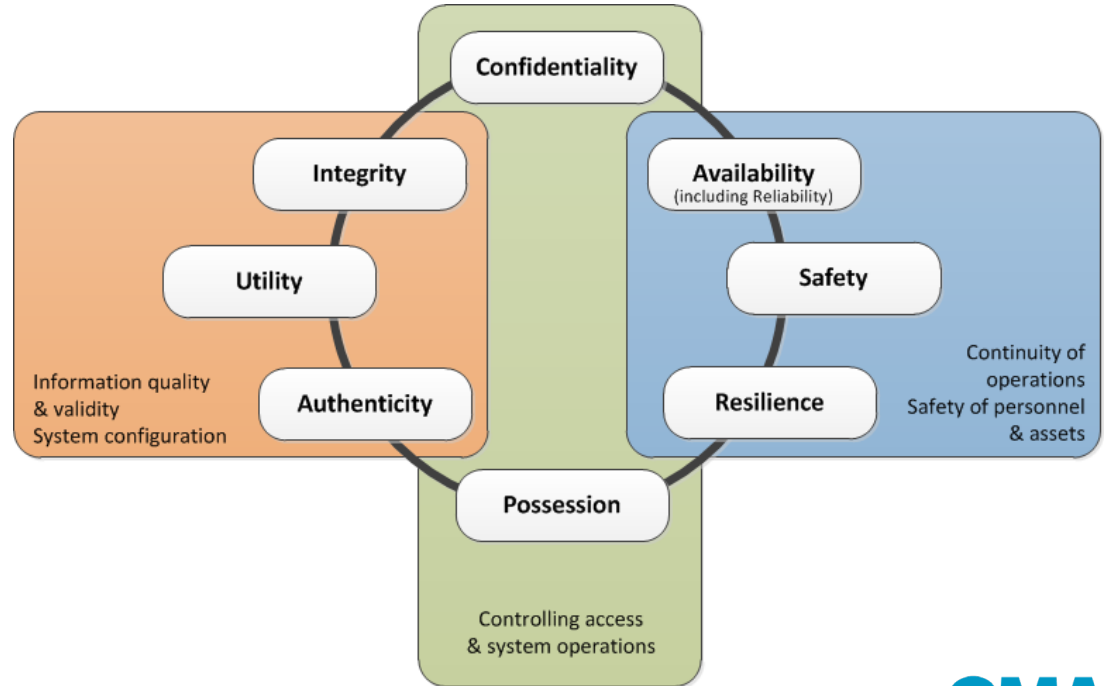
# Cyber Resilience in Automation

Threats + Vulnerabilities → At Risk

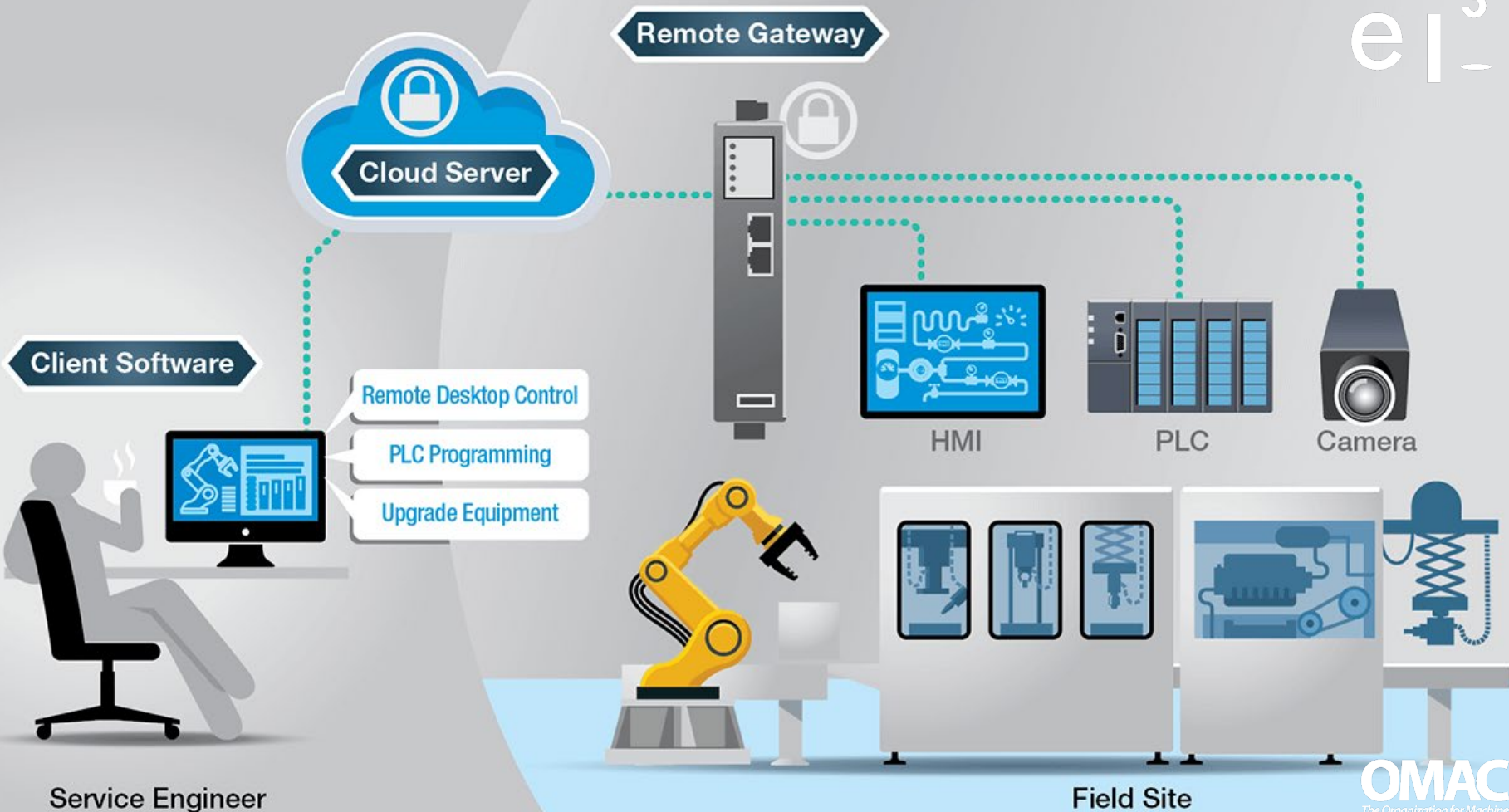


# Cyber Resilience in Automation

- Legacy systems
- Compatibility with existing IT security
- Collaboration with 3rd parties (system integrators, OEM service technicians)
- Workplace safety is paramount



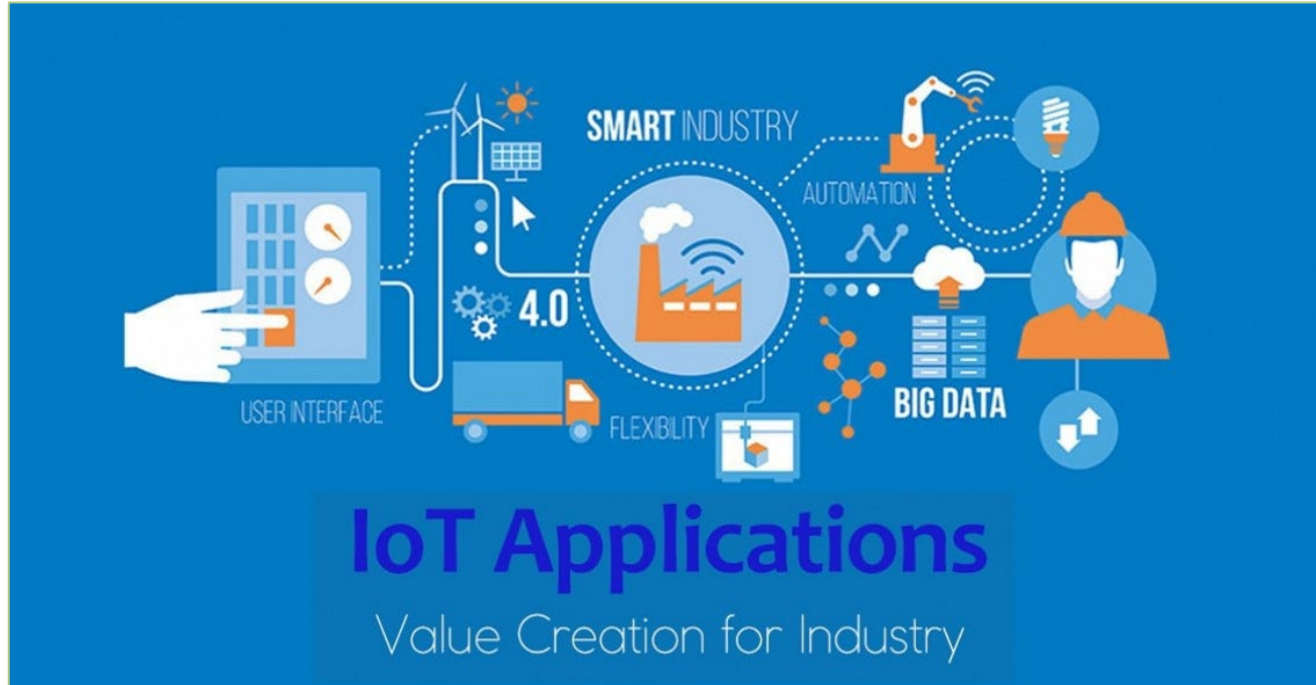


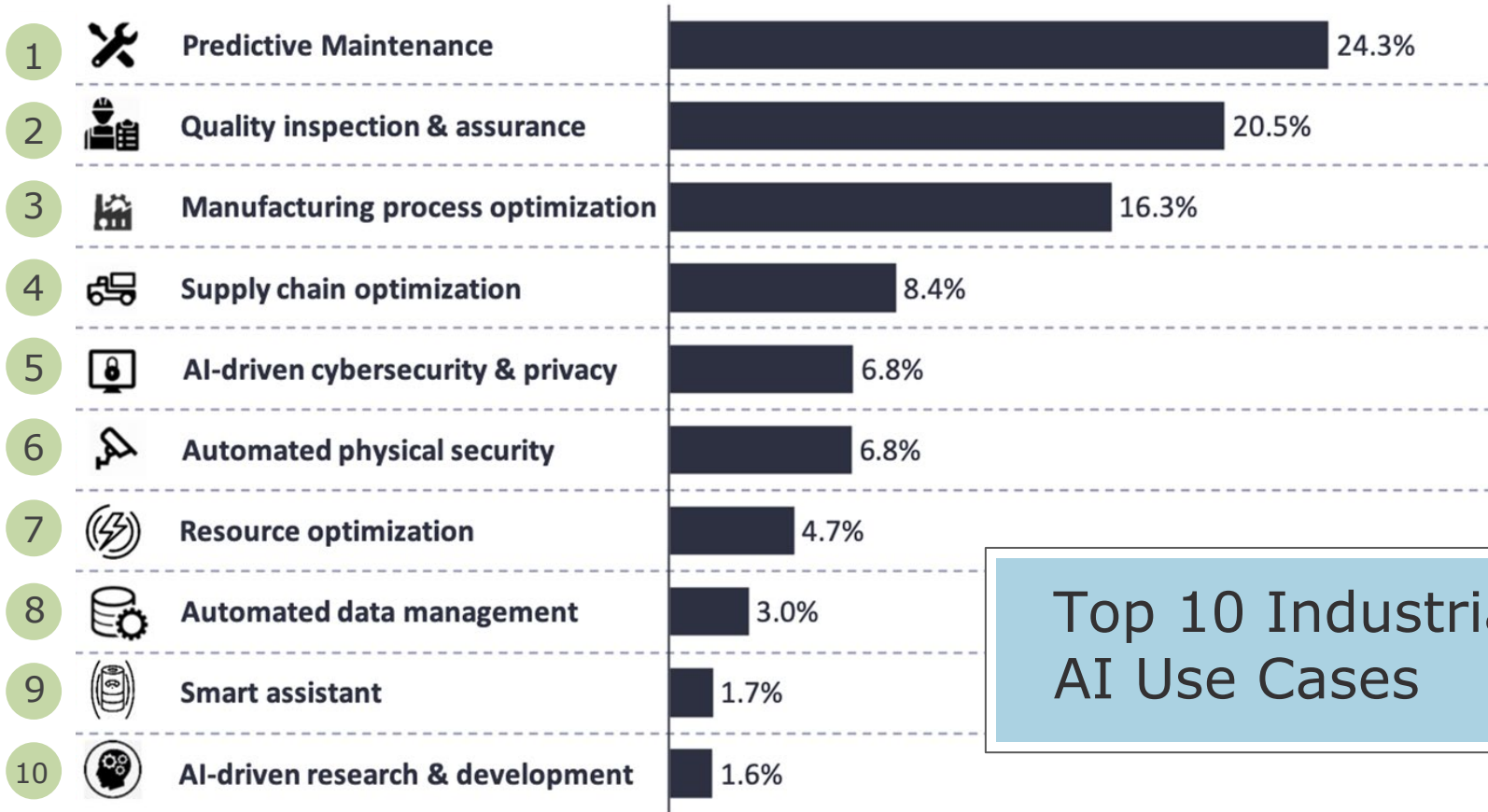


Service Engineer

Field Site

# Costs of Risk Mitigation vs. Reward





Top 10 Industrial AI Use Cases

# Start Your Cyber Resilience Journey

- ✓ Prioritize cyber resilience as a crucial business cost
- ✓ Allocate resources proportionate to the risks to mitigate them
- ✓ Seek expert guidance early in the process
- ✓ Partner with the right technology and service providers
- ✓ Conduct cyber risk assessments for products and systems
- ✓ Involve all stakeholders: Engineering/Development, IT, Production, Quality, Service, and Legal Counselors
- ✓ Apply best practices in remote access, cybersecurity for industrial systems, and data governance

BOOSTING INNOVATION AND  
SUSTAINABILITY WITH AI



Thank you!

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