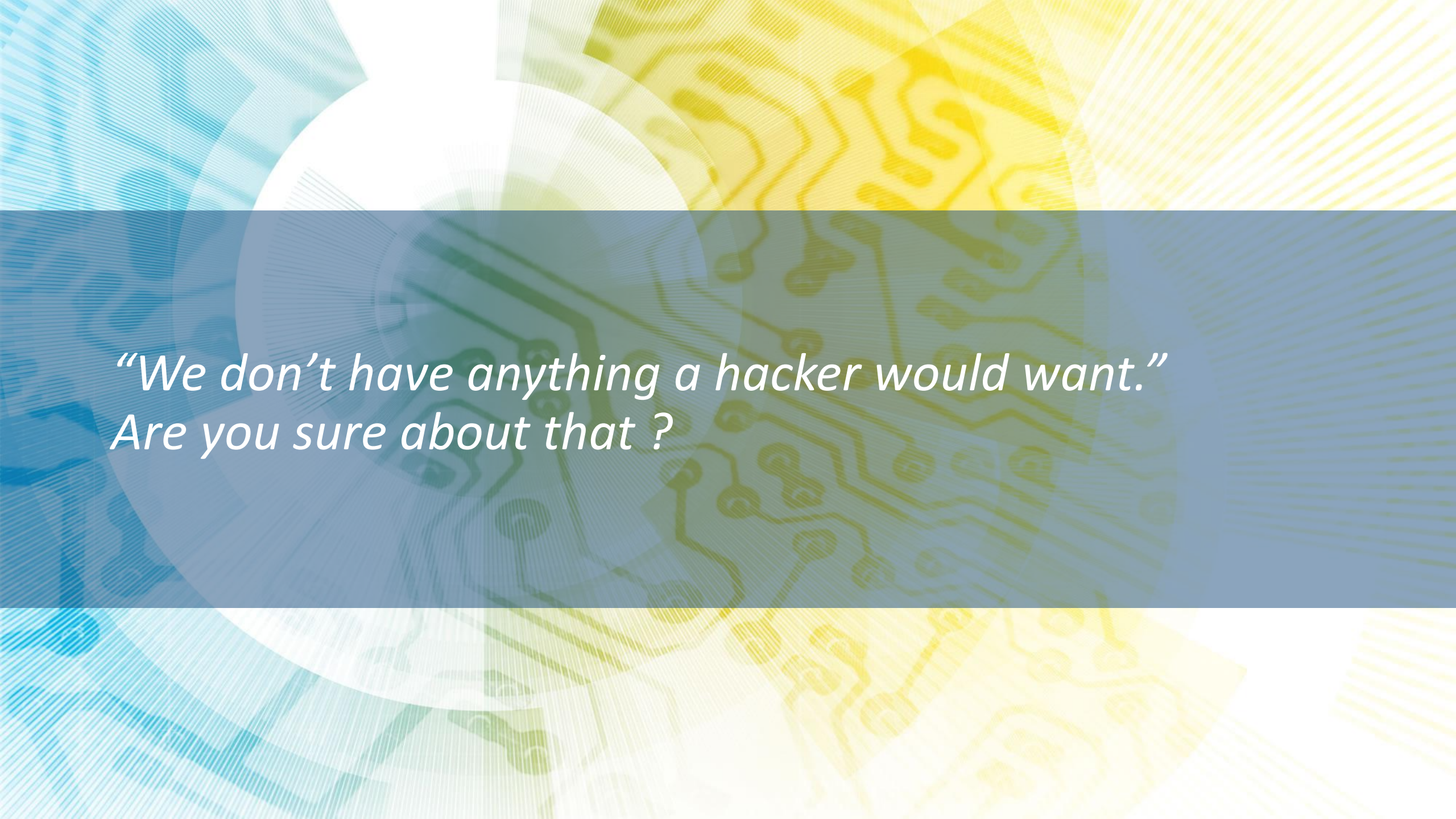


You think your Cybersecurity is complete? Here's a few reasons why you're probably wrong.

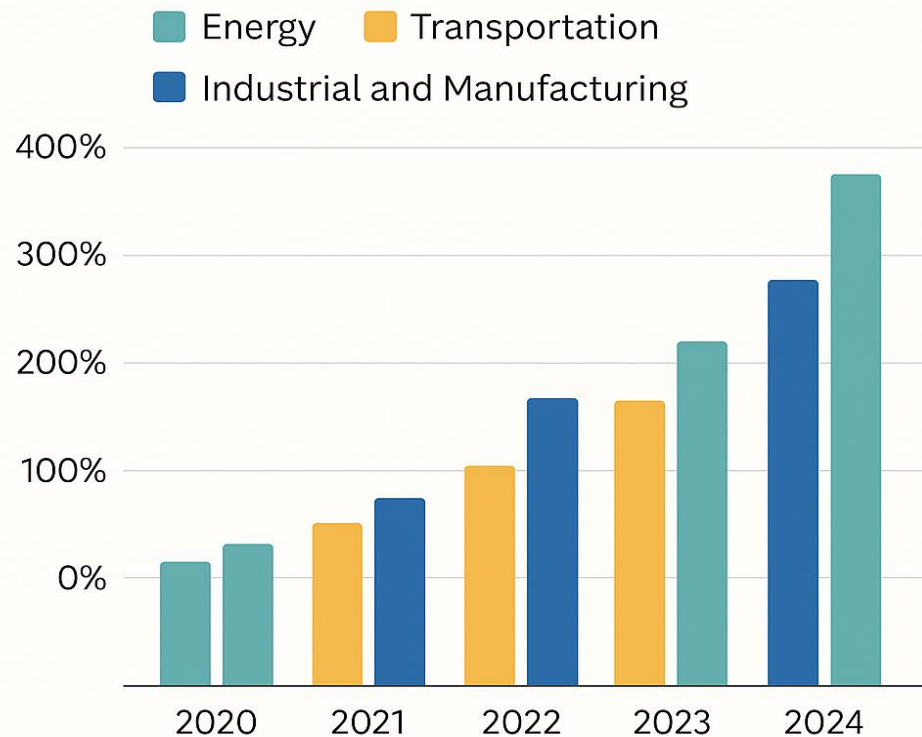
Ontario Public Transit Association

September 24th, 2025



*“We don’t have anything a hacker would want.”
Are you sure about that ?*

Cyberattacks on Critical Infrastructures



** Normalized data. 2020 Energy Sector data used as baseline*

Energy Sector

- 2020: Baseline
- 2021: +100% (double from 2020)
- 2022: +100% (double again from 2021)
- 2023: +30% from 2022
- 2024: +70% from 2023

Transportation Sector

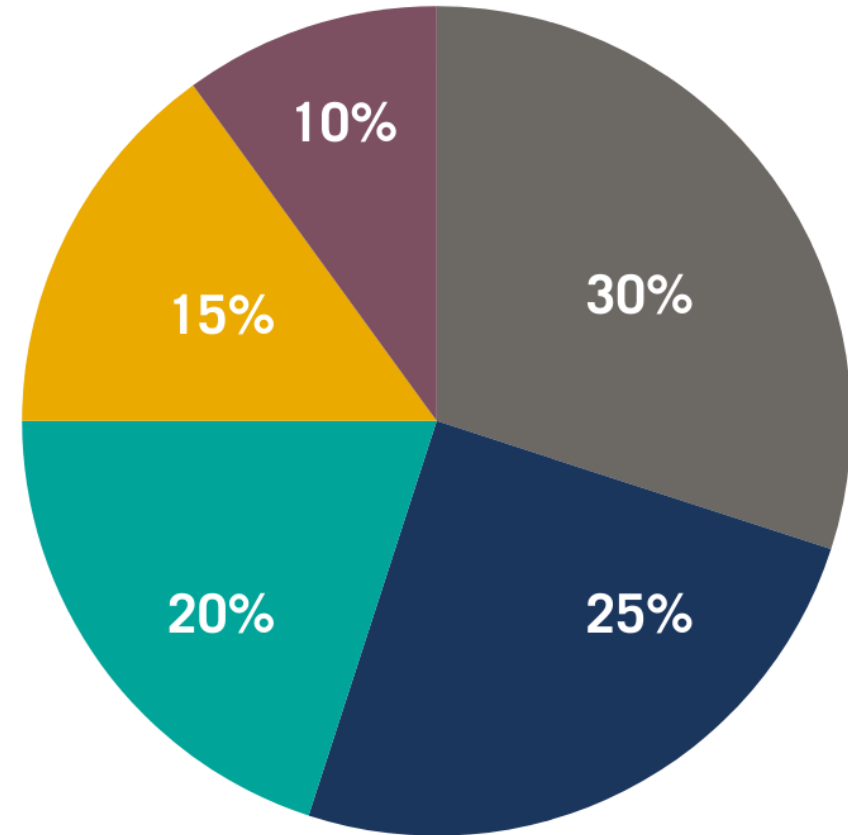
- 2022: 14 of 16 critical sectors impacted (transportation included; no specific count)
- 2023: TSA introduces new cyber regulations (contextual indicator, not numerical)

Industrial/Manufacturing Sector

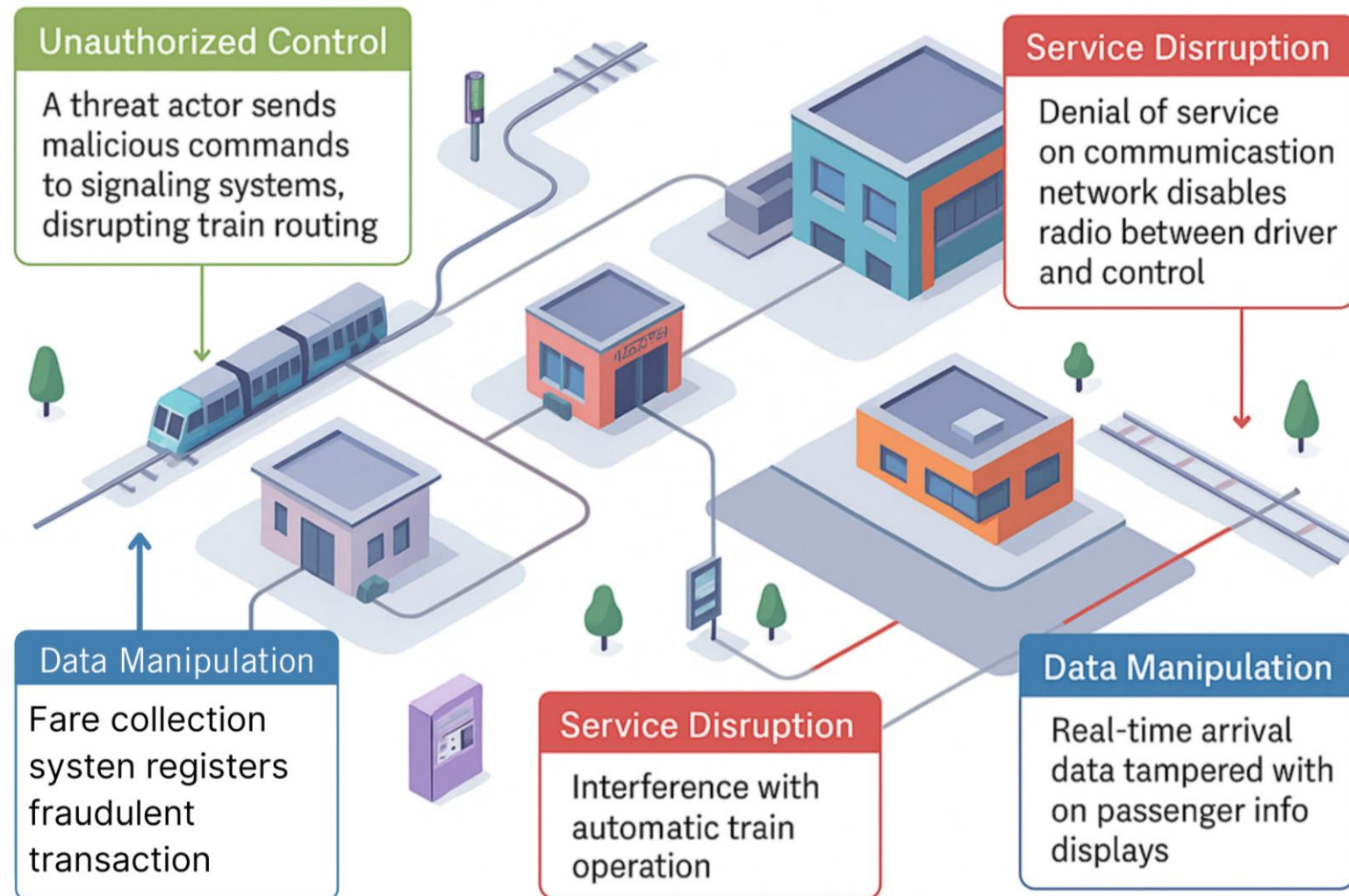
- 2022: Nearly doubled ransomware attacks
- 2024: 30% of all reported incidents from manufacturing

Cyberattacks Types

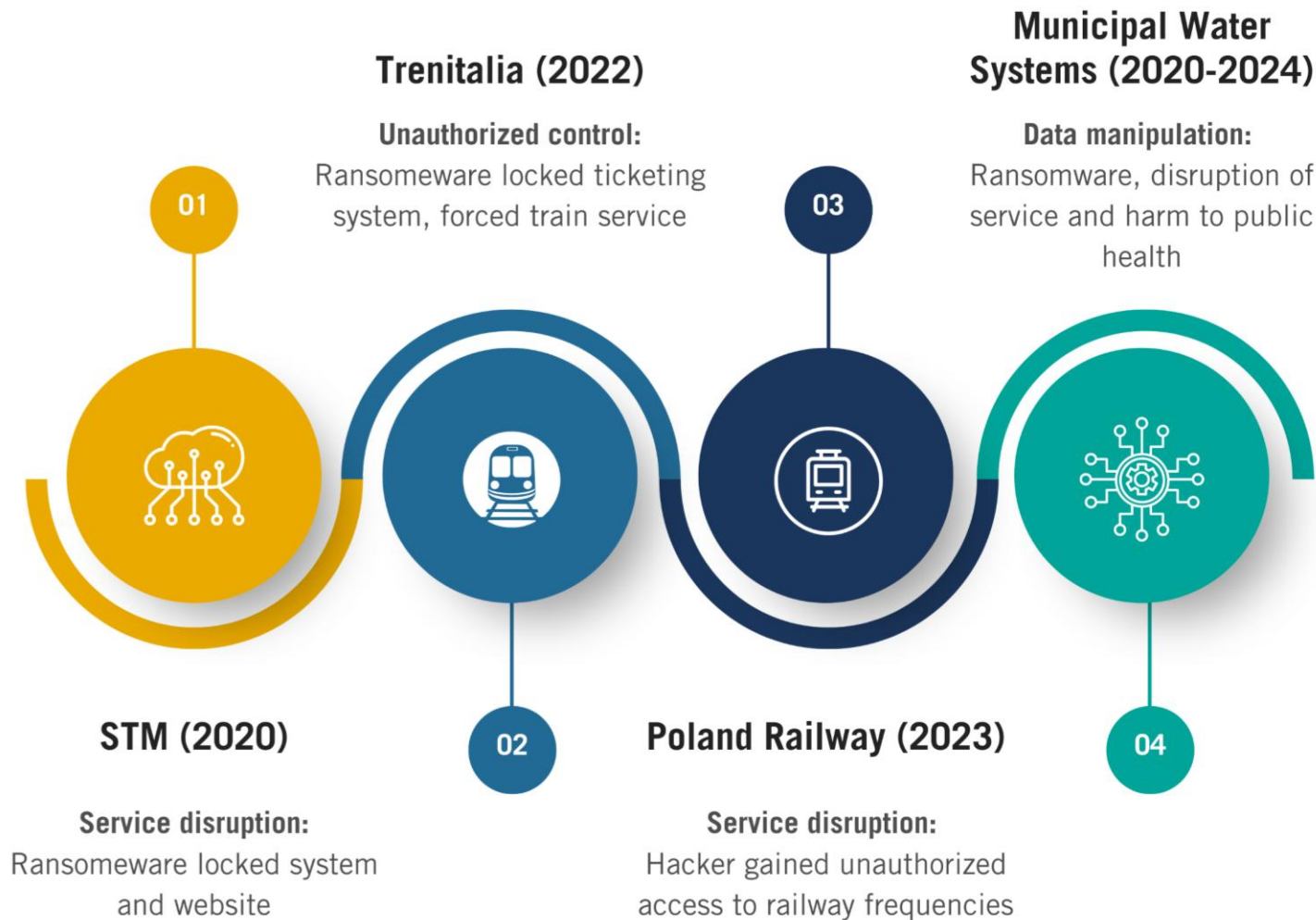
- RANSOMWARE ATTACKS
- UNAUTHORIZED ACCESS AND CONTROL
- DATA BREACHES AND INFORMATION THEFT
- DENIAL OF SERVICE (DOS) AND DISRUPTION ATTACKS
- OTHER ATTACK VECTORS



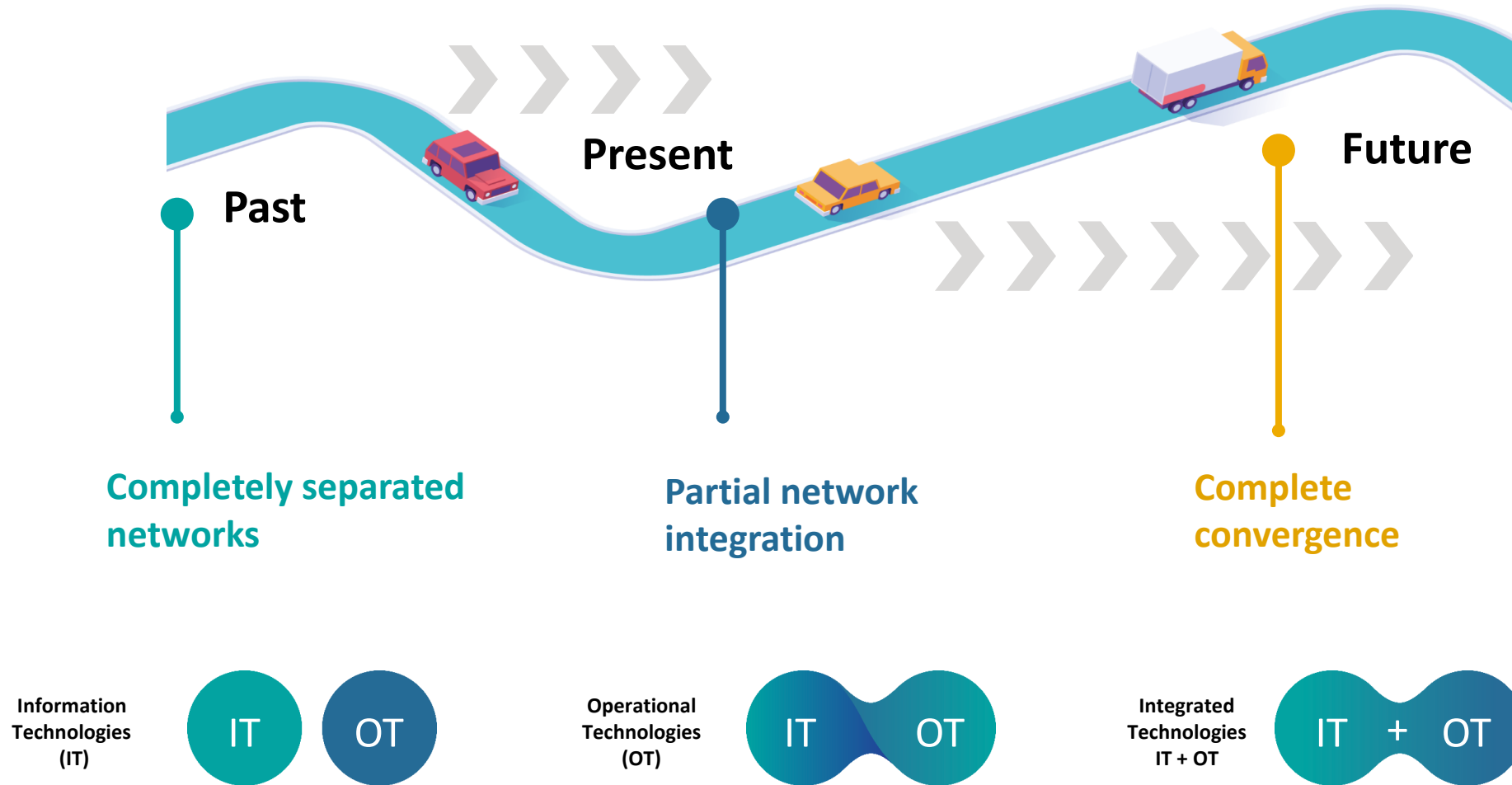
Public Transit Cyberattacks Scenarios



Public Transit Recent Cyberattacks



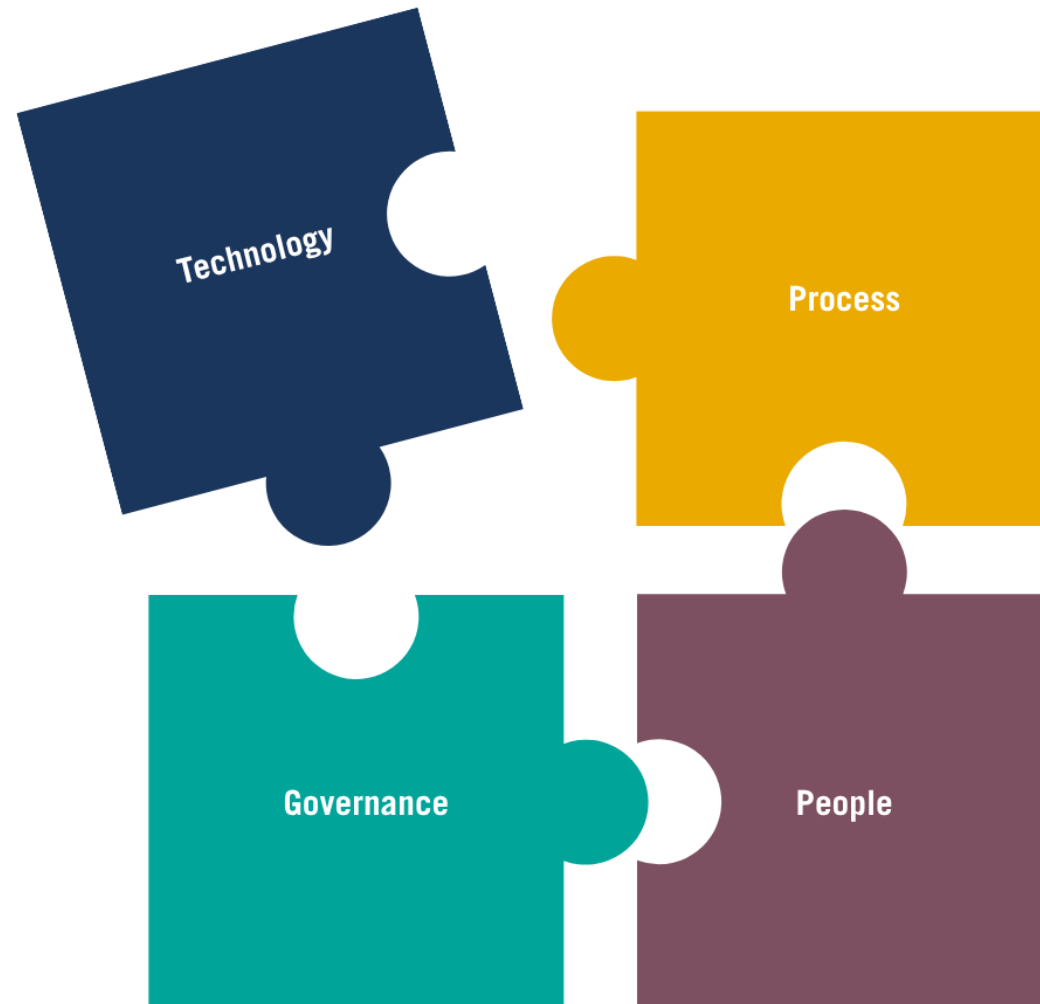
Evolution of Information and Operational Technologies

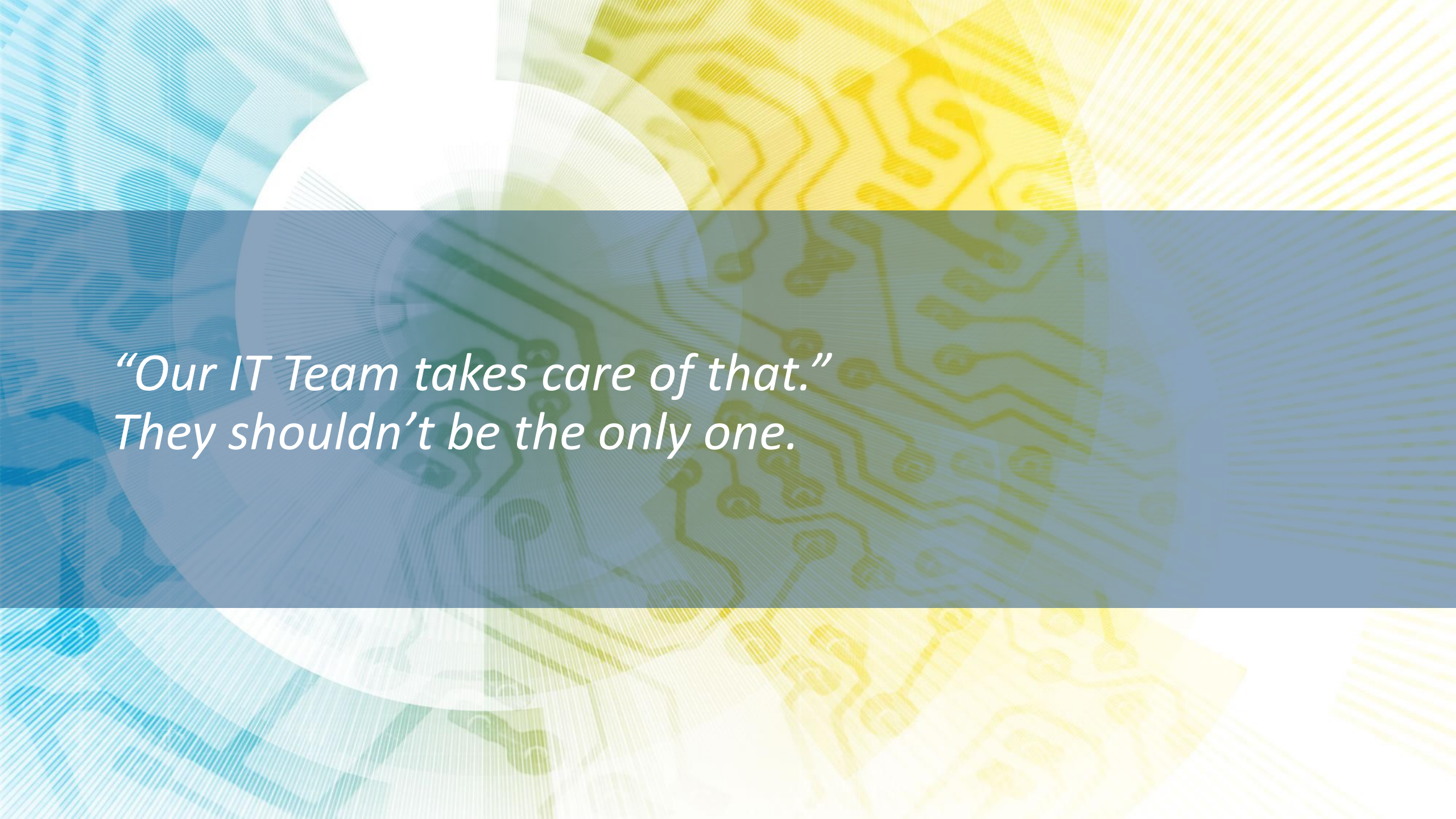




*“We have a sophisticated security suite, so we’re good.”
But are you ?*

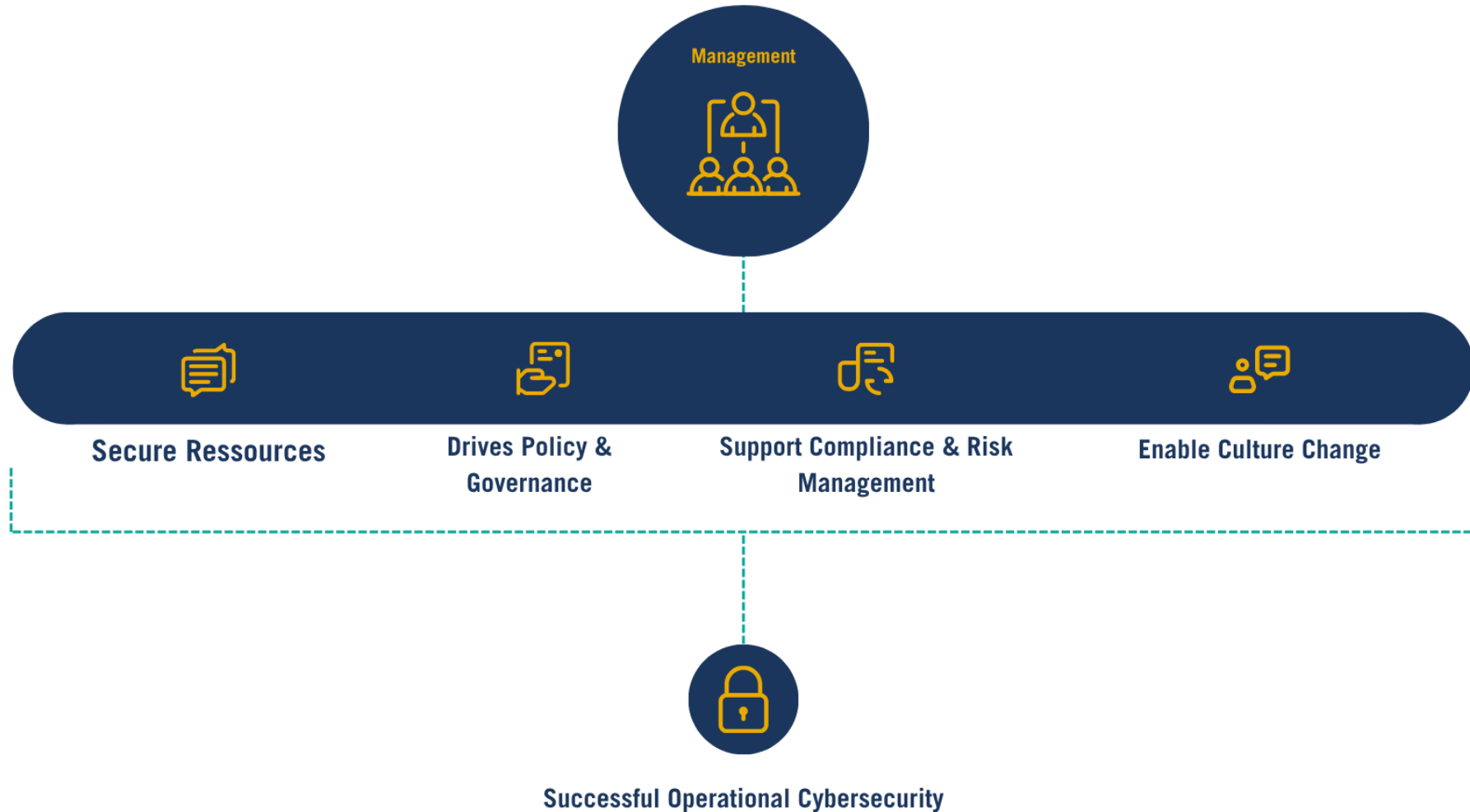
Cybersecurity Pillars



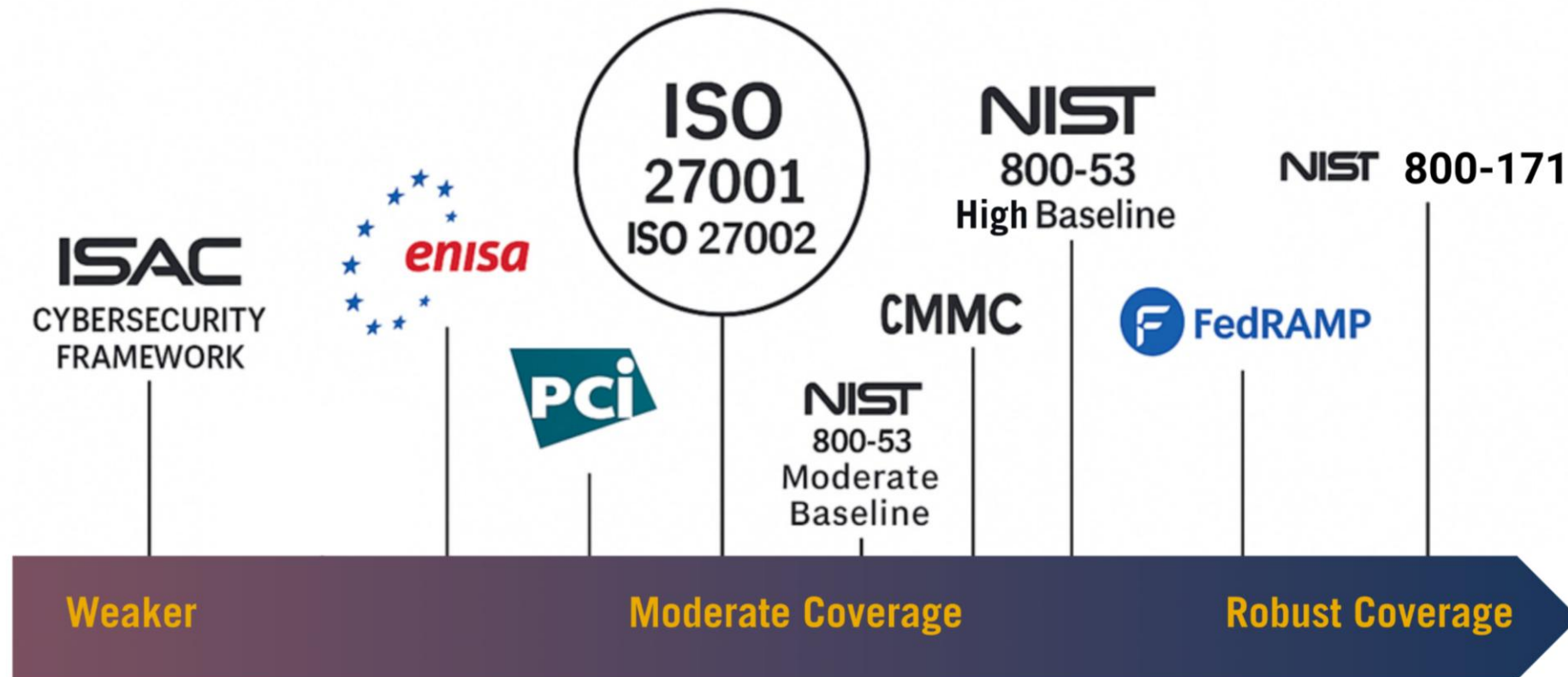


*“Our IT Team takes care of that.”
They shouldn’t be the only one.*

Management Endorsement is Essential



Common Cybersecurity Standards



ISO-21434 : Road Vehicules



CONCEPT:
Item definition



DECOMMISSIONING:
Lifecycle-based
approach



MAINTENANCE:
Cybersecurity
Maintenance Plan



TARA:
Cybersecurity
Validation Report



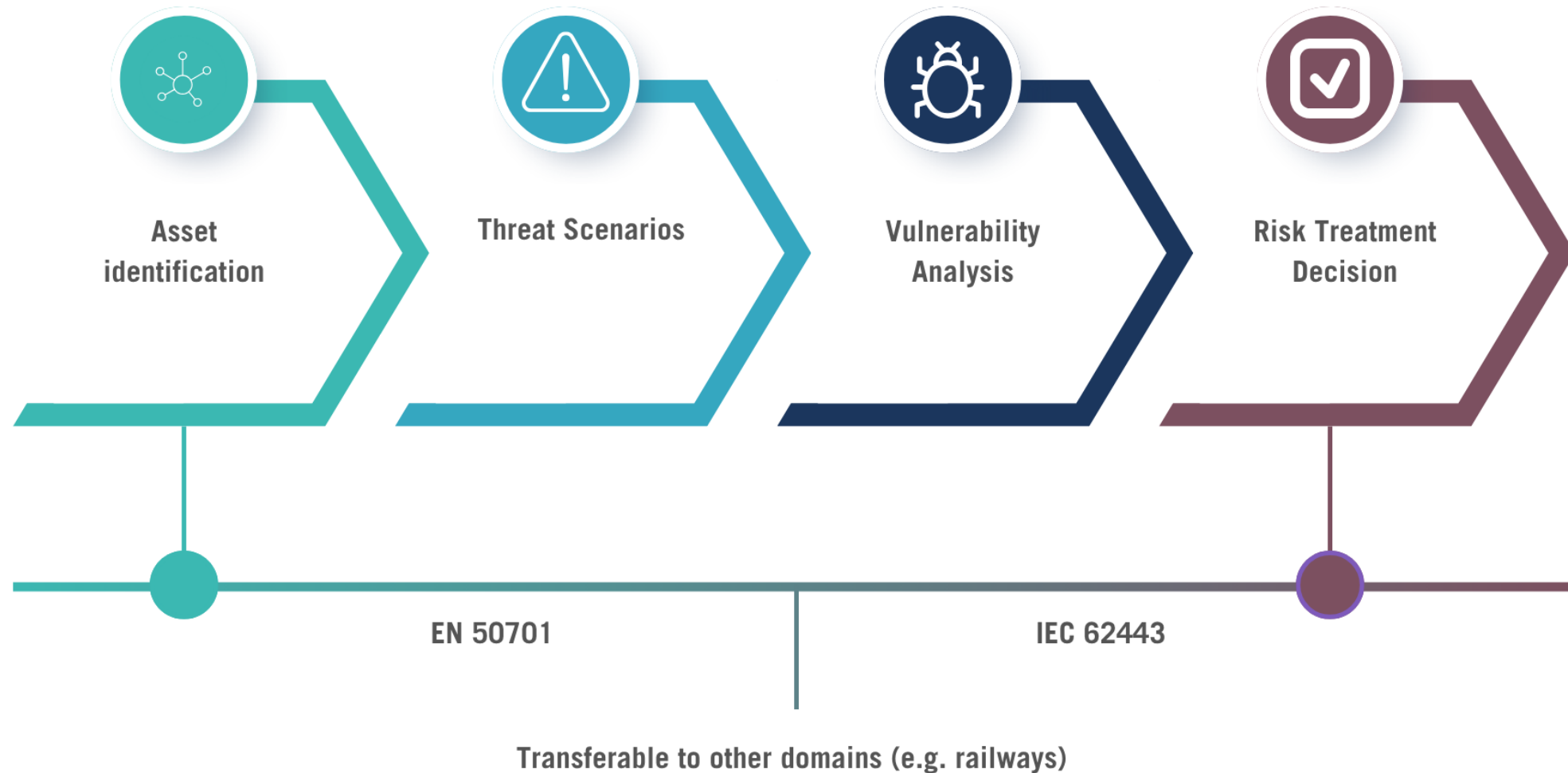
OPERATION:
Cybersecurity Incident
Report Plan



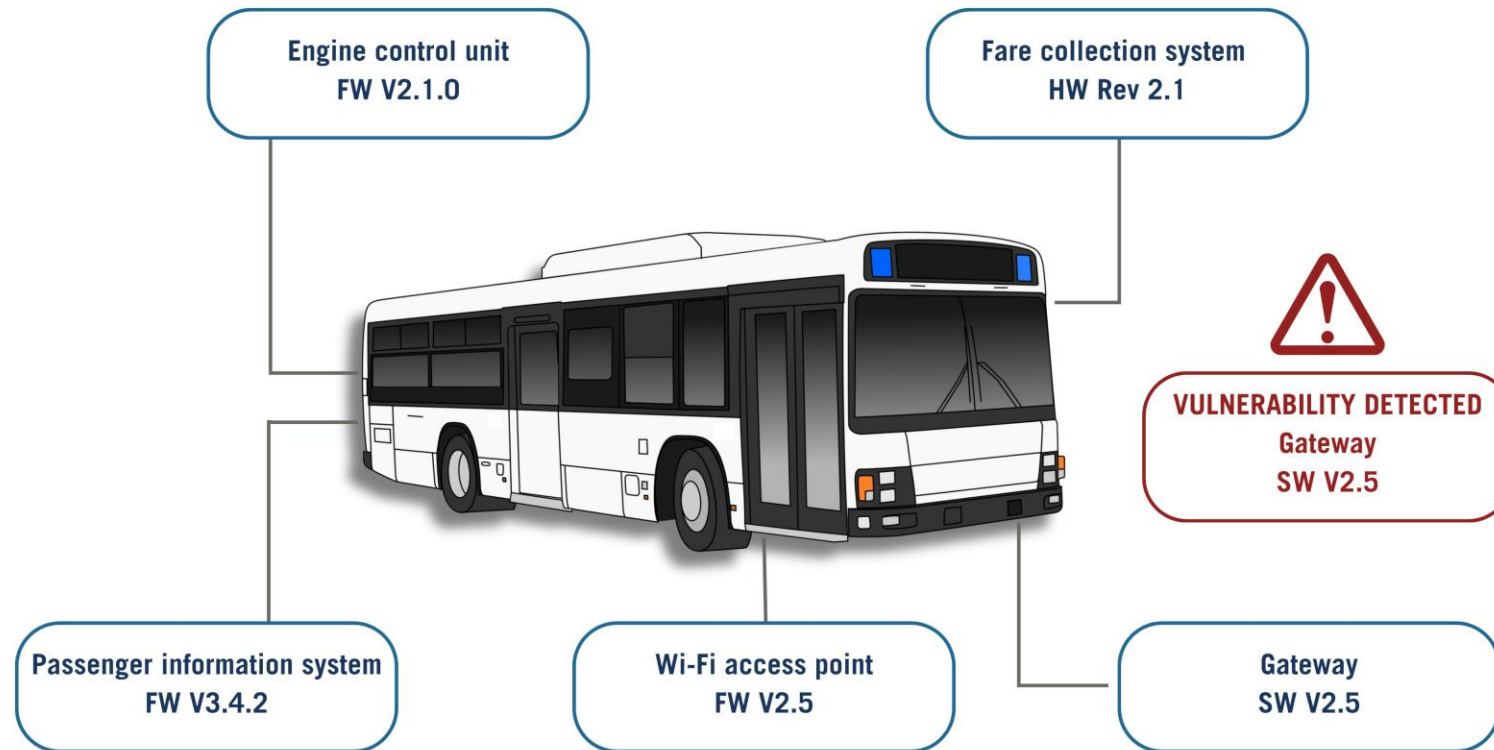


*“We have performed penetration testing on our system,
so we don’t need extra policies.”*

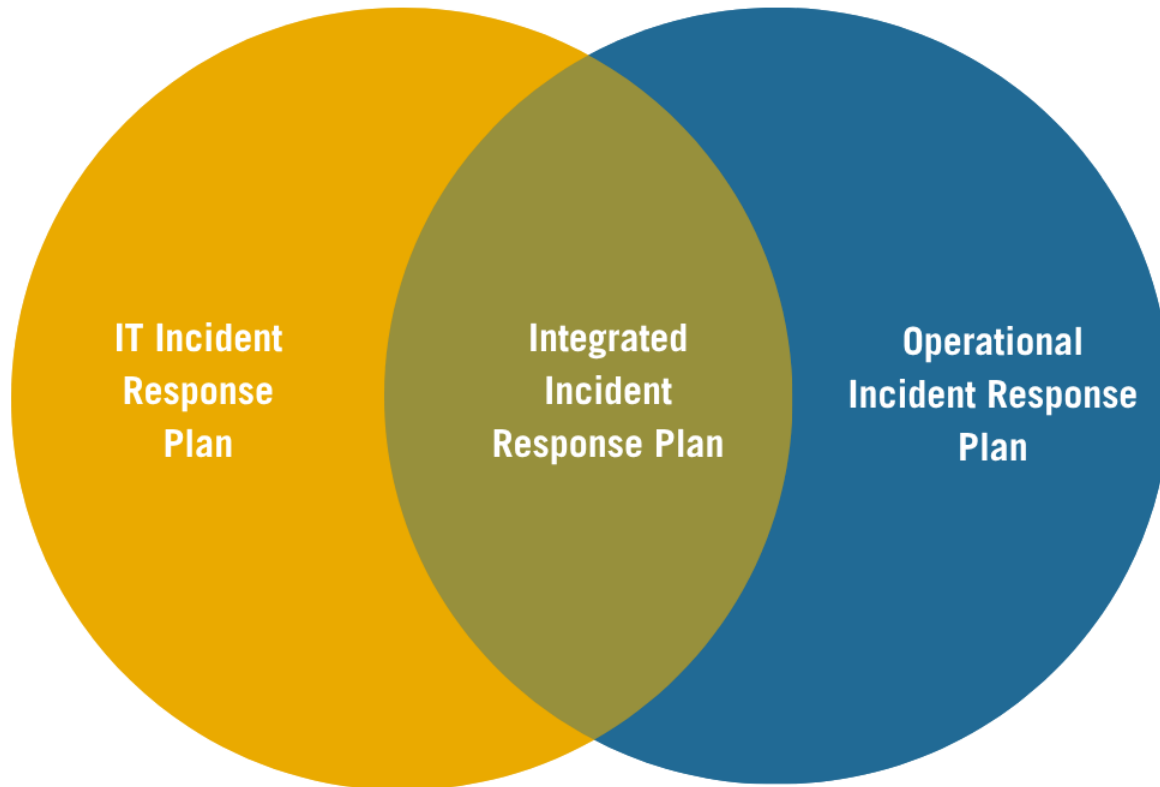
Threat and Risk Assessments



Vulnerability Management



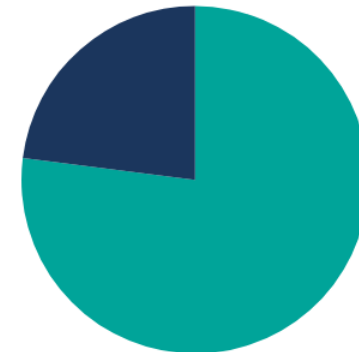
Incident Response Plans



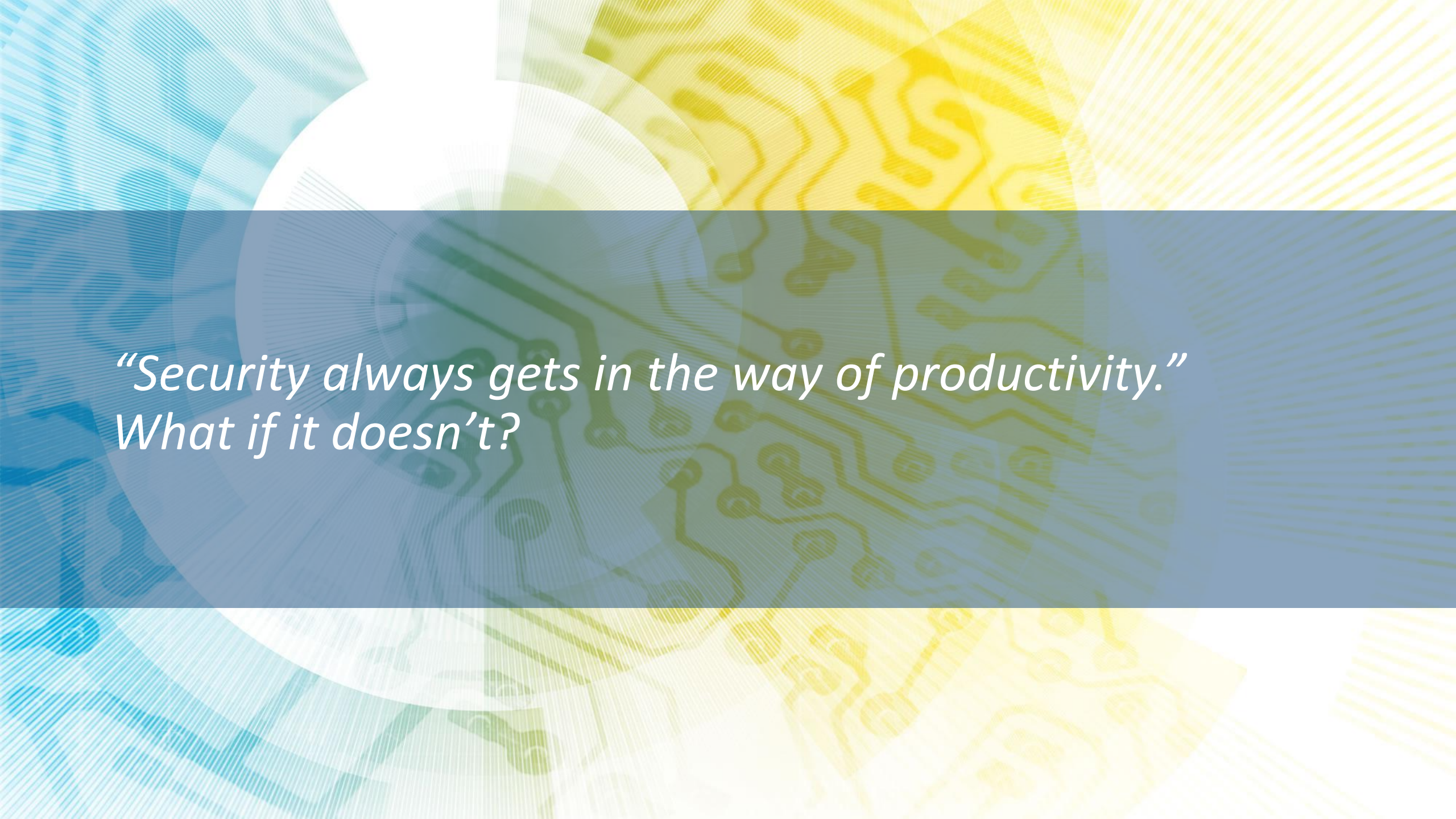
- Asset-specific response
- Engineering team roles
- Customer notification obligations
- Contractual compliance

● No Incident Response Plan: 77%

● Incident Response Plan : 23%

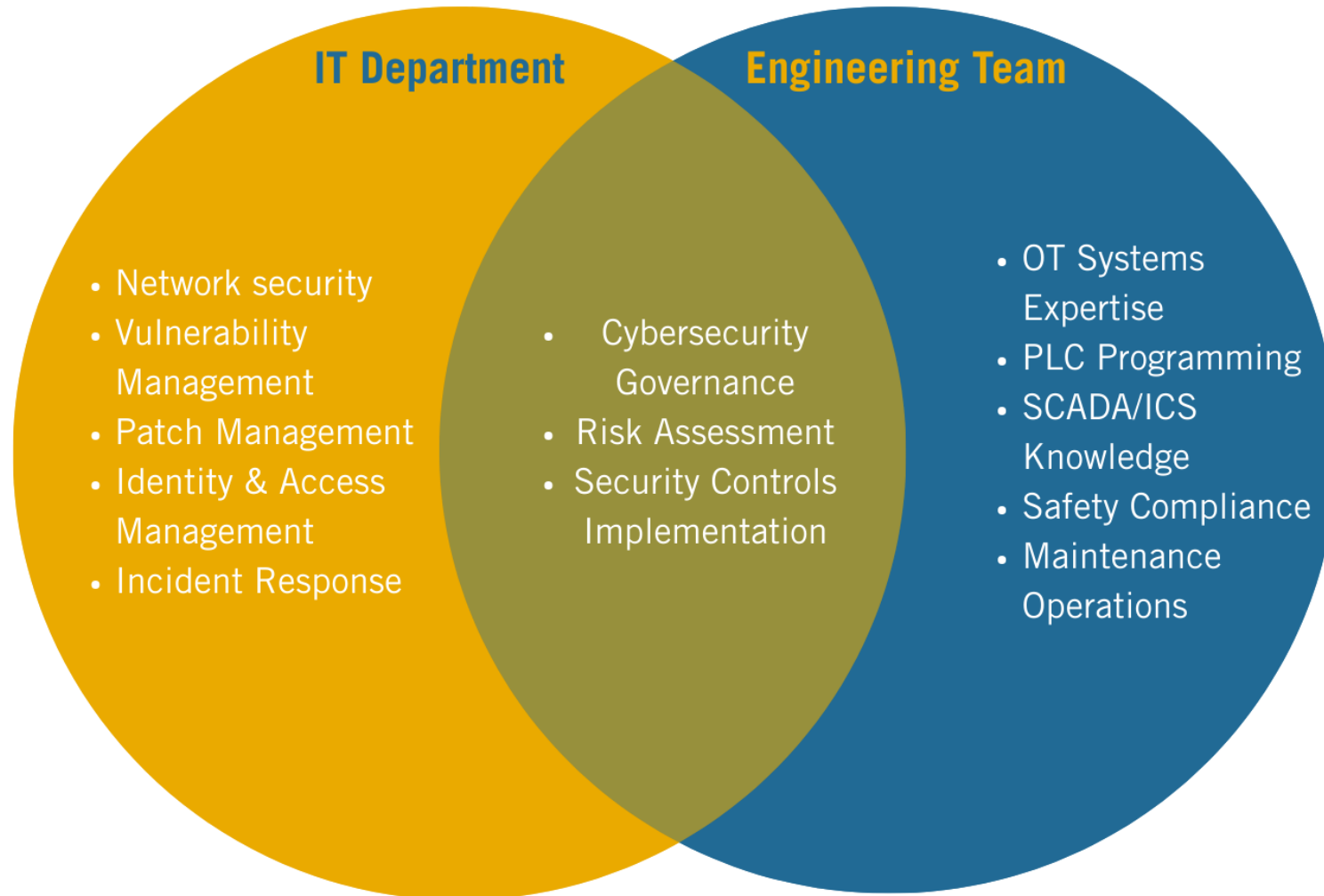


Source: IBM Security and Ponemon Institute

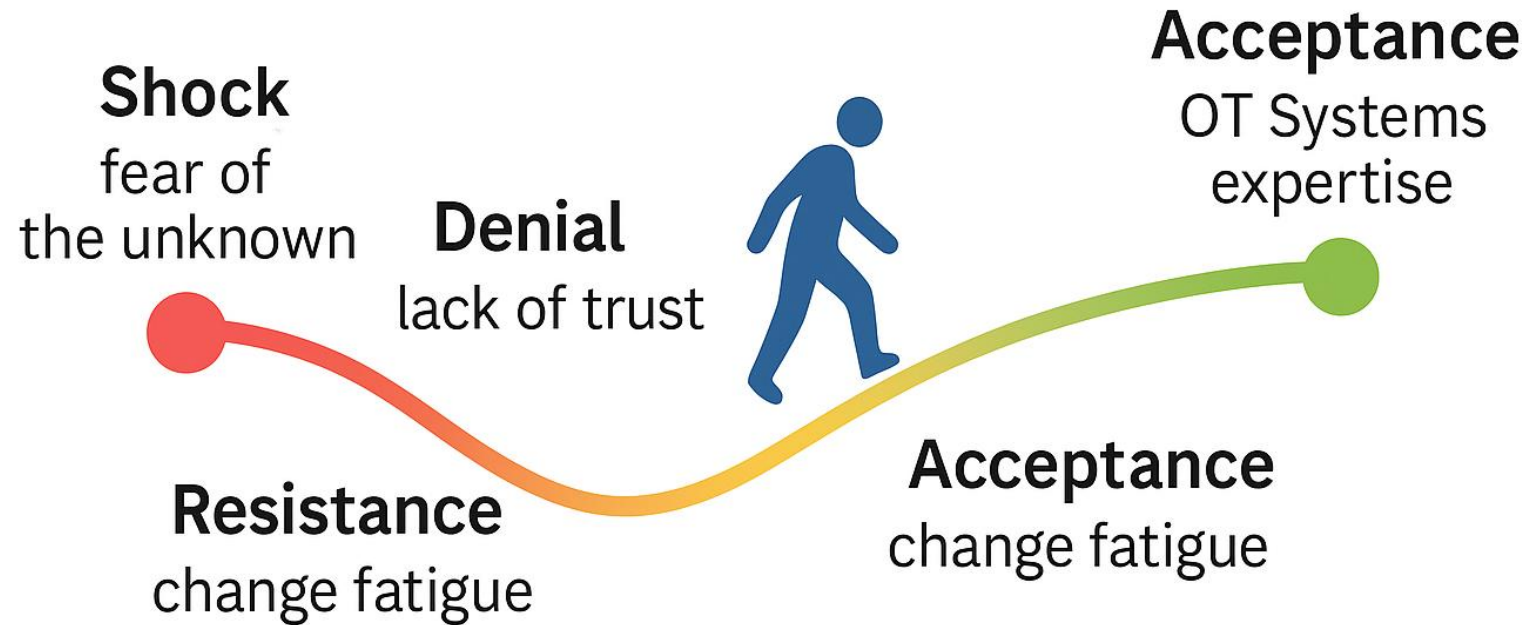


*“Security always gets in the way of productivity.”
What if it doesn’t?*

Collaboration is Key

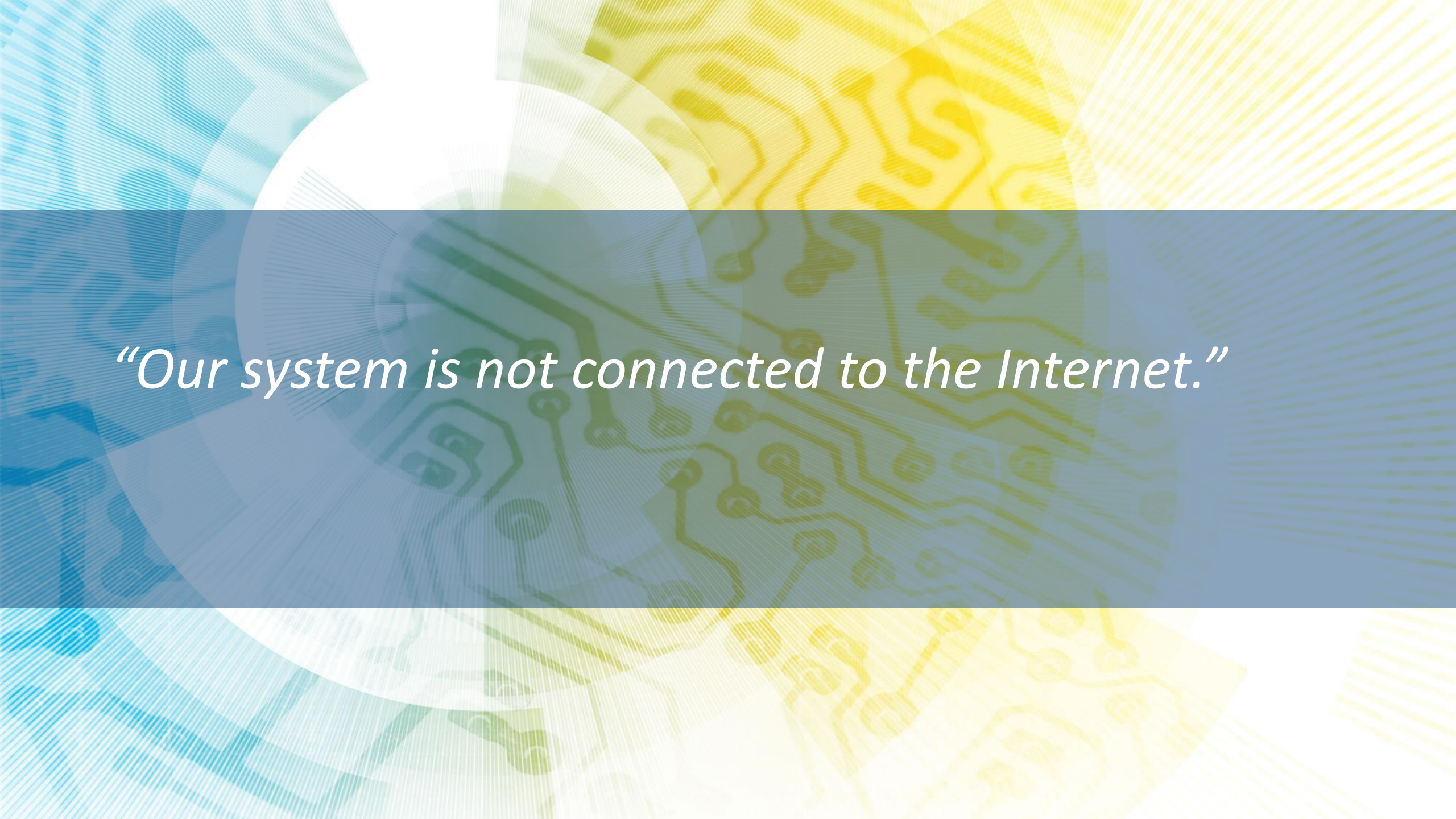


Culture Change



Training and Awareness





“Our system is not connected to the Internet.”

Not All Technology





*“I didn’t know we had so many gaps until now.”
That’s where we can help.*

Key Take aways

- **Cybersecurity is non-negotiable**

Establish robust defenses to protect against evolving cyber threats.

- **Technology is not enough**

Adopt a holistic, organization-wide approach to resilience.

- **Leadership commitment is critical**

Ensure active engagement from executives and management.

- **Operational cybersecurity is unique**

Address real-time risks and business continuity separately from traditional IT security.

- **Policies & processes are foundational**

Implement clear, enforceable frameworks to support security initiatives.

- **Change management is essential**

Recognize that employee adaptation requires time, empathy, and support.

- **Success requires shared responsibility**

Foster collaboration and accountability across all levels of the organization.



Thank you, any questions?

Contact us: sales@cysca.com