



Securing CPG for the future

Cybersecurity solutions and services



se.com/cybersecurity-services

Life Is On

Schneider
Electric

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Challenges & solutions



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Dedicated to help facing the challenges of the CPG industry



Changing consumer demands

Need to manage an important number of SKUs.



CapEx and OpEx constraints

Need to extend life of aging equipment.



Climate change and resource scarcity

Need to optimize the use of raw materials, energy, and water.



Consumer trust and regulation

Need more product information, and traceability.



Changing workforce demographics

More difficult to attract and retain talent.

Challenges & solutions



Digitization priorities



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Improving flexibility, traceability and sustainability of your operations from farm to fork



Improve operations

Transform your operations to improve **efficiency** and **yield**, while increasing **flexibility** to boost your competitiveness.

40% Flexibility increase
UP TO



Maximize asset value

Reduce time to market and maximize asset's **reliability**, **performance** and **lifetime**, leveraging the power of digital twins, IoT & analytics.

30% CapEx savings
UP TO



Protect environment

Meet your **energy** and **sustainability** goals and reduce costs with smart **energy**, **water** and **waste** management for your facilities.

20% Energy cost reduction
UP TO



Manage quality and compliance

Ease **food safety** compliance and increase **traceability** to preserve brand equity and shareholder value.

99% Data collection time reduction
UP TO



Empower workforce

Provide workers with **mobility**, **guidance** and **collaboration** for improved decision support in complex CPG environment.

2x Faster incident reduction
UP TO

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Increase efficiency, traceability and sustainability across the whole CPG value chain...

Leveraging digital transformation with Schneider Electric solutions




Digital engineering

Cut time, cost, and minimize risk of capital project engineering.

- Digital Twin Creation
- 3D Design
- Building Information Modelling
- Electrical CAD
- Machine Simulation




Asset performance

Maximize return on asset investment.

- APM Assessment
- Asset Information & Analysis
- Asset Maintenance
- Advanced Process Control
- Artificial Intelligence
- Modernization Services




Workforce empowerment

Improve knowledge, performance & efficiency of plant workers.

- Operator Training Simulator
- Operator of the Future
- Workflow Management
- Knowledge & Continuous Improvement
- Management of Staff Scheduling




Food safety & traceability

Ensure quality & compliance while increasing trust across the product life cycle.

- Food Defense
- Cybersecurity**
- Plant Traceability
- Label Assurance
- Track & Trace
- Digital Calibration
- Food Safety Management




Energy & sustainability

Meet your company sustainability goals.

- Strategic Energy Sourcing
- Sustainability & Energy Consulting
- Sustainable Access to Energy
- Energy as a Service

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We help on every step of the value chain

Efficient facilities
Safer, more available,
and greener resources



Agile manufacturing
Boost manufacturing
flexibility & efficiency



Resilient supply chain
Manage complexity and
improve visibility

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... enabled by transversal digital transformation capabilities



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Food safety & traceability

Ensure compliance and trust across the product life cycle



Manage your suppliers

Get visibility into your entire suppliers' network, check their compliance and identify your risks

Build a **credible** value chain



Digitize your compliance

Automatically document evidence of proper operation using digital tools and workflows

UP TO 75% time reduction in compliance



Reinforce your CPG defense

Protect your facilities from any unauthorized physical or cyber access

Achieve best-in-class **defence in depth**



Monitor downstream logistics

Track and trace products and critical control points to guarantee product safety and protect your brand image.

UP TO 100%



Achieve end to end traceability

Increase visibility across your entire Value Chain, from raw materials to finished goods to improve transparency and trust for your end-consumers.

Ensure **consumer trust**

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Ensure compliance and trust across the product life cycle

CPG safety & traceability

End to end traceability
Increase visibility across your entire supply chain to build a sustainable value chain

Raw Materials

Products

Digitize your compliance
Automatically document evidence of proper operation using digital tools and workflows



Fields & Farm



Cooperative



Manufacturing



Distribution



Retailer



Consumers

Suppliers' information management
Get visibility into your entire suppliers' network, check their compliance and identify your risks

CPG & cybersecurity
Protect your facilities from any unauthorized access and ensure the right in-depth defense for your IT and OT systems

Monitor downstream logistics
Manage efficiently your assets tracking, performance and maintenance to optimize your supply chain logistics

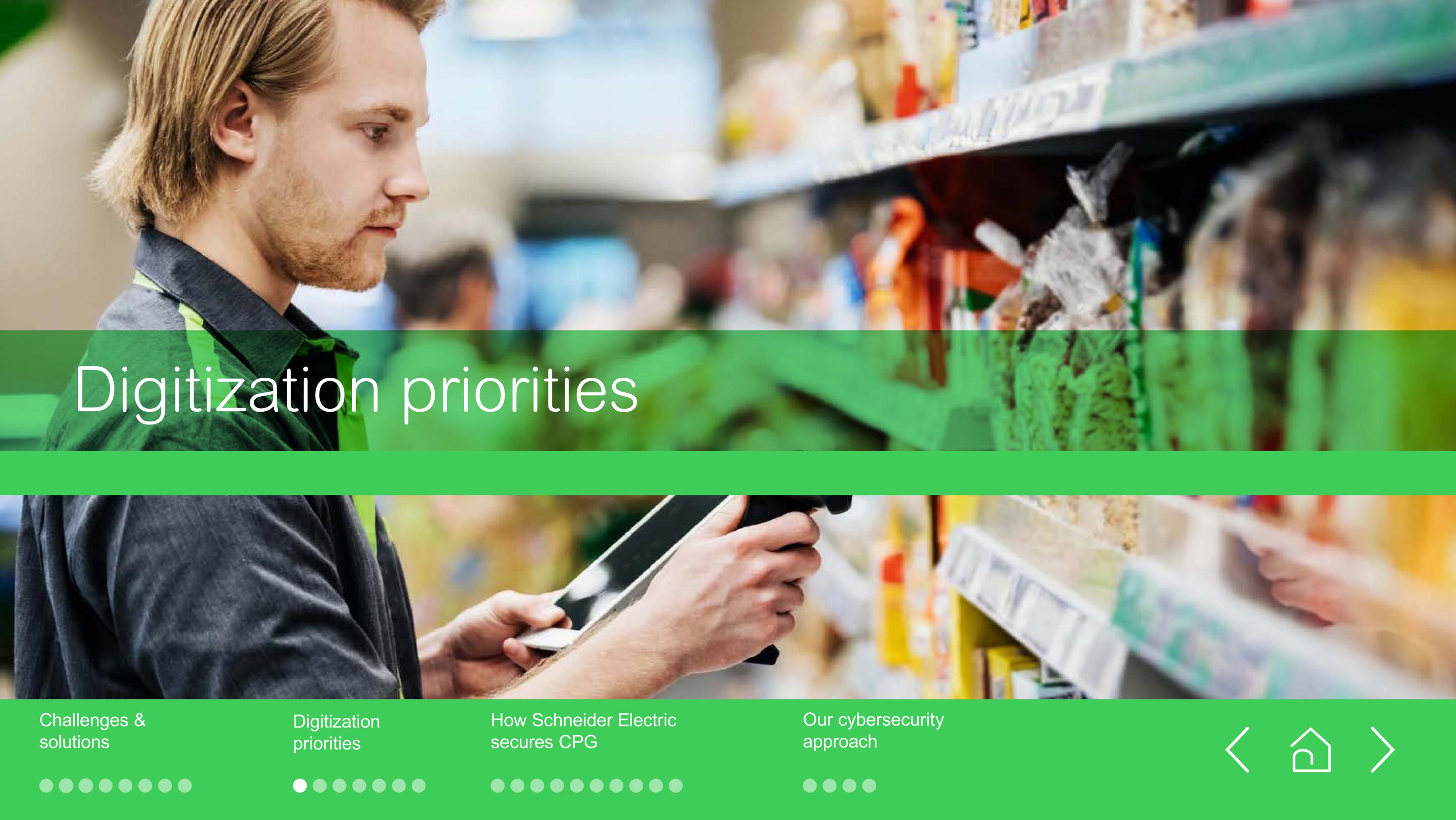
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Growth in IIoT connected devices



Source: Intel

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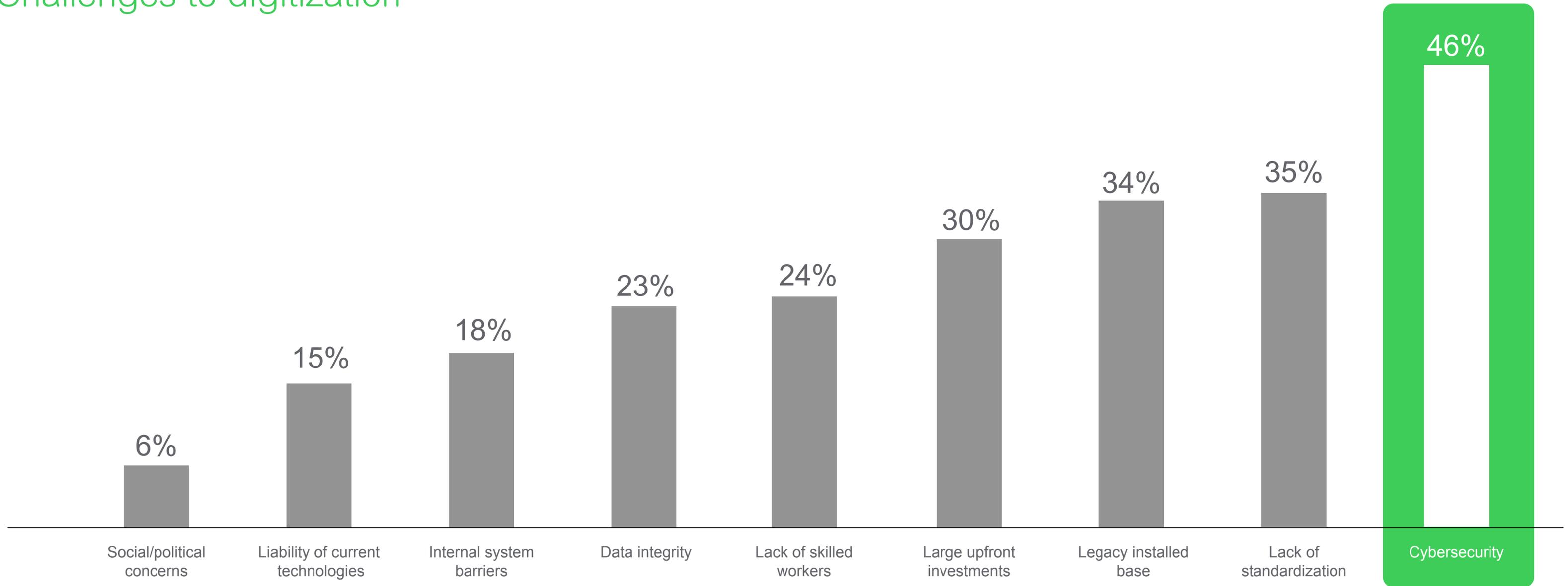
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Challenges to digitization



Source: Morgan Stanley-Automation World Industrial Automation Survey, AlphaWise

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IT vs. OT - cybersecurity priorities

IT

VS

OT

- Enterprise system and networks used to manage IT process and data that support banking systems, personal devices (laptops, cell phones, etc.)
- Focus areas - confidentiality, integrity and availability.
- Data confidentiality, data integrity and operational continuity are the priorities.

- Operational networks that support and control physical processes such as washing of produce, pasteurizing, chopping, cooking, freezing, labelling and packing, etc.
- Focus areas - availability, integrity and confidentiality.
- Operational continuity and safety of humans and environment are the priorities.

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Cybersecurity for OT

Protection across operational technology environments



A collection of measures (technologies, processes, and people) employed to **protect operational CPG processes and management systems**, along **with their associated assets** (products, equipment, networks, computers, programs and data) **from cyber threats to maintain the safety, resilience and confidentiality** of the system and data.

OT



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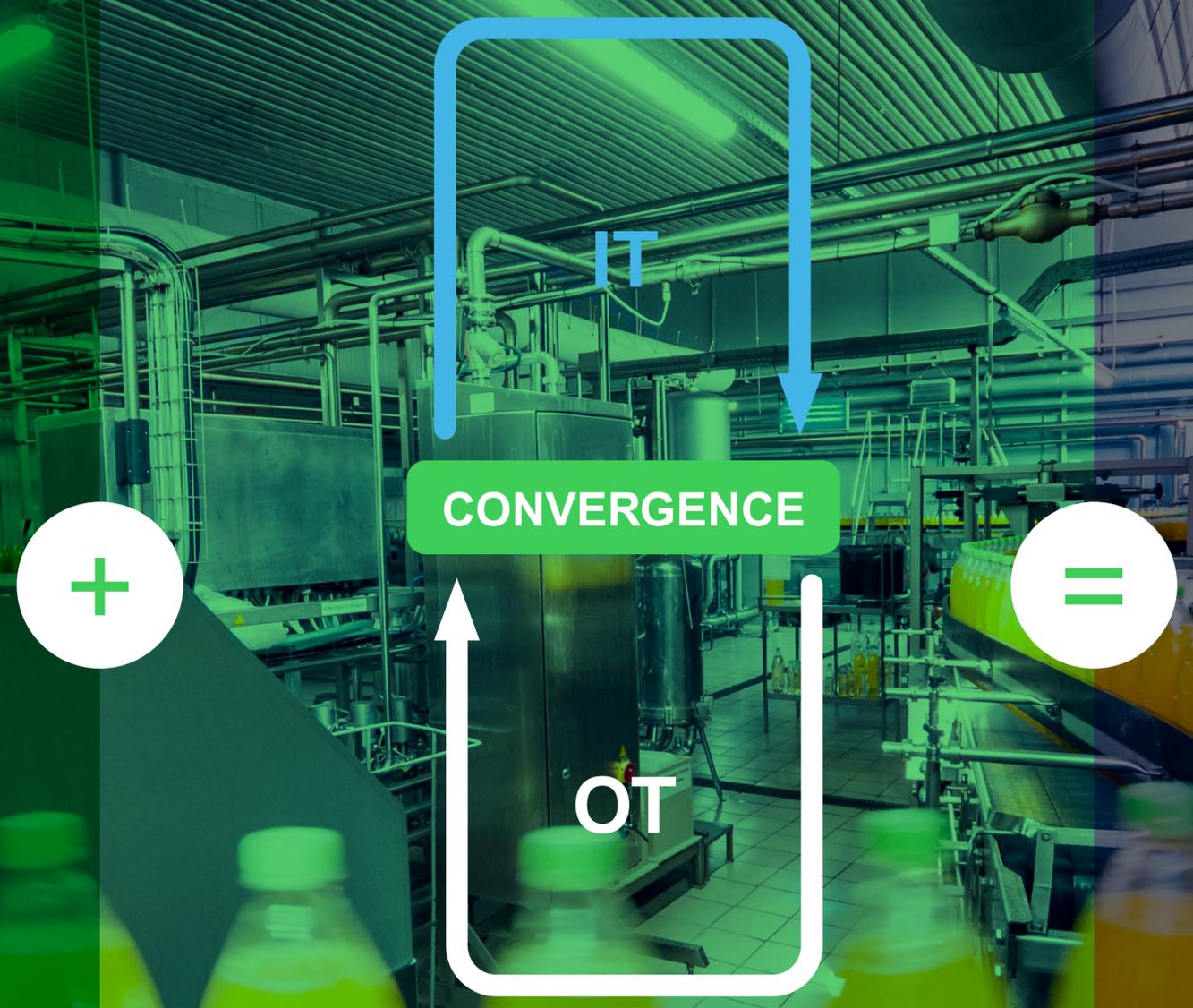
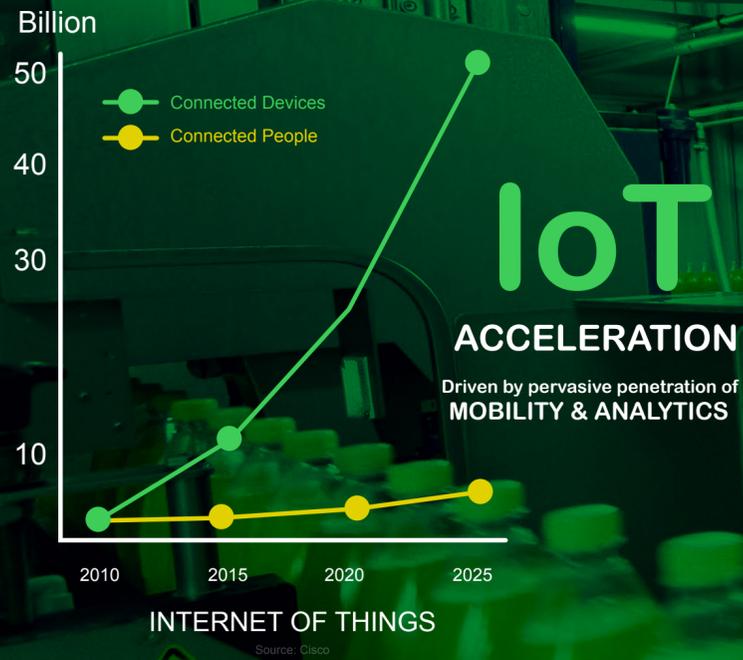
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CPG facility IT / OT efficiency gains



INTEGRATED CONTROL PLATFORM
OPTIMIZATION & SECURITY

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Cybersecurity in CPG: Cyber risks and did you know?

Cyber risks

- Cyber-attacks are becoming more **sophisticated and targeted**.
- **Mega breaches** now cost an average of **\$42 million**.
- In March 2021, the second-largest brewer in the United States was forced to halt its beer production due to a significant “cybersecurity incident”.
- It caused a delay to parts of the company’s business, including its brewery operations, production, and shipments.

Did you know?

CPG operations and the complex CPG supply chain are a clear target



Many different suppliers

Raw
Materials
→



Interconnected suppliers & manufacturers

→
Products



Long & complex supply chain to the end consumer

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46%

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Cybersecurity best practices for CPG

RECOMMENDATIONS



Cybersecurity risk should be viewed as a key business risk



Networks should be monitored and maintained through continuous vulnerability and risk assessments



Regular training and awareness for all employees

Sources: Kaspersky Labs, 2015; Trustware, 2016; Allianz Risk Barometer 2021

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CPG & cybersecurity

Protect your facilities from any unauthorized access and ensure the right defense in-depth for your IT / OT systems



Protection of CPG products from **contamination or adulteration** intended to cause public health harm or economic disruption.



Process to ensure the security of CPG produce from all forms of **malicious attack** including ideologically motivated attack leading to contamination.



- **CPG programs** should be developed to reduce the risks from both internal and external threats in order to protect your customers. CPG defence assessment is based on 3 basic types:
- **Threat assessment** (TACCP) of critical areas in the CPG supply chain. This includes also reviewing **cybersecurity** risks.
- **Vulnerability assessment** (VACCP).
- Likelihood of the threat assessment and its impact.



HACCP Hazards

Prevention of unintentional/accidental adulteration

- Science based
- Food borne illness

TACCP Threats

Prevention of intentional adulteration

- Behaviourally or ideologically motivated

VACCP Vulnerabilities

Prevention of intentional adulteration

- Economically motivated

Sources: FSIS, 2021; FSCC22000, 2021, FDA, 2021

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Reinforce your CPG defenses

Protect your facilities from any unauthorized physical or cyber access



Enhance facilities security

Protect your facility's occupants and assets with an integrated, role-based physical access control and intrusion detection solution that unifies your building's security infrastructure and building management systems.



Ensure the right defense in-depth for your IT/OT systems

Identify and mitigate risks by applying standards and good practices throughout the whole line of defense which must integrate people, processes, and technology.



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Smart facilities

Safer, more available and greener resources

Power safety & availability
Standardization, site assessment, and predictive maintenance for safe and available power



Power quality & efficiency
Detect and mitigate power quality issues to increase equipment efficiency and life time



Renewable energies & microgrid
Manage complex energy mix to optimize cost and carbon footprint



Efficient utilities
Assess utilities performance and implement tools supporting continuous improvement measures



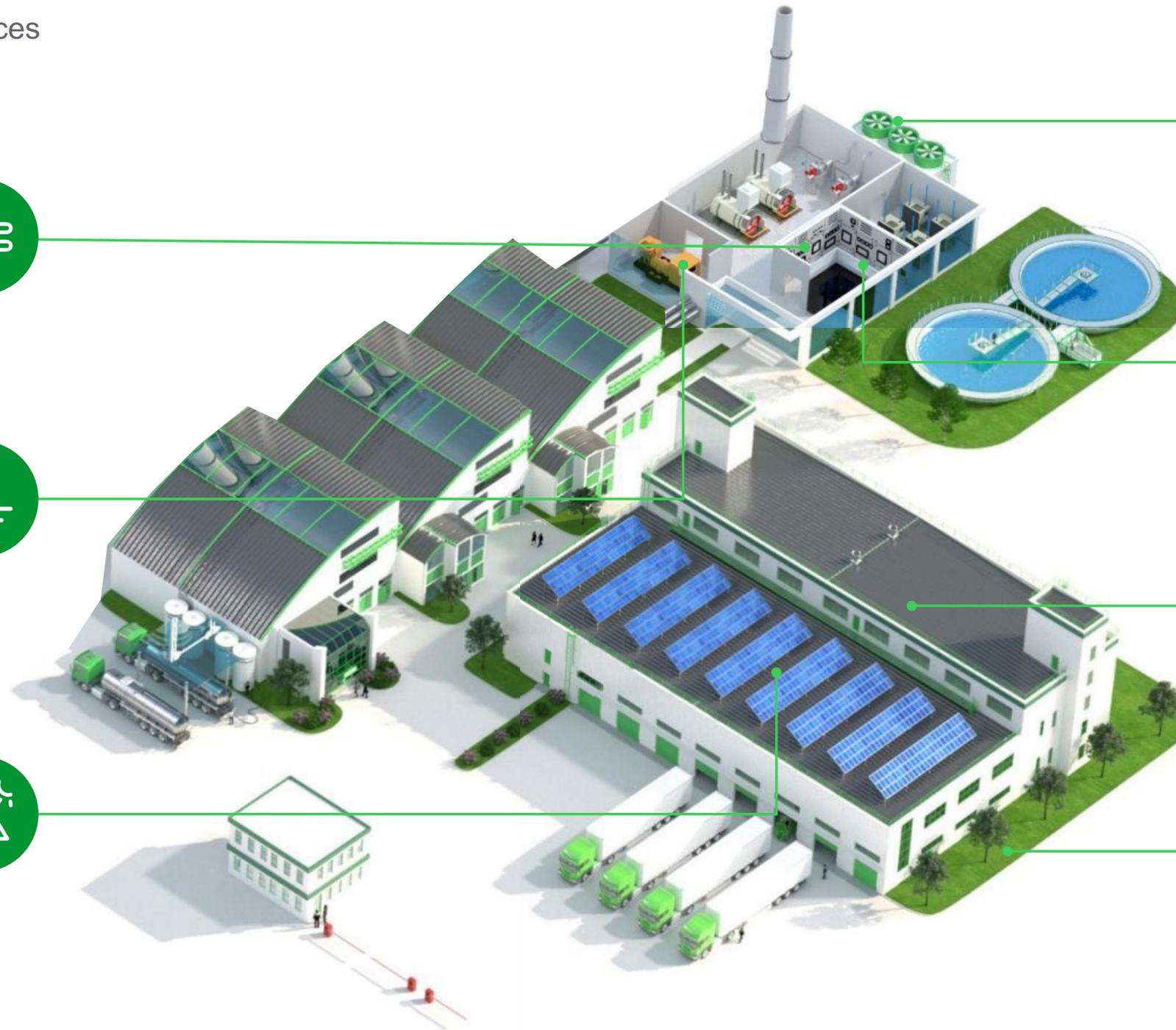
IT / OT infrastructure management and cybersecurity services
Provide self contained and secure computing environment for your on-premise applications



Smart building
Provide the best conditions for your manufacturing operations



Sustainability & energy management
Increase corporate transparency to meet your energy and sustainability goals



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How to make sure your plant is protected against cyber-attacks.

Maintain CPG safety compliance and traceability to preserve brand equity and shareholder value

Cybersecurity solutions & services

Plant traceability
Track your entire operations to reduce company exposure in case of quality issue



Raw Materials



Products



Label assurance
Provide consumers with the right information

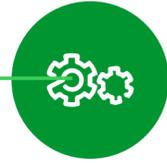


Cybersecurity
Ensure the right in-depth defense for your IT and OT systems

Track & trace
Protect your brands from counterfeiting



CPG safety management
Ensure fast and accurate product recall at the right granularity level



Regulatory compliance
Implement systems natively supporting CPG safety regulation compliance

Manufacturing defence
Protect your facilities from any unauthorized access



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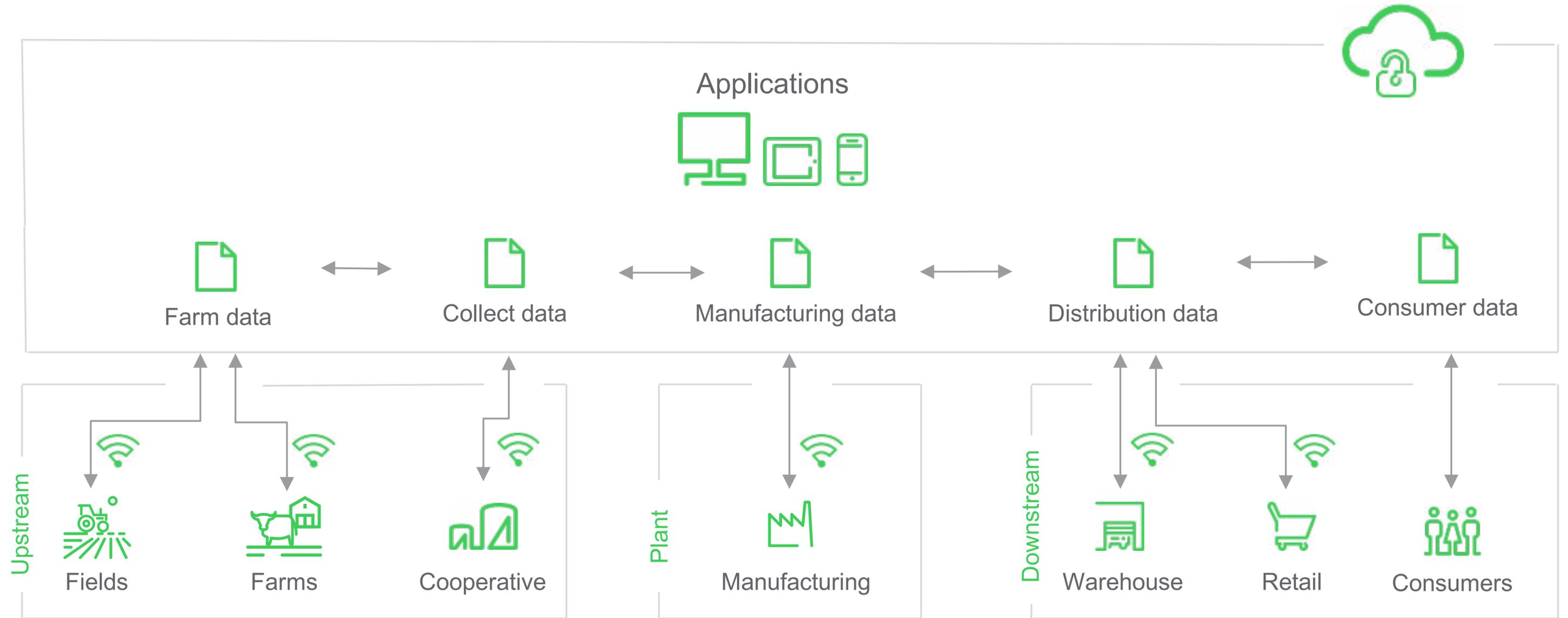
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Achieve end-to-end traceability

Connecting the entire value chain: end-to-end



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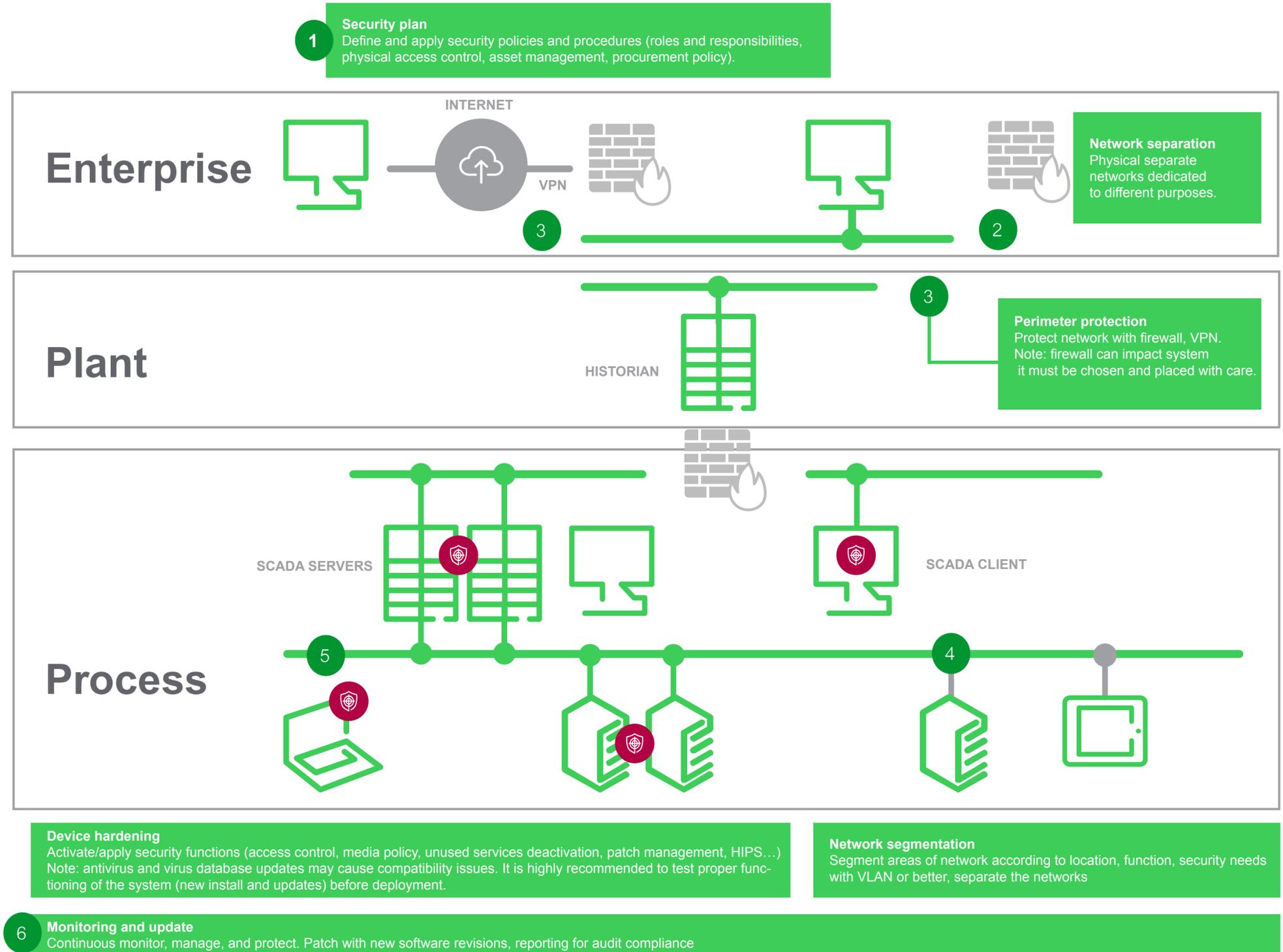
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Our approach – defense in depth

- 
1
Security plan
- 
2
Network preparation
- 
3
Perimeter protection
- 
4
Network segmentation
- 
5
Device hardening
- 
6
Monitoring and updates



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CPG cybersecurity success story



UK
Industry #1 beverage company



Cyber offering:

- Remote access cybersecurity solution.
- 141 global manufacturing sites.
- Remote desktop solution offering full IT/OT separation with military grade hardware.
- Multi-factor authentication.
- Configuration and user management.
- Threat analysis and patch management.



Success factor:

- Customized solution meeting customer's global operation demands.
- UK team customer relationship management.
- Local installation and site support offer.



Why Schneider:

- Regional security expertise supported by global organization.
- Fully compliant with ISA/IEC62443.
- Ongoing comprehensive service offer.
- OT provider with IT expertise.

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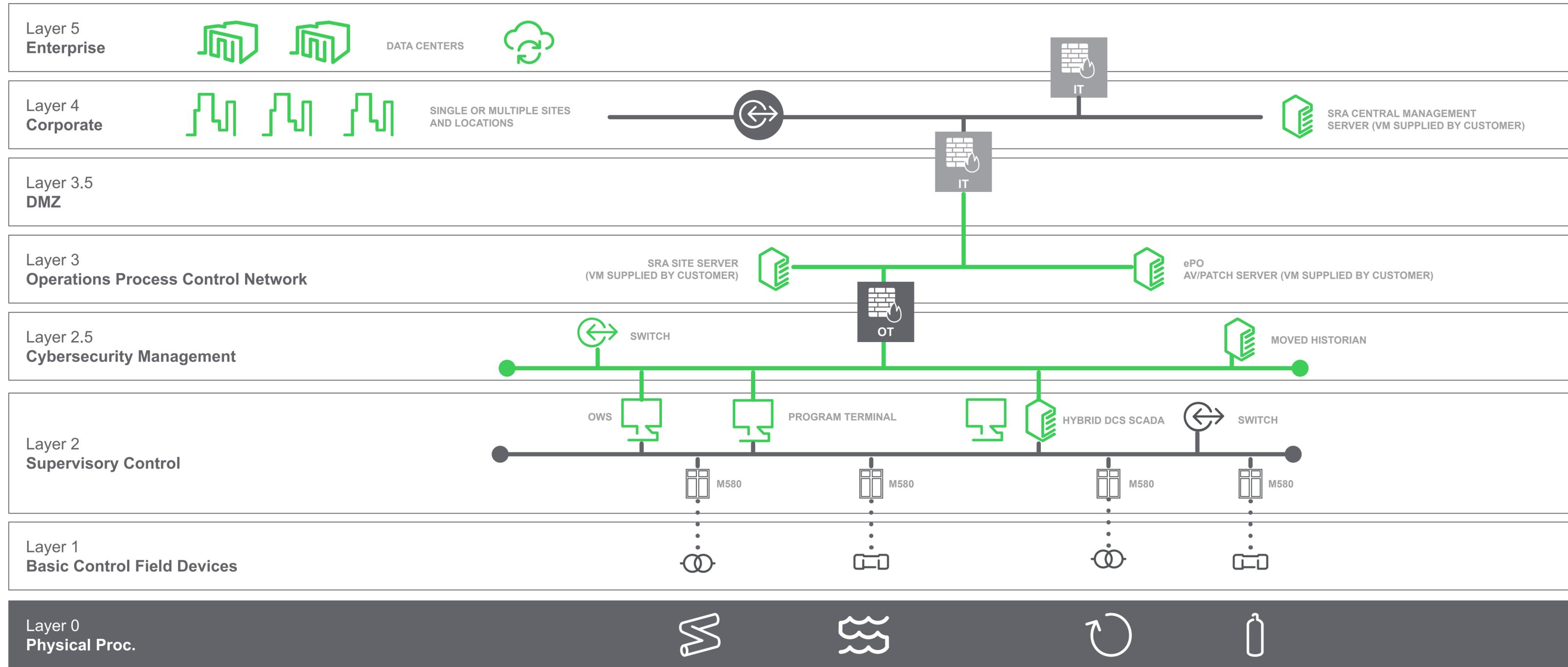
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Industry #1 beverage company architecture



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Addressing cybersecurity challenges on multiple levels



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Our cybersecurity approach



Our approach & differentiation for your operational life cycle

Security Consulting

Policy and procedure
Asset inventory
Gap analysis
Risk and threat
Compliance

Design & Implementation

Defense in depth
Secure architecture
Asset management
Security assurance level
System hardening
Solution integration

Training

Security awareness
Security engineer
Security administrator
Advanced expert

Monitoring

Firewall security
Device management
Threat management
Device security
OT SIEM support

Maintenance

System upgrades
Security patches
Incident response



Vendor-agnostic solutions.



Understand **OT and IT** perspective (for handling plant and corporate).



Scaled solutions to match every customer's budget and maturity.



Vast experience in even the most heavily regulated industries.



Huge engineering and support team to help you close the deal successfully

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Visit our website to learn more about how to protect your business from cybersecurity threats.

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