



**Who is Schneider Electric?**

# Schneider Electric provides energy and automation digital solutions for efficiency and sustainability



## Key figures for 2022

**5%** of revenues devoted to R&D

**€34 billion**

2022 revenues

**43%**

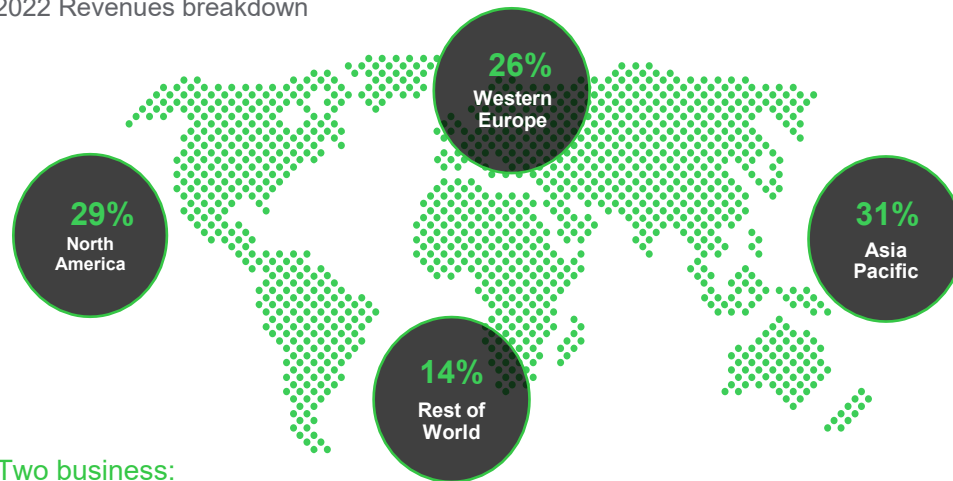
of revenues in new economies

**128,000+**

Employees in over 100 countries

## A well-balanced global presence

2022 Revenues breakdown



## Two business:



**We partner  
in everything  
we do**

**650k** service providers & partners

**42k+** system integrators & developers

**52k+** unique suppliers

# Overview: ISA/IEC 62443 Standards

The world's only consensus-based automation and control systems security standards



The ISA99 committee was **formed in 2002** and works closely with IEC Technical Committee 65



ISA/IEC 62443 standards address **OT in 16 CI sectors**, non-telecom & finance



ISA/IEC 62443 standards contain **over 500 normative requirements** that address all phases of the system life cycle



ISA/IEC 62443 are the **most referenced** standard in the NIST Cybersecurity Framework



**Over 1,500 volunteer members** represent a wide range of industry sectors and constituencies from all areas of the world



**Formal and informal liaison relationships** with IEC, OPAF, NAMUR, WIB, NIST, DHS, INL, ISASecure, and ISAGCA



# Value: ISA/IEC 62443 Standards



**Structured Approach to Operational Technology (OT) Security:** ISA/IEC 62443 protects against cyber threats and ensure the reliability, safety and integrity of industrial operations.



**Global Consistency:** ISA/IEC 62443 is an international standard, which is a common framework that can be adopted by organizations worldwide. Both supplier organizations and asset-owner organizations operate globally and benefit from conformance to a single international standard.



**Risk Mitigation:** ISA/IEC 62443 standards help organizations assess and mitigate the risks associated with cyber attacks on their industrial control systems. They provide a structured approach to identifying vulnerabilities and implementing measures to protect against threats.

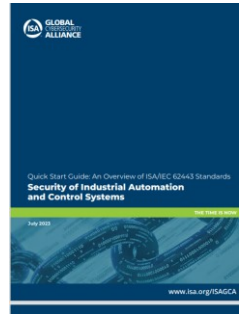


**Vendors and Supply Chain:** These standards provide guidance on cybersecurity when procuring and integrating control systems from different vendors. This helps ensure security is built into the supply chain.



**Compliance and Certification:** Requiring compliance to ISA/IEC 62443 demonstrates cyber readiness. Conformity assessment programs like ISASecure have been available for 13 years, providing transparency for asset-owner procurement activities and operational security status.

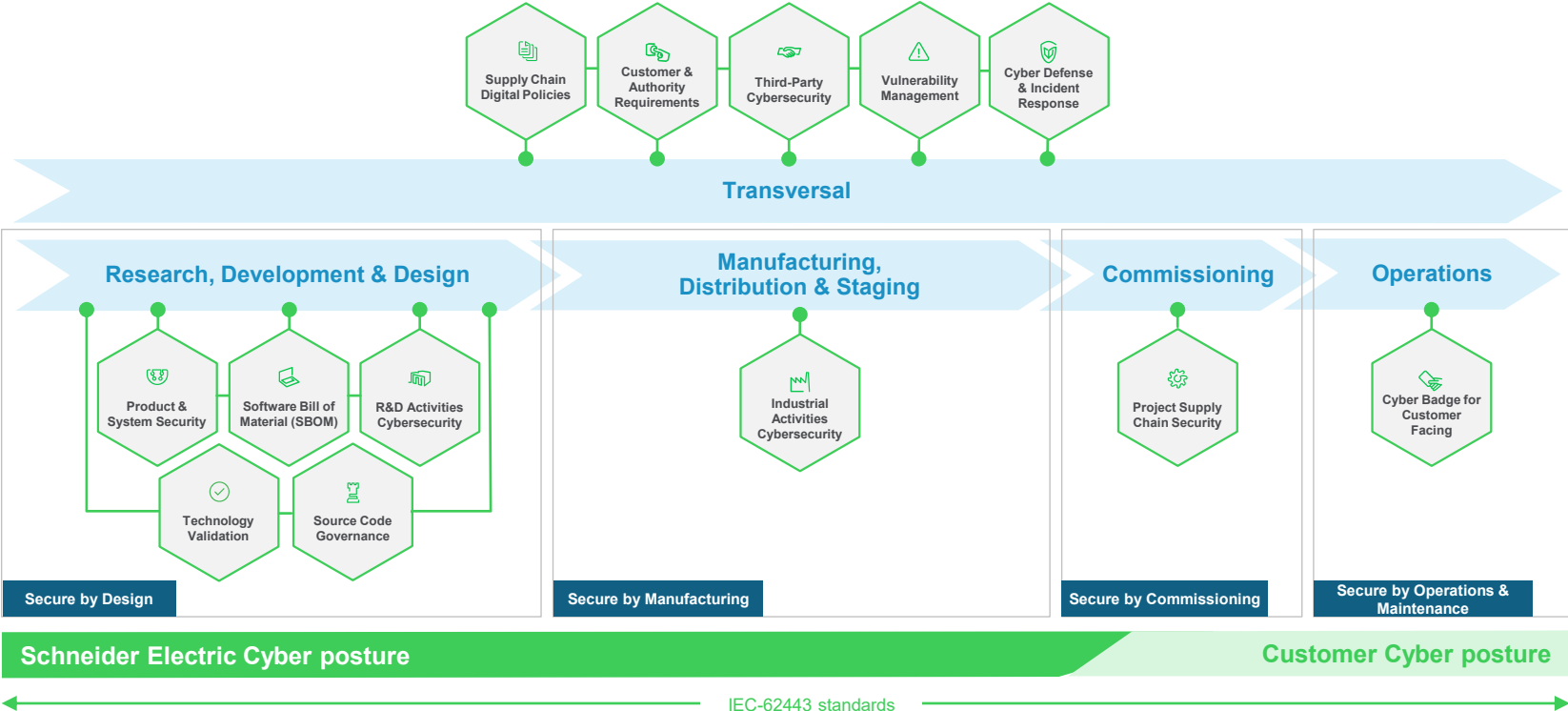
*Free Resource available: Quick Start Guide:  
An Overview of ISA/IEC 62443 Standards  
Security of Industrial Automation and Control*





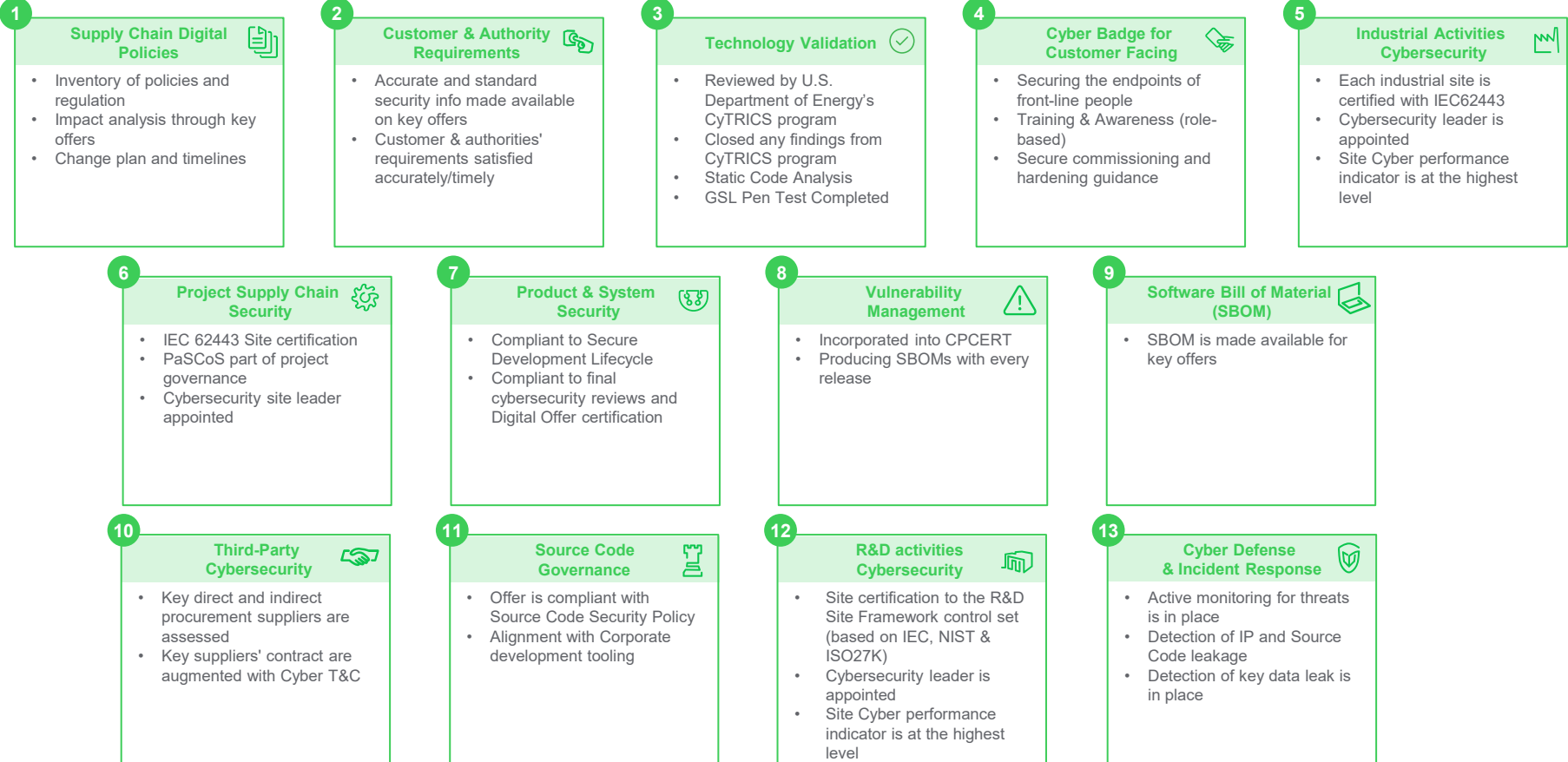
# Schneider Electric's Supply Chain Security

We seek to embrace the whole value chain from security by design to secure operations with a comprehensive set of programs...



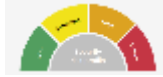


# ... with main components and owners for each pillar





# Our 80 commodities and €14B spent are governed through a tiered approach, based on risk profiles



## Proactive risk mitigation - before incidents

## Reactive risk mitigation - during incidents

### Critical Suppliers

Partners, co-innovation  
("Crown Jewel" vendors)

### High-risk Suppliers

Critical business impact,  
access to and restricted data

### Moderate-risk Suppliers

Regulatory impact  
and important business  
impact

### Low-risk Suppliers

Procurement categories  
with low-risk purchases

**Cyber Partnership**  
Leadership meetings,  
SOC collaboration - drills

Real-time monitoring

Cyber Assessments

Digital Certification

General  
Cyber T&C

Strong  
Cyber T&C

Threat Intelligence

A single place to report supplier related incidents

A dedicated Supplier Incident Playbook

Team in charge of Third-party Cyber Risk  
(Security, Procurement, legal...)

# We rely on a set of policies and agencies to make it happen

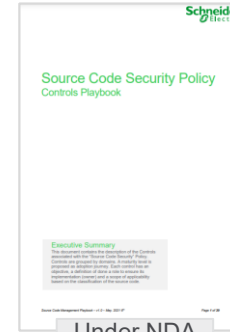
## Set of guidelines



Public

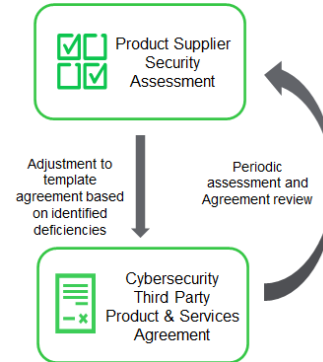


Under NDA

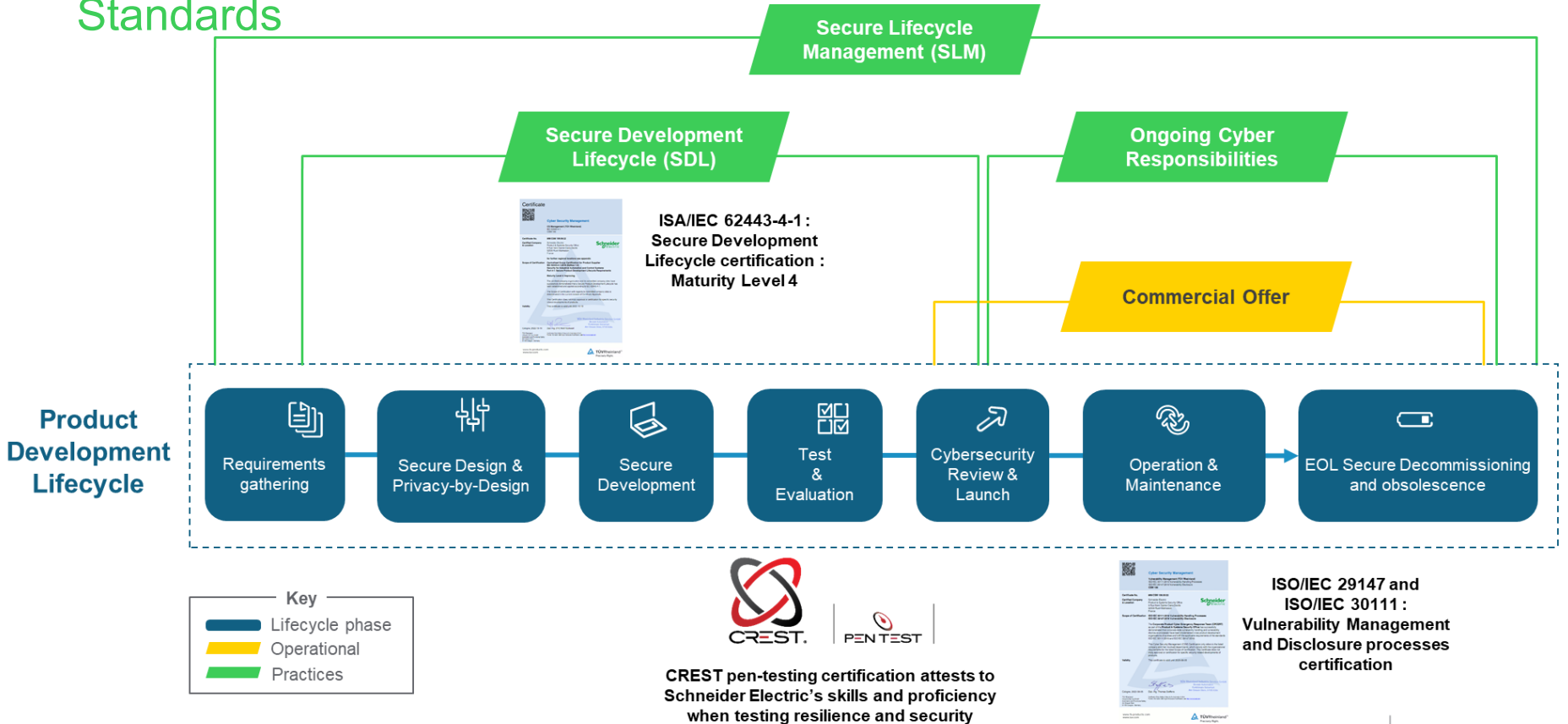


Under NDA

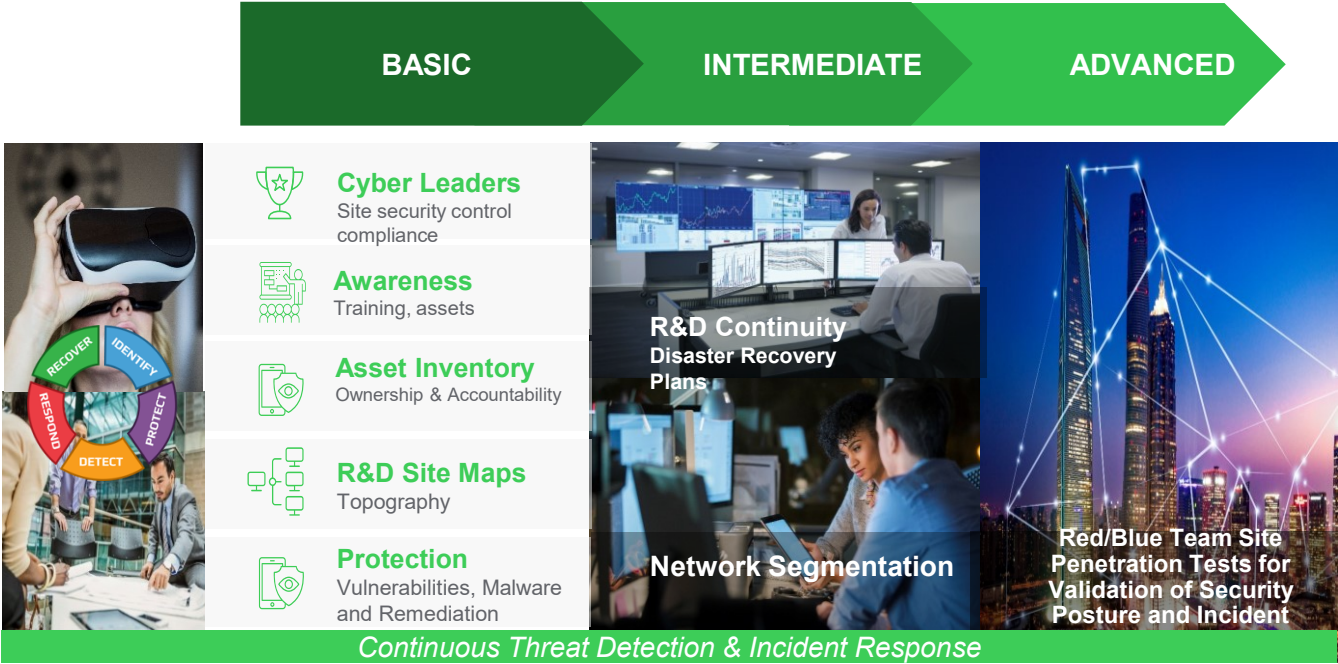
## Assessments & Real-time monitoring



# Our Software Assurance Practices are designed from International Standards



# We start by scrutinizing the security of our R&D sites, with a global Cyber Framework that adapts to the sites' complexities





# We then ensure that when we deploy Product, Software & Systems, security is there "by design"

Security is embedded by design...



...R&D teams use secure infrastructure and code analysis tools....



...all driven through education and maturity....

People

Training/Awareness

- Leadership
- Security Officers
- Cybersecurity Advisors
- R&D teams
- Edisons
- Technical Expert Material
- Extensive training & webinars
- White papers
- Vulnerabilities & Incidents

...it follows the Secure Development Lifecycle...



Our Secure Development Lifecycle (SDLv2) process is officially certified against IEC 62443-4-1 standard.

...Products, Software, and Systems are penetration tested in the CREST-accredited Schneider Electric Global Security Labs...



... while collaborating & influencing industry, governments, and regulators



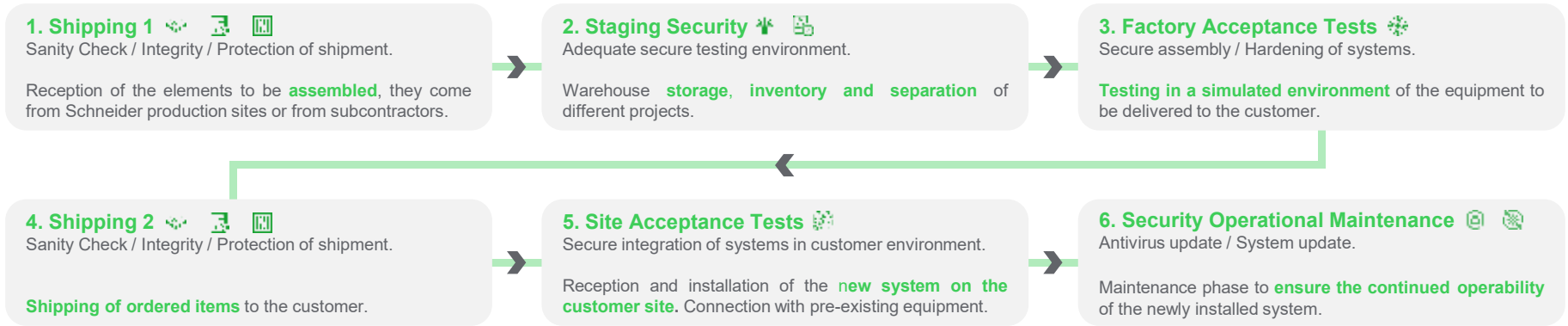
Life Is On

Schneider Electric

# We also apply this methodology to our Project Supply Chain



## Project Supply Chain Security controls cover 6 key milestones of the customer “project supply chain”



# We finally ensure Customer-Facing Populations is individually certified before meeting customer or accessing customer site

To go even further in the building of a trust relationship with our customers, Schneider Electric has launched an initiative to ensure a consistent level of security when interacting with customers: **The Cyber Badge**.

## Cybersecurity measures



**Use of secure endpoints** compliant with security requirements, up-to-date and monitored



**Cybersecurity trainings** enforcing cyber discipline at customer sites and remotely



**Regular controls** by a dedicated central team to enforce Cyber Badge across Customer Facing Populations



**Cyber incident prevention**, detection and reporting leveraging Schneider Electric Security Operations Center



## Visible on customer side

Customer Facing Populations are issued a **virtual badge** delivered for a 3-month validity period as a proof of compliance



**Restrictions enforced over non-compliant staff** to avoid interactions with customers until compliance is achieved



The Cyber Badge policy is published online on the [Cyber Badge Principles](#)

# Policy Considerations

- Very few states speak to a best practice like ISA/IEC 62443 or equivalent standard in their plans, rules or laws.
- In energy sector unclear which chapter of law for cybersecurity standards with building codes, consumer protection and utility regulations all nipping at edges of DERs in homes and buildings.
- Cybersecurity Advisory Team for State Solar (CATSS) Tool Kit is available to you – use it. NASEO & NARUC ran excellent stakeholder process with many options to address cybersecurity within state “retail” authority.





# For More Information--



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