

Cyber Resilience Forum

Safety and security of critical energy infrastructures

13/05/2023

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EU regulation scenario

Network Code

The **Network Code on Cybersecurity** aims to set a European standard for the cybersecurity of cross-border electricity flows. It includes **rules on cyber risk assessment**, common minimum requirements, **cybersecurity certification** of products and services, **monitoring, reporting** and **crisis management**.

NIS 2

Replaces and repeals the NIS Directive (Directive 2016/1148/EC)



CER directive

The **Critical Entities Resilience Directive (CER)** replaces the European Critical Infrastructure Directive of 2008. The new rules were published with the aim to reduce the vulnerabilities and strengthen the resilience of critical entities



IoT/OT Cyber Security landscape

Threat landscape in digital grids¹



Natural events

(e.g. flooding, earthquake)



Physical damage

(e.g. environment damage or terrorist/vandalism activity)



Compromise of functions

(e.g. identity theft, abuse of rights)



Interoperability

(e.g. loose of control on supply chain)



Compromise of information

(e.g. tampering with software, malware)



Technical failures

(e.g. DoS or denial of control action)



Loss of essential services

(e.g. failure of telecommunication network equipment)



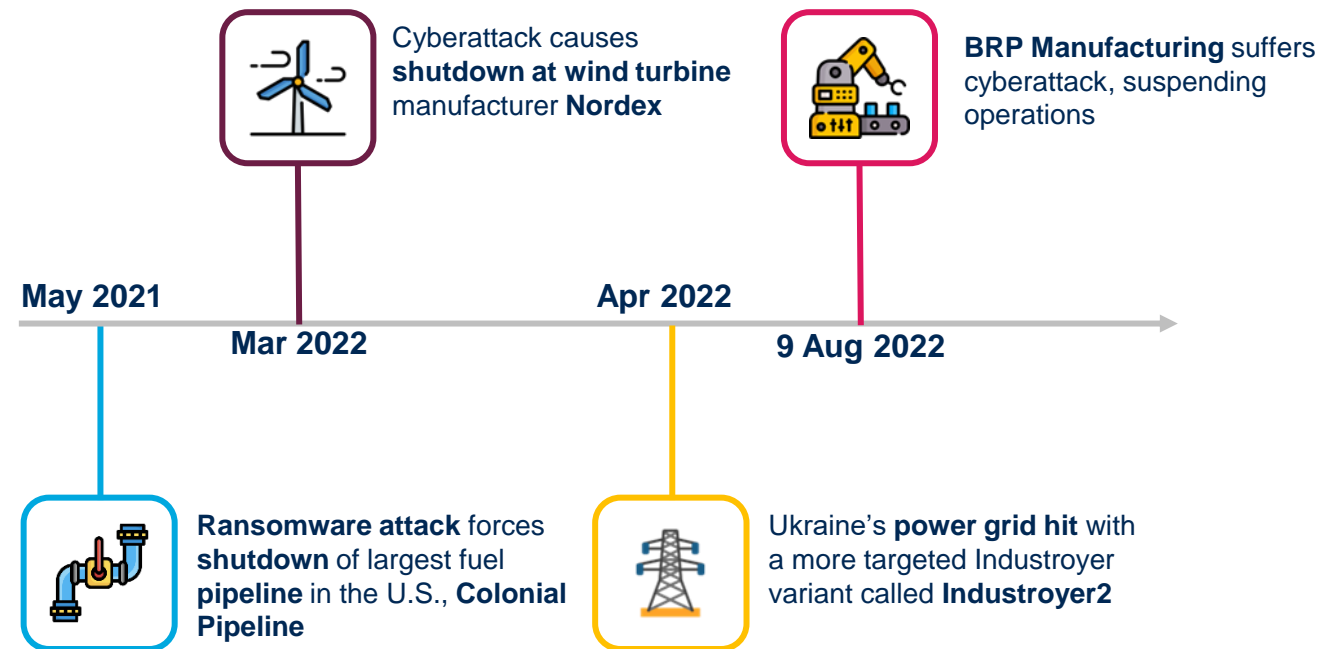
Unauthorized actions

(e.g. behavioral errors)



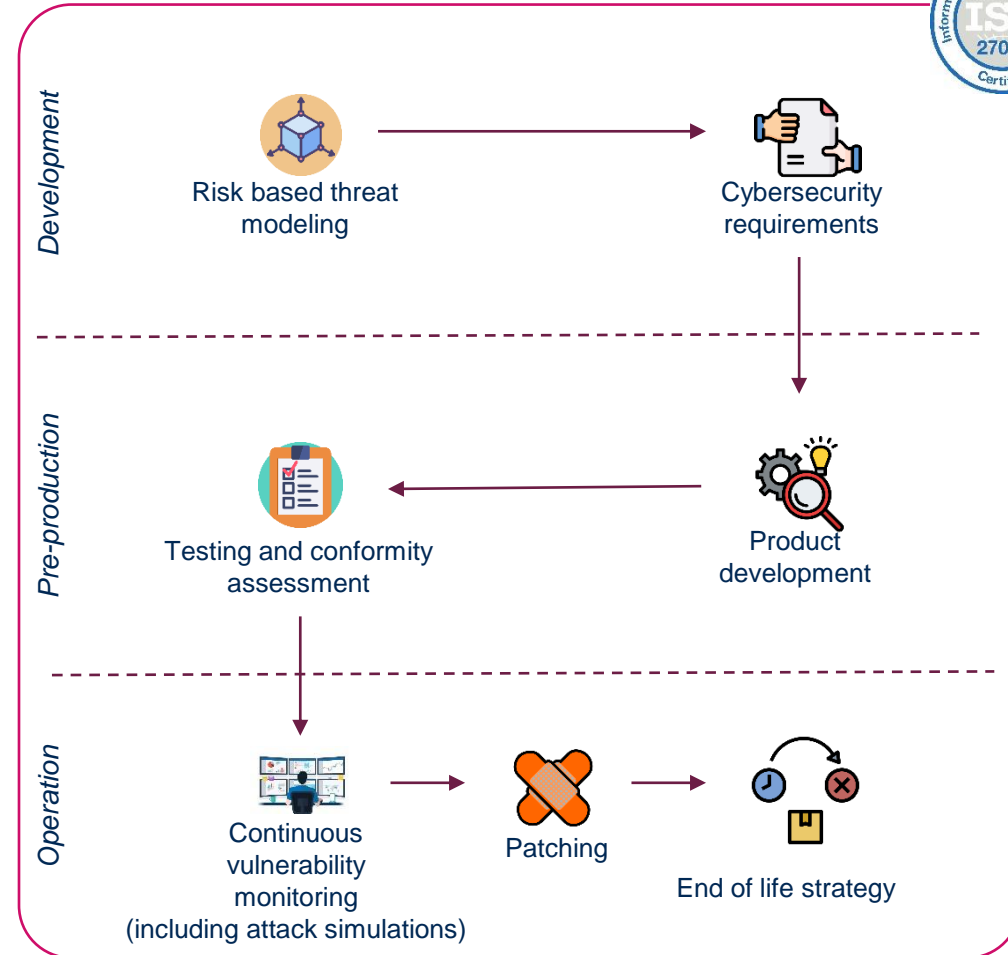
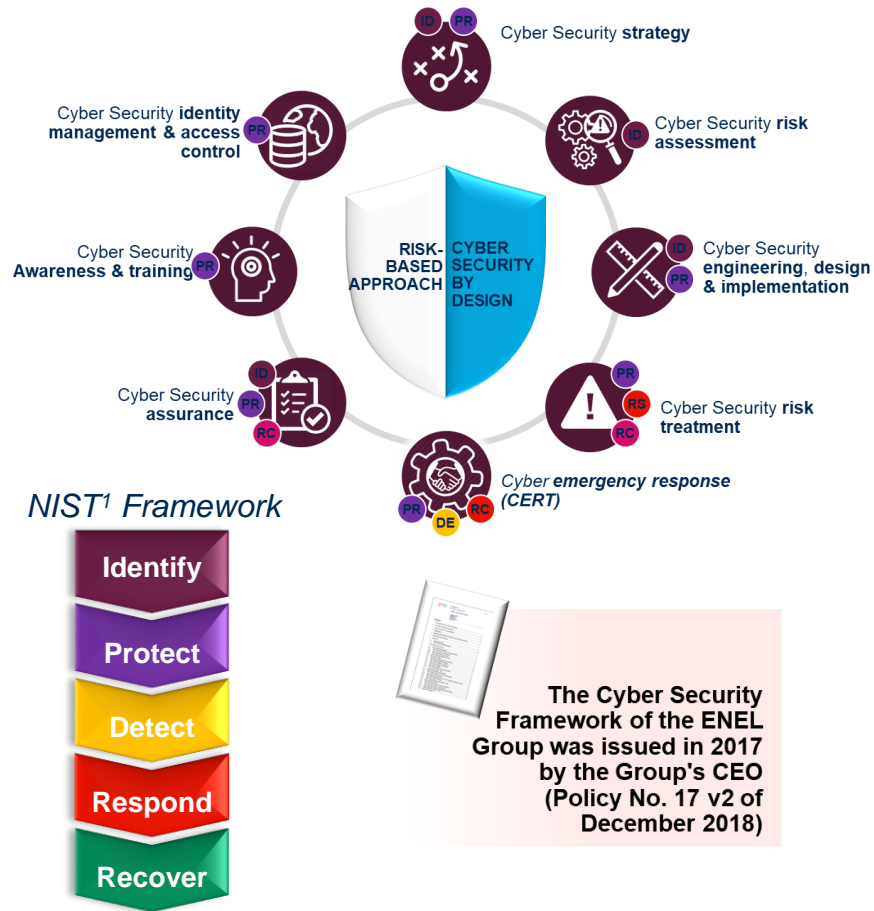
Disturbance due radiation

Examples of relevant IoT/OT cyber events in Y21/22*



Cyber Security Resilience in Gridspertise portfolio

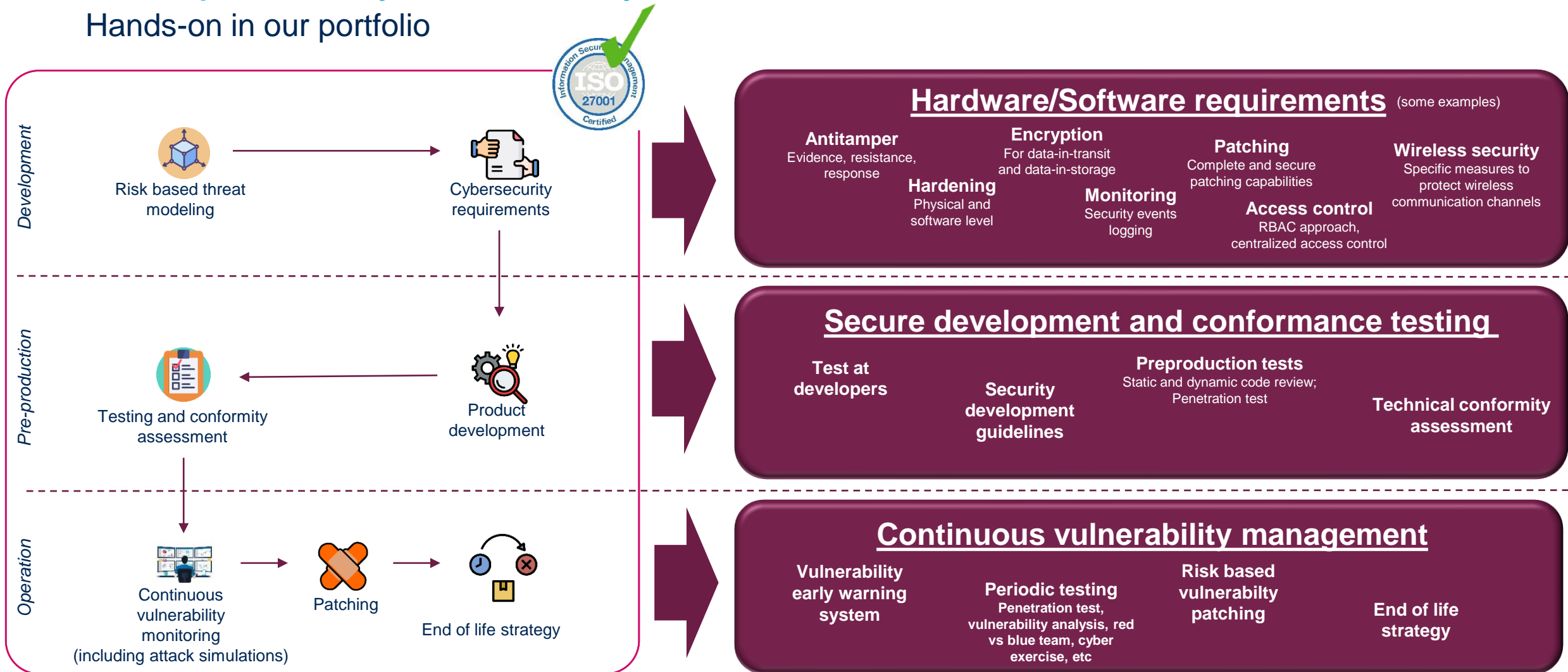
Cybersecurity Framework – Risk based and Cybersecurity by design approach

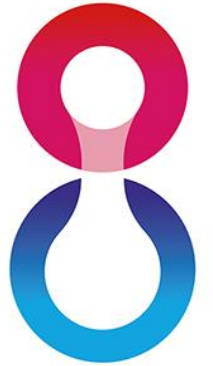


1. National Institute of Standards and Technology

Gridspertise cyber security resilience solutions

Hands-on in our portfolio





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