

# Cyber Resilience Forum

Safety and security of critical energy infrastructures

13/05/2023

# Agenda



**01**

EU regulation  
scenario

**02**

IoT/OT Cyber  
Security landscape

**03**

Cyber Security  
Resilience in  
Gridspertise portfolio

**04**

Gridspertise cyber  
security resilience  
solutions examples

# 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

**Network Code**  
EU directive  
publication

Jan-22

**NIS 2**  
EU directive  
publication

Dic-22

**CER**  
EU directive  
publication

Jan-23

**Network Code**  
Member States  
adoption\*

TBD

**NIS 2 & CER**  
Member States  
adoption\*

Oct-24

# IoT/OT Cyber Security landscape

## Threat landscape in digital grids<sup>1</sup>



### 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)



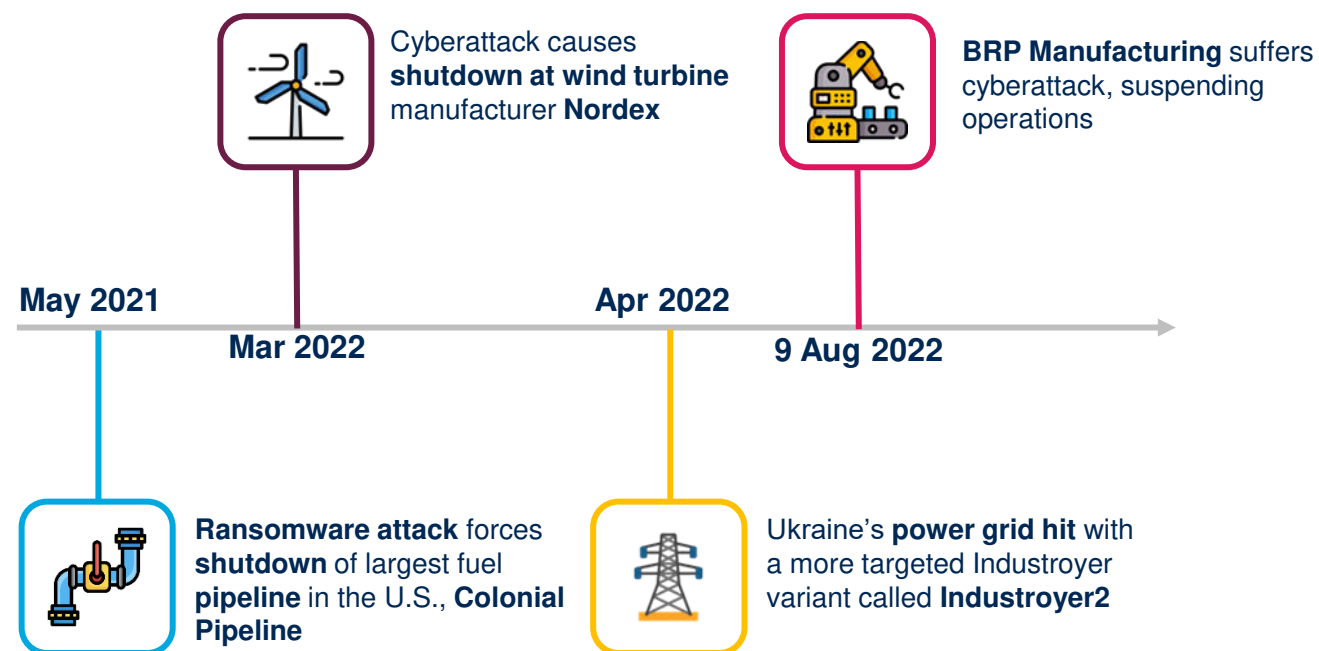
### Unauthorized actions

(e.g. behavioral errors)



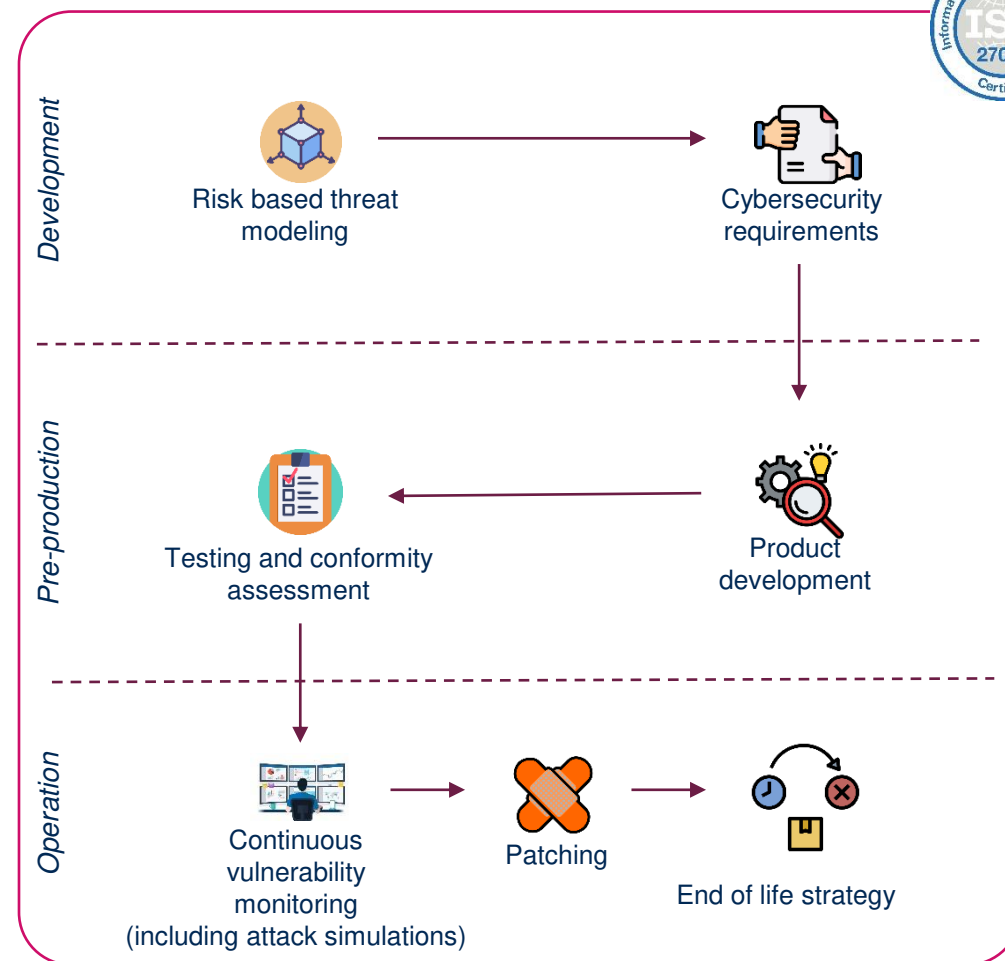
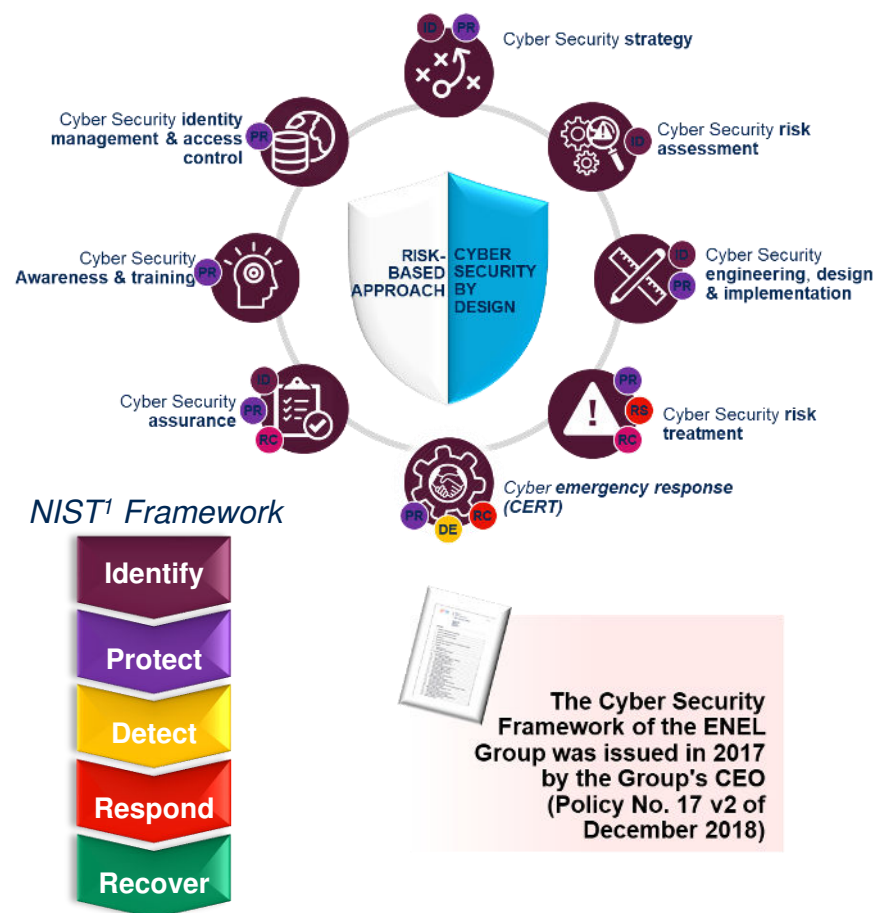
### Disturbance due radiation

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



# Cyber Security Resilience in Gridspertise portfolio

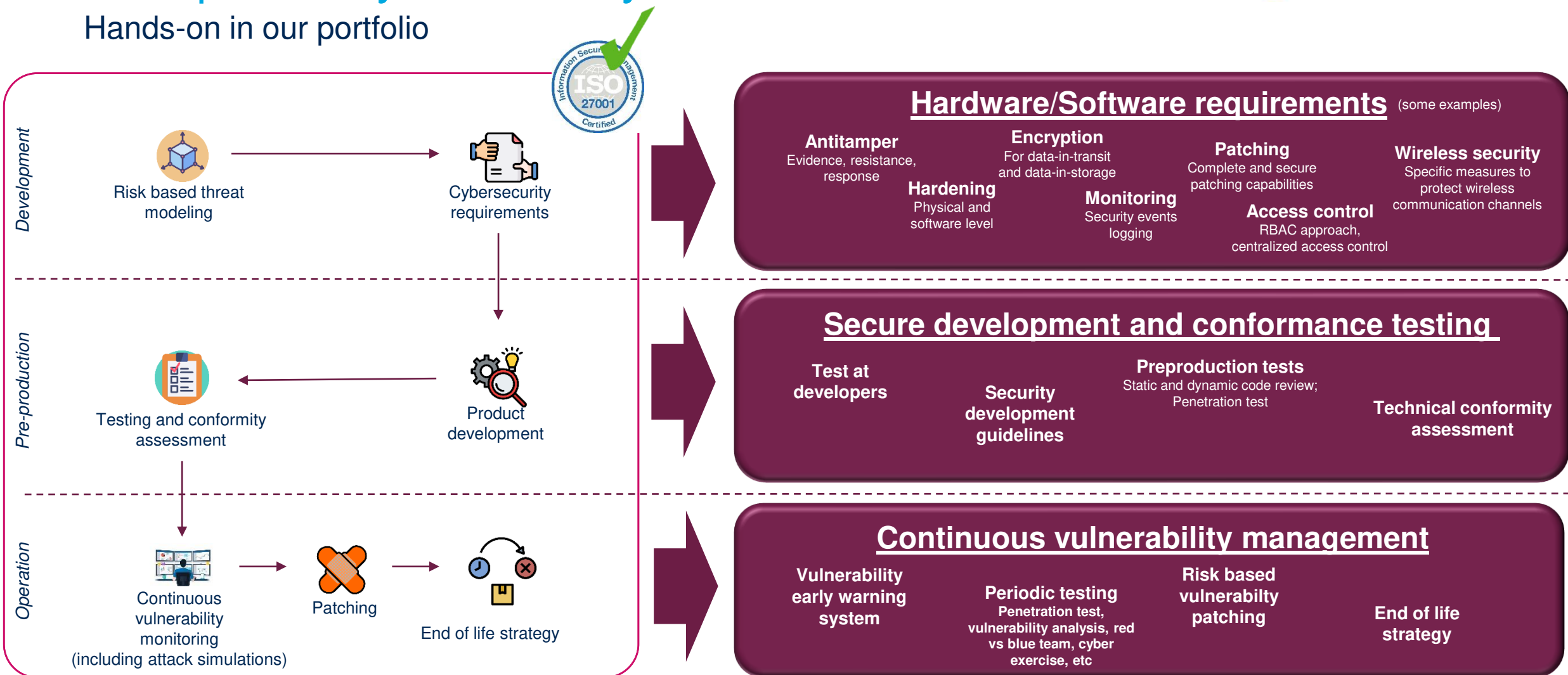
## Cybersecurity Framework – Risk based and Cybersecurity by design approach

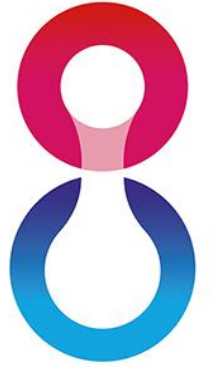


1. National Institute of Standards and Technology

# Gridspertise cyber security resilience solutions

Hands-on in our portfolio





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