



# Addressing challenges for vulnerability management in the energy sector



## Does it matter for you?

- How would you feel if energy goes down while cooking or, much worse, for a beloved one whose life depends on electric equipment?

## Suppliers' challenges

- NIS 2 directive Article 21 – “vulnerability handling and disclosure”
- ENISA – national vulnerability programmes
- Feasibility given availability requirements
- Multi-criteria decision-making process

## Research Design

Information Gathering Analysis	Market solutions	Research Interviews
Professional experience + IEC 62443-2-3	Criteria from larger market share	12 asset owners / semi-structured

## Main results

- **Prioritization:** asset criticality, combination of risk score with other information, risk of not implementing

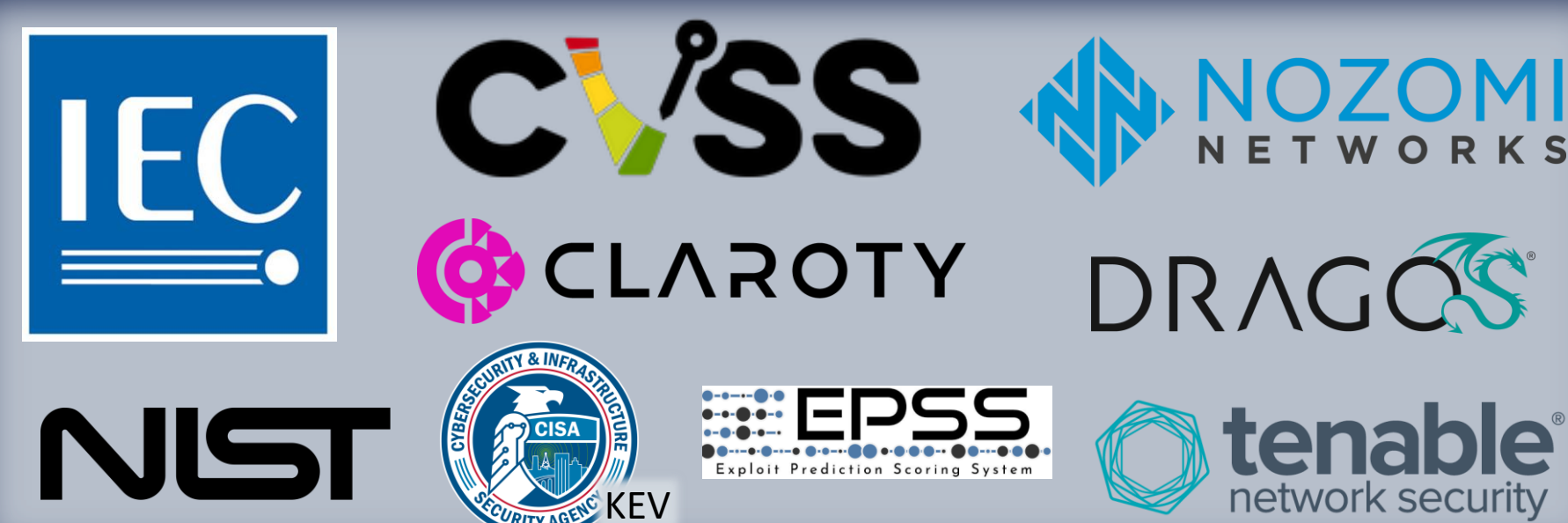
*How would you prioritize a critical asset when performing vulnerability management?*

- **Deployment:** allowed downtime, architecture topology, applicability
- Internal decision-making process diagram for vulnerability management
- Identification of main challenge

## Expectation x reality

- Plan: criteria for prioritization and deployment to develop a decision-making algorithm
- Execution: main challenge identified was how to consider existing security measures

## Current practices



## IEC 62443-3-3 & CVSS

Solution suggestion to consider existing security measures: mapping between the security systems requirements of IEC 62443-3-3 (Security for industrial automation and control systems, Part 3-3: System security requirements and security levels) to the Environmental metrics of the Common Vulnerability Scoring System (CVSS).

