49th ASECAP DAYS

Decarbonizing Road Infrastructure : Challenges, Perspectives and Actions in Tough Economy

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BRUSSELS 2022

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A Cybersecurity Strategy For the Motorway Operators

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Logo

Cybersecurity for a Motorway Operator

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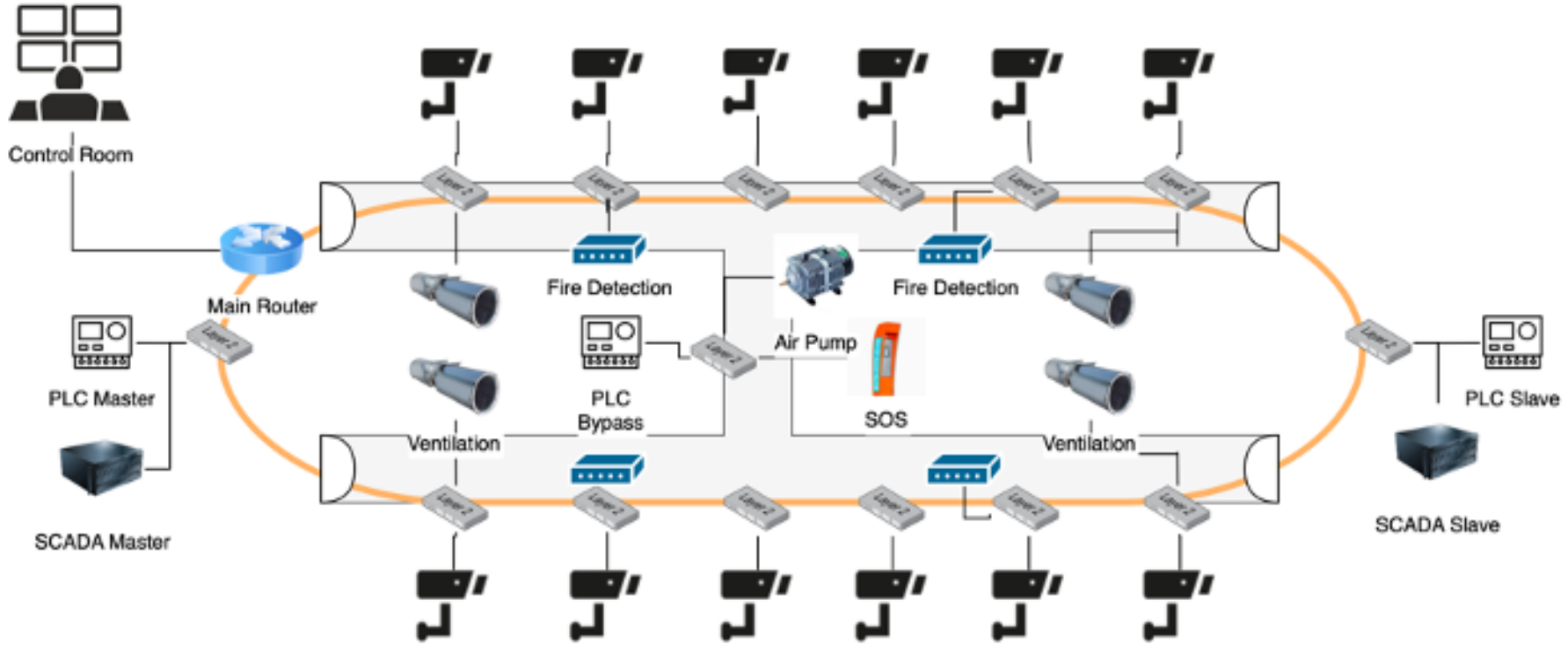
- Cybersecurity is an important issue, in terms of Availability, Integrity, Confidentiality
- Threat Landscape: are we specific?
- IT/OT/IoT: different cybersecurity, domains, or *zones*. C-ITS, Tunnels, Electronic Fee Collection, Sensors Actuators, Vehicles as sensors
- NISv1 categorizes road transport as essential service (Annex 2, 2(d)). Updated recently
- *Cybersecurity is a scarce resource*. We shall cooperate.

A Tunnel Use Case



- A cyber attack could result in injuries or death
- No norm exists
- No typical IT Security

Operators are all interconnected

- Interpol, ENISA, raised the need to perform multi sector assessments to evaluate the posture as a entire sector
- Services, SRTI, RTTI, Traffic Regulations, are shared between motorway operators
- A security incident could stem in a motorway operator and move laterally to others, even in different domain: **cascading effects.**

Proposals

- **Regulate ourselves before someone will regulate us**
- Need for an harmonization of the field
- Abide to common concepts such as:
  - Risk assessment methodologies
  - Common vocabulary for cybersecurity incidents
  - Common practice for incident response
  - ISAC
  - Cyber Ranges
- Cooperate with ENISA in defining the threat landscape

Governance models

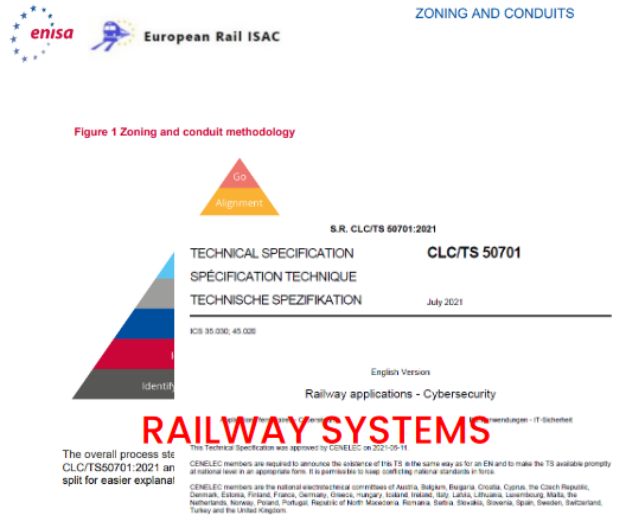
- ISO 27001 is not enough: we have Industrial Automation and Control Systems
- IEC 62443 is the de-facto norm for Cybersecurity Management Systems, technical, and supply chain aspects
- Too broad: we loos specificity

- ***Engage the SDOs for a new work item!***

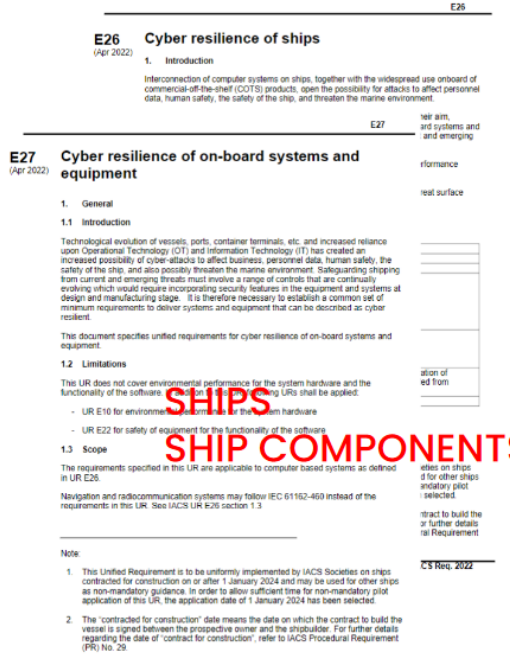
And others?

IEC 62443 in other verticals

MEDICAL DEVICES



RAILWAY SYSTEMS



SHIPS

SHIP COMPONENTS

INDUSTRIAL IOT DEVICES

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THANK YOU FOR YOUR ATTENTION

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