



# ENISA MARITIME CYBERSECURITY WORKSHOP

Lisbon 26<sup>th</sup> of November 2019

## European Rail Information Sharing and Analysis Center (ER-ISAC)

*Good practices from European Rail ISAC*

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## Best practices from the ER-ISAC

### 3 stages of an ISAC

- Before the creation of the ISAC
- While running the ISAC
- Once the ISAC is fully operational

## Before the creation of the ISAC

- **Raise interest to the widest audience possible**

Through your European Agency, the supporting organisations, the lobbies, the EU Cybersecurity agency, your industry Information Security peers for discussions meetings

- Raise interest / Understand challenges (Regulatory, Standardisation, Operations)
- Allow assessing areas of collaboration
- Willingness
- Broader communication (through the members of those organisations/lobbies)
- Create Working Groups by interest groups to avoid conflicts

- **Avoid perfection**

Do not target a perfect organisation by thinking of All cases/issues

- Terms of Reference as light as possible,
- Start thinking of TLP White & Green information that could be shared to get trust in collaborating
- Give CEO & Legal offices confidence
- Focus on making the collaboration affordable to most of organisation

## While running the ISAC

- **Identify your similarities / the basis for collaboration**
  - Start by sharing, to a large amount of members, your setup, infrastructure, critical processes, supporting assets, supporting supply chain & agree on a common IT/OT Landscape (*position paper*)
  - Share views and knowledge on Threats to your sector (*Opinion paper*)
- **Assess the on-going Cybersecurity Initiatives**
  - GAP analysis on IT/OT common landscape
  - Identify areas for collaboration
- **Use assistance of new EU ISAC Facilitator**
  - Secure platform, ISAC administration, Governance, ...
- **Get expertise**
  - Find common areas of expertise through Inter ISAC (SCADA's – Energy, Cloud/IoT – Finance, Safety related systems – Aviation/Rail, Communication – Telecom)

## Once the ISAC is fully operational

- **Support & Sustainability**
  - Support services & Administration through membership
- **Advertise the key success & deliverables**
  - Provide to your stakeholders (CEO's) concrete contributions
- **Identify and describe processes and services**
  - Services expected from the ISAC (Trainings, Cross border exercises, Threat intelligence, ...)
- **Develop Vulnerability management**
  - Share Indicator of Compromise (depending of Members maturity)



## Quick facts on ER-ISAC

- Acting in Standardisation : Cenelec WG 26 dedicated to Cybersecurity for Railway Systems
- Acting in Cybersecurity by default : Threat Landscape vs Minimum CyberSecurity Baseline for Railway systems
- Acting on International : United Nations (Europe / Asia Rail Transport Corridors Cybersecurity)
- Acting on Architecture : Working Group dedicated to OT landscape
- Acting Cross sector : Collaboration potential areas identified with Telecom, Energy and Aviation

# ER - ISAC

## Members per Countries (Sept 2019)

*Nearly 54 organisations since foundation on 4<sup>th</sup> of June 2019*



### Co Chair

FR /DE /BE /NL



### Members

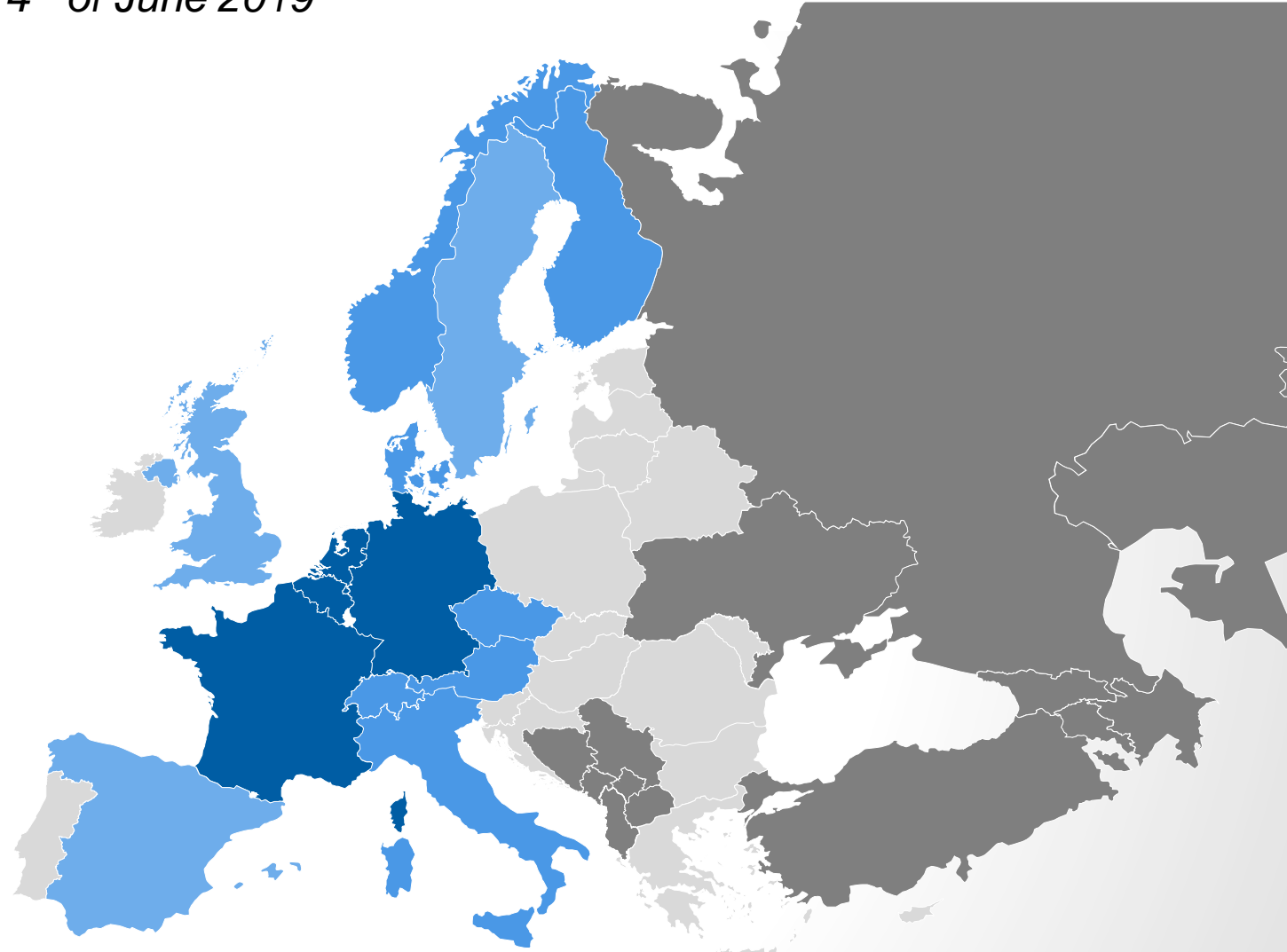
FI /NO /DK /IT /CH /AT /CZ



### Members to be contacted



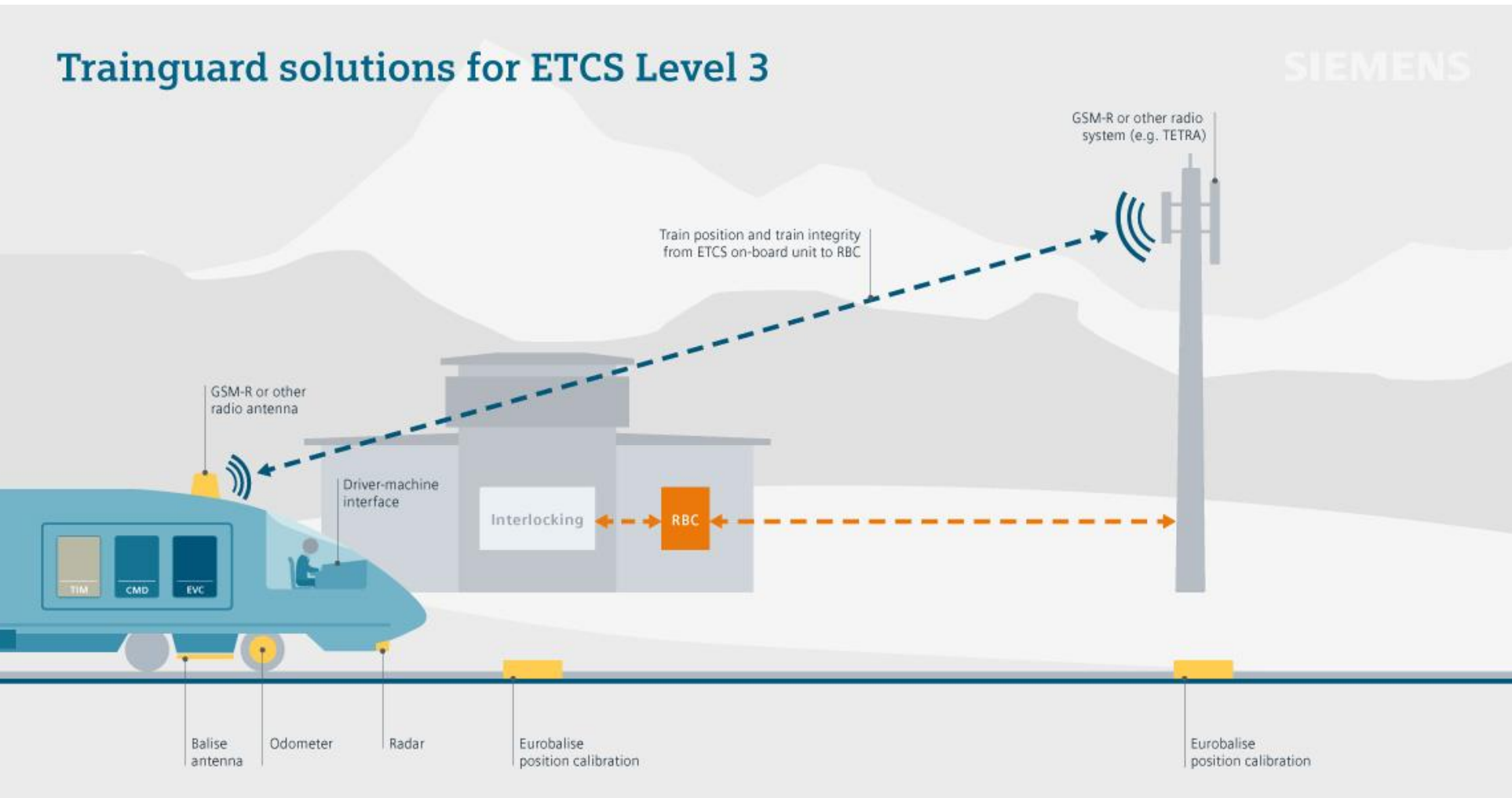
### Possible future partnership



# ER - ISAC

## Why collaborate in cybersecurity in the Railway ?

### Tranguard solutions for ETCS Level 3



Standardisation of technologies used across Countries (even outside EU = ERTMS)

Specific technologies for Signalling systems

Same supply chain

Specific Standardisation for Safety in the Railway

=> One issue affects us All



## Trust building by non competitive environment

- ▶ Important to be able to share information only among Rail Infrastructure Managers and Railway Undertakings
  - ▶ Plenary sessions with all parties involved
  - ▶ Dedicated discussions in working groups as relevant

