

IRSC 2022

INTERNATIONAL RAILWAY SAFETY COUNCIL

SEVILLA, OCTOBER 16-21, 2022



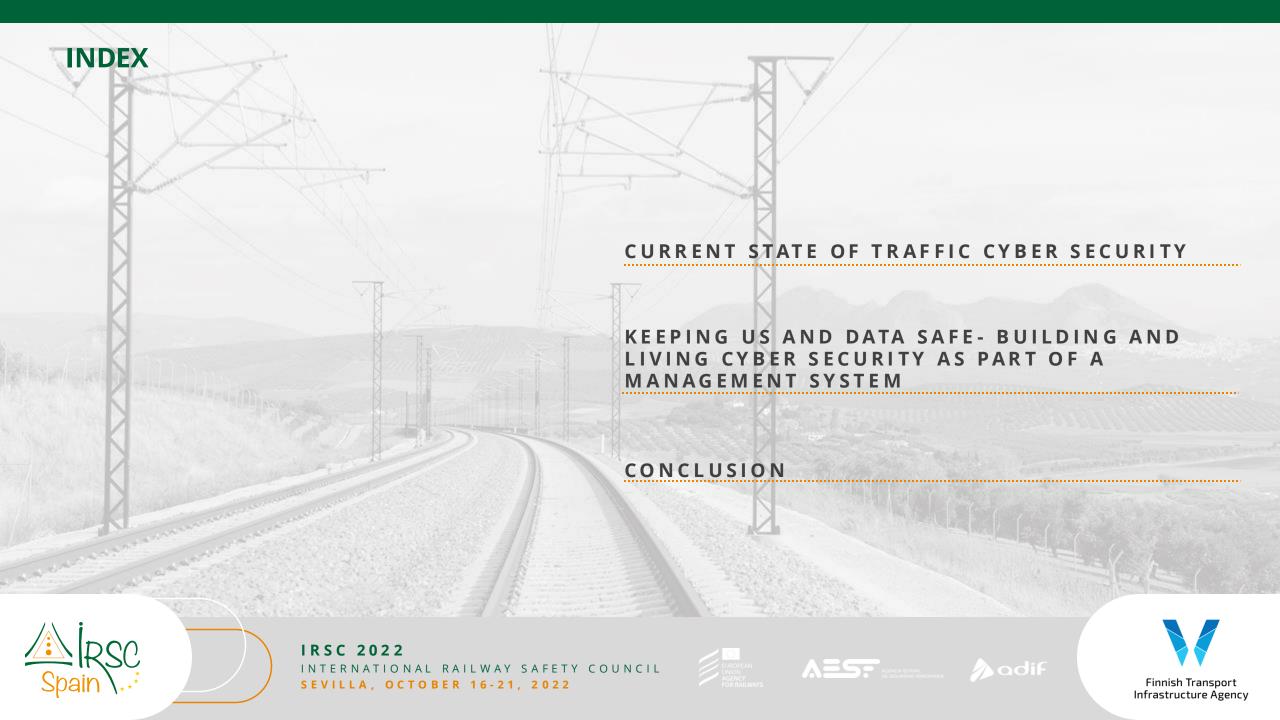














TRAFFIC IS INFORMATION

















CYBER CHALLENGES IN RAIL TODAY

- According to European Network and Infromation Security Agency railway cyber challenges are
 - Low digital security awareness
 - Difficulty in reconciling safty and cyber security worlds
 - Digital transformation on railway core business
 - Dependence on supply chain
 - Geographic spread and legacy systems
 - The need to balance security, competitiveness and operational efficiency
 - Complexity and lack of harmonization of regulations







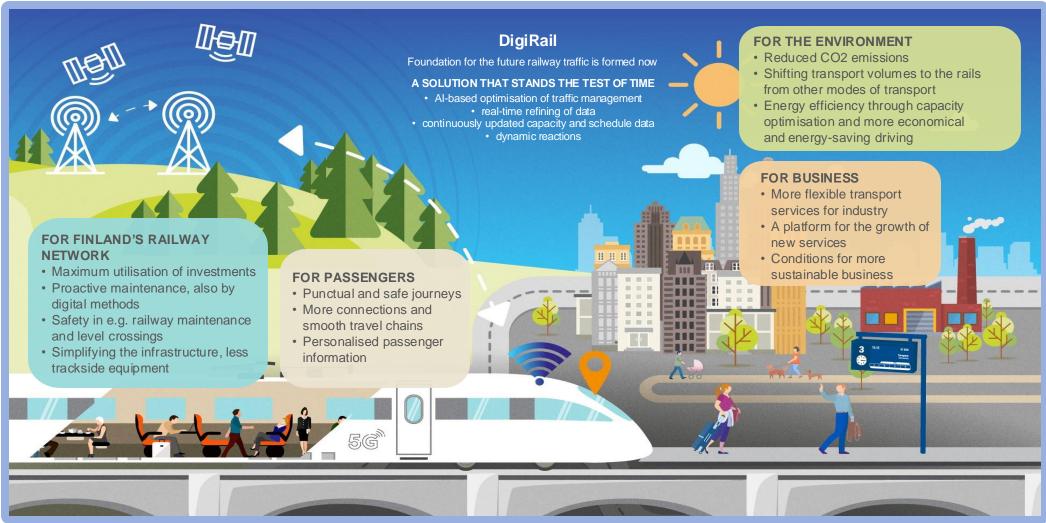








DIGIRATA - DIGIRAIL

















CYBER SECURITY MANAGEMENT SYSTEM

- Identification and analysis
- Competences
- Sharing of information



- Changes in working environmet and effects on "traditional" cyber security workstreams
- Risk identification, assessment and management
- Identification and protection of business critical environments
- Contingency planning



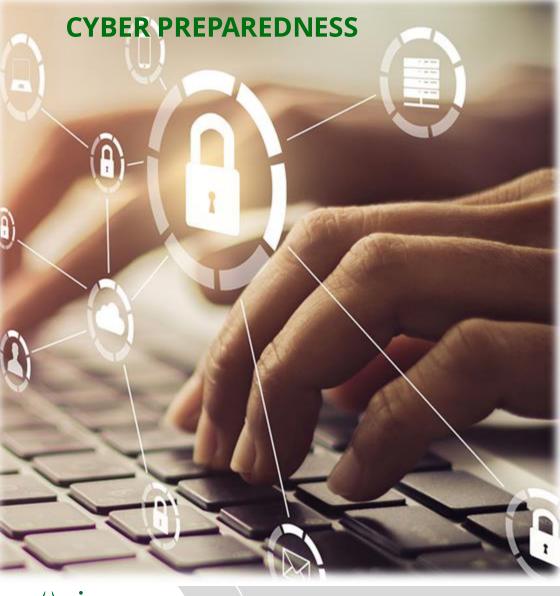












- Contingency plan
 - Updated regularly
 - Adds to normal traffic procedures for degraded operations (ie. OPE TSI EU/773/2019)
- Training
- Auditing
- Analysing potential threats
- Risk management
- Programmes to continuously improve cyber security











RAIL CYBER SECURITY PROGRAMME

 Goal is to further strengthen reliability of the rail system and its various components through administrative, physical and IT measures

Accomplishments so far

- Subsystem and present state of cyber security mapped
- Boost on knowledge
- Information security requirements done
- Cyber security principles and requirements for traffic management done
- Cyber risk management concept improved



2020 2021 2022 2023 2024















CYBER SECURITY IS NOT JUST TECHNICS



Attempts to influence start with people and end with people

We together make our operations cyber secure!

















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