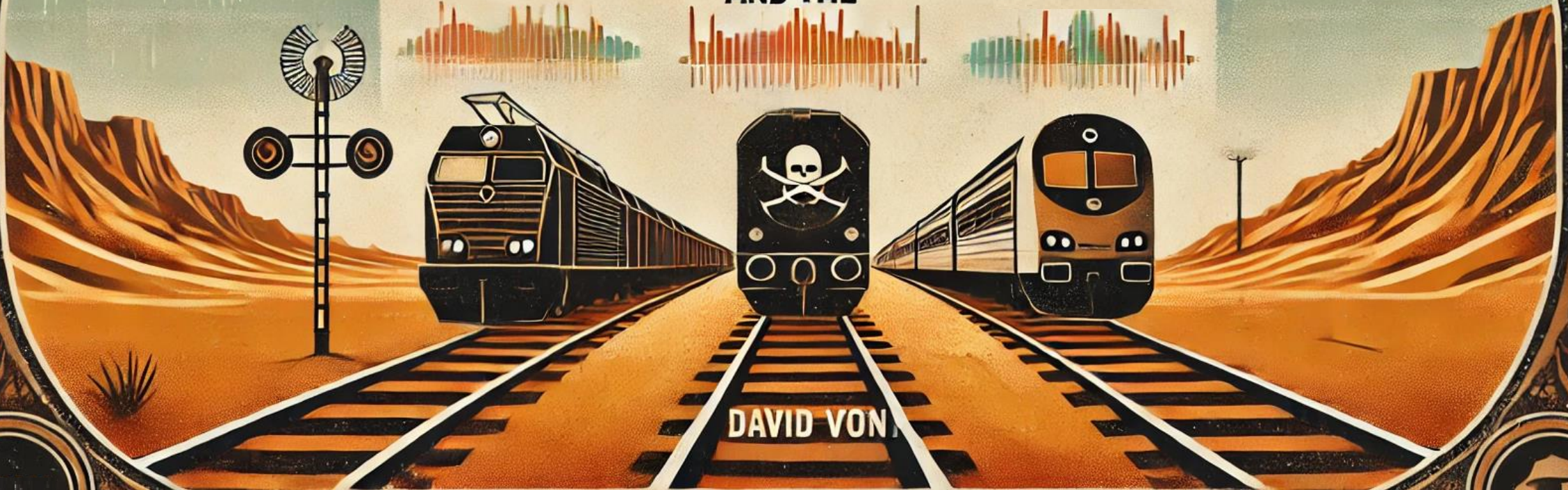


**CYBERSECURITY**

# THE RAIL SECTOR

**NIS2**

## THE GOOD - THE BAD, UGLY AND THE



DAVID VONK

**VONK**

**PRESENTED BY: THE NETHERLANDS HUMAN  
ENVIRONMENT AND TRANSPORT INSPECTORATE**





Human Environment and Transport  
Inspectorate  
*Ministry of Infrastructure  
And Water Management*

# The Good, The Bad, and The Ugly of the Rail Sector

Levelling the infosec playing field through NIS supervision

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Department Cybersecurity Oversight

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<https://www.ilent.nl/onderwerpen/toezicht-op-cybersecurity>

September 2024

**TLP:GREEN**



# The Good

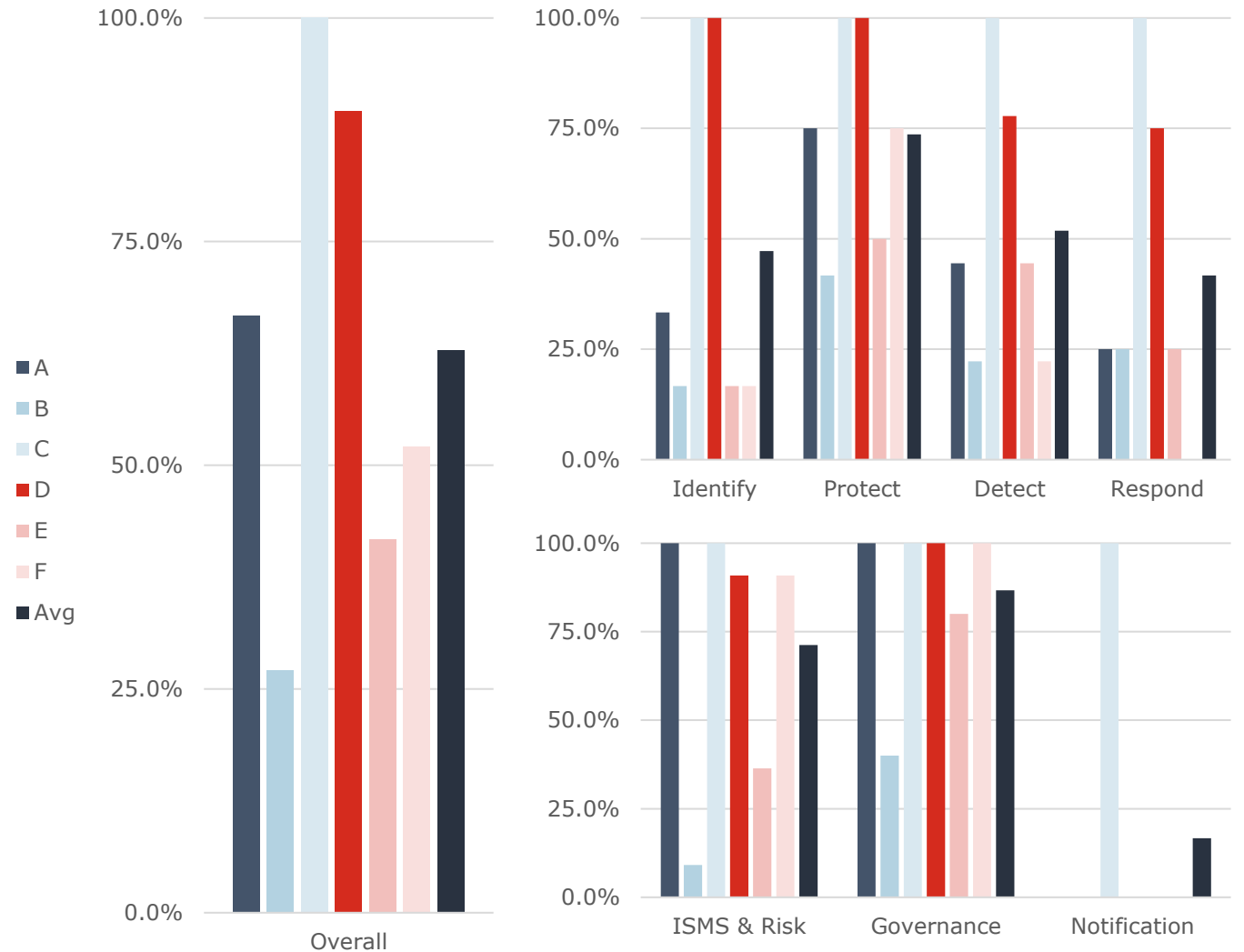
## What We Look For

Management System

Risk Analysis

Cycle: Plan – Do – Check – Act

### NIS Conformance Passenger Rail





# The Bad Could be Better

## Transporters Don't Know Their Trains

E.g. IEC 61375 Train Communications Network  
Transporter is responsible

## Tone at the Top

Management Commitment & Knowledge

## InfoSec vs. Small Profit-Margin

Especially where Rail is secondary to local (bus/tram/metro)  
InfoSec complicates new market entry & competition



# The Ugly Work in Progress...

## Long Lifetime, Little Support

No Security Pre-2014 (adoption ETH IEC 61375 )  
Retrofits are expensive, some transporters DIY → SecApp

## Physical Security

Passenger access to maintenance panels

## InfoSec vs Safety

E.g. Automatic Train Operation  
Coupling trains

## Incident Reporting & Sharing

Also exchange of knowhow



TenderNed

Zoeken in aankondigingen

Home Aankondigingen Analyse Ondernemingen Aanbestedende diensten Hulp

Inloggen / Registreren

← [Terug naar overzicht](#)

29 jul. 2021 - Aankondiging van een opdracht - speciale sectoren

Security Appliance

NS Groep N.V.

Op de hoogte blijven

Deel op LinkedIn

U kunt inschrijven op <http://www.nsprocurement.nl/en/contact/>

Details Publicatie Documenten Vraag en antwoord

Omschrijving

With the project Security Appliance NS aims to realize a solution in its Rolling Stock, designed to optimally protect this Rolling Stock against Cyber Security threats.

Details

Juridisch kader  
Aanbestedingswet 2012

Type opdracht  
Leveringen

Procedure  
Mededingsprocedure met onderhandeling

Trefwoorden  
Cyber, Security, appliance

Hoofdpoddracht (CPV code)  
34600000-3 Spoor- en tramlocomotieven, rollend materieel en onderdelen

Planning

Aanvang opdracht  
27 mei 2022

Voltooiing opdracht  
27 mei 2030

Sluitingsdatum  
30 sep. 2021, 13:00

Gerelateerde publicaties

Geen

Omschrijving

With the project Security Appliance NS aims to realize a solution in its Rolling Stock, designed to optimally protect this Rolling Stock against Cyber Security threats.

Europees of nationaal  
Europees



# RAISING AWARENESS FOR THE EUROPEAN NIS DIRICTION IN THE RAIL SECTOR



## Extra: What we Do

1. Raise Awareness
  - Transporters
  - Safety-Inspectors
2. Require Risk Analyses
3. Level the Playing Field
  - Asking the same maturity everywhere to reduce unfair competition

# Extra: Future Challenges

## Transition to DAC

### IIoT sensor dependance (over backbone)

