

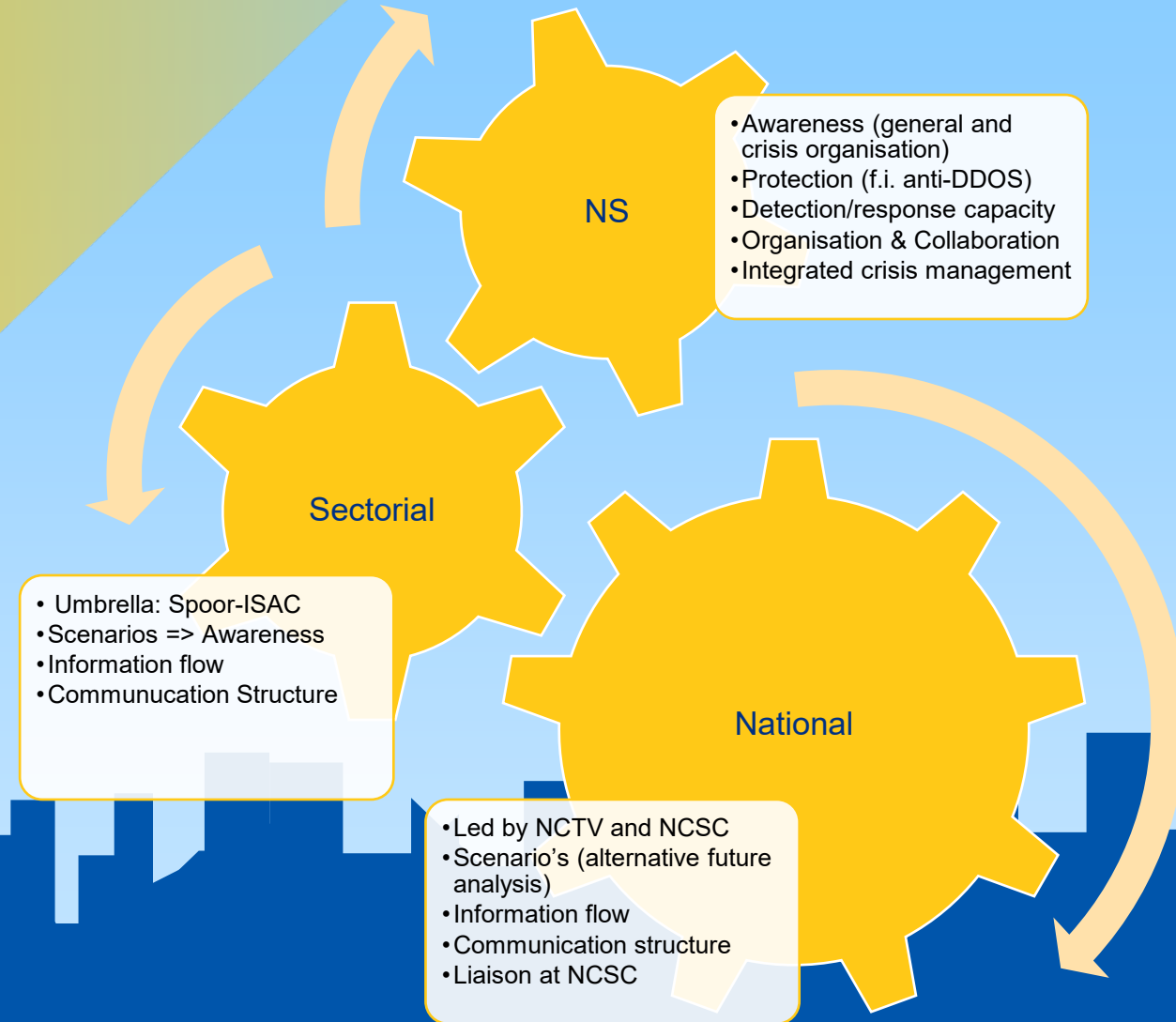
# Cyber Crisis Management

Joseph Mager, manager Cyber Governance  
Nederlandse Spoorwegen N.V.



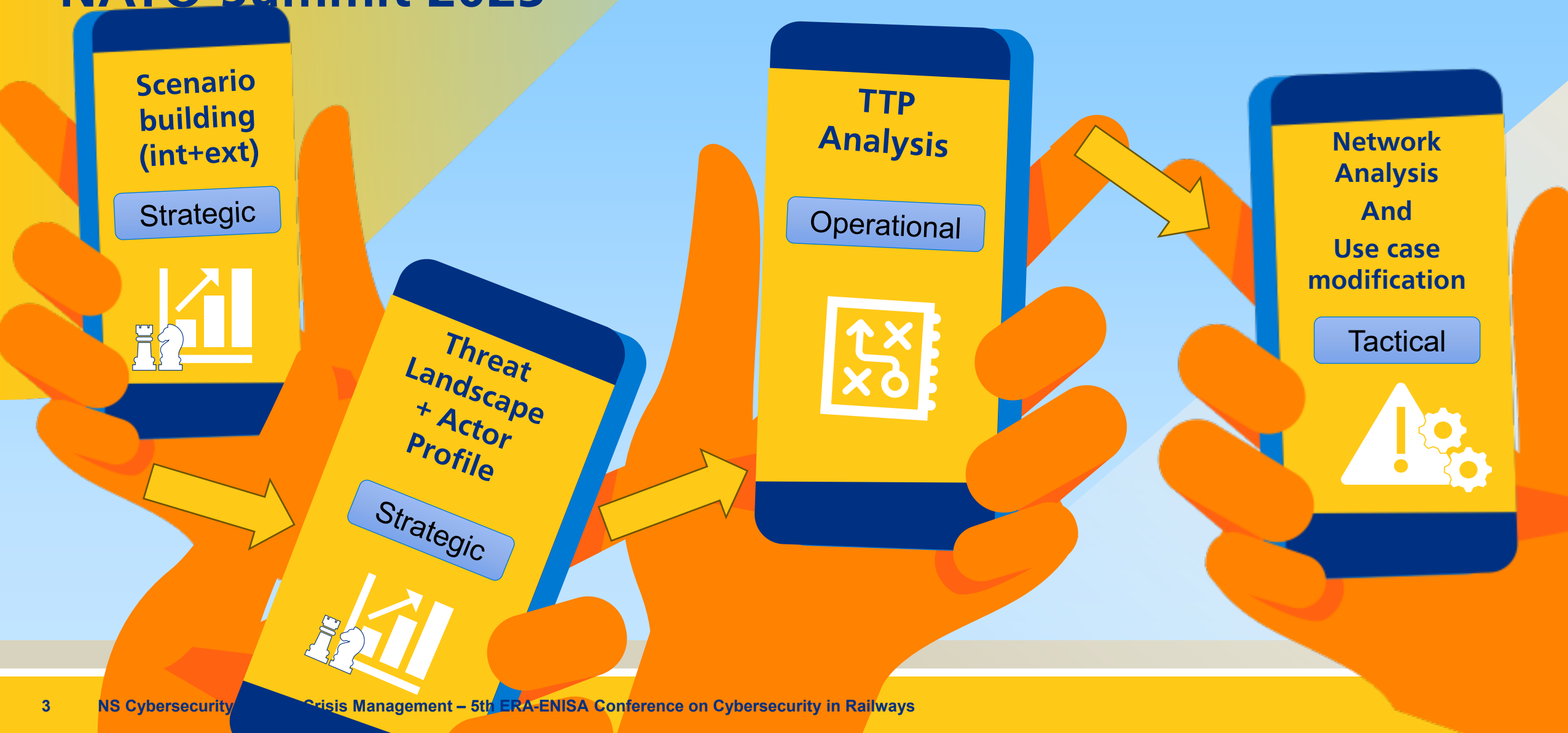


# NATO Summit: Preparation

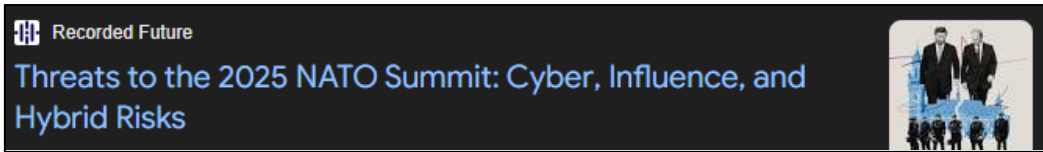


# CTI based preparation

## NATO Summit 2025



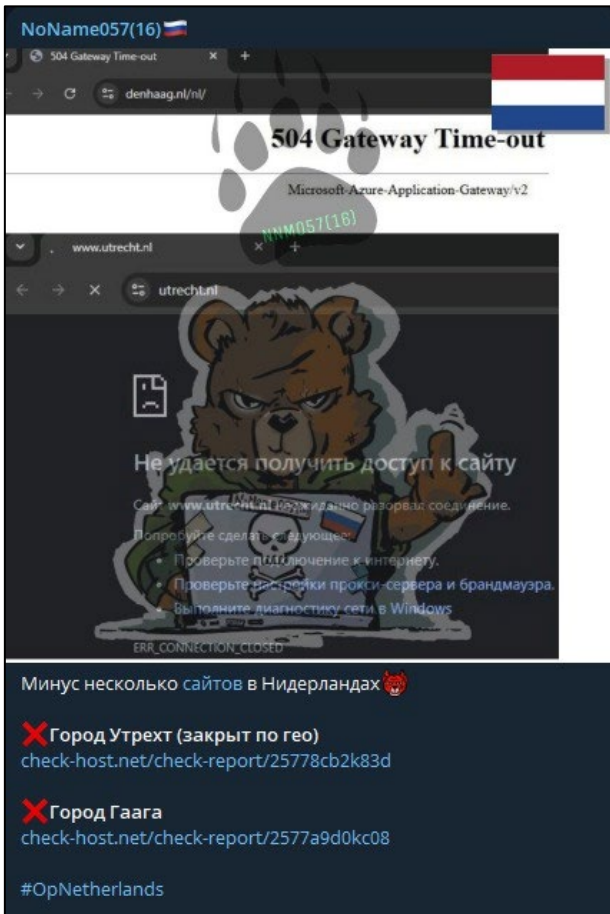
# NATO Summit: During the Summit



NIEUWS

## Politie: spoorbrand op startdag NAVO-top met opzet gesticht om treinverkeer te verstoren

**Spoorbrand** Er zijn geen aanwijzingen dat een land verantwoordelijk is voor de spoorbrand.





# Hoe spannend werd het tijdens de NAVO-top?

De NAVO-top in Den Haag verliep op het oog misschien rustig – achter de schermen gebeurde er van alles. Wat ging goed, wat ging mis en hoe spannend werd het?

## Zo is NS georganiseerd

Vanuit de NS-meldkamer houdt het Landelijk Calamiteiten Coördinatie Team (LCCT) de situatie nauwlettend in de gaten. Korte lijntjes zijn er met teams van ProRail en Politie op het OCCR.

Op Den Haag Centraal staan teams van Veiligheid & Service (V&S) en de politie paraat.



# NATO Summit: the aftermath

- Informing all employees on approach
- Evaluation of lessons learned
  - Positive: collaboration at all levels
- Reuse of approach for other (major) events

# Crisis Management at NS

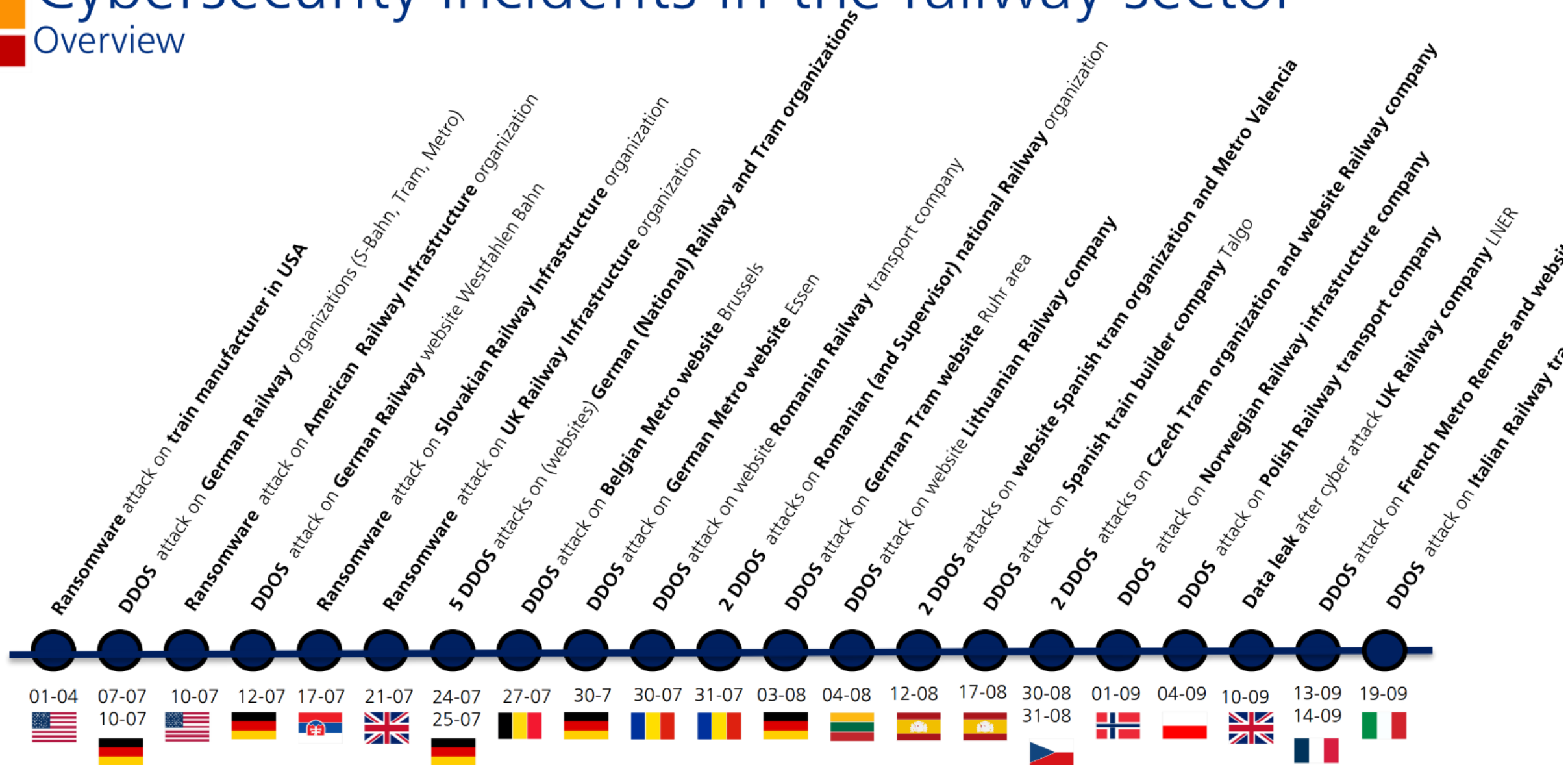




# Cybersecurity incidents in the railway sector

## Overview

ILP AMBER



Disclaimer: Most important incidents are displayed until date of delivery NSCS:CTL. For more information, see [Railway Sector Cyberattacks \(sharepoint.com\)](https://sharepoint.com)

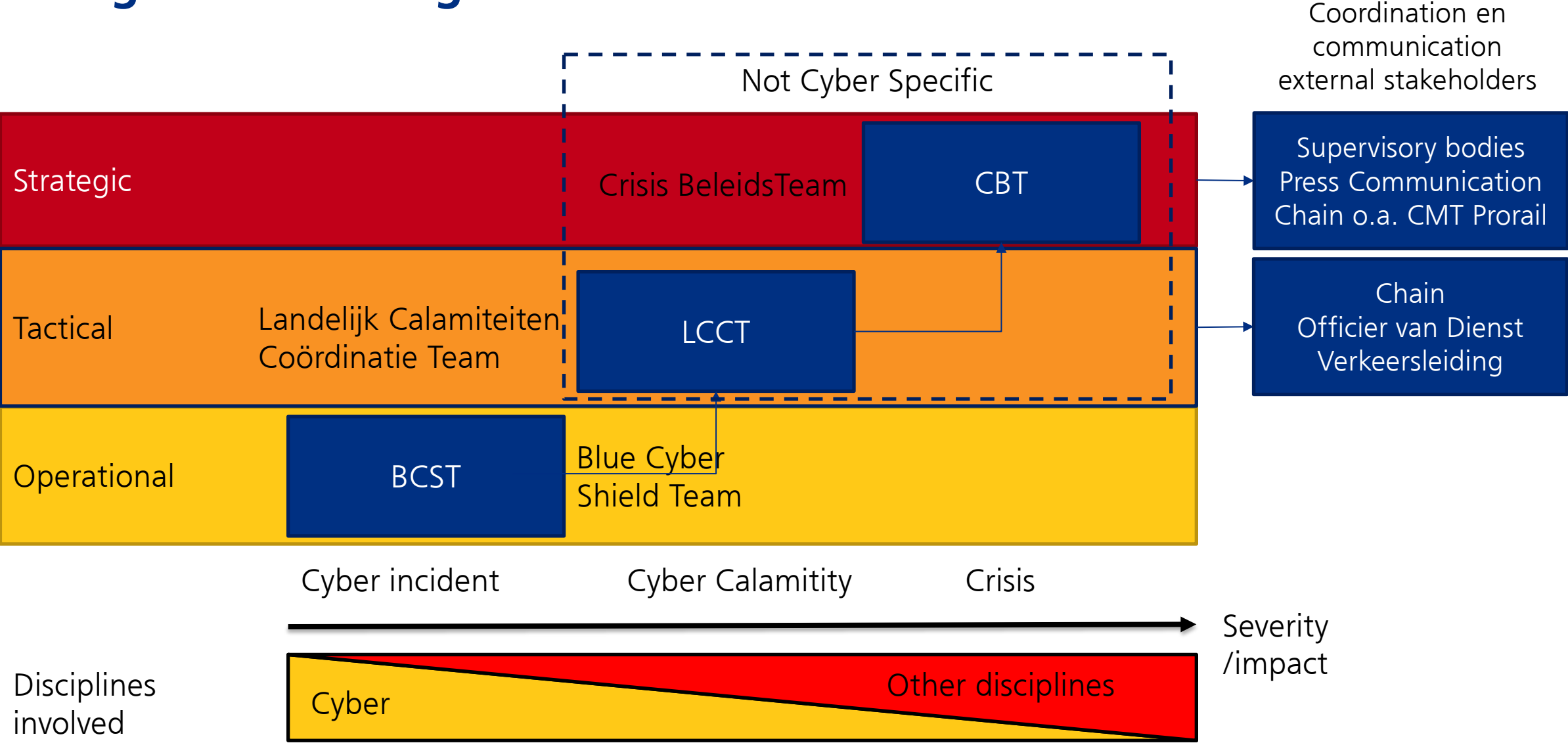




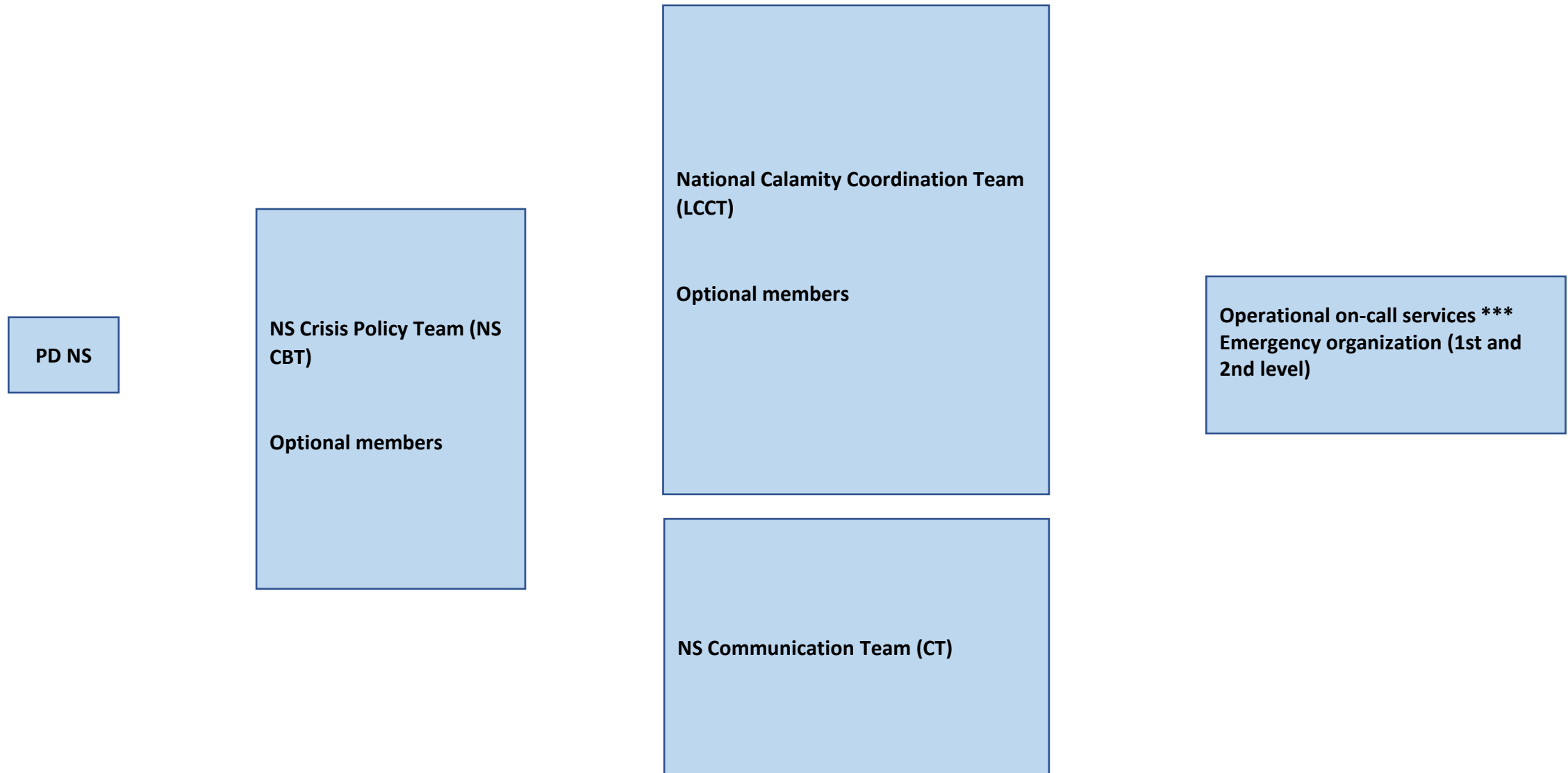
# But a cyber crisis is just another crisis

- Use overarching NS crisis management organisation
- Use overarching NS crisis management processes
- NS Cyber Crisis Management Plan for specific cyber related aspects (as for other types of crises)

# Using the Crisis organisation and escalation



# Crisis Management Organization





# Cyber crisis specifics

- Aspects to consider:

- Priority of safety versus continuity of operation
- How to deal with extortion
- How to deal with cybercrime
- How to deal with forensic investigation

- Critical decisions:

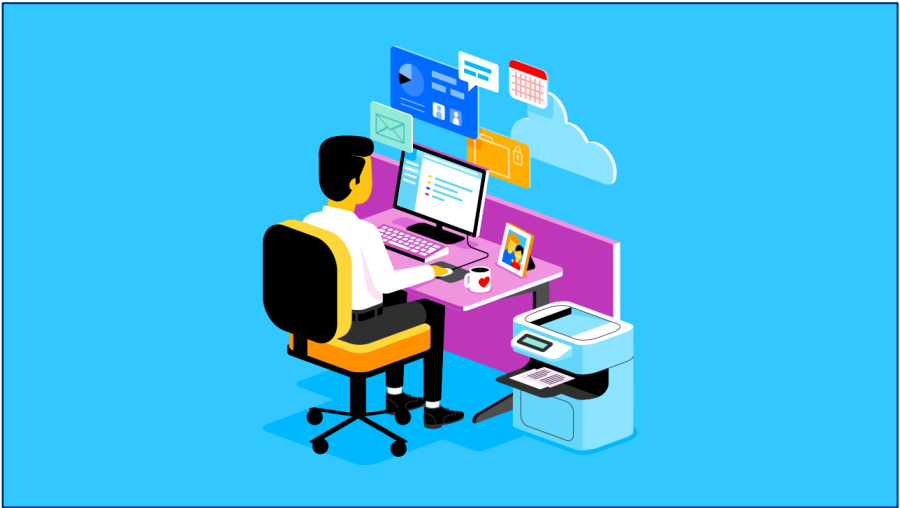
- Threat of losing operational control
- Deadline for payment
- Data breach becoming public

# Scenario approach



Type crisis	Cyber incident on NS rolling stock
<b>Specifics crisis profile?</b>	
Main impact areas and specifics in terms of impact?	
<u>Specific objectives and principles?</u>	
Possible critical moments and decisions?	
Special stakeholders/partners? (For example, because of specific authority or expertise)	
<b>Special features in the preparation?</b>	
Have you prepared specific facilities?	
<u>Additional external expertise required?</u>	
Certain plans and procedures that the team should not forget?	
<b>Specifics in terms of signaling, alerting and/or informing?</b>	
<u>Derogations?</u>	
<b>Peculiarities in reacting and limiting negative consequences?</b>	
Peculiarities in the first response?	
Specific interpretation of crisis organization?	
Specifics in upscaling: for example, direct CBT?	
Our role in the chain?	
Likely government scale-up? Special government partners? (For example, specific knowledge institutes, national role, etc.)	
<b>Specifics of post-phase and recovery?</b>	
Special aspects of recovery?	
E.g. because of complexity or long duration?	
Specific topics that require special attention?	
Specific interpretation of the post-phase organization?	

# IT Impact



Systeem	
Naam	Werkplek
Belangrijkste applicaties	WPOL / Citrix / Thin Clients / Laptops / HAHP <del>werkplek</del>
Bedrijfsproces	O5
Eigenaar	IT
IT	IT I&O
Beschrijving	
Belang	
Impact op de dag	
Business <del>Continuity</del> Maatregelen	





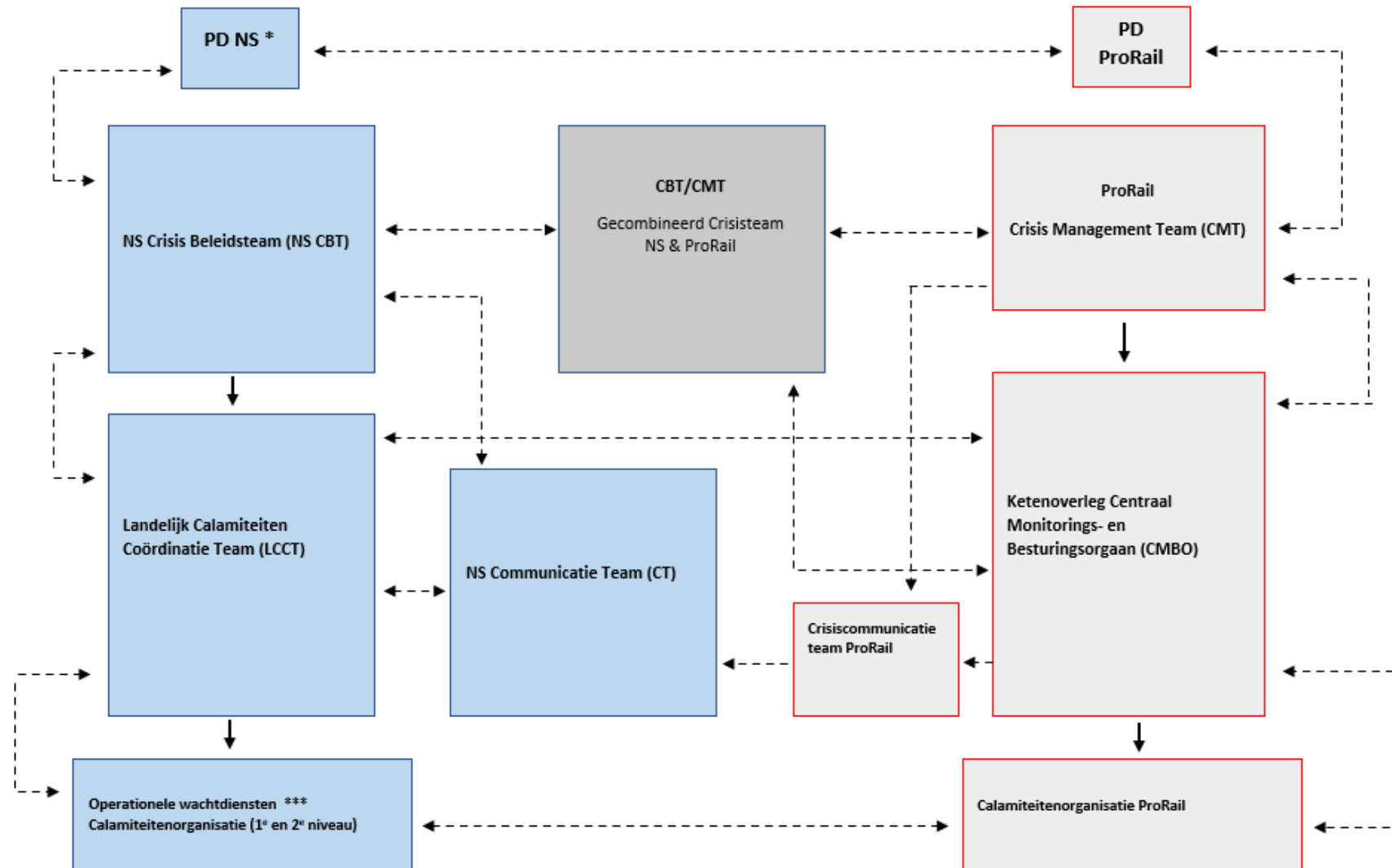
# Crisis Management in the rail sector



# Combined Crisis Management Organization

Crisis Management Organization NS

Crisis Management Organization ProRail



# Crisis Management - Exercises

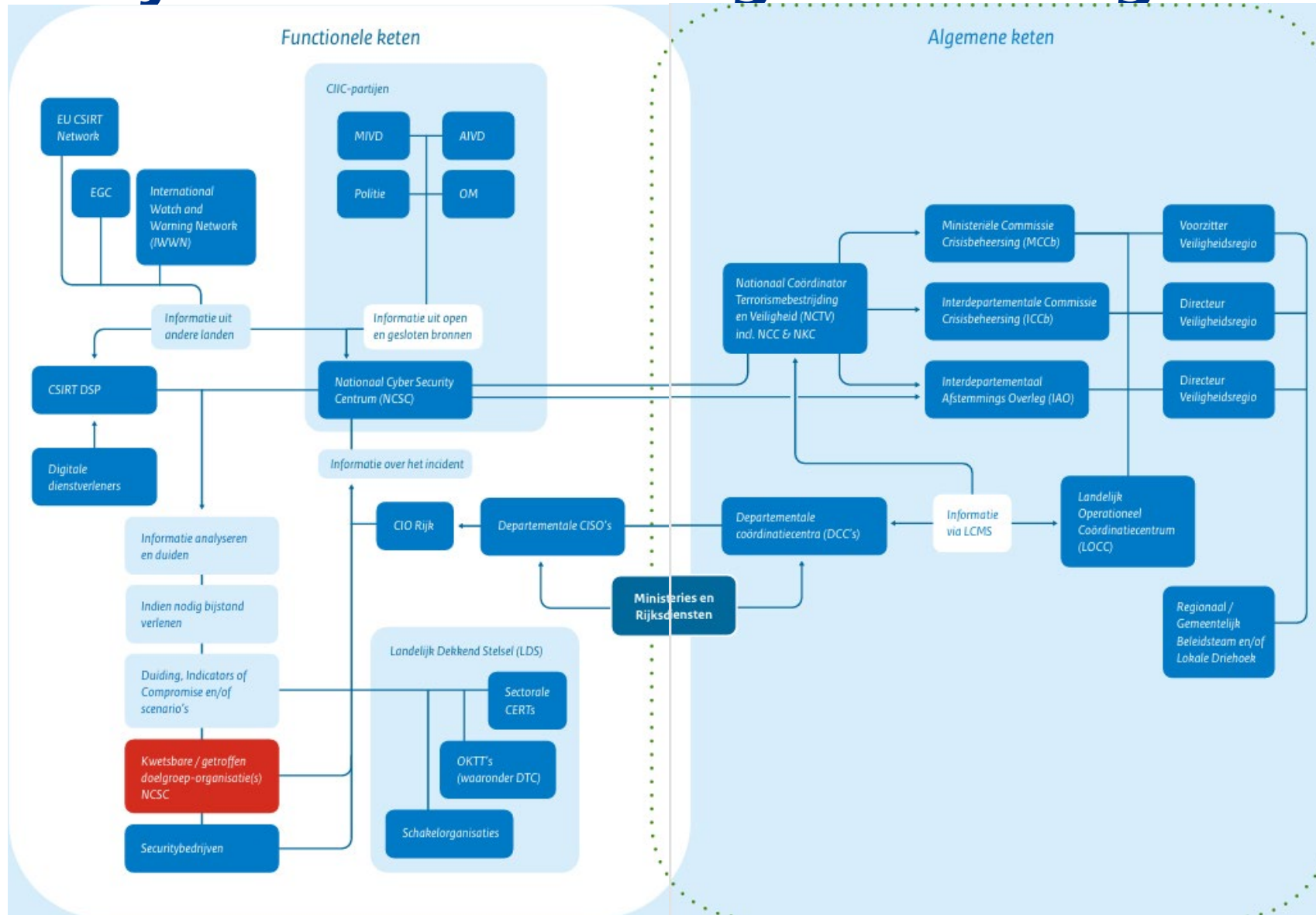
- Included in planning per year for crisis management exercises
- Joint exercises with infrastructure manager with joint preparation
- Participation in national exercises (ISIDOOR)
- Evaluation of each exercise
  - Processes of regular crisis management
  - Cyber specific aspects



# Crisis Management at a national level



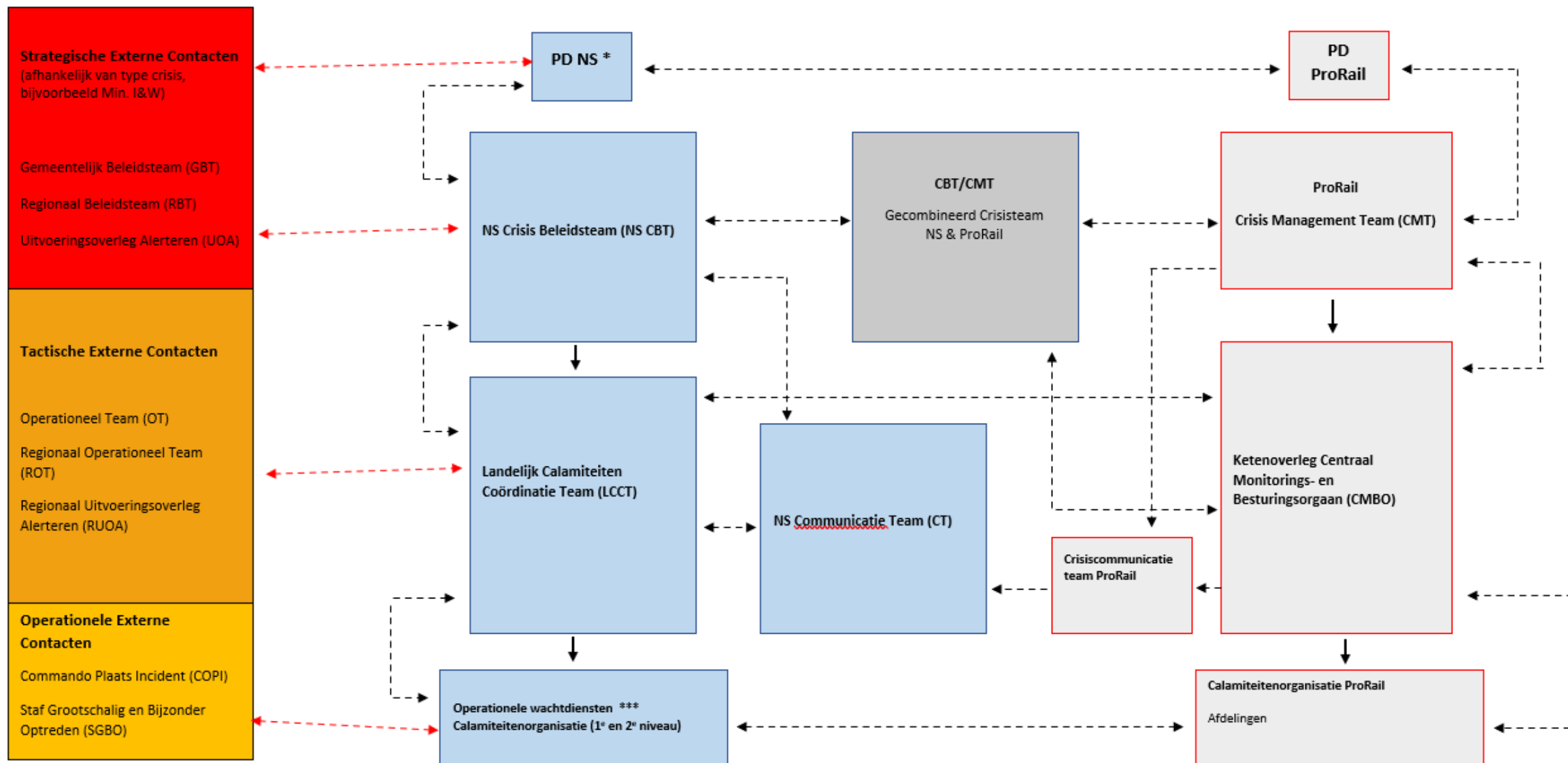
# National Cyber Crisis Management Organization



## Crisis Organization Government

## Crisis Management Organisatie NS

## Crisis Management Organisatie ProRail





# Our experience



Cyber crisis is just a crisis but somewhat different



Avoid fixation on going back to normal business



Practice at all levels, with sector and with suppliers



Use a realistic scenario, base these on incidents



Use a “planned” crisis



Collaborate & communicate



# Questions

