



Ministry of Infrastructure
and Water Management

EMS2 Pre-Test in The Netherlands

Nordic HCT Conference
9/10/2024

Loes Aarts

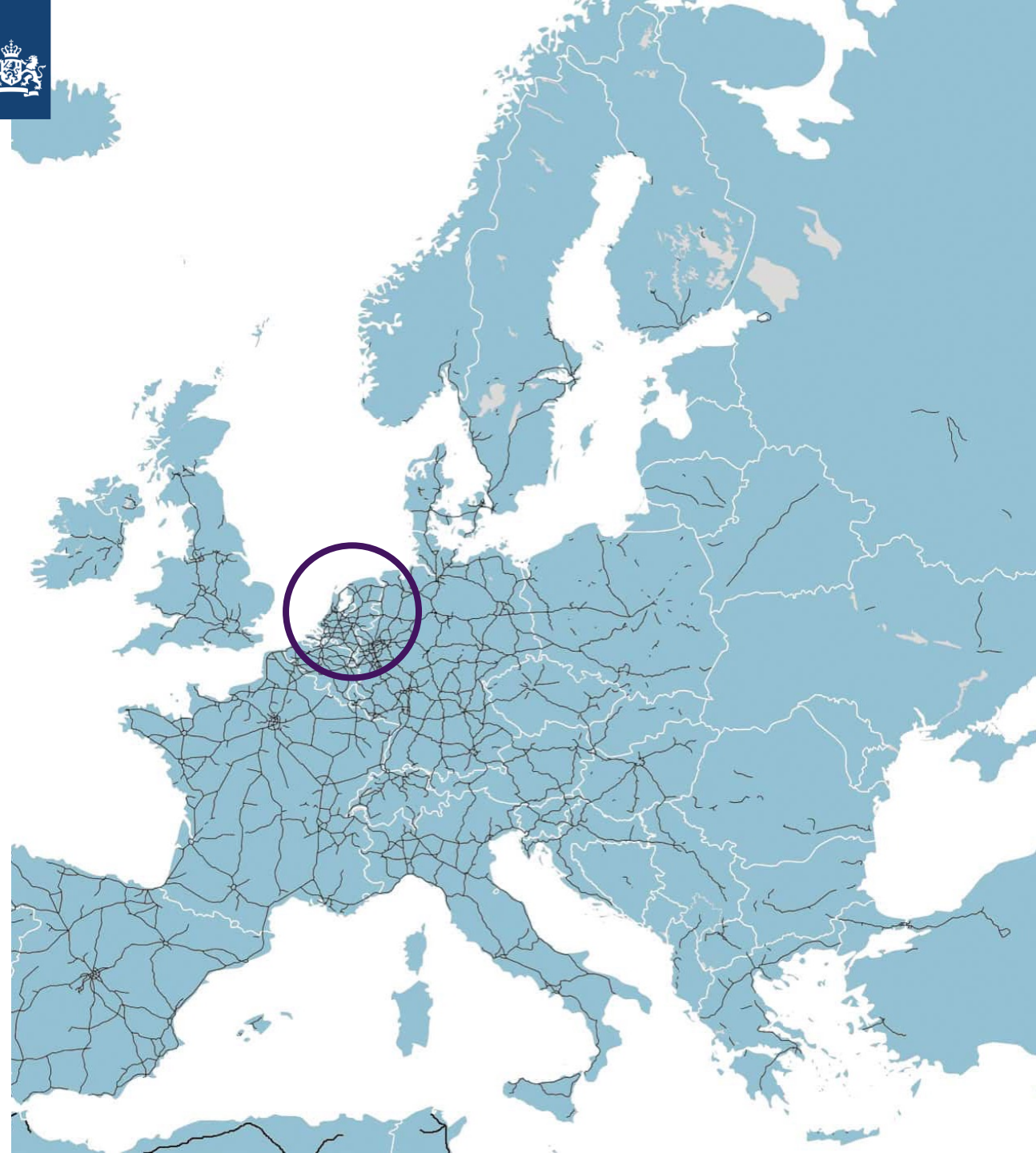
Senior Advisor Freight Transport

Ministry of Infrastructure and Water
Management / Rijkswaterstaat



Main objective EMS2 Pre-Test

- > Characteristic: complex, finely branched and intensively used network
- > Limited learning experiences available from abroad
- > Rule out indications that the road safety situation is getting worse due to the SEC





Set-up EMS2 Pre-Test

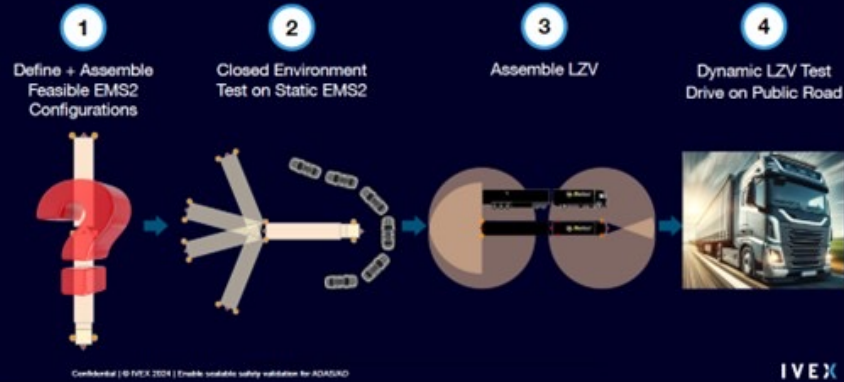
- > 1 EMS combination
- > Compared with TTC/EMS1
- > Government financier
- > No companies
- > No commercial cargo
- > Increasing complexity
- > Selected motorways + turning points at secondary roads

Fasen SEC Pre-Test	Q3 '24	Q4 '24	Q1 '25	Q2 '25	Q3 '25
1. Voorbereidende fase					
Optuigen organisatie	■				
Opstellen test- en validatieplannen		■			
Voorbereidingen test op de openbare weg		■			
2. Testfase					
Test 1 + 2			■		
Test 3 + 4				■	
Afronding SEC Pre-Test					■
Start voorbereiding SEC-Pilot				■	

Slow start, but in return a big step in scaling up at the start of the pilot



Validation Plan: Proposal Workflow



Product Workflow



3 Analysis & Visualization

IVEX Data Analytics Platform for events identification and further analysis

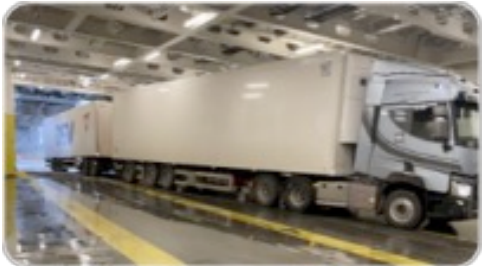





Innovative monitoring system

- › Focus on interaction EMS2 with other road users
- › Not only EMS2 as an actor, but also as a passive object
- › Data aggregation and built-in filters
- › DPIA and AIIA



Regulatory frameworks and EMS2-combinations

<i>Finland</i>	<i>Zweden</i>	<i>Denemarken</i>	<i>Spanje</i>
			

EMS2 Safe Starter Set based on foreign learning experiences
(Swedish concept)

Monitoring vehicle performance during Pre-Test

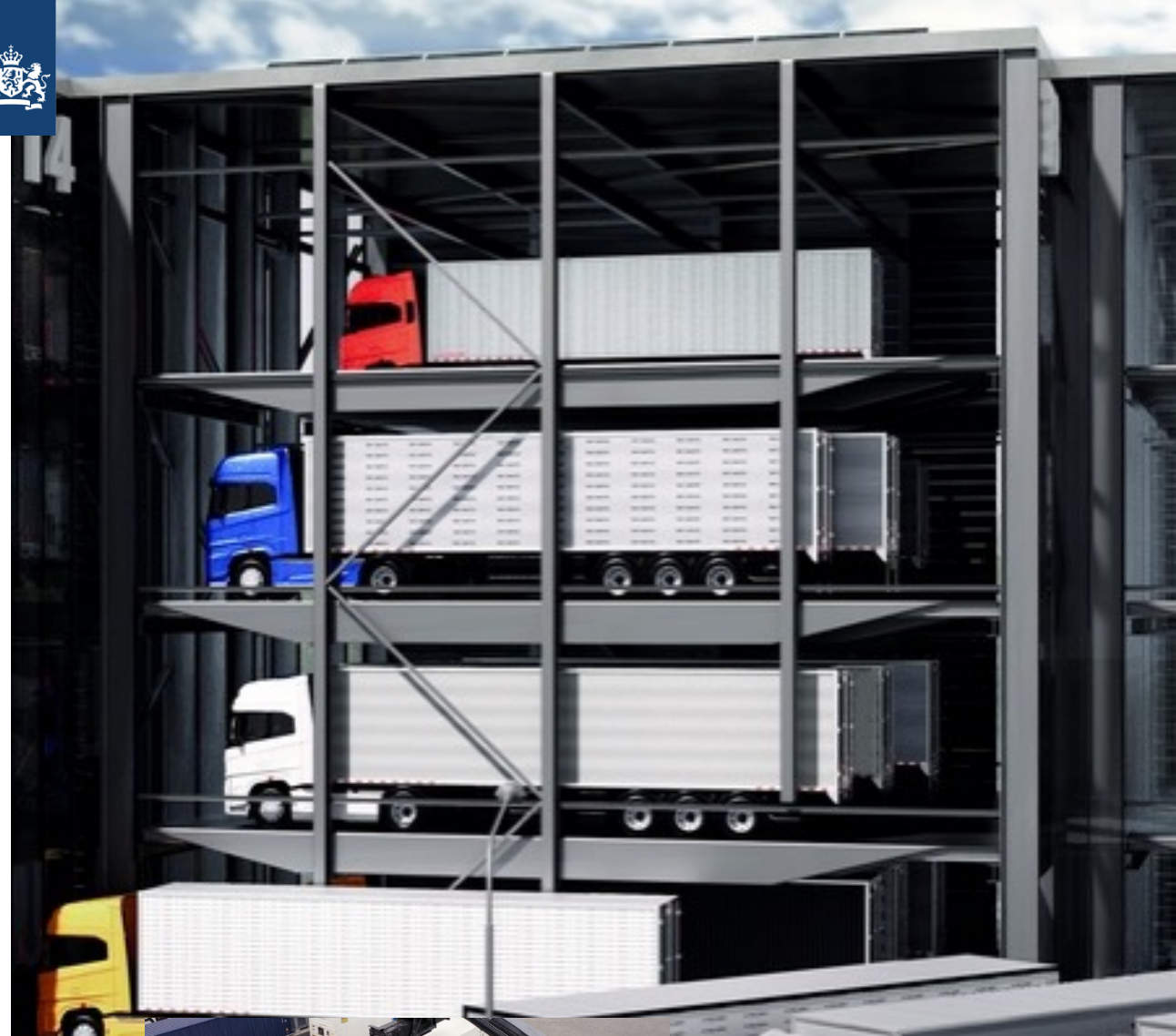
Exploring space for EMS2 Safe Starter Set variants

Solutions for conflicts with other regulatory frameworks



EMS2 network and decoupling points

- › 3 variants: private, public or combi
- › Elaboration of variants (participation rate, costs/benefits public and private, stakeholder analysis)
- › There is development time!





Thanks for your attention!

Suggestions or questions?

Love to hear about it ... after the session.

loes.aarts@rws.nl