



# NPTI introduction in the Netherlands

Results over the first 3 years and future developments

March 20, 2026

VERT Focus Meeting on NPTI for All Engines

METAS, Bern

Louis Zuidgeest

*Ministry of Infrastructure and Water management*



# Introduction of NPTI in the Netherlands

1. Results over the first 3 years
2. Improving the accuracy of Pn-testers
3. Pn-test for petrol vehicles
4. Plume chase measurements for Pn
5. Pn-test for checking NRMM





# 1. Results over the first 3 years

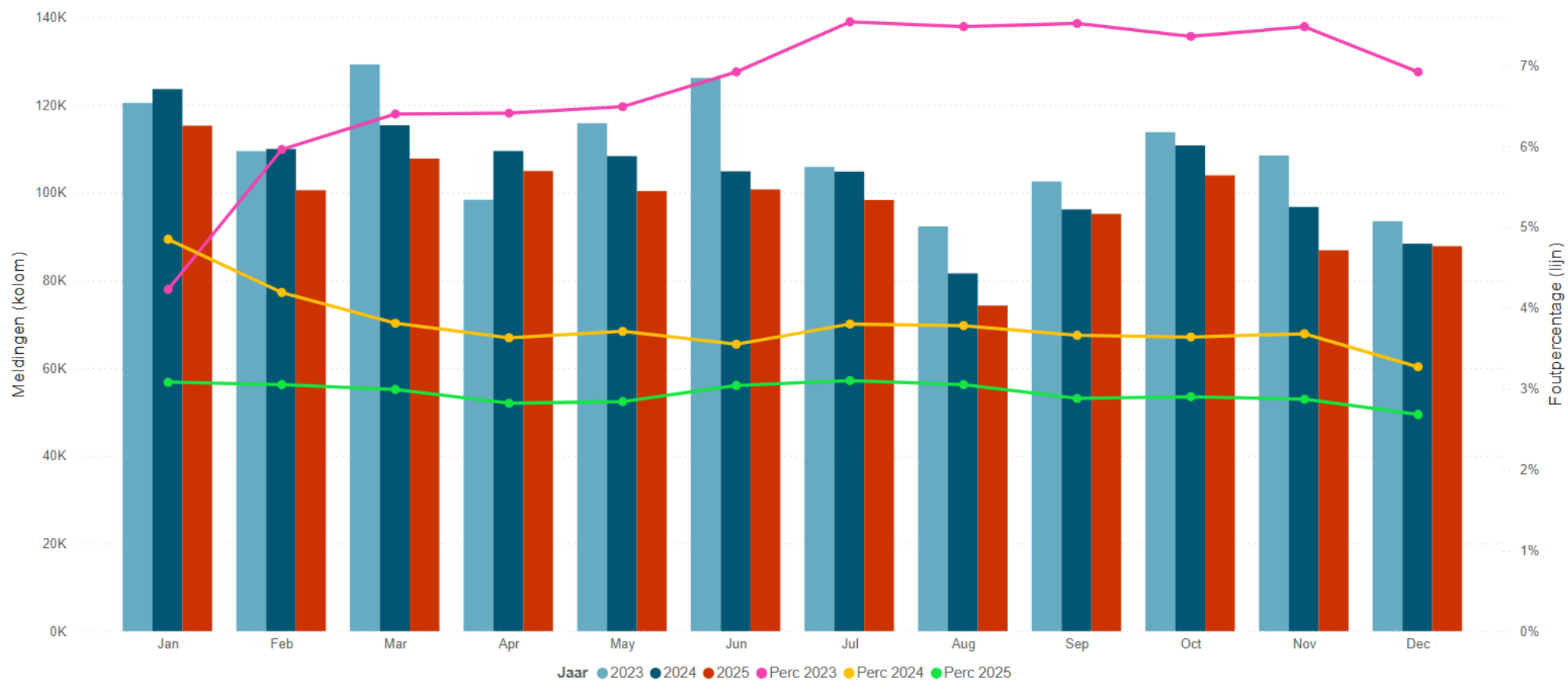
- 8100 PTI stations with a Pn-counter
- 4 million tests performed on LD vehicles  
LD rejection rate: 7% -> 3%
- 0,4 million tests performed on HD vehicles  
HD rejection rate: 0,4% -> 0,7%





# PTI passenger cars and vans 2023 - 2025

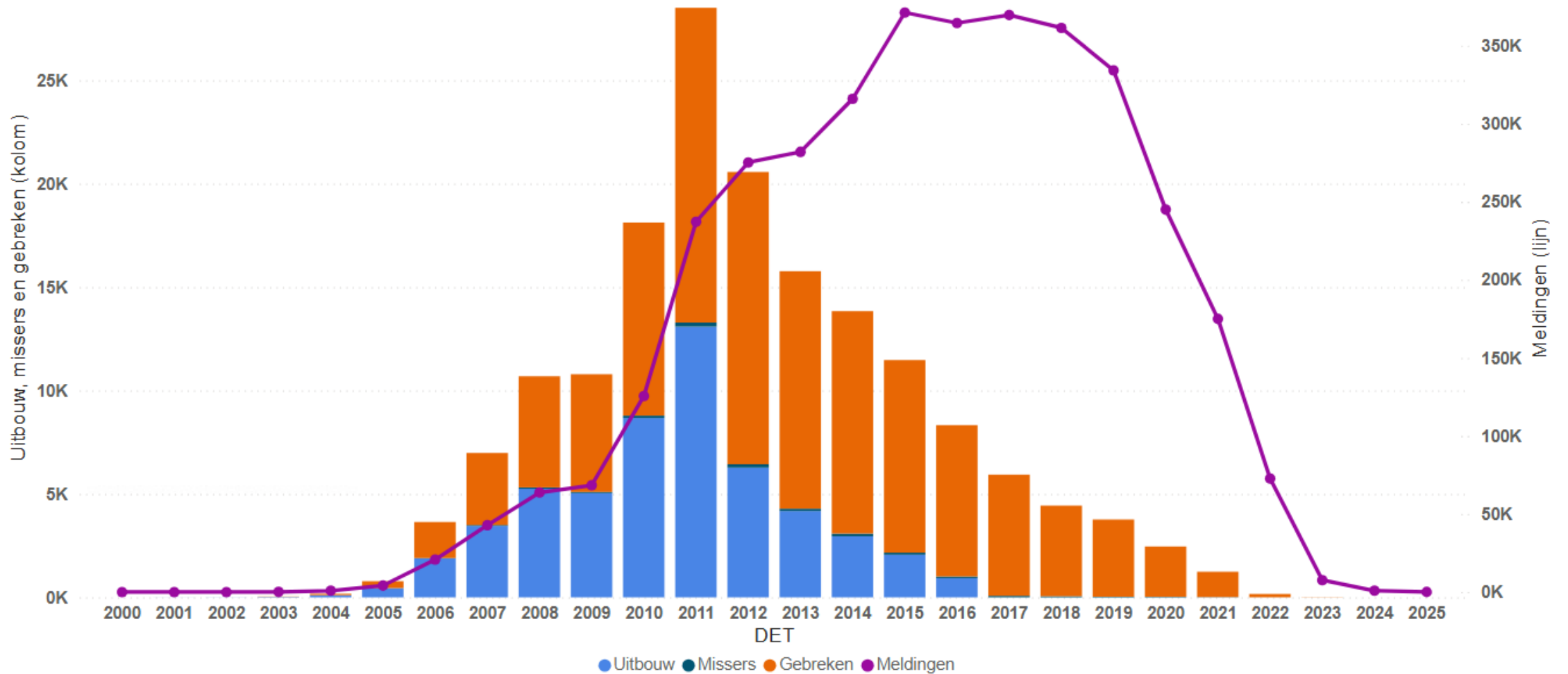
## Number of Pn-tests performed and rejection rate





# PTI passenger cars and vans 2023 – 2025

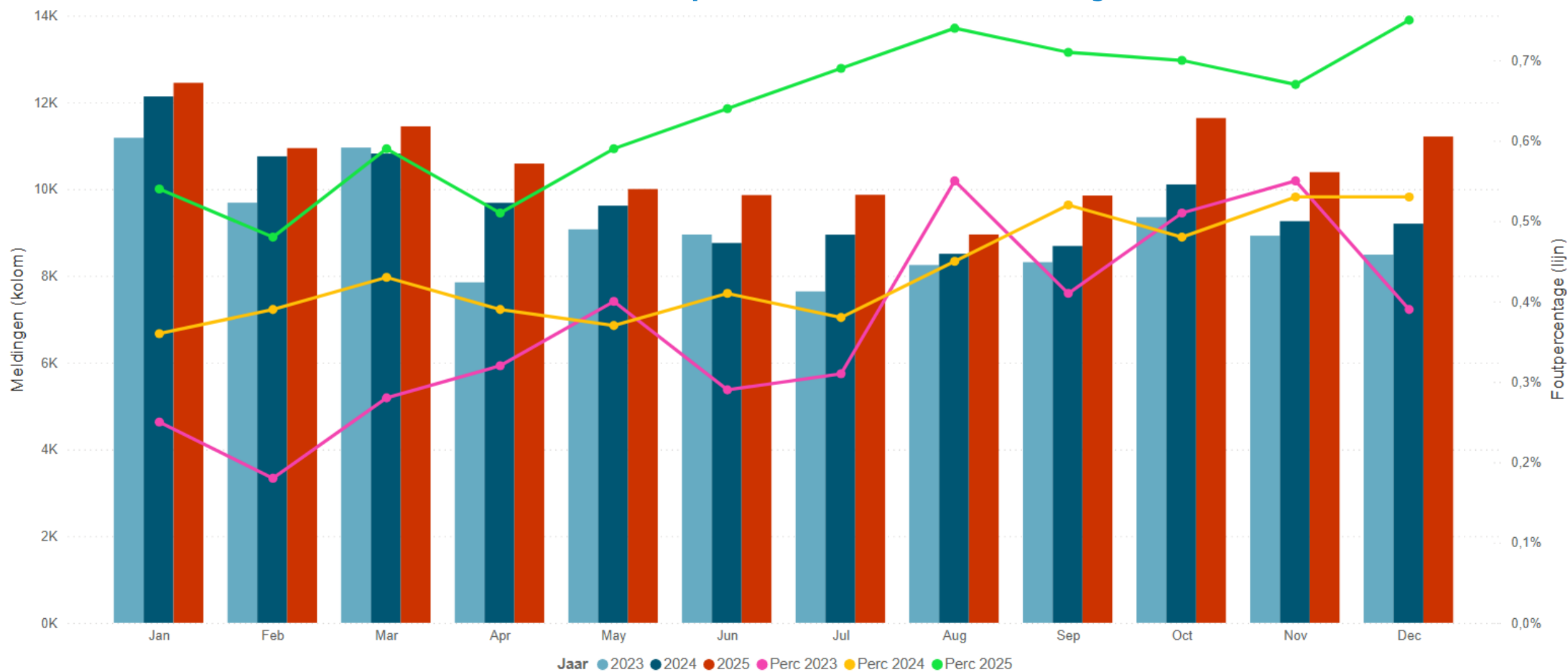
## Total number of Pn-tests performed and number of rejections by age





# PTI trucks and busses 2023 - 2025

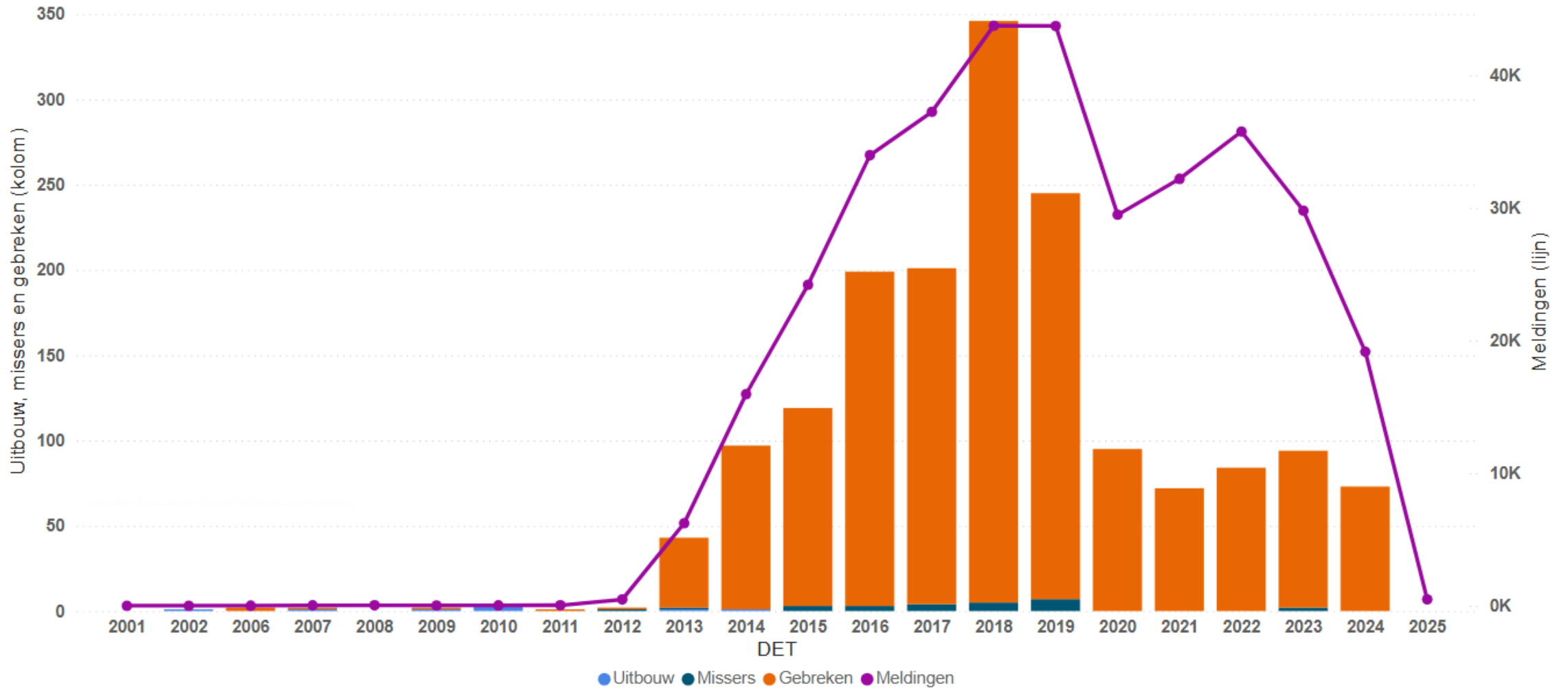
## Number of Pn-tests performed and rejection rate





## PTI trucks and busses 2023 - 2025

### Total number of Pn-tests performed and number of rejections by age





## 2. Improving the accuracy of Pn-testers

Commission Recommendation on Pn-testing for PTI:

- Subsequent verification of the accuracy of the Pn-PTI instrument should take place yearly.
- The portable setup for verification testing consists of a portable particle generator and traceable particle counter.
- The entire portable setup used for subsequent verification testing is tested by the responsible NMI.





# Improving the accuracy of verification testers

- In the Netherlands, portable setups for verification testing are now tested by the manufacturers.
- NMI will receive a contract from the Dutch Ministry in order to be able to test portable setups for verification testing.
- The plan is to conduct comparison tests at NMI and METAS using portable setups to examine the achieved accuracy.





### 3. Pn-test for petrol vehicles

TNO has conducted extensive research into the Pn-test for diesel.

TNO will now conduct further research into the Pn-test for petrol to investigate:

- What is the problem?
- How often does it occur?
- How can it be repaired and at what cost?
- What should the Pn-test for petrol look like?
- What should the limit value be?
- Can the same Pn-tester be used as for diesel?





## Pn-test for petrol vehicles

The EC's proposal for the RWP includes the introduction of a Pn-test for gasoline vehicles.

The measurement method and limit value still need to be worked out in the coming years.

Still a lot of questions to be answered. One thing seems clear: For petrol a Pn-tester with a different setting should be used than for diesel.

In order to leave open the option of not introducing the test, the Netherlands has proposed an optional implementing act instead of a mandatory act.





## 4. Plume chase measurements for Pn

- TNO's Plume Chase vehicle is now also equipped to measure Pn.
- Plume Chase research conducted by TNO will also examine Pn emissions from diesel vehicles with DPF.
- If high PN emissions occur, this may indicate a DPF regeneration.
- It could also be an indication for fraud in carrying out the Pn test or unauthorized vehicle preparation.





## 5. Pn-test for checking NRMM

- In the Netherlands, there is a program for Clean and Emission-Free Construction in public tenders.
- In this program emission requirements are set to mobile construction machines used in public tenders.
- Compliance with these purchasing requirements in public tenders is now being checked using a Pn-tester.





Thank you for your attention

