

CAMS National Collaboration Programme – The Netherlands

Title of Project: CAMS2_72NL_bis

Contractor and Subcontractors: TNO, KNMI, RIVM



Project Duration: 3 years
Start Date: 1 April 2025
End Date: 30 April 2028

WP30
Downscaling

WP40
Emissions

WP60
Communication

WP80
Demonstrator
for Health

CAMS Products:

- CAMS regional gridded emissions (WP30, WP40, WP80)
- CAMS regional air quality forecasts (WP30, WP80)
- CAMS policy support source contributions (WP30)

Main Activities:

- CAMS regional air quality forecast and source attribution (both LOTOS-EUROS) are downscaled over the Netherlands and disseminated in a public platform
- Positioning of downscaled CAMS source attribution tool in the Netherlands
- CAMS regional emission inventories for NO_x and NH₃ will be used for analysis and comparison with Dutch Emissieregistratie (PRTR) gridded emissions (produced by RIVM) and satellite-based emission product (produced by KNMI)
- Create a demonstrator on health, linking existing and new downscaled information with other public information to create improved forecasts.

Outcomes:

- Improved downscaled air quality forecast using state-of-the-art input datasets
- Concept design for multiscale (regional to urban) source apportionment
- Potential improvements for gridded emissions datasets
- Enhanced tool for providing air quality health related indicators

Main take-home message for CAMS (including challenges and opportunities):

Challenge: how to promote CAMS next to already existing national tools/products

Opportunity: CAMS NCP enables opportunities for improving national collaboration and discussions about the above (challenge)

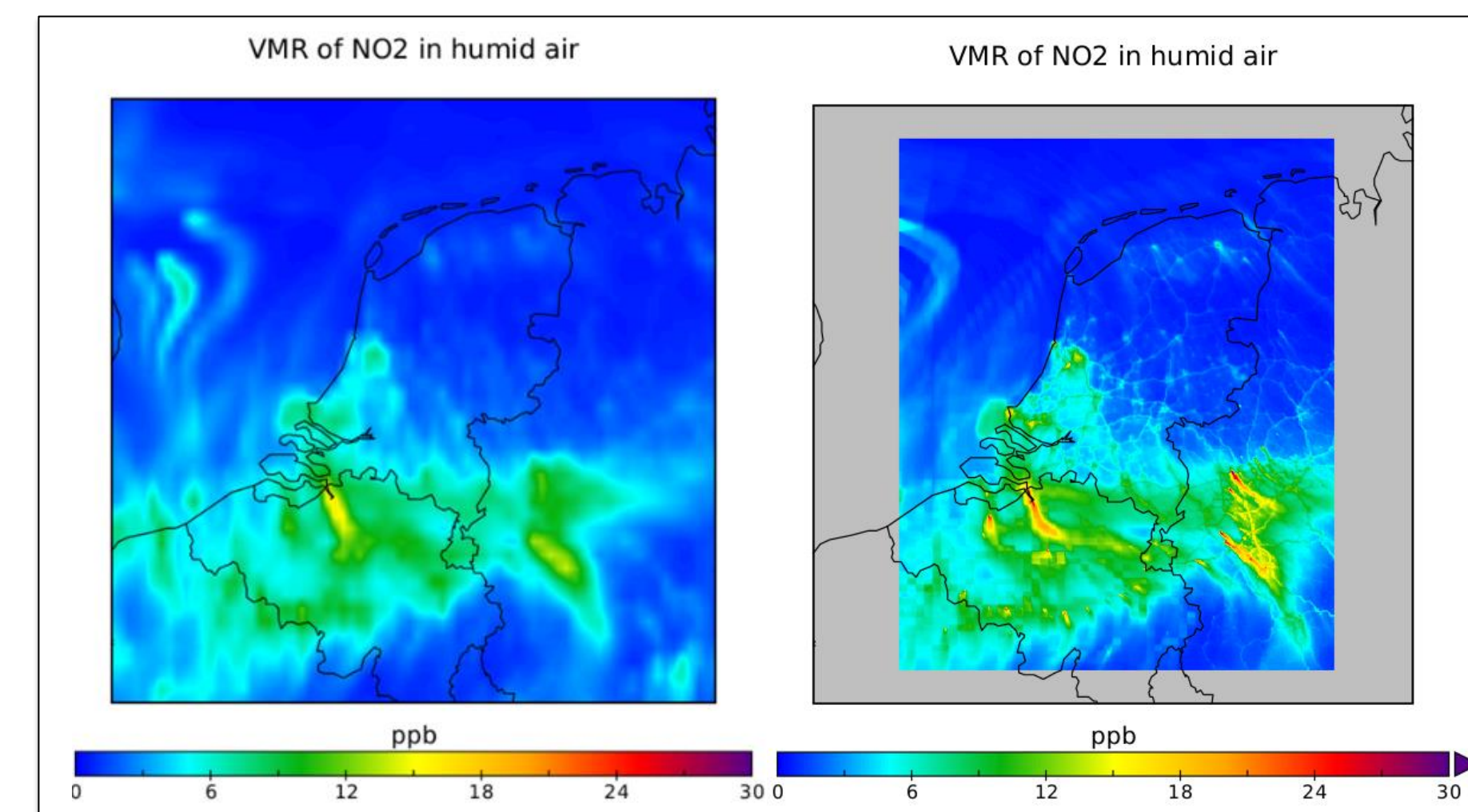


Figure 1: Volume mixing ratios of NO₂ for regional forecasts (CAMS2_40_EU, left) and downscaled forecasts (CAMS2_72_NL, right) at 1x1km².

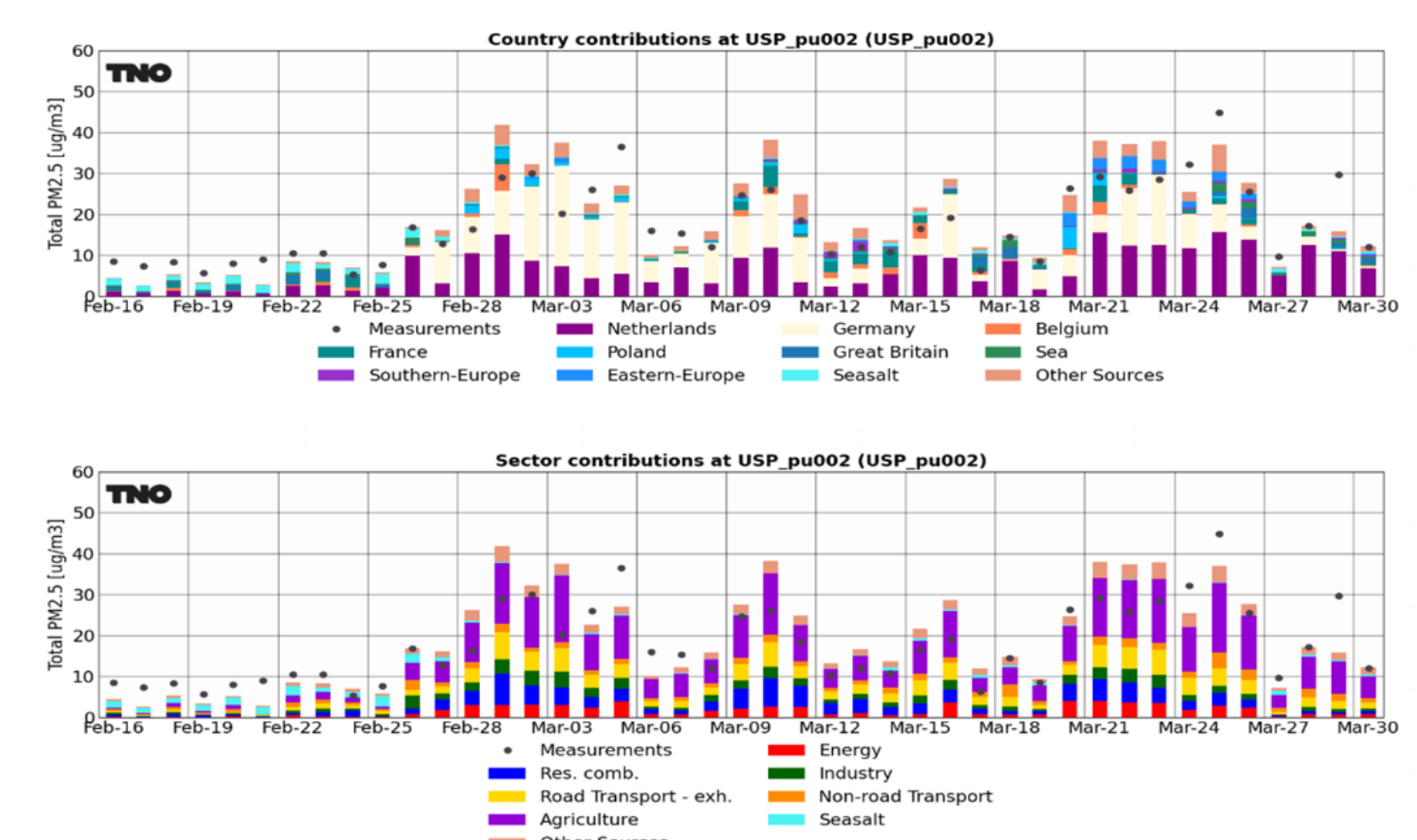


Figure 2: Source contributions (country and sector) for a measurement station in Utrecht, the Netherlands.

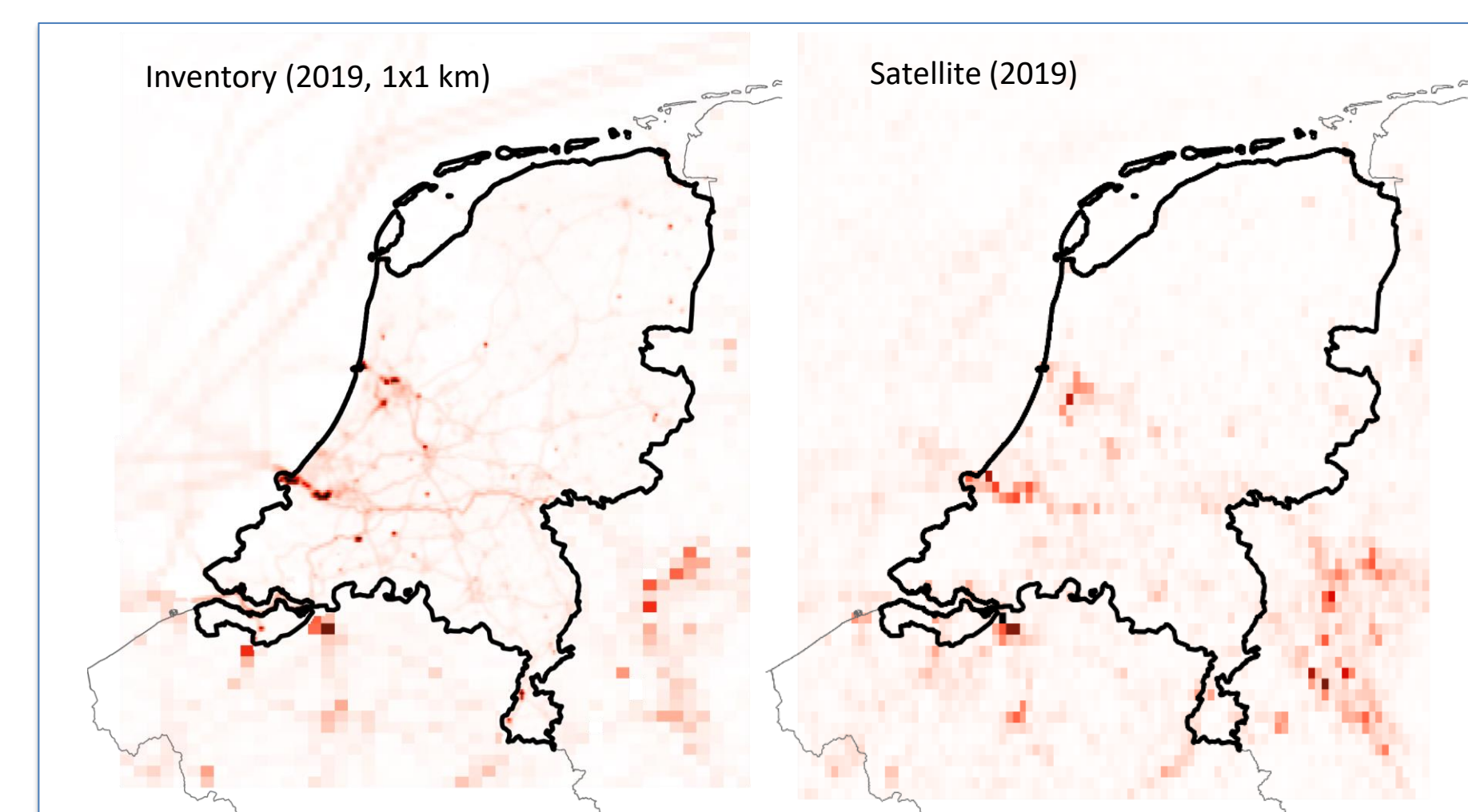


Figure 3: Initial comparison between Dutch ER emissions (left) and satellite-based DECSO emissions (right)

Communication pathways:

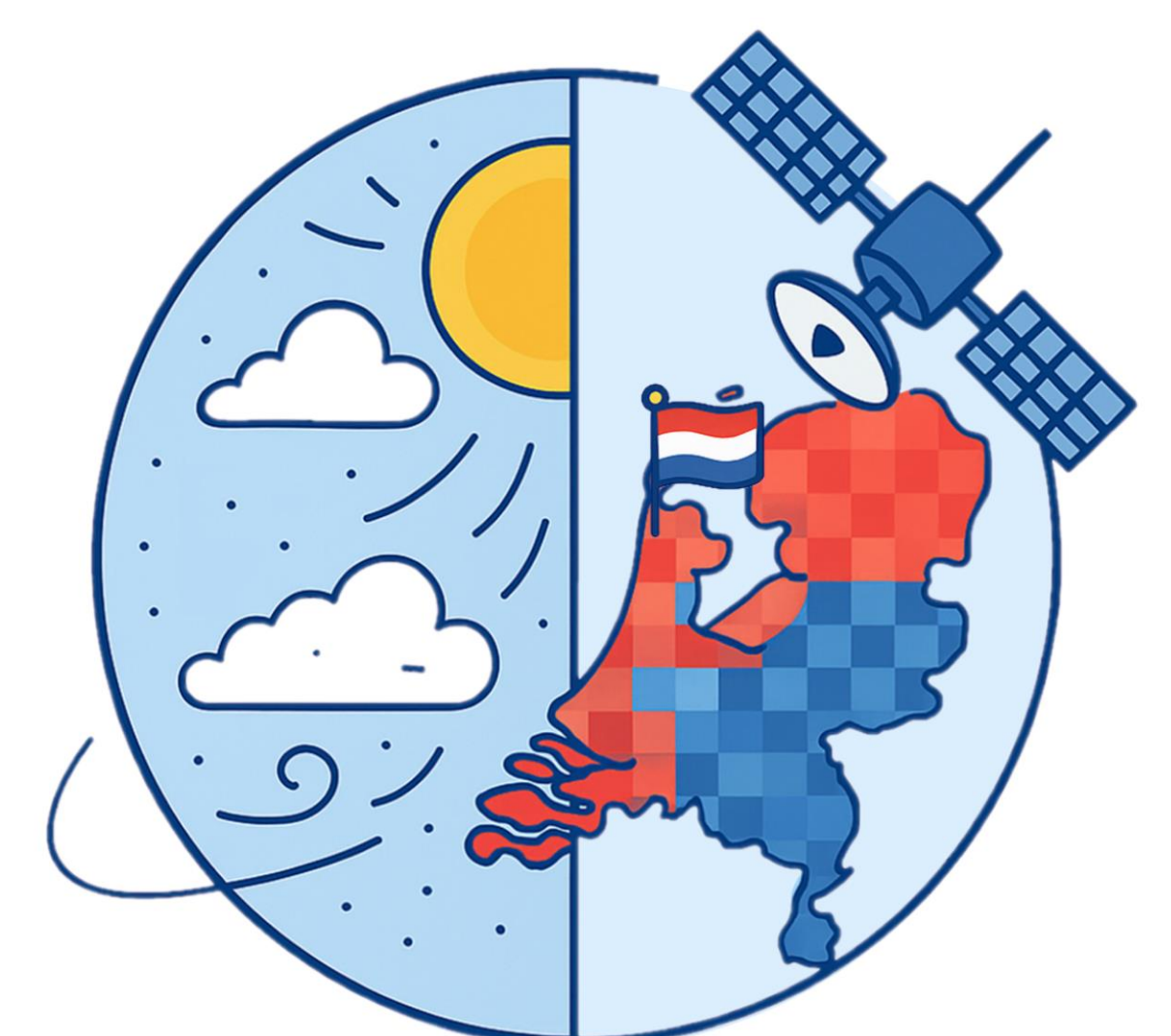
[CAMS NCP LinkedIn Page](#), with news, updates and background info

Events for scientific audience – conferences

Events for general public – science communication events

Communication materials, such as logo and infographics

Article for national air quality magazine



CAMS NCP NL

Acknowledgment: This work has been enabled by CAMS National Collaboration Programme under the contract CAMS2_72_NL_bis.