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LOCAL SCALE SOURCE APPORTIONMENT IN FLANDERS

Wouter Lefebvre, Willem Gruyters, Stijn Janssen

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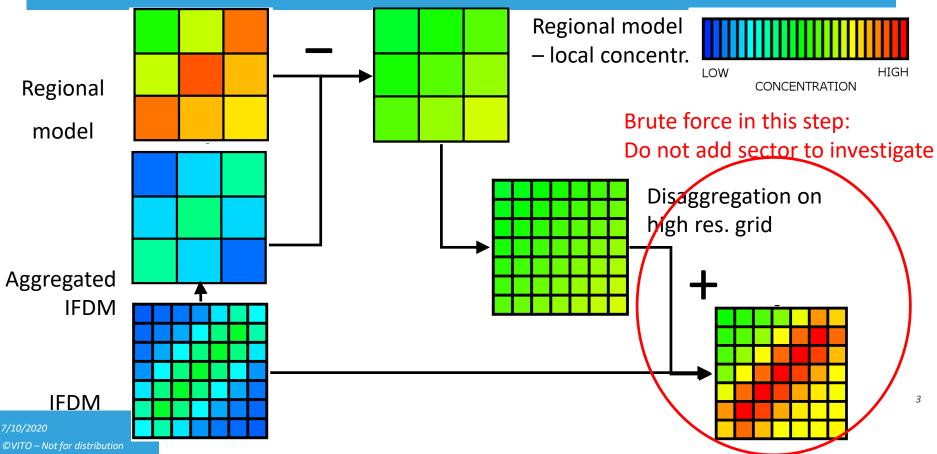


GOAL OF THE EXERCISE

- Two communities in Northern Belgium wanted to know the air quality and the major local sources of air pollution in their communities.
- Pollutants: NO₂, PM_{2.5}, nitrogen deposition (all annual mean).
- Model: ATMO-Street model: combination of intelligently interpolated measurements (RIO) with Gaussian modelling (IFDM) and street canyon modelling (OSPM).

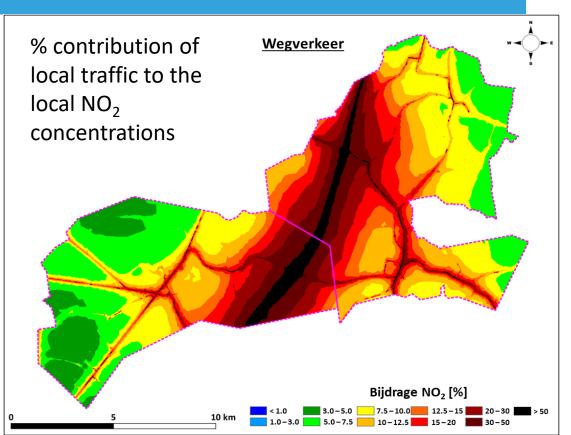


METHODOLOGY





RESULTS (1/2)

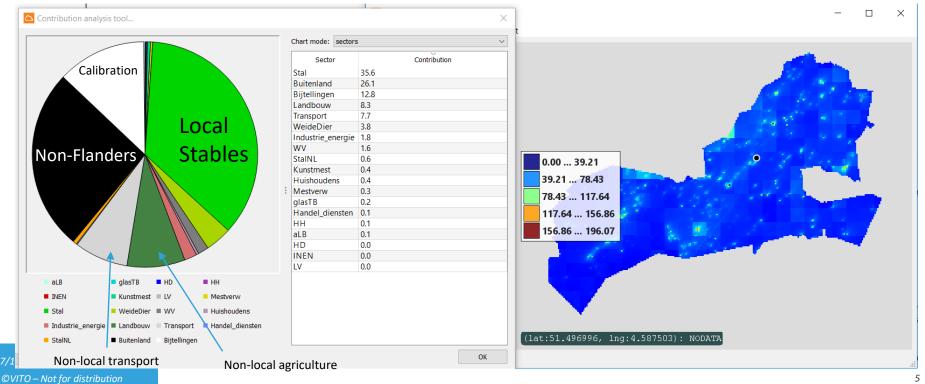


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RESULTS (2/2)

Source apportionment of nitrogen deposition at a specific location





LIMITATIONS

- Only for local contributions: Gaussian model should stay applicable
- Results only as good as model, and as emissions database!