



Informing you on ambient air quality  
in the Belgian Regions

## Flanders

VLAAMSE  
MILIEUMAATSCHAPPIJ



[www.vmm.be](http://www.vmm.be)

## Brussels



BRUXELLES ENVIRONNEMENT  
LEEFMILIEU BRUSSEL  
- I D G E - B I M -

[www.leefmilieubrussel.be](http://www.leefmilieubrussel.be)

## Wallonia

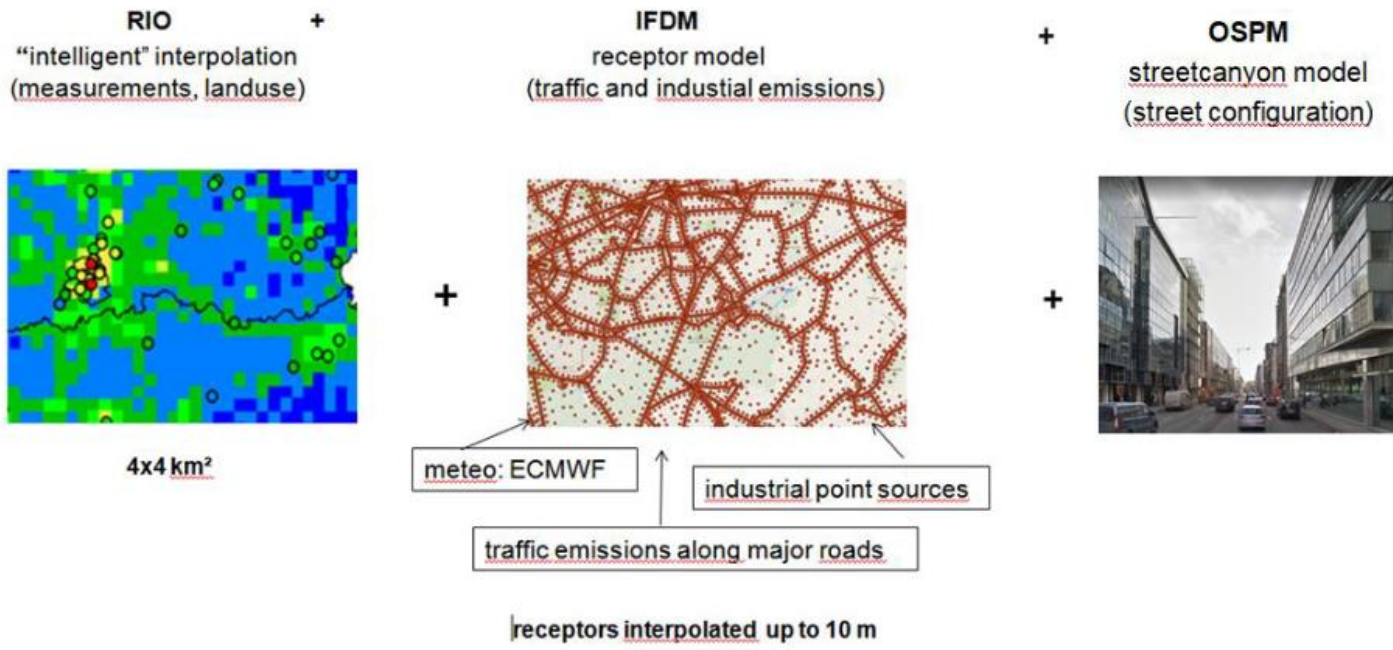


[airclimat.wallonie.be](http://airclimat.wallonie.be)

# BE (IRCEL ) : EU-reporting for the three regions

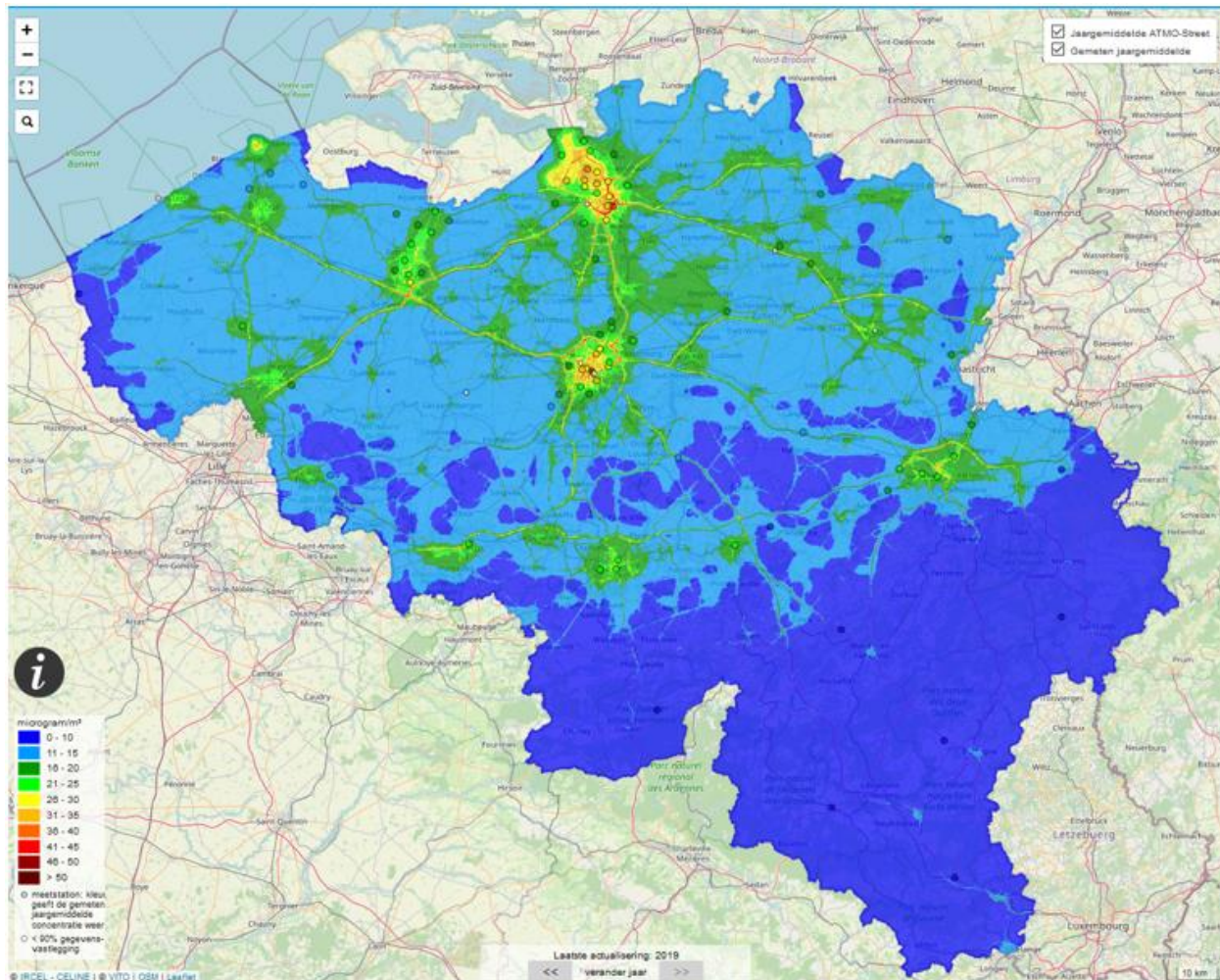
→ only Flanders uses model results for NO2

## Model chain used is a street canyon model : ATMO-Street



# AtmoStreet model results for NO<sub>2</sub> (2019)

[https://www.irceline.be/nl/luchtkwaliteit/metingen/stikstofdioxide/historiek/no2\\_anmean\\_rioifdm](https://www.irceline.be/nl/luchtkwaliteit/metingen/stikstofdioxide/historiek/no2_anmean_rioifdm)



Figuur 2: Jaargemiddelde NO<sub>2</sub>-concentraties ATMOStreet België 2019

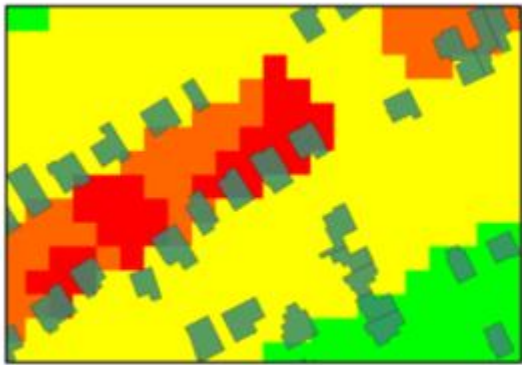
## How to determine the highest modelled concentration for reporting exceedances air quality zone EU COM

**Highest modelled NO<sub>2</sub> concentration** ≠ **de maximum NO<sub>2</sub> concentration** in that zone.

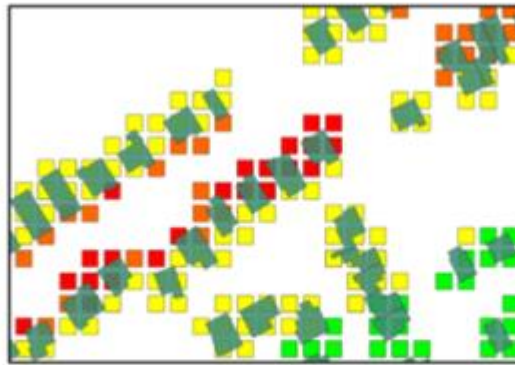
Method: Exceedance air quality zone:

1. Only cells (=model results 10m x 10m) where people live are considered
  - ⇒ highest concentrations adjacent to buildings
  - ⇒ cell with maximum concentration is used (figure next slight)
2. Classify all cells in the considered air quality zone from high to low concentrations
3. Use the 99.99th percentile concentration of this classification = this concentration determines if the air quality zone zone in exceedance

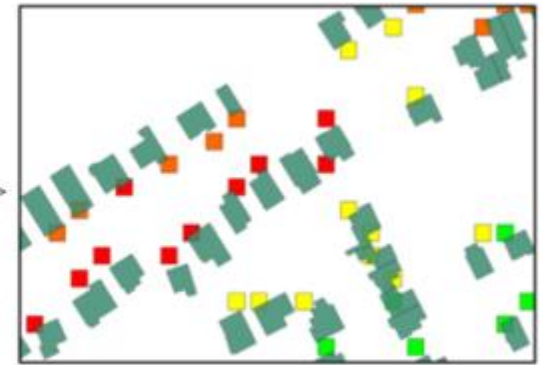
Same methodology used for indicators: calculation area and road length in exceedance (except that in this calculations all cells are considered not only populated cells).



NO2 model results



cells adjacent to buildings



maximum concentrations adjacent to building retained