

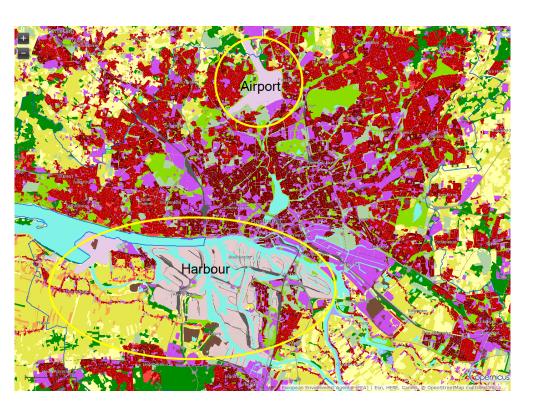
Matthias Karl, Helmholtz-Zentrum Geesthacht (HZG), Germany

CITYCHEM AIR QUALITY FORECAST





HZG: CityChem – solution for city scale AQ forecast in Hamburg



Development of prototype for short-term AQ forecast integrating:

- CAMS regional air quality ensemble forecast,
- prognostic meteorological model,
- high-resolution emission inventory
- EPISODE-CityChem city scale AQ model.



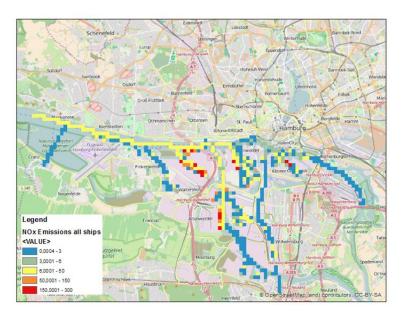




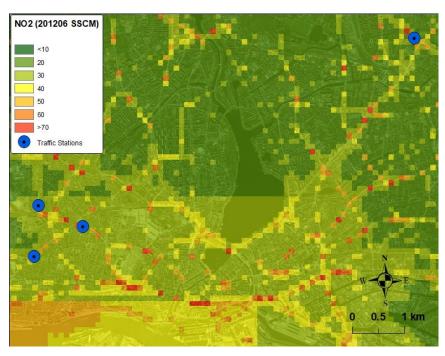


HZG: CityChem – solution for city scale AQ forecast in Hamburg

High-resolution emissions: Hamburg port emission database. Ship movements based on AIS signals.



High-resolution modelling: Hamburg traffic emission - street canyon model

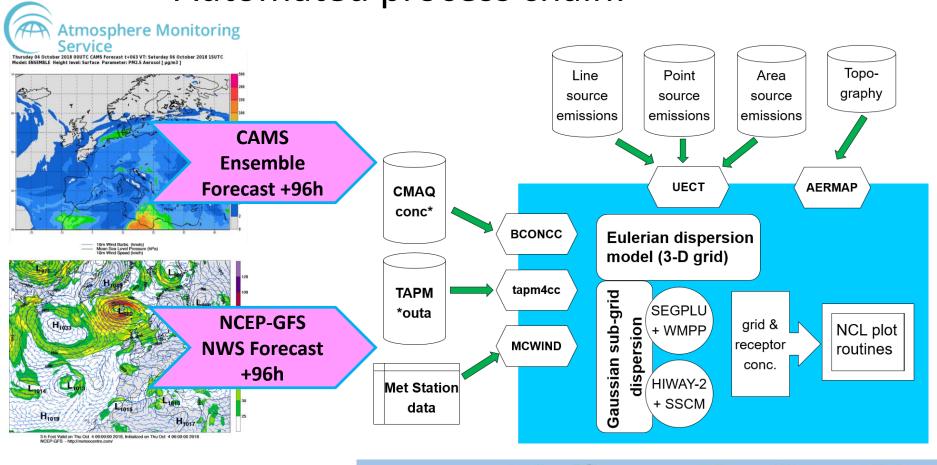








HZG: CityChem – solution for city scale AQ forecast in Hamburg Automated process chain:



Horizon 2020 Call: H2020-SC5-2015-one-stage Topic: SC5-I5-2015 Type of action: ERA-NET-Cofund Grant agreement no: 689443 Proposal acronym: ERA-PLANET

