

# Online Environmental Monitoring

## Monitoring of the current air pollution and noise level for the City of Berlin and Munich

### Berlin (phase of validation)

EU project HEAVEN - Healthier Environment through the Abatement of Vehicle Emissions and Noise, <http://heaven.rec.org>

#### Project Partners

- Administration of Berlin (Senatsverwaltung Berlin)
- IVU Umwelt GmbH
- IVU Traffic Technologies AG

### Features and Advantages

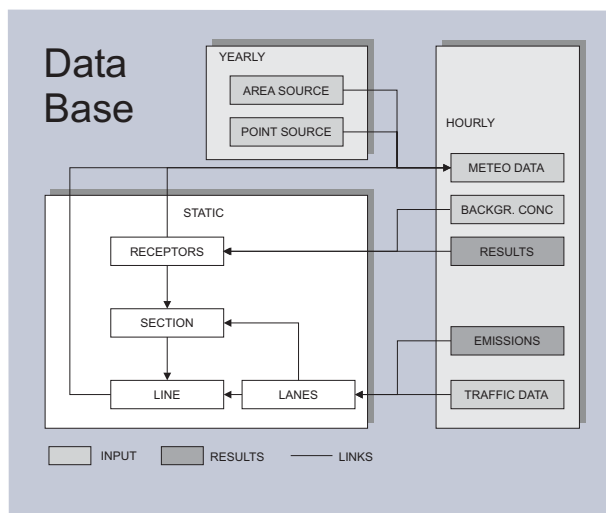
- Fast modeling for the generation of current data
- Accomplishable specifications for input data (e.g. Emission inventories and car fleet)
- Modular design
- Problem orientation, e.g. According to EU directives
- Scalable for a few streets up to traffic network
- Interfaces to different models
- Reliable and verifiable results
- If new input data are available system automatically launches modeling process and calculations
- Internet presentation (in preparation for Berlin)

### Munich (started may 2002)

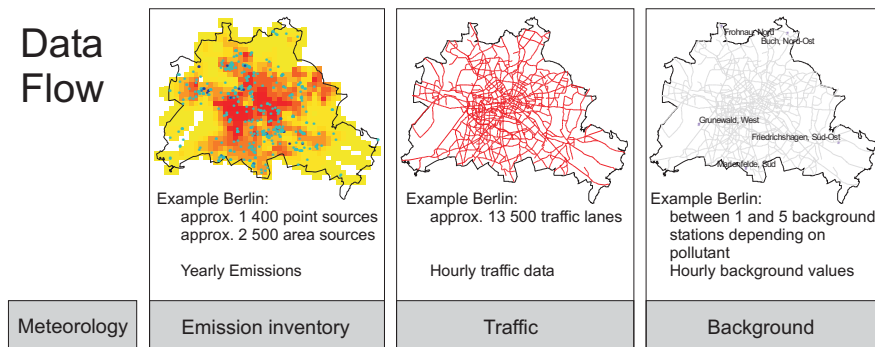
BMBF project MOBINET- Mobility In Megalopolis (Mobilität in Ballungsräumen), <http://www.mobinet.de>

#### Project Partners

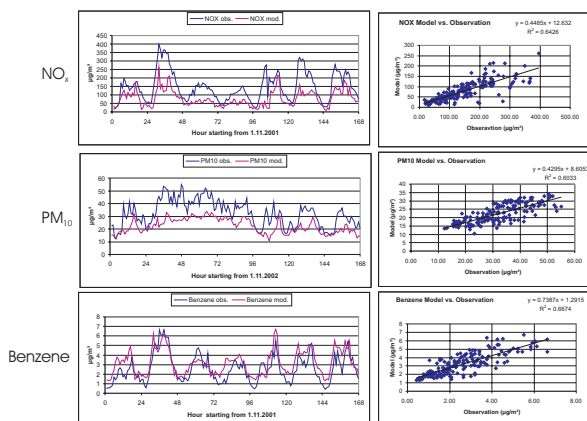
- Administration of Munich (Landeshauptstadt München)
- IVU Umwelt GmbH
- GEVAS software GmbH



### Data Flow



### Results and comparison



### First results of the validation phase

The represented results are comparisons between observed values in the Beusselstrasse in Berlin and values determined by the monitoring system. Currently, as input data are available: meteorological information, measured background values and volume of traffic for the modeled section of the Beusselstrasse for the first week in November 2001.

In this modeling phase the traffic information for the main street network of Berlin is missing. The lack of these emissions explains the occurring underestimation of the observed concentrations.

