

Air quality dispersion modeling

Urban development by urban and traffic planners



Check

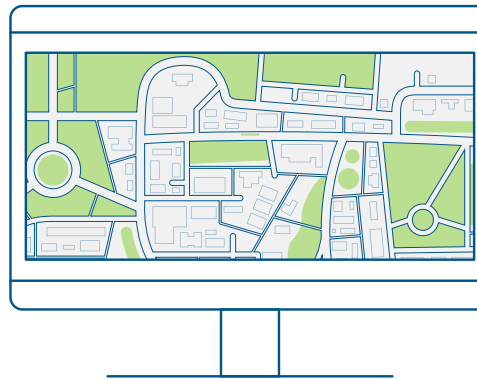
Step-by-step implementation of measure packages accompanied by parallel reviews of effectiveness are elementary components of sustainable urban development. Air quality maps are an effective instrument for reviewing both fast-acting measures, e.g. traffic control, or slower-acting measures, such as new mobility concepts.

Capture

The emission packages determined by environmentally-sensitive traffic management and the highly-accurate air quality data recorded in real traffic by the air quality monitoring box serve as a basis for high-quality air quality dispersion modeling. Extensive data collations are possible by including the current (wind and) weather data in dispersion modeling.

Analyze

By modeling the dispersion of emissions or further reduction thereof (due to the impacts of wind and weather) along real urban development, it is possible to depict a very detailed image of the respective air quality in an urban area. Using algorithms, forecasts and potential emission sources can be illustrated. This enables comprehensive analysis of an urban area.



Implement

Map-based depiction of complex topics and inter-relationships essentially supports the communication of any measures that may be necessary. As a result, many groups involved in urban planning can identify their contribution toward improving air quality and obtain greater approval for any projects planned.

Develop

The visualization of environmental influences as well as the illustration of trends and proof of effectiveness of individual measures help in complex tasks, e.g. the sustainable development of an urban area.