



Major Achievements





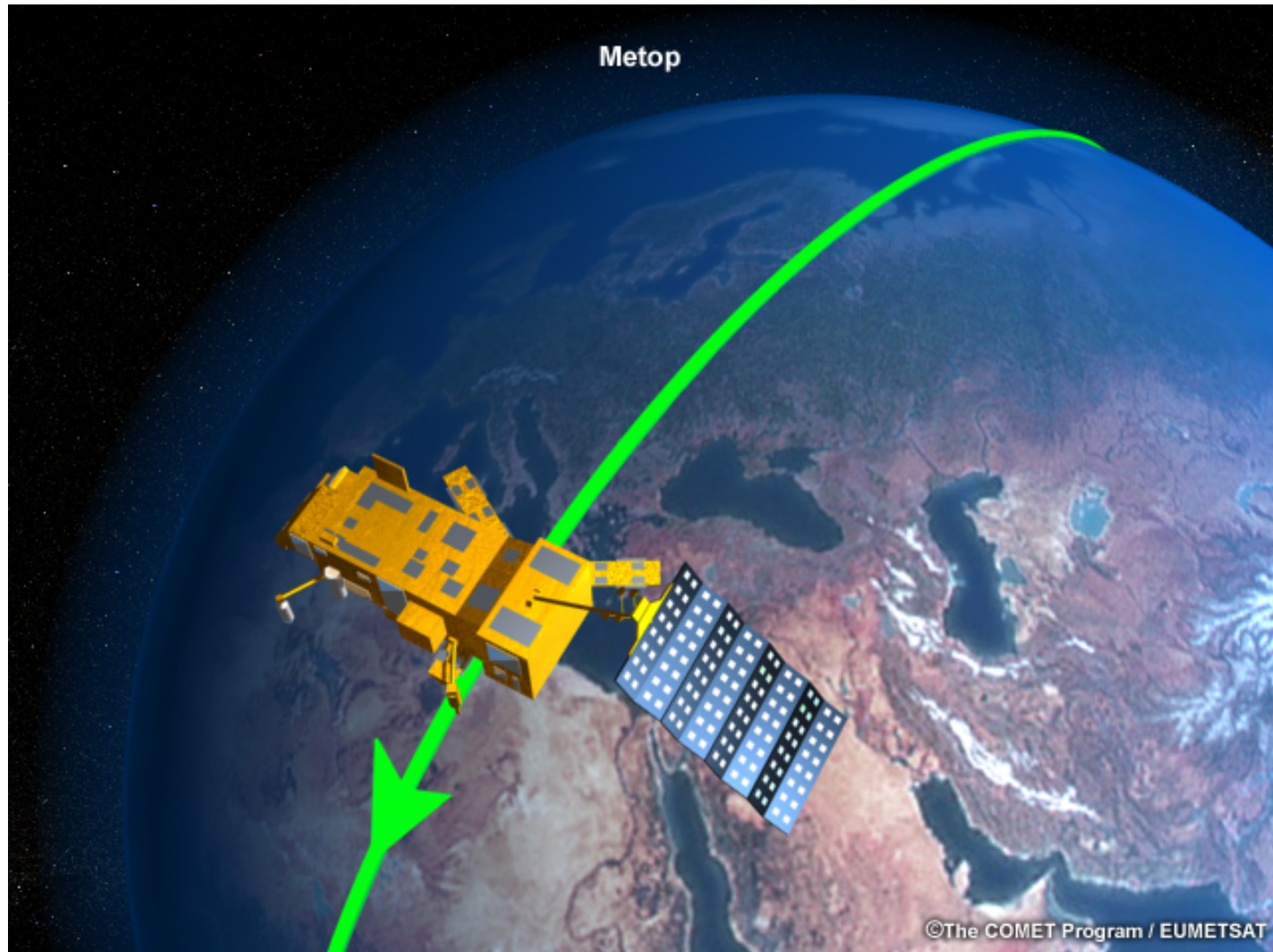
Major Achievements

- Development of a world-class system for PME for
 - Daily air quality monitoring from satellite for the Kingdom
 - Daily 72 hour air quality forecasting for the Kingdom by combining data and models
 - Demonstration of street-level air quality forecasting for Jeddah





Use of best satellite data in near-real time





Geo Portal

Air

Water

Land

Basemap

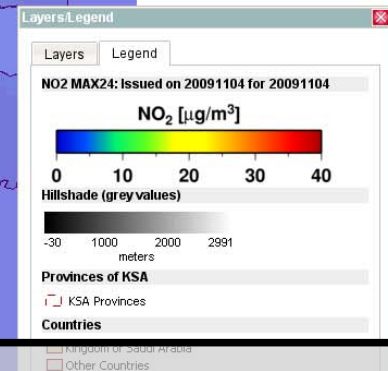
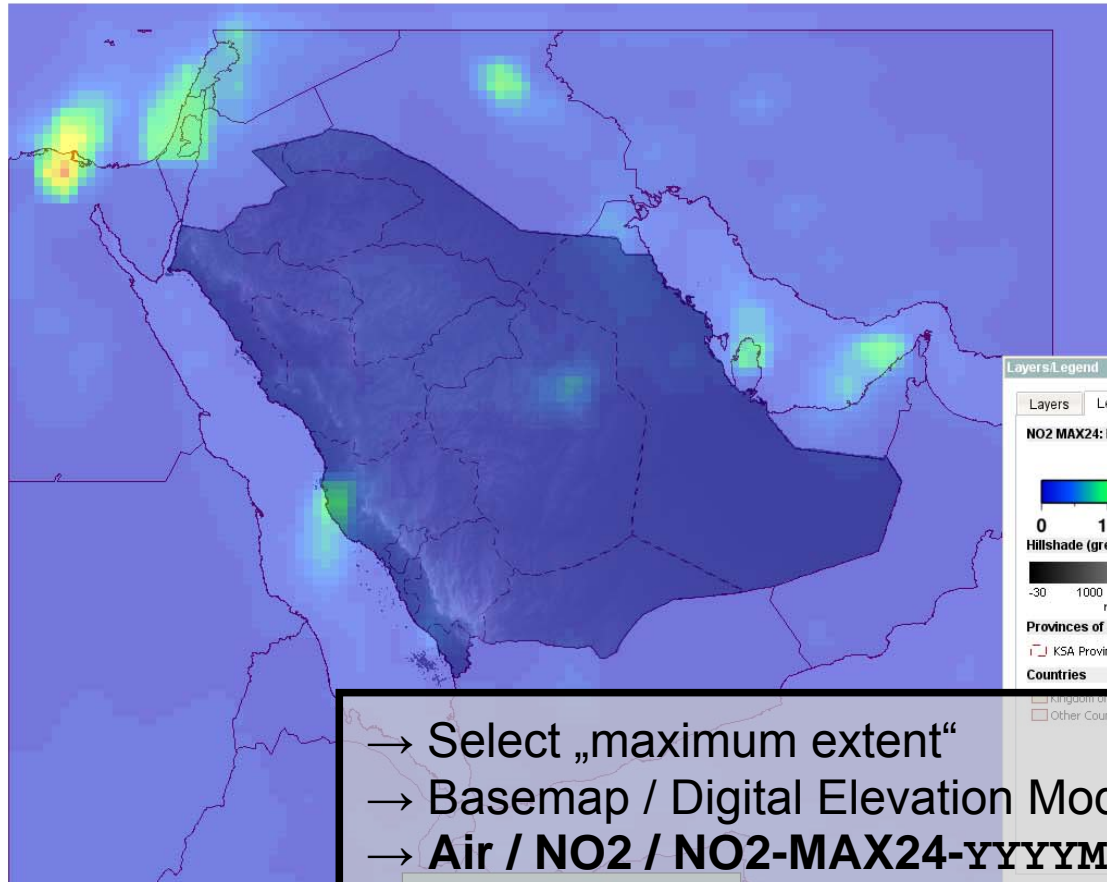
Online Help

Metadata

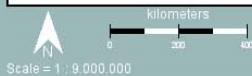
Data Exchange

Layers Legend

Home

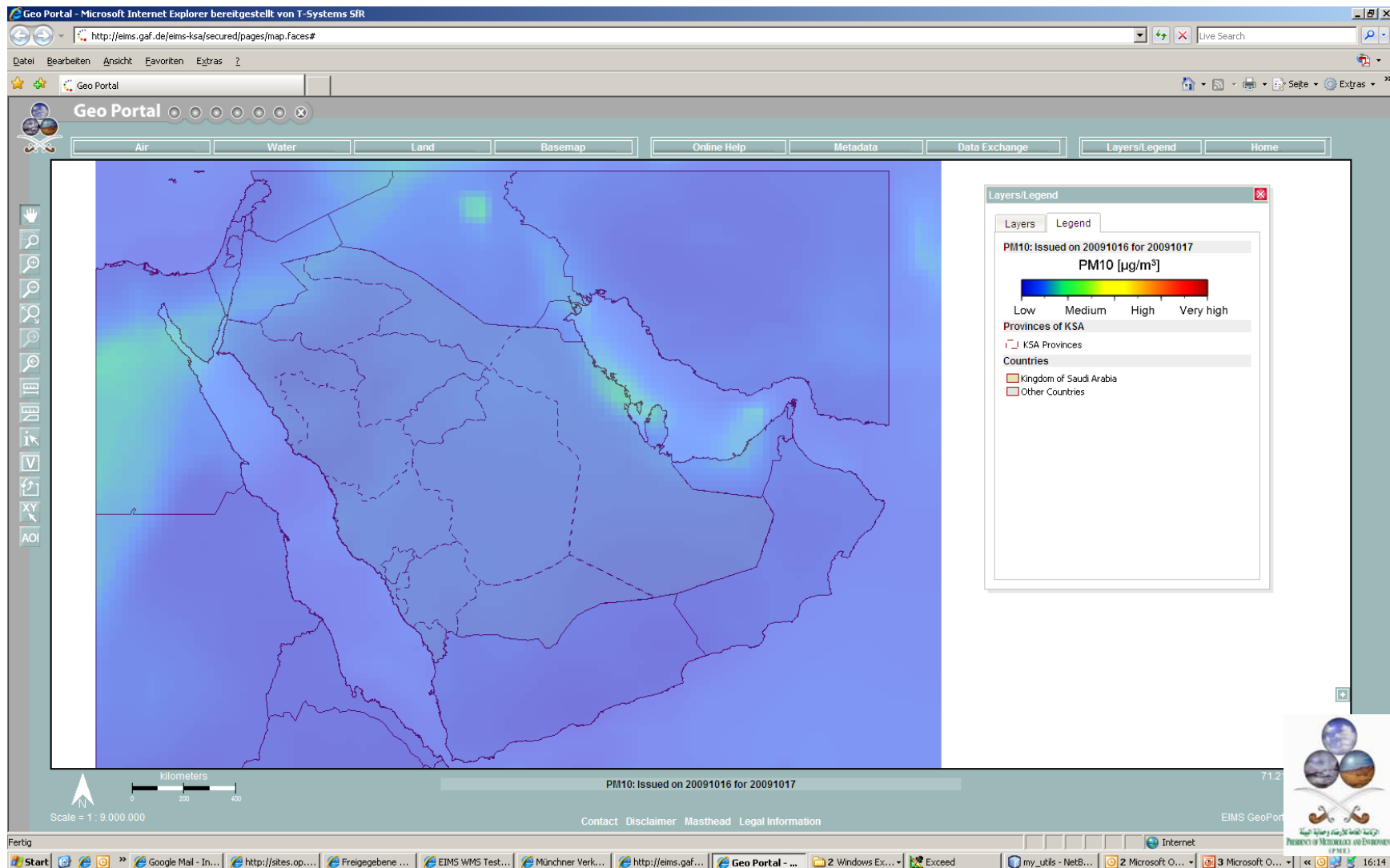


- Select „maximum extent“
- Basemap / Digital Elevation Model / Hillshade
- **Air / NO2 / NO2-MAX24-YYYYMMDD-yyyymmdd**
- Layers Legend



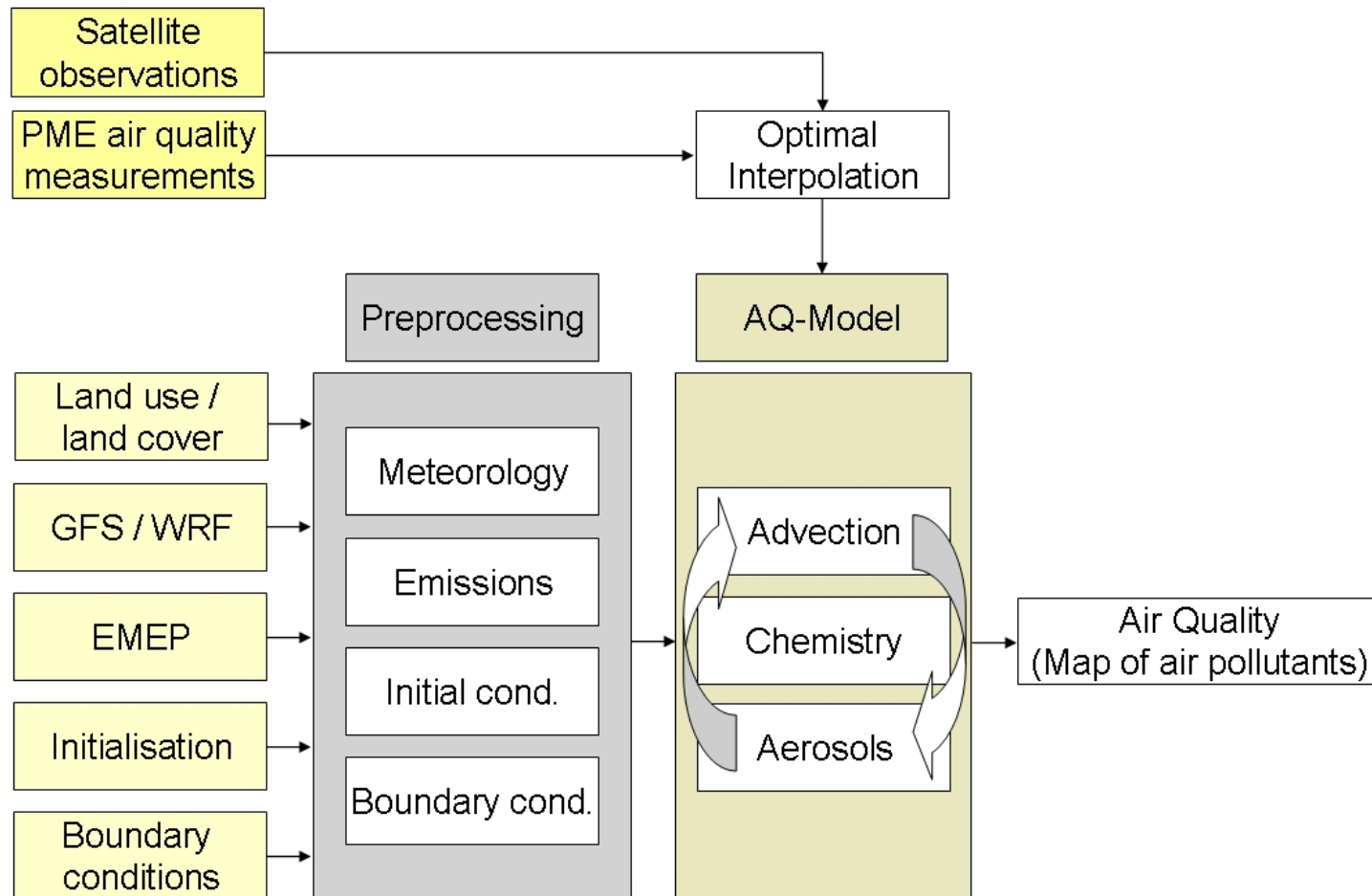


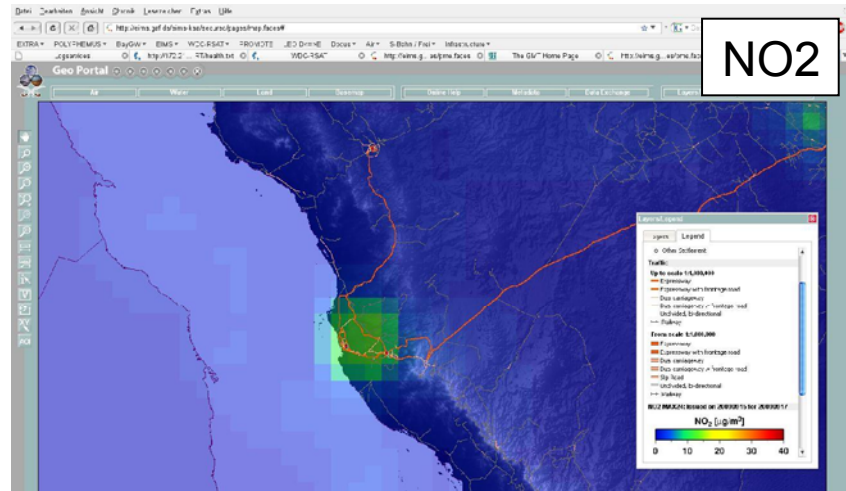
Daily PM10 forecast and monitoring



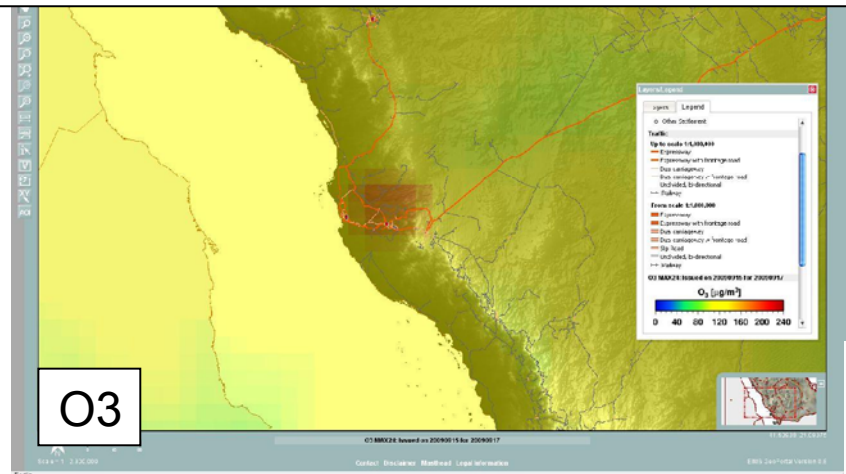


Cutting-edge data assimilation and modelling scheme including all relevant physics and chemistry





→ DLR Air Quality System yields a consistent picture when regarding chemistry and transport of air masses.



03



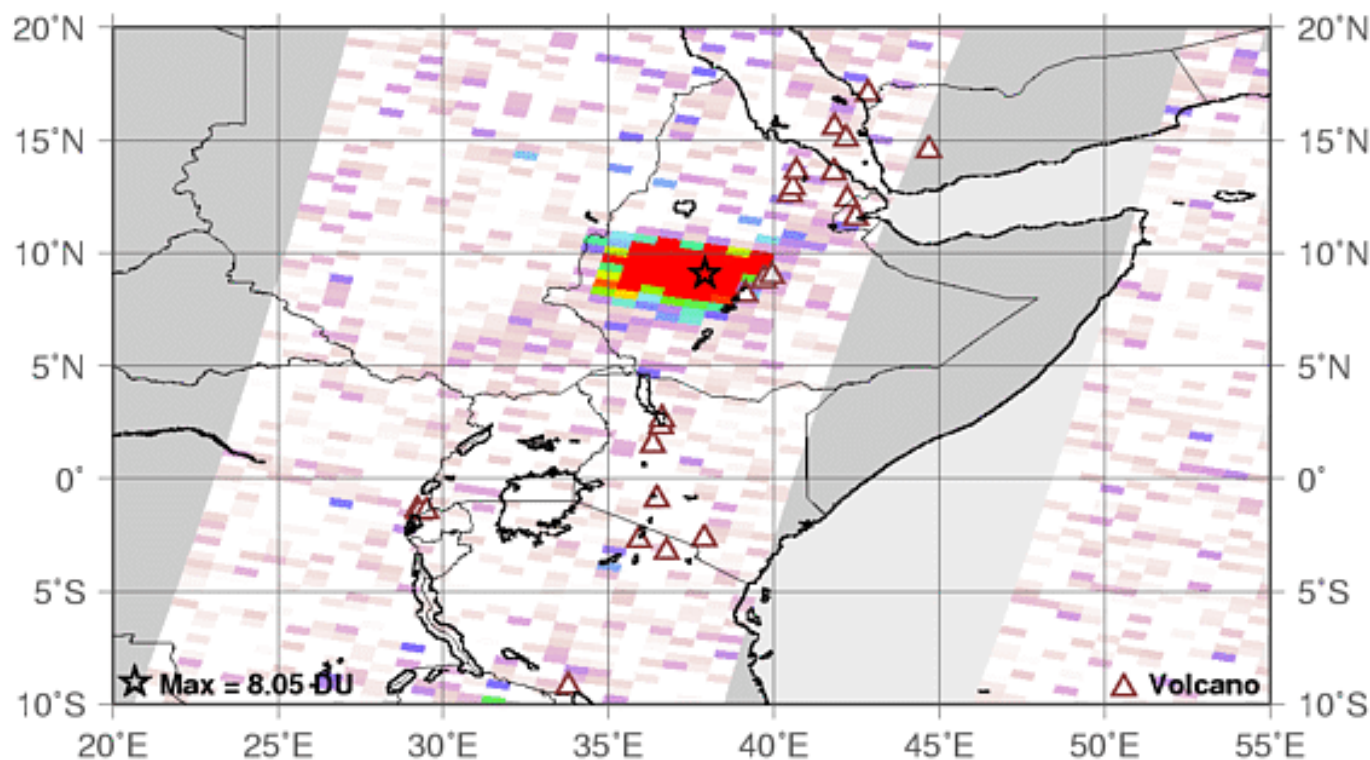
Volcanic Activity Monitoring in near-real time

GOME-2 / MetOp

Jun 30, 2009

SO₂ Vertical Column Density

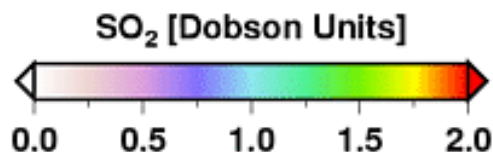
Ethiopia



One-day Composite

Lv2 Version: GDP-4.3

<http://wdc.dlr.de>





Demo for Jeddah street-level forecasting of Air Quality

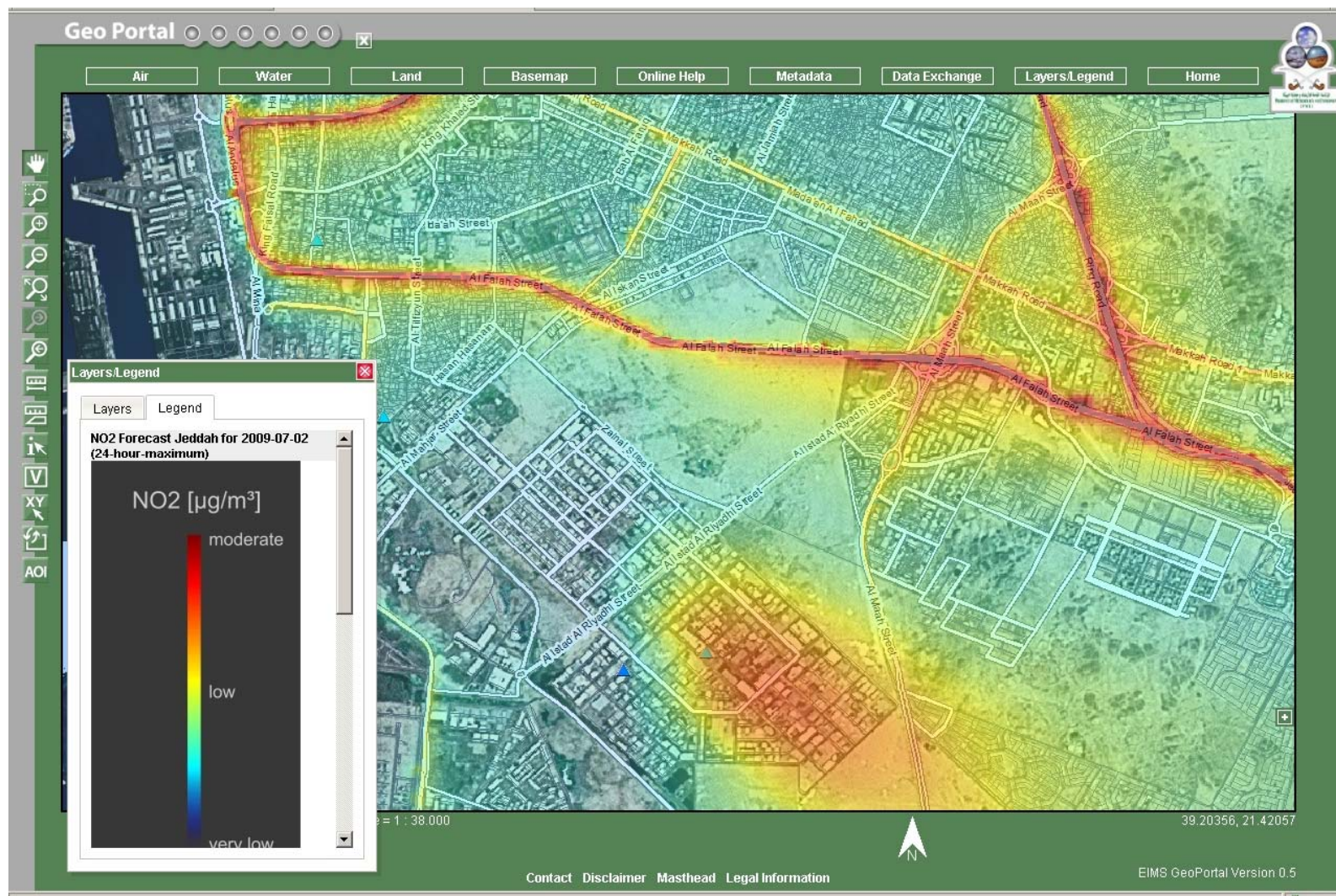


**Spatial resolution of < 10m
72 hour forecasts**



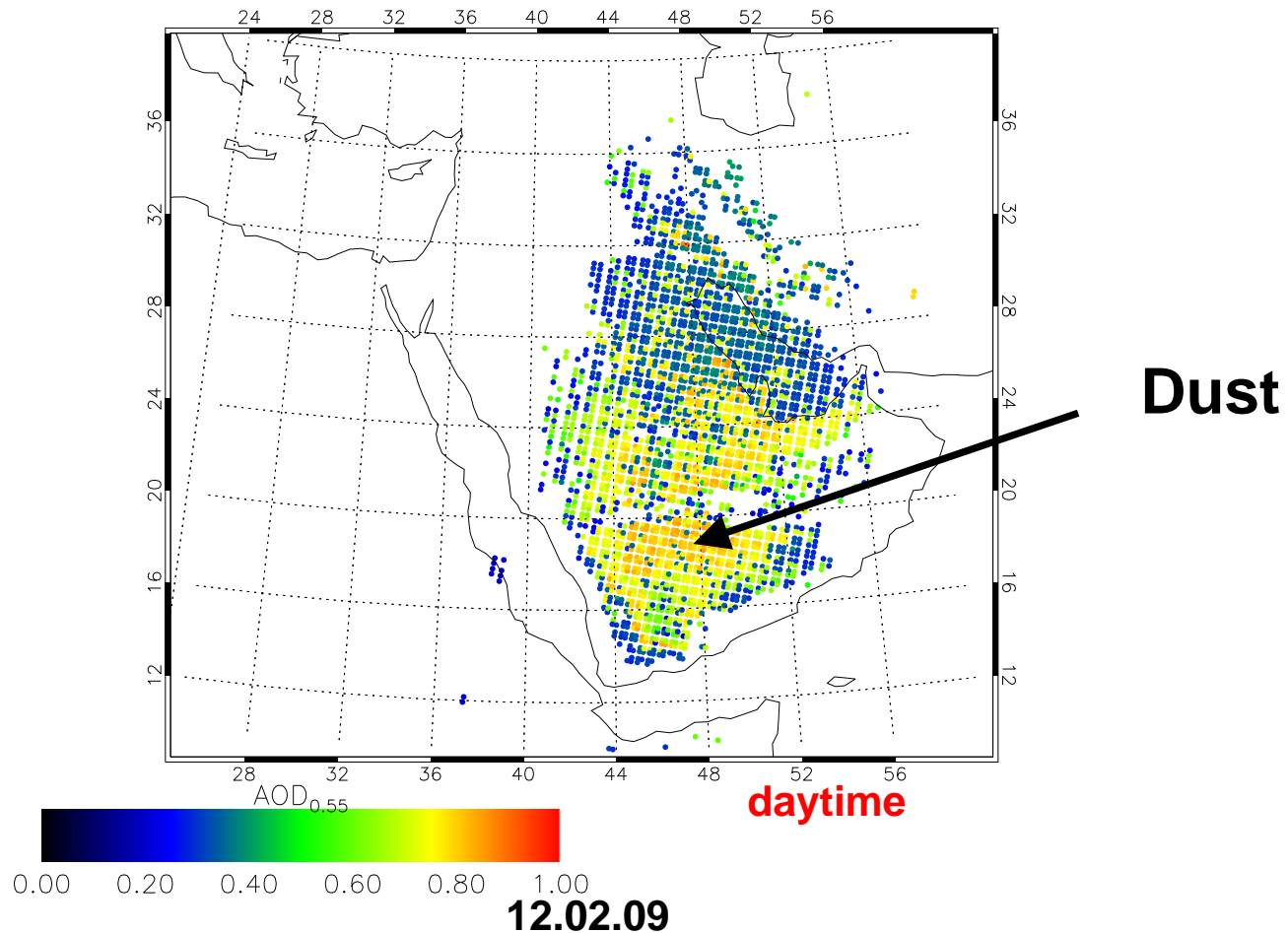


Demo for Jeddah street-level forecasting of Air Quality





Demo for new dust storm monitoring, every day - day and night - 25 years





Development of Business Processes and Trainning

- Health sector information services
- Personalised services for people at risk
- Public information services
- Support to national reporting
- (Dust storm warnings)





Major Achievements

- DLR world renowned center for satellite and environmental technology
- High commitment to support PME in their tasks and duties
- Air Quality Service to facilitate daily work in PME
- We are looking forward to further collaboration

