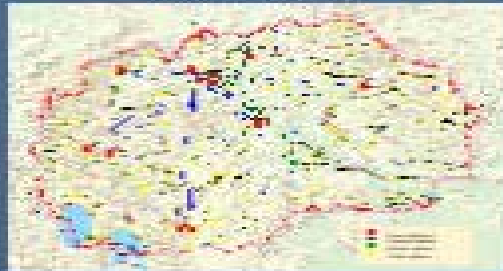




Air Pollution Monitoring System in the Republic of Macedonia

WHEN?

State Automatic Monitoring System for Ambient Air Quality



Station	Address	Coordinates	Height	Instrumentation	Operational since	Status
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WHY?

- Low air quality for quality improvement with Trans-European Monitoring
- Complying with EU air quality standards and other European legal acts, transposing European directives, Council Directive 2000/69/EC
- Monitor air quality and quality improvement in the Trans-European Monitoring network

In progress:

- 2007 - 2008/2009
 - Subtask on national level related to national system
 - Subtask on national level related to quality improvement work
 - Subtask on the introduction of CO₂ and SO₂ monitoring for an urban monitoring
- 2009 - 2010/2011 - Planning
 - Subtask on the methodology for establishing of ambient air quality measurement plans and programme
 - Subtask on planning and financing
 - Subtask on the implementation of national monitoring system

Zones and Agglomerations for Ambient Air Quality in the Republic of Macedonia



WHAT?

Measured environmental parameters, include:

- CO - carbon monoxide
- SO₂ - sulfur dioxide
- NO_x - nitrogen oxides
- O₃ - ozone
- PM₁₀ - suspended particulate matter in air with diameter < 10 microns

Measured meteorological parameters include:

- Wind velocity, expressed in m/s
- Wind direction, expressed in degree
- Temperature, expressed in Celsius degree
- Humidity, expressed in %
- Pressure, expressed in hPa
- Global radiation, expressed in Wh/m²



Data processing and information

- Daily information about air quality in Macedonia
- City Centre for Information and Warning
- Quality report from the State Automatic Air Quality Monitoring System
- Annual report of all government air quality data
- Development of popular resources on air quality
- Business Environmental Agency - BEA

HOW?



- 2007 (Data Acquisition system) software in each monitoring station
- Microsoft SQL
- 2008 (Data Acquisition system) software in central station



WHERE?

- Urban dispersion modeling
- Pollution dispersion from stationary pollutants
- Output results are geo-coded and can be added on a map as a different layer with real coordinates

