



DOKUZ EYLUL UNIVERSITY, IZMIR, TR
FACULTY OF ENGINEERING

DEPARTMENT OF ENVIRONMENTAL ENGINEERING



Balkan region of Europe, Middle East, and Northern Africa are the neighbors, and also a Mediterranean sea shore city

WATER-2 - Integrated approaches to water and climate change

b) Integrated approaches to food security, low-carbon energy, sustainable water management and climate change mitigation (RIA)

- **Have four major** plains of the country in the catchment areas of rivers, having diverse land use (metropolitans, villages, agriculture, industry, mining, uncontrolled landfilling, etc.) , **Micro to macro ecosystems** in watersheds
- Expertise on atmospheric deposition of PMs, HMs, PAHs, POPs, etc., in urban and rural areas, **land wash-off flux vs. atmospheric deposition flux**, atmospheric modelling of contaminants
- Expertise & data on **GW & surface water quality, modelling and land use**
- **Excellent** infrastructure in the 11 labs of the department
Better understanding of land-water-energy-climate nexus!

SC5-4 - Improving the air quality and reducing the carbon footprint of European cities (RIA)

- **Source apportionment, monitoring, modelling**, awareness raising activities
- Different energy sources used in the region: lignite to natural gas
- On the route of **trans-boundary pollution**, between the regions having **the modest and the smart air pollution control technologies**

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SC5-17 - Demonstrating the concept of 'Citizen Observatories' (IA)

- Having great ideas!
- Partnership with citizens and NGOs, public bodies, SMEs are available in our region
- Evaluation of data for policy!

SC5-18 – Coordinating and supporting Earth Observation research and innovation in the EU, and in the North African, Middle East and Balkan region

b) Integrating North African, Middle East and Balkan Earth Observation capacities in GEOSS (CSA)

- Air Pollution Control Lab
- Water Quality Lab
- Solid Waste and Soil Pollution Lab (SOLAB)

Are willing to cooperate to improve Earth Observation in these regions.

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