



## Sustainable Traffic Development in Tirana



## PARTNERS

- Federal Ministry for the Environment, Nature, Conservation and Nuclear safety of Germany
- Municipality of Tirana
- Ministry of Environment
- Institute of Public Health
- Ministry of Transport/Institute of Transport



## Overall Project Objective

To improve the traffic situation in Tirana city



## Key Components

- Preparation of an Integrated Urban Traffic Concept;
- Development of a strategy for the measurement of traffic-related air pollution;
- Enhancing professional experience of traffic management through organizing training courses for key staff;
- Raising public awareness of traffic-related environmental impacts.



## Component 2: Evaluation of Air Pollution

### Objective :

A comprehensive strategy for the measurement of environmental pollution will be elaborated and implemented to get a set of samples and data, which are statistically safe and comparable to Western limit and guideline values



### Aktivities:

An extensive assessment of air pollution situation in Tirana will be conducted. This will be done in three successive phases:

Orientating measurements as the first step to get an overview will be conducted and the data obtained from the following measurements are to be analysed, including:

- a) Orientating measurements on dusty and gaseous emissions
- b) Heavy metal screening
- c) Elaboration of short term values about quantity and location of emissions
- d) Gathering of additional environmental data and collecting of data about the past pollution situation
- e) Collection about information on the reliability of environmental laboratories
- g) Gathering of information about analysis methods and data treatment
- h) Collection of data about the industrial infrastructure
- i) Gathering of information and prognosis about the future city development.



### Activities:

- Elaboration of strategies for emission reduction
  - a) elaboration of an action plan for short term solutions with a list of priorities for emission reduction
  - b) elaboration of the most effective measures for emission reduction (from the financial point of view)  
also considering possible legal measures and enhanced enforcement
  - c) elaboration of a long term action plan for emission reduction.
- Designing and taking measures to ensure project sustainability



### Results:

- Orientating measurements
- Proposals for cadastral emission measurements
- An interim report on initial gathering and data analysis
- Analysis of sample data preparation of data for comparisons with WHO and EU limit and guidelines values.
- Strategies for the continuation of the measurements and for reducing environmental pollution
- Strategic measurements of pollutants and analysis of the resulting data (emission report)
- A consideration of possible legal steps to address air pollution.



## Air Monitoring in IES (Albania)

The sampling equipment is not acceptable for performing monitoring activities of ambient air in Tirana according to EU-Directives or other Western standards

For implementing the required standard of equipment according to the EU-Directives, the budget for the equipment must be extended from 80.000 € to 250.000 €.



This sampling equipment for PM10 and suspended particles (pump, impingers, gas washing flasks, gas meter) allows low volume sampling (max. 4 l/min) only. Due to the age (approx. 40 years old) the reliability of the equipment and values is weak.



## Development of a strategy for the measurement of traffic-related air pollution

- **The verification, enforcement and monitoring processes all require laboratory capacity with recognized testing procedures and verifiable results.**
- **Without it the management of air pollution is inoperable**
- **The implementation of the required equipments according to the EU-Directives:**
  - **allows the determination whether the air quality is adequate to protect the health of Tirana's inhabitants**
  - **provides the platform from which to develop strategies to improve the air quality and traffic situation in Tirana as well**



**In order to improve the traffic situation in Tirana the Ministry of Environment, Forest and Water Administration, the Municipality of Tirana and the Ministry of Public Works, Transport and Telecommunication have expressed their mutual interest to work close together based on the legal and operative responsibilities**



**Measuring Equipments  
donated by UBA**



To overtake the equipments from UBA the following problems to be solved:

- Ownership of the equipments in the future (MoE, Institute of Environment)
- Getting permission for the location of equipments' placement (Municipality of Tirana)
- Budget approval to cover the costs for the transport and the necessary preparations of the equipments (co-operation between MoE, Ministry of Finance, ECAT Tirana)