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# *National emission inventory in the R. Macedonia*

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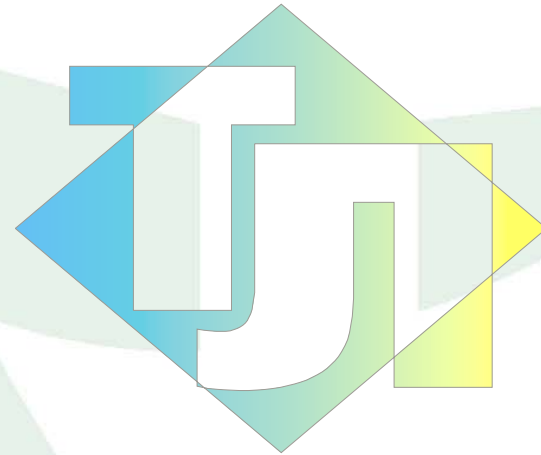
*Ministry of environment and physical  
planning*

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# Who is preparing the national emission inventory?

- **Ministry of environment and physical planning-**  
Macedonian Environmental Informative Center
- **Technolab doo Skopje-**  
Laboratory for technological and environmental research in frame of college for protection of working and living environment-Mine Institute, Skopje



# What is available?

- Data obtained from emission monitoring from stationary, mobile sources and individual major companies which will be the basis for identification of polluted parts in the country
- At present, we have air emission data on around 220 polluting facilities on national level
- In this context, we report information-data on annual emissions of the following pollutants SO<sub>2</sub>, nitrogen oxides, CO and dust, in the format prescribed by EMEP, from 1998.
- Statistical Yearbook for the year 2004
- Cadastre of air emissions for the level of Skopje
- The Law on Environment is adopted and entered into force in September 2005; The Law on Ambient Air Quality is adopted and it is harmonized with the Framework Directive 96/62/EC; The Decree on limit values and alert thresholds for SO<sub>2</sub>, CO, NO<sub>x</sub>, PM<sub>10</sub>, dust, benzene, lead and ozone is adopted

# What is missing?

- Data on air emissions is hard to provide, due to the fact that the Republic of Macedonia lacks regular air emission measurement and monitoring
- Not much data available on the emissions from agriculture and waste
- All source of emissions pollutants are not yet identified
- We don't have national emission factors
- We don't have unique methodology for classification, calculation and presentation of air emissions from different sectors, as industry, energy, traffic and other sectors, as well as air pollutants in the Republic of Macedonia

# What have been done?

- Probational classification by SNAP has been performed, partially elaborated only for those polluters on which we have received data or for which we were able to calculate the emissions.
- Using the data we have, and data from the Statistical Yearbook on energy consumption, industrial production, waste generation, and other data, we identify annual pollution by air emissions for SO<sub>2</sub>, CO, NO<sub>x</sub>, and dust
- Continuously data delivery to EEA for the emissions of SO<sub>2</sub>, CO, NO<sub>x</sub>, and dust
- Kick off workshop project " Establishment of a National Methodology for emission Inventory in the Republic of Macedonia held in Hotel Karpos Skopje, August 23&24



- After the meeting Tehnolab have taken the following activities:
  - Proposal for Establishment of a National Methodology for Emission Inventory in the Republic of Macedonia in which expected timetable for the project realization (divided in general activities) was given
  - Data table which will be used by the experts for formating data which is needed for the programe Collector(This programme is given to the experts and they have started with the filing of the log file about their activity and their occupied time)
  - Gathering data which are needed for the forming of the base from studies of the institutes of the Country
  - Participating in preparation of the Methodological gudelines for control and insurence of the quality (QC/QA).



# Which are our expectations from TEFIP and ETC?

- Support in the implementation and development of the CORINAIR programme
- Support in Establishin CORINAIR database
- Trainings and support for the national experts
- Advise on the work plan and priorities
- Support for the preparation of the inventory and relevant submission



# Which are the future activates?

- The initial phase of the programme is identification of all polluters in the Republic of Macedonia and Classification by SNAP based on CORINAIR (review the current state, in order to consider all manners and methodologies for calculations in place in the country)
- Carry out analysis of the types of pollution sources, fuels they use, chemical composition of emissions
- Calculation of annual emissions of pollutants by CORINAIR methodology and the type of pollution they produce and pollutants released.
- Review of the available data, their origin
- Define of other available data which come from statistical year book and other places and gathering of the this data
- Finalizing of Cadastre of Air Polluters and Pollutants at the level of the Republic of Macedonia by the end of 2005

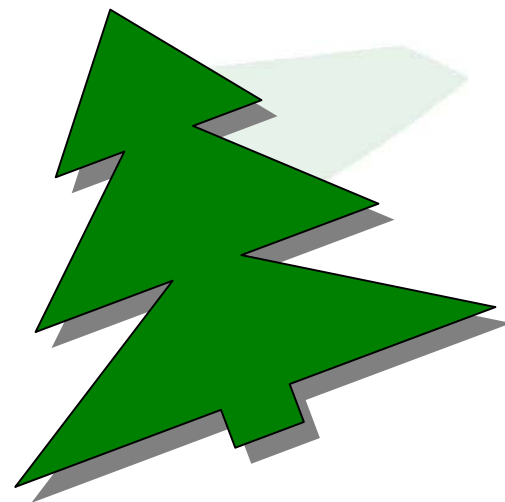
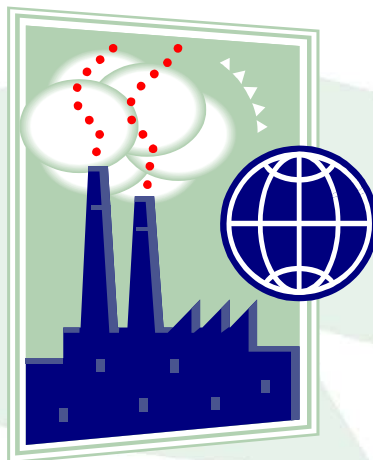
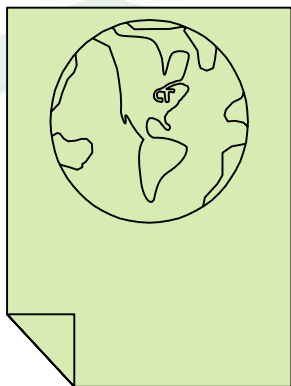
# Conclusions

- We expect TEIFP-EEC to support us in preparation of the national inventory and the following activities:
  - identification of emissions of pollutants in the air, especially from major polluters, it should provide accurate and relevant information on the quantity of pollution in order to create strategies for their reduction
  - gathering data from the monitoring of the emission of the bigger companies which are the basic for the location of the polluted parts of the country
  - deliver satisfactory inventory for the year 2005 to UNFCCC and ratification of the protocols which are in beginning state
- Through the identification of air polluters and pollutants based on CORINAIR and SNAP, specific actions can be undertaken for the improvement of air quality



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# Thank you for your attention



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