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ACCEPT-AIR

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Action 5: Operational platform for the control PM concentrations Policy Tool

Work on action 5 is performed in the following fields:

Development of input databases: The historical database of PM concentrations is already complete, while work on historical PM chemical composition data and source apportionment results is being continued by NCSR "D" and AUTH. These data are being prepared to be incorporated in the operational platform.

Development of the operational platform: AXON Envirogroup Ltd. has been examining different alternatives for OP modules' form and interaction.

During June 2011, NCSR "D" and AXON Envirogroup Ltd. have met in order to discuss important issues related to the form, content and desirable output of the operational platform. Some critical decisions have been reached and the OP development has proceeded accordingly. At a next step, feedback from the remaining partners and stakeholders will be requested. A short questionnaire is being developed in order to document the views of the stakeholders and the remaining partners.

The main issues of the questionnaire are:

1. Which should be the specific functional possibilities of the OP?
2. Which are the specific air pollutants concentration and emissions levels that will be inserted?
3. Should other kind of data be used as well?
4. What will be the time resolution of the input data?
5. Will historical data be used and for which period for each area?



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6. Which will be the structure and the format of input data?
7. Will future projections be made? Which assumptions and scenarios should be examined?

During the 3rd plenary meeting, AXON Envirogroup Ltd provided an overview of the input data to be inserted in the OP and discussed with the remaining beneficiaries on specific requirements for the operational platform, such as in which form the final results of the Policy Tool should be presented, as well as the possibilities of intervention to the Policy Tool's databases and scenarios, given to end-users.

Work on the OP development is in progress. The Policy tool's form and applications have been discussed during the 1st informative meeting for stakeholders, held on the 14th of December 2011. Some initial feedback on stakeholders' needs has been already obtained. Close collaboration with stakeholders is planned as work on this action progresses.

The OP application Interface design has been completed and was presented by AXON Envirogroup Ltd during the 4th plenary meeting.

All comments expressed in the framework of the interaction process with stakeholders, as well as with project partners, were taken into account in the finalization of the OP modules. Design of the OP application Interface has been completed by February 2013, as planned. The final version of the OP was presented by AXON Envirogroup Ltd during the 5th plenary meeting (22/2/13,



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Thessaloniki). All available data have been already integrated into the different OP modules, while modules' testing by means of historical data has been also successfully completed.

Progress achieved during the reporting period is presented below:

- The main objectives covered by the tool have been identified:
 - Complete overview of the PM concentrations measured and calculated emissions at the three studied areas
 - Estimation and direct presentation of the effects of specific interventions on PM concentrations in selected Greek regions
 - Access in relative information described in scientific papers and other material published in the international press.
- The structure of the tool's operational platform has been determined. It shall comprise of three interconnected yet clearly separated parts ('3-tier approach'):
 - the Database and programming related to manage it
 - the Business Logic ('Business Tier') that includes the code referring to the update and calculations to be performed
 - the Presentation Interface
- Work on the development of the main database and presentation interface has been progressing.

Data Management and Storage

Incorporation of data into the main Database is in progress. The Database will include all the information collected and produced in the framework of the project:



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- Field Measurement Data and the corresponding Source Apportionment results (including Historical Data when available)
- Emission Data (provided by inventory calculations)
- Other Data (mainly refers to Pollution Control Measures)
- Parameter Data (mainly Regions, Sectors and the naming of Key Categories).

The 'Field Measurement' and 'Emission Inventory' Data will be provided by year, geographic region and sector concerned. In order to do so, each data entry will require a Region and Sector specification. For this reason the database shall include a special data category under the name of 'Parameter Data' to permit the user to specify the geographical and sectoral structure of the database.

The 'Other Data' section will include all additional information that may refer to some indicative measures related to Emissions' Reduction or to the material that needs to be accessible in the Library. Data referring to the Measures available to control the PM emissions may also include information on the estimated cost based on the availability of previous adopted policies.

Presentation Interface

The main component of the tool, and the one with the highest importance for the majority of users, is the Presentation Interface, since it is the main communication medium between the user and the database. The Interface has to be designed in a way to be user friendly, easy to handle and operational at the same time.



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No major problems were encountered in the implementation of this action. The development of the OP is in itself challenging. Nevertheless, the continuous cooperation of the partners is expected to provide the on time completion of the action and the develop of the Policy tool.

During the 2nd informative meeting with the stakeholders of ACEPT-AIR that was held on 05/04/2013, at the Municipality of Thessaloniki, in Thessaloniki, project partners showed off the results of chemical analyzes and the policy tool. Dr. Progiou presented the different functions of the policy tools developed within the project ACEPT-AIR and Dr. Eleftheriadis explained the logic behind computational algorithms of the tool and commented that pending some improvements to include additional secondary particle formation and transport of pollution . After the presentations discussion was followed by the beneficiaries and stakeholders on the results presented, and the role of stakeholders during project implementation.

Action 5 has been implemented according to the foreseen time schedule with no problems. A list of the completed deliverables and milestones is presented below:

Deliverables:

D14: Operational Platform (OP) for the "ACEPT-AIR" Policy tool

Milestones:



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M24: Development of OP modules (database, integration of source apportionment)

M28: Testing of OP modules by means of historical data

M30: Integration of modules and completion of the OP development