LIFE Project Number

LIFE09 ENV/GR/00289

Inception Report
Covering the project activities from 01/09/2010 to 28/02/2011

Reporting Date
31/03/2011

LIFE+ PROJECT NAME or Acronym

ACEPT-AIR

Data Project

Project location	Athens, Thessaloniki, Volos
Project start date:	01/09/2010
Project end date:	31/08/2014 **Extension date:**
Total budget	€ 1,750,040
EC contribution:	€ 836,449
(%) of eligible costs	49.0

Data of Coordinating Beneficiary

Name Beneficiary	N.C.S.R. “Demokritos”
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Page

2. List of abbreviations

National Centre of Scientific Research	N.C.S.R.
Athens Metropolitan Area	(AMA),
Thessaloniki Metropolitan Area	(TMA)
Greater Volos Area	(GVA)
Aristotle University of Thessaloniki	A.U.TH
Technical University of Crete	T.U.C.
University of Thessaly	U.T.H.

3. Executive summary (max 3 pages)

3.1. General progress.

ACEPT-AIR project aims to provide the National Authorities at Central Regional and Local level with the means to control $PM_{2.5}$ and PM_{10} concentrations in air. Particulate air pollution is still a major environmental problem across the European Union. In addition to the PM_{10} air quality standards, set by the previous E.U. Directive (1999/30/EC), Directive 2008/50/EC introduces the need to control $PM_{2.5}$ as well. It proposes that Member States undertake more comprehensive monitoring of ambient levels of $PM_{2.5}$ in urban areas as a first step in reducing average urban concentrations throughout their territory. A reduction target of up to 20%, relative to average concentration expressed as Average Exposure Indicator (AEI) in 2010, is set for all Member States to be attained between 2010 and 2020. It is foreseen that this target will be reviewed in 2013 when more air quality monitoring information is available. This review will address, in particular, the issues of introducing differentiated targets for the individual Member States according to their prevailing air pollution climate and whether these targets should become legally binding.

In line with these Directives, the Greek Ministry for the Environment, Energy and Climate Change has been monitoring the concentration levels of PM_{10} and $PM_{2.5}$, through the National air pollution monitoring network, which operates several fixed PM monitoring stations. One of the main objective of ACEPT-AIR project is to assist National and Regional authorities to implement the "Thematic strategy on Air Pollution" and to formulate air quality action plans in the framework of Directive 2008/50/EC, which is regarded as an action of high priority for member states.

The main tasks initiated or accomplished during the first six months of projects are as follows:

- ✓ Preparation, finalization and signing of the partnership agreement by all beneficiaries
- ✓ Design, setup and launch of the project website
- ✓ Design of the measurement studies campaigns and setting the specifications for equipment procurement
- ✓ Creation of database on PM data and source apportionment results from past studies in the study area
- ✓ Modelling and data collection for the anthropogenic and natural emission inventories in the three study areas

3.2. Assessment as to whether the project objectives and work plan are still viable.

A considerable effort has been undertaken on launcing the project as some administartive obstacles had to be overcome. Despite the delay observed during the first months, a fact reflected in the necessity to reschedule some of the project actions, the Co-ordinating and associated benefiaries have achieved in providing the deliverables scheduled for the first six months of the project. In the forth coming 2nd plenary meeting the progress of the project will be further consolidated as partners can provide evidence of considerable work. A detailed picture of the actions' progress will be given below, leading to the conclusion that the project work plan is viable and the objectives and deliverables of the project will be accomplished

3.3 Problems encountered.

- Problems of administrative nature were encountered during the launch of the project but were all succesfully overcome. Some had to do with the fact that the Finance Dept of the Co-oredinating Beneficiary had not had earlier experience with a LIFE project. The long time required for signing the partnership aggreement by all beneficiaries was another result of delays of administrative nature. These problems are not likeley to affect the timely completion of the project.
- There have not been reports by the beneficiaries on major technical problems. Some missing parameterizations and data on traffic and industrial emmission inventories are described in the progress of the relevant actions together with the alternative sources of information available in order to remedy the effect of missing data
- The only action requiring significant changes is Action 10 for project monitoring and is re-organized in order to achieve in full the succesful outcome. A complete description of the amended action is given in **ANNEX X**.

4. Administrative part

4.1. Description of project management

The implementation of the project ACEPT-AIR LIFE09 ENV/GR/000289 was initiated by the coordinating beneficiary N.C.S.R. "Demokritos" on September 2010. The project kick-off meeting was organized on the 14th of October 2010, at the premises of the Institute of Nuclear Technology & Radiation Protection, N.C.S.R. "D", where representatives of all four associated beneficiaries attended. The agenda of the meeting included a comprehensive presentation of Life+ Common Provisions and key issues concerning reporting and other obligations to the European Committee. In addition, each beneficiary gave a short presentation on their specific field of work in the framework of the project, while the coordinating beneficiary discussed further the necessary steps to be made in the following few months. The main issues raised were the following: (1) the preparation of the partnership agreement, which should be signed by all beneficiaries; (2) the financial management of the project, where all the procedures to be followed were given in detail; (3) technical issues regarding PM sampling / analysis, emission inventories and the development of the policy tool. The meeting programme, minutes and list of participants are included in **ANNEX I**.

Following the kickoff meeting, the coordinating beneficiary has assigned, in collaboration with the associated beneficiaries, the members of the three decision making bodies (Management Board Committee, Steering Committee and Technical Committee), presented below in paragraph 4.2. Formal letters have been sent to the 5 stakeholders by the Project Manager, informing them on the current status of the project. A copy of the letters is included in **ANNEX II**.

The second plenary meeting has been scheduled for March 28th, again at the premises of N.C.S.R. "Demokritos". Mrs. G. Valaoras, representative of the Astrale Monitoring Team, is expected to attend, in the framework of the yearly routine control of the project progress.

4.2. Organigramme of the project team and the project management structure

The project management structure is based on three decision making bodies: the Management Board Committee (MB), the Steering Committee (SC) and the Technical Committee (TC). The organigramme of the project management team is presented below:

ACEPT-AIR Management Team

Management Board Committee

Project Manager: K. Eleftheriadis

Scientific Secretary: E. Diapouli

Financial Manager: K. Daniel

Representatives of each beneficiary:
A. Kungolos, UTH
C. Samara, AUTH
A. Progiou, AXON Envirogroup Ltd.
M. Lazaridis, TUC

Experts of different scientific disciplines:
V. Alexandropoulou, Environmental Engineer
Th. Grigoratos, Chemist
A. Argyropoulos, Chemist
Th. Glytsos, Physicist
K. Kavadias, Environmental Engineer
S. Kipouros,
Th. Maggos, Chemist
S. Vratolis, Chemical Engineer

Members of administrative staff:
Ch. Papatheodorou, N.C.S.R. "Demokritos"
A. Papaoikonomou, UTH

Steering Committee

Project Manager: K. Eleftheriadis

Scientific Secretary: E. Diapouli

Representatives of each beneficiary:
A. Kungolos, UTH
C. Samara, AUTH
A. Progiou, AXON Envirogroup Ltd.
M. Lazaridis, TUC

Representatives of stakeholders:
L. Viras, Ministry of Environment, Energy and Climate Change
M. Grafakos, Municipalities of the Athens Metropolitan area
D. Alexopoulos, Region of Thessaly
K. Zervas, Municipality of Thessaloniki
D. Patsios, Association of Motor Vehicle Importers

Technical Committee

Representatives of each beneficiary:
K. Eleftheriadis, NCSR "D"
A. Kungolos, UTH
C. Samara, AUTH
A. Progiou, AXON Envirogroup Ltd.
M. Lazaridis, TUC

External evaluators:
A. Chaloulakou, NTUA
X. Querol, CSIC
R. Harrison, University of Birmingham

Detailed data on all personnel working currently on ACEPT-AIR project is given in **ANNEX III.**

4.3. Partnership agreements status (incl. date of signature) and key content

The partnership agreement has been signed by all beneficiaries on the 2nd of February 2011. Subsequently, the first instalment has been paid to all associated beneficiaries, according to the payment scheme set at the partnership agreement. The partnership agreement determines the role and obligations of each beneficiary, the respective financial contributions (own and from the EC) and a specific payment scheme for the instalments. A copy of the partnership agreement is included in **ANNEX IV**.

5. Technical part

The project is progressing in general in accordance with the foreseen actions timetable, without any significant delays. The activities performed until the end of the reporting period are related to actions 1 – 4, 6 and 9. Work on the remaining actions is expected to start during 2011, as indicated in the modified timetable, given in **ANNEX V**. The initial timetable included in the proposal has been amended in order to agree with the actual start date of the project, the foreseen Deliverables and Milestones time schedule and the actual progress of the project during the monitoring period. The changes proposed relate to:

- Extension of Action 1 to run throughout all the project's duration
- Extension of Action 8 until July 2014 (when the international conference included in this Action is planned to be held)
- Start date of Action 9 on January 2011, instead of July 2011, in order to agree with the due date of the first Deliverable of this Action (D25. The project website, due on February 2011)
- Start date of Action 10 on mid March 2011, instead of 11/10, in order to agree with the amended planning of the Action, presented in paragraph 5.1.10.

The detailed description of the progress achieved for each action is presented below:

5.1 Actions

5.1.1. Action 1. Project Management

All activities related to action 1 are described in section 4. The main objectives met during the reporting period are:

- The kick-off meeting was held at the premises of N.C.S.R "Demokritos" on the 14th of October 2010, with the participation of all partners.
- The three decision making bodies (MB, SC and TC) have been formed.
- The partnership agreement has been signed by all beneficiaries and the first instalment has been transferred by the coordinating beneficiary to the associated beneficiaries.

The only problems encountered relate the public bodies' complex administrative procedures that lead to delays in the signature of the partnership agreement, as well as the transferring of the first instalment to the associated beneficiaries. Nevertheless, these delays have not affected the work progress, which is in accordance with the foreseen time schedule.

The creation of the three decision making bodies and the good cooperation exhibited so far between their members ensure that all the action's objectives (the preparation of the mid-term, final and progress reports) will be fully and timely met. The next plenary meeting has been scheduled for March 28th, 2011, while the yearly routine control of the Monitoring Team has been also planned for this month.

5.1.2. Action 2. Construction of PM concentration databases

This action aims at the construction of databases for the mass concentrations of $PM_{2.5}$ and PM_{10}, as well as for the chemical components associated to these particle fractions, for the three urban areas: Athens Metropolitan Area (AMA), Thessaloniki Metropolitan Area (TMA) and Greater Volos Area (GVA). Databases will incorporate historical data from the three study areas and new data that will result from the sampling/measurement campaigns that will be conducted in the framework of the LIFE+ project.

A major part of the work conducted during the reporting period relates to the overall organization of the measurement campaigns and chemical analysis of aerosol samples. The preparations included:

- Procurement of consumable material, such as filters for PM sampling, material for sampling sites setup (tubing, valves, etc.), gases needed both for field measurement and samples analysis, as well as reagents used in chemical analysis of the collected samples.
- Procurement of equipment: The procurement of new sampling equipment is in progress. The demanding nature of the campaigns (different PM size fractions and analytical techniques to be applied) creates an extra difficulty regarding the selection of the most suitable PM samplers. After an extended market research, the specifications of the samplers to be purchased were set. The equivalent manufacturers have been contacted and a final decision is expected to be reached by the end of April 2011.
- Design of new sampling heads, to be deployed with existing PM samplers, for the simultaneous collection of PM_{10} and $PM_{2.5}$. The design is in progress but some technical aspects related to specific conditions that need to be met for the subsequent analysis of the collected filters (such as sample homogeneity) have stil not been resolved.
- Calibration of sampling and analytical equipment: Calibration procedures for all sampling and analytical equipment to be deployed at the field campaigns have been completed. In addition the analytical technique that will be used for the quantification of trace metals in aerosol samples has been developed and verified. The application of Atomic Absorption Spectrometry (AAS) was examined, with flame and graphite furnace. The verification of the methodology was conducted by the use of standard reference material (Urban particulate matter, 1648, National Institute of Standards and Technology, U.S. Department of Commerce). An alternative digestion procedure was also examined, by the use again of the same standard reference material.
- Development of the measurement protocol: The three beneficiaries involved in this activity (NCSR "D", AUTH and UTH) have agreed upon the final details of the measurement protocol (aerosol parameters to be studied, samplers to be deployed, filters material, measurement sites, duration and frequency of sampling). The first campaign is expected to commence during summer of 2011.

- Recruitment of additional personnel needed for the realization of the measurement campaigns and chemical analysis of collected PM samples. The recruitment of additional personnel is in progress. The positions have been advertised and all applications have been collected during the first week of January. The respective assessment committees have been formed and the applications of recruits are now being examined.
- Organization of mobile laboratory measurements: The Aerosol and Particle Technology Laboratory (APTL) from the Center for Research and Technology-Hellas (CERTH) of Thessaloniki has been contacted for the mobile laboratory measurements. The subcontract is under preparation and is expected to be signed by the both parties (NCSR Demokritos and APTL) in the course of the following weeks.

In parallel, NCSR "D" and AUTH have conducted a detailed literature review of research works studying PM concentration levels at the three urban areas (Athens, Thessaloniki and Volos). The historical data have been examined with respect to sampling protocols, sampling and analytical methods and data analysis. Following strict quality control procedures, the collected data have been introduced in a historical database, which is now completed. Part of the results obtained from this work has been submitted to the European Aerosol Conference 2011, which will be held in the city of Manchester, U.K. on September 2011. The submitted abstract is included in **ANNEX IX.**

The progress achieved in relation to the organization of the measurement campaigns indicates that the summer campaign will be conducted as scheduled during 2011. The collection of historical data has been also completed in accordance with the foreseen time schedule. The first milestone connected to this action (collection of historical data sets and quality control assurance) has been accomplished on time.

During the next Plenary Meeting scheduled for the 28th of March, 2011 N.C.S.R. "D", AUTH and UTH will finalize the planning of the summer campaigns in the three urban areas, to be conducted during 2011. The winter campaigns have been scheduled for the beginning of 2012.

5.1.3. Action 3. Source apportionment application

The main goals of this action are: (1) to examine preliminary results of source apportionment from previous studies and apply alternative source apportionment techniques on historical PM concentration data and (2) to examine the variability of source composition and strength, by performing source apportionment analysis to the new data sets, obtained by the sampling and chemical analysis campaigns conducted in the framework of the project.

During the reporting period the following work has been performed:

- The collection of existing data concerning chemical source profiles for use in CMB source apportionment has been completed.
- The collection of historical data concerning the source apportionment of $PM_{2.5}$ and PM_{10} at the three urban areas is in progress. A summary of the source apportionment studies carried out at AMA, TMA and GVA and their major findings (sources identified and source contribution estimates) will be

presented in the EAC2011, Manchester 4-9 September 2011. The submitted abstract is included in **ANNEX IX**

At a next step alternative source apportionment techniques will be applied on the historical data sets are. The first milestone of this action (completion of PMF and CMB application on historical data sets) is expected to be achieved on time.

5.1.4. Action 4. Construction of emission inventories

The main objective of this action is the development of a comprehensive emission inventory for the three areas of interest (AMA, TMA and GAV). The studied areas of interest for measuremnts (action 2) as well as inventory construction are shown in **ANNEX VI**

Regarding anthropogenic emissions, the tasks undertaken during the reporting period are:

- Identification of the special characteristics of each study area: Athens, Thessaloniki and Volos. Previous studies for the areas of interest were investigated in order to clarify local air quality problems.
  This task is expected to be completed by the end of June 2011. Studies for the areas of Athens and Thessaloniki are already under consideration.
- Collection of available data concerning: a) traffic loads, b) mean traffic speeds, c) traffic composition and d) fleet characteristics data (composition and population) in the areas of study.
  This task is expected to be completed, as planned, by the end of March 2012.
  Problems due to lack of data available have already occurred. In case of such problems statistical data, as fuel consumption and fleet population, will be applied to estimate road traffic emissions. As it appears that up-to-date traffic data either do not exist or they only cover a small part of the study area, these data will be mostly used for the spatial and temporal disaggregation of emissions.
- Processing and analysis of fleet data (statistical) and of available traffic data in order to a) complement with traffic characteristics data the parts of the study area with missing information and b) specify the diurnal variation of traffic loads and speeds.
  This task is expected to be completed, as planned, by the end of September 2012. In case of lacking data, other data available as length of existing road network and classification of roads will be applied.
- Study and processing of traffic and fleet characteristics data in terms of engine technology categories for each vehicle type.
  This task is expected to be completed, as planned, by the end of September 2012. Data for the area of Athens have already been processed without particular problems.
- Preliminary discussions for the preparation of the most suitable grid that will be used for the allocation of total road traffic emissions for all three areas of study.
  The specification of the grid size and position will be achieved by the end of 2011. No special problems are expected.
- Development of the methodology that will be applied for the spatial and temporal disaggregation of traffic data.
  The task is expected to be completed, as planned, by the end of 2012. The methodology will be based on known scientific experience. Similar methodologies have already been applied in the past by Prof. I Ziomas and Dr. A. Progiou.

- Quality control and consistency control of existing traffic data and fleet data

  Continuous control of data gathered with regard to the data source, completeness, methodology of processing, if applied, etc. This task is expected to be completed, as planned, by the end of March 2012 along with the completion of data collection.

  The planned tasks for the following months include:
- Calculation of road traffic emissions (model application)
- Industrial emissions inventories
- Residential and commercial emissions
- Spatial and temporal allocation of emissions

  The accomplishment of the above tasks is expected to be on schedule.

  In what concerns natural emissions, during the reporting period, the necessary data to create a spatially, temporally and chemically resolved emission inventory from natural sources for the three areas of interest (AMA, TMA and GVA) were gathered:
- The annular (tn/yr) gaseous pollutants (NOx, SOx, NMVOCs, CO, and NH_3) emissions were collected from the UNECE/EMEP database.
- Emissions of BVOCs were calculated using methodologies presented in the EMEP/CORINAIR Guidebook (2007).
- The effect of forest fires to the emission from natural sources was incorporated in the calculations.
- Methodologies were applied to estimate windblown dust emissions and emissions of sea salt particles.

  Primary results regarding the emissions from natural sources for the Athens Metropolitan Area have been produced and comparisons with existing emission inventories are in progress. A methodology, based on the rollback equation, to estimate the necessary reduction of emissions to meet the EU air quality standards is also under development

  No major problems were encountered so far. The calculations for completing the emissions inventory of natural sources were performed using methodologies from the current literature in conjunction with existing experimental data and meteorological parameters. The collection of data for the construction of the natural sources emission inventory is proceeding according to the described in the proposal time schedule and it will be completed within an 18-month period.

  The cooperation of AXON Envirogroup Ltd. and TUC continues and the collection of data on anthropogenic and natural emissions is proceeding, with the final objective to develop spatially and temporally disaggregated emission inventories for the investigated areas. The collection of data is expected to be completed within the defined time period. The construction of emission inventories is already in progress and it is also expected to be completed in time.
  Furthermore, a methodology for the reduction of the current emissions in order to meet the EU air quality standards is being developed.

5.1.5. Action 5. Development of the Policy Tool operational platform

Work on this action is scheduled to begin on March 2011.

5.1.6. Action 6. Two-way direct interaction process with stakeholders

The purpose of this action is the development and application of a two-way direct interaction process with the stakeholders involved, enabling them to understand and be trained in the use of the developed policy tool.

The Project Manager has already officially informed all five stakeholders regarding the initiation of ACEPT-AIR project, as described in paragraph 4.1. He has also met several times with representatives of the Ministry of Environment, Energy and Climate Change, in order to discuss key issues and specific management needs in relation to the application of an integrated environmental policy for ambient air quality. In addition, AUTH and UTH have been in contact with the Municipality of Thessaloniki and the Regional Union of Magnesia and N. Sporades (former Prefecture of Magnesia), respectively.

Future interaction activities with all stakeholders are being planned. At a first level, the objective is to inform stakeholders on the project progress and document initial feedback.

5.1.7. Action 7. Active application of the Policy Tool

Work on this action is scheduled to begin on October 2011.

5.1.8. Action 8. Organization of open forum and International Conference

Work on this action is scheduled to begin on June 2011.

5.1.9. Action 9. Dissemination and mobilization of society

The project website (http://www.aceptair.prd.uth.gr) is open to the public since January 2011 and work continues in order to keep it updated with the project results and news. Statistical data on the monthly website visits are given below:
January: 48 hits, February: 112 hits

UTH has already purchased and installed at the Department of Planning and Regional Development two notice boards bearing LIFE+ LOGO (photos included in **ANNEX VII**). NCSR "D" and AUTH are also planning to purchase similar notice boards for the areas of Athens and Thessaloniki.

N.C.S.R. "Demokritos" and Axon Enviro-Group Ltd have participated in the LIFE09 Regional Kick-off Meeting, held in Athens on 17 February 2011. The meeting's agenda is included in **ANNEX VIII**. The project manager delivered a short presentation regarding the project's aims, main activities and anticipated results. This meeting provided also the opportunity for contact and exchange of experience with other LIFE Projects held in Greece and Cyprus. Common objectives were found with project 09 ENV/CY/252 "PM3 - Particulates monitoring, modelling and management", coordinated by the Department of Labour Inspection, Ministry of Labour and Social Insurance of Cyprus. The project manager of PM3, Mr. S. Kleanthous, has been invited and visited N.C.S.R. "Demokritos". He has been guided to the Environmental Radioactivity Laboratory and the Demokritos Urban Background Station. Mr. Kleanthous has shown special interest on the Laboratory's accreditation on ELOT EN ISO/IEC-17025 for sampling and measurement of PM_{10} in atmospheric air. ACEPT-AIR and PM3 project managers discussed on the two

projects' specific objectives and common research interests. Further collaboration is expected by both parties.

Regarding dissemination of initial project's results, three abstracts have been submitted to the European Aerosol Conference 2011, to be held in the city of Manchester, U.K. on September 2011:

- K. Eleftheriadis, E. Diapouli, C. Samara, A. Kungolos, A. Proyou, M. Lazaridis, "Development of a Cost Efficient Policy Tool for reduction of Particulate Matter in Air", to be presented at the European Aerosol Conference, 4-9 Sept, 2011, Section: PM Policy and legislation
- K. Eleftheriadis, E. Diapouli, M.I. Gini, V. Vasilatou, C. Samara, G. Argyropoulos, "Source apportionment of airborne particulate matter for three urban centers in Greece", to be presented at the European Aerosol Conference, 4-9 Sept, 2011, Section: PM Policy and legislation
- V. Aleksandropoulo[1], M. Lazaridis and K. Eleftheriadis, "Assessing PM_{10} source reduction in urban agglomerations for air quality compliance", to be presented at the European Aerosol Conference, 4-9 Sept, 2011, Section: PM Policy and legislation

The abstracts are included in **ANNEX IX**.

5.1.10. Action 10. Monitoring of Project progress

Action 10 was initially scheduled to start on November 2010. Even though the Project Manager unofficially contacted the three external evaluators (Prof. A. Chaloulakou, N.T.U.A., Greece, Dr. Xavier Querol, C.S.I.C., Spain and Prof. Roy Harrison, University of Birmingham, U.K.) regarding the initiation of the project, no written consent by their part has been yet obtained. An official letter will be sent to the proposed memebers of the monitoring team in March and the team will be finalized by April 2011. Therefore work on this Action has not yet started. In addition, the Management Board and Steering Committees have reviewed the proposed monitoring scheme and have concluded that both the methods employed and expected results are not clear and feasible in certain cases. For this reason, an amendment of Action 10 is proposed, included in **ANNEX X**. According to the new timetable (**ANNEX V**) this Action is expected to start middle of March 2011

A written consent is expected to be obtained by all three evaluators in the course of the following 2 months. Given that all other Actions of the project are progressing as scheduled, and that the Monitoring tools and procedures have been better defined in the amended text, it is expected that work on Action 10 will be conducted according to the new time schedule and no further deviations from the foreseen activities will be observed.

5.1.11. Action 11. Action plan formulation for PM reduction

Work on this action is scheduled to begin on February 2013.

5.1.12. Action 12. After-life communication & continuation plan

Work on this action is scheduled to begin on July 2013.

The overall evaluation of the progress that has been achieved so far indicates that the project will be implemented as scheduled and with no major problems. A list of Actions, Deliverables and Milestones (as foreseen and actually performed) is presented in **ANNEX XI**. The changes are related to the due dates for the submission

of Project Reports, the amendments proposed to Action 10 (Monitoring of project progress) and the realization of the International Conference (Action 8).

5.2. Availability of appropriate licences and authorisations (if relevant; as indicated in the proposal).

N/A

5.3. Envisaged progress until next report.

The main tasks scheduled for the following 6 months include:

Action 1:

- Next plenary meeting and yearly routine control of the Monitoring Team, scheduled for end of March, 2011
- Work on the compilation of next progress report, to be submitted on October 2011.

Action 2:

- Realization of the summer campaign in the three urban areas

Action 3:

- Application of alternative source apportionment techniques on the historical data sets

Action 4: Work will commence on

- Calculation of road traffic emissions (model application)
- Industrial emissions inventories
- Residential and commercial emissions
- Spatial and temporal allocation of natural and anthropogenic emissions

The development of a methodology for the estimation of needed reductions of current emissions in order to meet the EU air quality standards will continue.

Action 5:

- Identification of users requirements in terms of input data and elaborated data presented, procedures applied, tools to be used etc.
- Development of the input databases for the Policy tool will commence
- Development of OP Modules will commence

Action 6:

- Continuous contact with stakeholders

Action 8: Work will commence on the organization of:

- The International Conference, which has been decided to be held at the last year of the project (probably on May, 2014).
- The open forum, which will take place after the completion of the "ACEPT-AIR Policy tool for emissions management and control and the early results of Action 7.

Action 9:

- Placement of notice boards bearing LIFE+ LOGO in Athens and Thessaloniki
- Dissemination of projects results in conferences
- Frequent update of project's website

Action 10:

- Written consent by three external evaluators regarding their involvement in the project

Submission of all monthly reports and Inception Report to the evaluators

The proposed (foreseen) timetable as it has been currently ammended, as well as the actual and planned for the following 6 months time schedule of all actions, are presented in the following Gantt chart:

Proposed and actual / planned (for the following 6 months) timetable of actions

Tasks/ Activities		2010				2011				2012				2013				2014			
		1T	2T	3T	4T	1T	2T	3T	4T	1T	2T	3T	4T	1T	2T	3T	4T	1T	2T	3T	4T
Overall project schedule	Proposed			**O**			**X**		**X**			**O**	**X**	**X**						**O**	**X**
	Actual						**X**														
Action 1	Proposed																				
	Actual / Planned																				
Action 2	Proposed																				
	Actual / Planned																				
Action 3	Proposed																				
	Actual / Planned																				
Action 4	Proposed																				
	Actual / Planned																				
Action 5	Proposed																				
	Actual / Planned																				

Tasks/ Activities		2010				2011				2012				2013				2014			
		1T	2T	3T	4T	1T	2T	3T	4T	1T	2T	3T	4T	1T	2T	3T	4T	1T	2T	3T	4T
Action 6	Proposed																				
	Actual / Planned																				
Action 7	Proposed																				
	Actual / Planned																				
Action 8	Proposed																				
	Actual / Planned																				
Action 9	Proposed																				
	Actual / Planned																				
Action 10	Proposed																				
	Actual / Planned																				
Action 11	Proposed																				
Action 12	Actual / Planned																				
	Proposed																				

6. Financial part

6.1. Putting in place of the accounting system.

A cost center electronic spreadsheet has been created and is contonually updated by the Financial Manager of the project. Inputs are collected and registered in the cost center as soon as they are available by the coordinating beneficiary's Finance Department. Inputs by the associated beneficiaries are collected every three months. All cost items are available at the respective Finance Departments of the coordinating and associated beneficiaries. All original items are stamped by a unique LIFE+ 0289 signature. Copies of all above items are filed and are available for inspection at the project's Finance Manager's Office.

6.2. **Costs incurred** (summary by cost category and relevant comments)**.**

The following table displays the incurred project costs:

Budget breakdown categories	Total cost in €	Costs incurred from the start date to 28.02.2011 in €	% of total costs
1. Personnel	1,207,256	155,894.04	12.91
2. Travel and subsistence	126,267	246.71	0.20
3. External assistance	83,500	0	0
4. Durable goods			
Infrastructure			
Equipment	77,000	0	0
Prototype			
5. Land purchase / long-term lease			
6. Consumables	96,800	9,086.49	9.39
7. Other Costs	51,617	645.2	1.25
8. Overheads	107,600	10449.96	9.71
TOTAL	1,750,040	176,322.40	10.33

Total costs incurred are lower than expected in relation to the project progress (12.5 % of project duration has been reached). The main reason for this low absorption of funds relates to the coordinating beneficiary's decision not to forward the 1st payment to the associated beneficiaries before the signature of the partnership agreement was concluded by all beneficiaries. This process for public bodies took excessive time. On the other hand, due to administrative procedures, the transferring of funds by the coordinating beneficiary was further delayed. As a result the 1st payment for UTH, TUC and AUTH became available at the end of this reporting period. This delay is fully depicted in the low percentage of spending for consumables and other costs during the reporting period.

The purchase of equipment is expected to be finalized in the course of the following 1 – 2 months. In addition, a significant increase of the travel expenses is expected, corresponding to costs related to participation in conferences, in the framework of dissemination activities. The 30 % threshold value of total costs is expected to be covered by

funds available to the beneficiaries by national contributions or reserves available for this purpose.

V.A.T. statements by all public bodies are included in **ANNEX XII**.