



Das Lebensministerium



UFIPOLNET Progress Report 2



01-01-2006 to 31-08-2006
LIFE04 ENV/D/000054



Freistaat  Sachsen

Saxon State Agency for Environment and Geology (LfUG)



UFIPOLNET LIFE04 ENV/DE/000054



LIFE Project Number
LIFE04 ENV/D/000054



PROGRESS REPORT No. 02
Covering the project activities from 01.01.2006 to 31.08.2006

Reporting Date

29/09/2006

LIFE PROJECT NAME

UFIPOLNET

Data Project

Project location	Dresden / Germany
Project start date:	<01/12/2004>
Project end date:	<30/11/2007>; - Extension date
Total Project duration (in months)	<36> months; - Extension months
Total budget	€ 868 639
EC contribution:	€ 397 196
(%) of total costs	45.7%
(%) of eligible costs	46.3%

Data Beneficiary

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2 Abbreviations

CHMI	Czech Hydrometeorological Institute (CHMI)
CS	Czech
DE	German
EN	English
GSF	National Research Centre for Environment and Health, Munich
IfT	Institute for Tropospheric Research
LfUG	Beneficiary: Landesamt für Umwelt und Geologie: Saxon State Agency for Environment and Geology
ITM	Department of Applied Environmental Science (ITM), University Stockholm
SV	Swedish
TOPAS	Technologie-orientierte Partikel-, Analysen- und Sensortechnik (TOPAS GmbH)
TSI	TSI GmbH, Aachen (Co financier)
UBG	LfUG Staatliche Umweltbetriebsgesellschaft (dependent on LfUG)
UFIPOLNET	Ultrafine particle size distributions in air pollution monitoring networks
VDI	Verein Deutscher Ingenieure

units

%	percent
°C	Grad Celsius
a	year
d	day
K	Kelvin
m	Meter
mg/m³	milligram per cubic meter
µg/m³	microgram per cubic meter
mm	millimetre
ng/m³	nanogram per cubic meter



3 Executive Summary

One year ago the Commission proposed a clean air strategy to protect human health and the environment (Reference: IP/05/1170 Date: 21/09/2005, IP/05/1170). Margot Wallström and Vice-President of the EC in charge of Institutional Relations and Communication Strategy and Stavros Dimas, Member of the EC in charge of Environment, participated in an experiment to measure the level of air pollution by particle matter on 15-09-2005. "American researchers recently investigated the potential health risks of ultrafine particles in rats. The results show that the nano-sized materials inhaled by rats follow a rapid and efficient pathway from the nasal cavity to several regions in the brain. Exposure also caused signs of inflammation and stress. The ultrafine particles used in the study are the same size as nanoparticles, which are controversial due to concern about their safety (DG ENV; Science for Environment Policy 14 September, 2006 Issue 34)."

This underlines the importance of the EU-project UFIPOLNET, which aims to make measurements of number of particulates in ambient air with routine measuring container inside of measuring networks easier, cheaper and more reliable.

To measure number concentrations of particulate matter at different locations over a longer period will be one way of showing the reduction of the number concentrations of particulates in European cities.

The objective of the project is to demonstrate an applicable and affordable measuring device for ultrafine particles that can be implemented all over Europe. The 4 prototypes will demonstrate that reliable and comparable data for various kinds of analysis can be provided with the device.

Project Management:

The 2 days 2nd annual workshop in May 2006 and also several internal meetings at the LfUG, with the assembly team, with TOPAS, IFT and other organisations (LfL, LANU VOR and SAB) were organised. The project was visited by the monitoring team in May 2006. First subpayment requests were send and were checked.

Technical development:

Task Design (T2) was running all threw 2005 and needs 10 month longer as an extension.

A lot of work has been done from TOPAS and IFT with the help of TSI providing more than planed device parts. Finalisation of the first prototype was in June 2006, instead of August 2005.

Problems encountered:

Technical problems occurred in middle to end of 2005 and were solved by the assembly team partly with success. The particle size distribution of ultrafine particle number concentrations were planed to be specified within a size range of approx. 12 - 500 nm. This objective have to be changed because of technical problems to about 20 – 200 nm.

The devices have to be checked at TOPAS, because not all produced the expected results at the calibration tests in Leipzig. These devices will be tested again in the laboratory at TOPAS. The assembly team thinks that some parts of the devices are not working well. These parts must be identified and exchanged during September and begin of October.

Due to the need for a better sampling system for receiving comparable results money will be shifted between the cost categories, without the need of a substantial amendment.

Almost all partners send a declaration concerning VAT. The rest will send it this year before intermediate report.

**Dissemination:**

A dissemination plan for past and future events was created. A homepage with shorter address: www.ufipolnet.eu is updated every month. A professional Flyer in English, German, Swedish and Czech was created in September 2006.

Envisioned progress up to 29-02-2007:

The interim report will be prepared eventually before end of 2006. On 13-09-2006 the assembly team had a meeting in St. Paul where the last solutions regarding the technical problem were discussed. The implementation of the devices at the 4 locations (Dresden, Prague, Stockholm, and Augsburg) will start in October 2006. Signboards will be installed at the 4 measuring stations during November 2006.

Financial issues:

About 32% of the planned costs have been spent. Some small budget modifications have been made no substantial amendments are necessary.

Progress and planned activities:

The task 2 has to be extended. Therefore Task 3 and 4 have to be shortened. It seems likely, that the project will be in time at the end of 2006.

An extension of the project duration is not needed. The extra time for finalising the final report (max. 3 Month after project end) will be probably necessary.

Annexes:

leaflets in DE, EN, CZ, SV; Addresses of UFIPOLNET partners and associated persons; User requirements; oral presentation in Meißen; Description of the 4 measuring stations; Pre Version of Users manual; Time schedule Task 2; Channel description series UFP (Bayern + Hessen protocol) for CHMU; Suggestion for sampling inlet + Suggestion for main components shopping list are attached to this report.



4 Project management

The **Beneficiary** already employed the project manager and finance coordinator. In **May 2006 the Engineer was employed** as planned for 20h per week.

The project manager organised:

- 2 days **2nd annual meeting** on 16- 17-May-2006. It was documented by hardcopy and on CD-ROM (already sent to the EC).
- **assembly team** (TOPAS, IfT and co financier TSI) **meeting** with minutes: on 20-03-2006.
- Meetings with **TOPAS** and UBG (9-03-2006) to visit the measuring container in Dresden and in spring with TOPAS regarding financial guidelines.

The **assembly team** also organised telephone conferences. The assembly team had a lot of contacts via email and telephone with each other. During the International Aerosol Conference in St. Paul/USA a meeting took place on the 13-Sep-2006.

The project manager organised with the help of the partner IfT the **visit of the project** by **PARTICIP** (Mr. Reisenberger) on the 17-05-2006. (The minutes/reports have been sent to the commission by PARTICIP).

Inside the beneficiary organisation (**LfUG, UBG**) the project manager organised and documented meetings:

- A half day for the half time meeting with LfUG/UBG/LfL: 5-Jul-2006, 10 participants (financial organisation, dissemination, technical status quo)
- press officer: half day meeting 1-Aug-2006; 20-Sep-2006
- Financial manager + Sub department 13: half day meeting 1-Feb-2006 regarding financial management (together with consultant); half day meeting 15-03-2006 same topic
- Sub department 14: half day meeting 23-3-06 regarding dissemination: Logo, leaflet, Layman report, notice boards
- UBG: 22-03-2006; half day meeting 9-May-2006 regarding tasks of the engineer at UBG

The project manager organised and documented meetings with **other organisations (LfL, SAB, LANU, VOR)**:

- LANU (Landesstiftung für Natur und Umwelt): Half day meeting at the Blockhaus, Dresden as a possible location for final conference on 14-Jul-2006
- VOR, advertising agency: Half day meetings at VOR on the 9-May-2006, half day meeting on 19-May-2006.
- SAB (Sächssische Aufbaubank): Half day meeting at the SAB, Dresden city as a possible location for the final conference on 15-Aug-2006
- LfL (Landesanstalt für Landwirtschaft): First half day meeting with auditor of the project on 12-Sep-2006



The **contract** for the **rooms** for the final conference at the SAB (Sep-2007) were signed on 20-Sep-2006.

The project manager created and updated the **project time plan**. The project manager helped the finance coordinator to write the **financial guidelines UFIPOLNET**. A **dissemination plan** (past and future events) has been made.

The project coordinator updated the **address file (see Attachments)**, **dissemination plan**, distribution list with postal address, with email address (>500). The **Numbers of Internet hits** are counted and documented since August 2005.

Representatives of the beneficiary:

- **The finance coordinator:** Coordinates the Sub-Payment-Requests by partners and checks the invoices and other financial papers. First subpayment requests were sent by partners.
- **Sub department 14** helped to produce the **leaflets and sign boards**.
- The **press department** will launch a press release in November 2006.
- The **president of LfUG** will probably attend the press meeting in November 2006.
- The desk officer in **sub department 22** responsible for particle measurements in Saxony attended different meetings, like the 2nd annual meeting and the assembly team meeting.

Following **reports have been delivered** since the start of the project to the commission:

- Documentation of the kick off workshop (5 - 7-Jan-2005) incl. CD-ROM
- Short minutes including pictures during the visit of PARTICIP (20-07-2005)
- Financial Guidelines UFIPOLNET (Ver. 12-Oct-2005)
- Documentation of the 2nd annual workshop (16 - 17-May-2006) incl. CD-ROM

Partner:

The partner contracts have been signed by all partners in 2006.

The beneficiary, TOPAS, IfT and ITM provided a declaration from the relevant national authorities that he must pay and may not recover the VAT for the assets and services required for the project. GSF and CHMU will have to send this declaration for 2005 to the beneficiary.

An extension of the project duration is not needed but the measuring phase has to be shortened within the project duration.

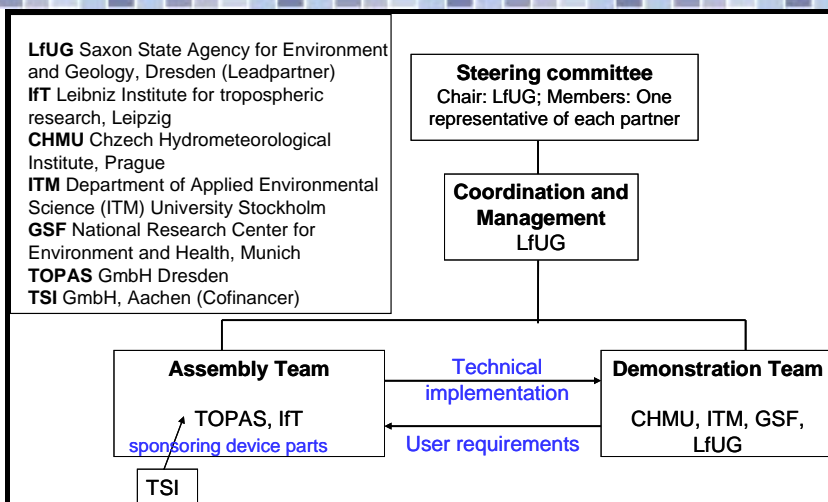


Fig. 1 Organisation of partners

5 Technical development

5.1 General

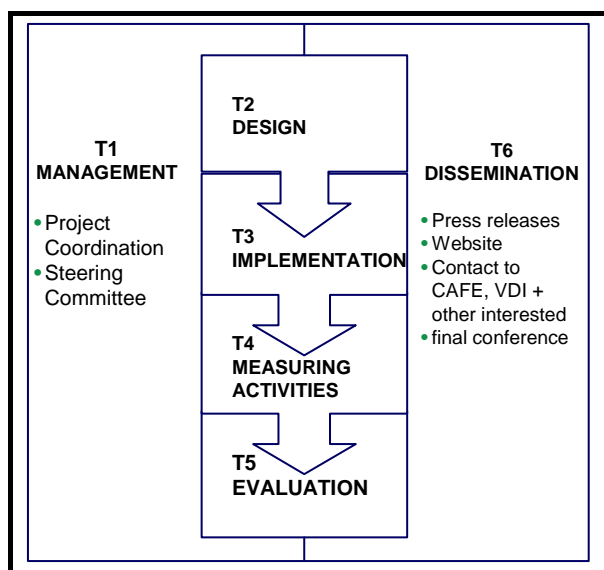


Fig. 2 Organigram of the Tasks in UFIPOLNET

As you can see from fig. 2 Management and Dissemination are running from the beginning until the end of the whole project life. Task Design (T2) was running all threth 2005 and needs 10 month longer as an extension (s. fig. 7). Therefore Task Implementation (T3) and Task Measuring (T4) will be shortened to 2 respectively 12 months in comparison to the plan of 5 (T3) and 18 (T4) months.

5.2 Task 1 Coordination activities (Management)

See Chapter 4 Project Management.

Administrative management and quality control: Project time plan and structure plan was made. This will be continuously updated.

Coordination of project activities: Several emails, contacts by minutes of workshops + meetings.



Financial plan has been made and sub plans attached to the partner contracts. The financial plan will be updated continuously.

The second Workshop took place in May 2006.

The first progress report was published March 2006. The second will be published September 2006.

5.3 Task 2 Designing and planning, assembly and calibration of the prototype

This is the main task in the beginning of the project. A lot of work has been done from TOPAS and IFT with the help of TSI providing more than planned device parts.

Objectives according to the proposal	Outcome
Definition of user requirements	O.K., attached to this report.
Planning of the prototype	O.K., a Report with blue prints and pictures of the designed prototype is in a draft version of the pre version of the users' manual attached . The well documented users' manual will be available from TOAPS at the end of the project in middle 2007. All changes and experiences of the user will be taken into account.
Assembly of first prototype + Assembly of the other three prototypes	O.K. ; TOPAS assembled last 3 of 4 UFI 330 in July 2006.
Calibration of first prototype	O.K., first measurements in comparison to other DMPS with promising results (May 2006). These measurements are documented in the pre version of the users' manual.
Tests and calibration of the other 3 prototypes	O.K. They have been tested during August - September 2006 by IFT. A test report of measurements of the 4 devices will be presented by IFT latest at the 3 rd annual meeting in February 2007 .
Delivery of the prototypes	About October/November 2006 by TOPAS, after checking the devices because of deviations between them

The devices have to be checked at TOPAS, because not all produced the expected results. These devices will be tested again in the laboratory at TOPAS. The assembly team thinks that some parts of the devices are not working well. These parts must be identified and exchanged during October.

The assembly team recommended a sampling system including an inlet and a dryer (see attached documents for details: Suggestion inlet and necessary main components). The parts for sampling will be mainly bought by the user group.



Fig. 3a, b Pictures of the 4 prototypes UFI 330 Sep-2006 at the IfT calibration test laboratory in the Eisenbahnstr. in Leipzig situated in a flat. High polluted ambient air in a street canyon is measured. (Photo: TOPAS)

5.4 Task 3 Implementation at the test sites / training for the participants

Task 3 will start in October 2006, not in January, as it was planned in the beginning. First theoretical subjects were discussed during the annual workshop in May 2006.

The assembly team recommended a sampling system including an inlet and a dryer (see attached documents for details: Suggestion inlet and necessary main components). The parts for sampling will be mainly bought by the user group as it was discussed at the 2nd annual meeting.

The descriptions of the 4 measuring stations were made by the user team (see attachment), air quality parameter were compared (see. Fig. 5 a, b) and presented at the second annual workshop in Leipzig.

Objectives according to the proposal	Outcome
1st Prototype installed in Dresden	26-06 – 09-07-2006 First test runs in the measuring station for two weeks (see Fig. 4).
Interface communication in Dresden	Test in middle Sep together with CHMU
Delivery of 3 prototypes to user group after test at IfT	Plan: October 2006
Installation prototype 3 locations + staff training at the locations	Plan.
LfUG station: October	
GSF station: End of October 2006	
CHMU station: Middle of November 2006	
IITM station: End of November 2006	
First test runs Dresden	Plan: Nov-2006
First test runs Augsburg, Prague, Stockholm	Plan: Dec-2006
Interface communication of Augsburg	Web interface in construction at TOPAS.
Interface communication of Prague	Test in middle Sep in Dresden by Bayern-Hessen protocol
Interface communication of Stockholm	Not started yet



Fig. 4 26-06 – 09-07-2006 First test runs in the measuring station Dresden (Photo: UBG).

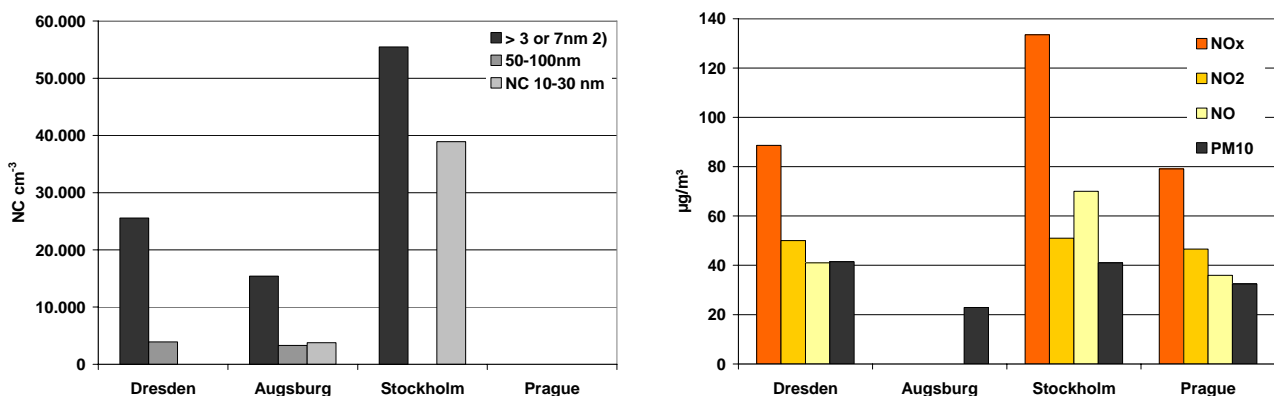


Fig. 5 a, b Comparison of annual averages of particle numbers of different particle diameters of other installed measuring devices at the measuring stations; NO_x, NO₂, NO and PM₁₀.

5.5 Task 4 Measuring activities and demonstration

Task 4 will start in October 2006, not in June as it was planned in the beginning of the project.

5.6 Task 5 Evaluation

Task 5 has been already started in August, not in September 2006, by running 4 devices in parallel at the IfT at a place with high traffic load and high concentrations of ultrafine particles (Leipzig, Eisenbahnstr.). The report of this evaluation will be presented in the interim report beginning of next year.

5.7 Task 6 Dissemination

See for details: 7 Dissemination.

A dissemination report and plan for past respectively future events was created. A homepage in German and English is updated every month. A logo and notice boards were created together with all



partners and a advertising agency. A leaflet in English and German was created in September 2005. The homepage address was shortened to: www.ufipolnet.eu. Several oral presentations of the project were held.

6 Problems encountered

Technical problems occurred in middle to end of 2005 and were be solved by the assembly team with success. This problems caused a temporarily delay of about 4 months inside Task 2 Designing which are now 10 months (until October 2006). The delay will be compensated by a shorter respectively parallel working Task 3 Implementation and six month shorter Task 4 Measuring Activities. The aim of the project to measure at least one year during the project duration is still possible.

The Task 5 Evaluation is not delayed.

From the planning of the project it was not known, that a change of size range was necessary. Because bigger particles (>200 nm) collect more charges than smaller particles, the measurements are not correct (linear with the mobility) any more. The particle size distribution of ultrafine particle number concentrations was planed to be specified within a size range of approx. 12 - 500 nm. Therefore the objective had to be changed to about 20 – 200 nm.

The devices have to be checked at TOPAS, because not all produced the expected results at the calibration tests in Leipzig. These devices will be tested again in the laboratory at TOPAS. The assembly team thinks that some parts of the devices are not working well. These parts must be identified and exchanged during September and begin of October.

Almost all partners send a declaration concerning VAT. The rest will send it this year before intermediate report.

It seems likely, that the project will be in time at the end of 2006.



7 Dissemination

Deliverables as stated in the proposal under Task 6 Dissemination

Deliverables / Event	Lang.	Date	Audience	Contribution from
Homepage www.ufipolnet.eu changed address, links to other projects/institutions, English; Newsletter	DE, EN	4-Aug-2006	scientists, network-managers, public in general interested in fine particles	LfUG
Flyer (Leaflets) in the languages of all partners: - English (5000 second circulation); - New professional Leaflet circulation 3000 De 1500 Sv, 1500Cz	DE, EN	Aug-2006; Sep 2006	scientists, network-managers, public in general interested in fine particles + general public	LfUG
Leaflets at congress/event: - 500 EN "International Air Conference" in St. Paul USA, 1600 participants; - 100 – 300 EN to all partners	EN	11-15-Sep-2006 Aug-2006	Air Quality Experts; scientists, network-managers Members of partner organisations	LfUG in cooperation with TOPAS LfUG in coop. partners
Newsletter: UFIPOLNETnews No. 2-6	EN	03-02-2006; 29-03-2006; 28-04-2006; 21-06-2006; 04-08-2006	About 500 experts and authorities, other persons	LfUG

Indicators

Description	Outcome
Use of the homepage: Number of hits	200 – 2000 per month (s. below for details)
Published releases: Number of published press releases	1 in 2005; (1 in 2006, November 2006)
Brochures available in the languages of all project partners	Leaflets: 1 German, 1 English, 1 Swedish, 1 Czech
Newsletter	1 in 2005, 5 in 2006
Participation at final conference Number of participants	(planned: about 150)

**Planned deliverables as stated in the proposal under Task 6 Dissemination**

Deliverables / Event	Lang.	Date	Audience	Contribution from
Oral + Poster presentation	DE/EN	4- 6-Oct-2006	Scientists	LfUG
GdCh meeting in Halle/Germany 4-6-Oct-2006				
EAC Salzberg (9- 14-Sep -2007)	EN	Sep-2007	Scientists	IfT, all partners
Press release:	DE, CZ, SV	Nov-2006	general public, local authorities, local politicians	LfUG
- German + Swedish, Czech Begin of measurements announced.				
- German: Final Conference + panel discussion	DE	Sep-2007		LfUG
Leaflets at meetings, conferences				
100 GdCh meeting in Halle/Germany 4-6-Oct-2006	DE/EN	Oct-2006	scientists	LfUG
100 MTK 42 (Messtechnisches Kolloqium) in Germany	DE	May-2006	network-managers	LfUG in Coop. with LANU NRW
200 KAPA GS, Klagenfurt, Austria (28 - 30-Mar-2007)	DE/EN /CZ	Mar-2007	authorities, politicians, NGOs, scientists, network managers	LfUG in Coop. with KAPA GS
500 EAC Salzberg, Austria (9- 14-Sep-2007)	DE/EN /CZ/SV	Sep-2007	Scientists, authorities	LfUG, TOPAS
Layman report Brochure (10,000 cp) with short information about project results and background	DE, EN, (SV, CS)	Jun-2007	general public	LfUG
Scientific papers: preparation begins after 6 months of measurements	DE, EN	End 2007	scientists	IfT, all partners
Report with recommendations for the expert groups	DE	Nov-2007	scientists, network-managers	LfUG, all Partners
Report of the final Congress	EN	Oct-2007	scientists, network-managers	LfUG, all Partners



Fig. 6 Notice board at measuring station Dresden (Photos: L. Hillemann)

Additional Deliverables not mentioned in UFIPOLNET proposal

Deliverables / Event	Lang.	Date	Audience	Contribution from
oral presentations: 1 hour during a professional training: "UFIPOLNET – ein transnationales EU-Projekt" (see attachment);	DE	31-1-2006;	10 coworkers at Saxon authorities;	LfUG (Gerwig)
VDI AG Partikelmessungen		14 15-Feb-06	Members of VDI AG	LfUG (Gerwig)
Workshop Immissionsschutz		10-Nov-06	10 coworkers at Saxon ministry for Environment	LfUG (Gerwig)
EU-Projekt misst Ultrafeinstaubpartikel an Verkehrsschwerpunkt in Dresden (1,5 h incl. discussion)		29-Nov-2006	Kolloquium de Inst. f. Verkehrsplanung und Straßenverkehr	LfUG (Gerwig) LfUG (Gerwig)
Notice board at measuring stations	DE/SV/CZ	Nov-2006	General public	LfUG/ITM/CHMU/GSF
Leaflets in boxes at measuring stations	DE/SV/CZ	Nov-2006	General public at 4 measuring stations	LfUG/ITM/CHMU/GSF
Panel discussion Before final conference (26-Sep-2007)	DE	Sep-2007	General public	LfUG in coop. with partners, SAB, authorities, moderator

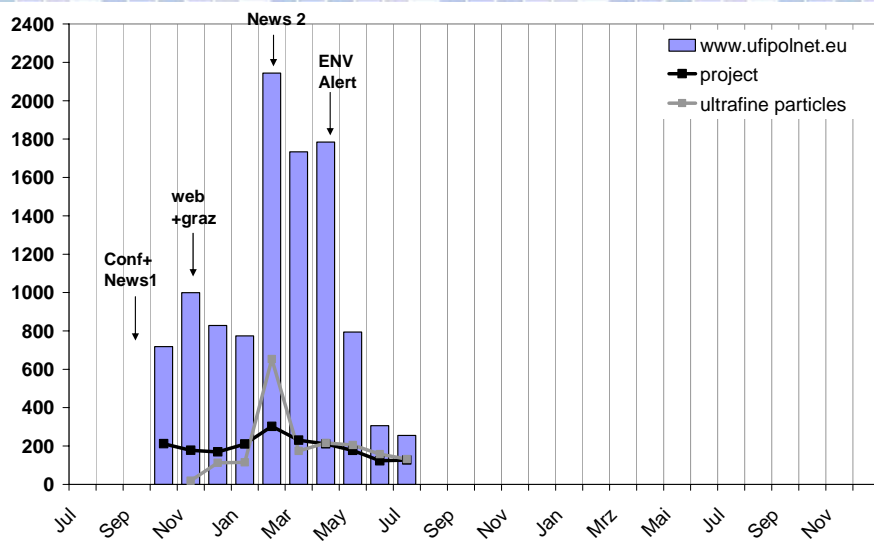


Fig. 7 Number of hits UFIPOLNET homepage Jul-2005 – Jul-2006

Use of the homepage is monitored via the number of hits since October 2005. Between 200 and 2000 hits per month were monitored. The announcement of the website by leaflet at conferences in September and November, UFIPOLNETnews 2 in February and ENV Policy in March showed a positive effect on the number of hits. The UFIPOLNETnews2 had a significant advertising effect for the sub-page, where ultrafine particles are described.

8 Envisioned progress up to 29-02-2007

Task 1 Management

The interim report will be prepared in January 2007 because not all partners have sent the sub payment requests and copies of the invoices in time. The 4th workshop and the final conference from 26-28-Sep-2007 in Dresden at the SAB (Sächsische Aufbaubank) will be planned more exactly and the invitations will be made by email at the beginning of the year.

The auditor of the LfUG will check the finance report of the interim report prior to official posting in January/February 2007.

Milestone:

- Interim report in January 2007.
- February 2007 3rd annual workshop will be held at the LfUG-Dresden with all partners, especially the user team. The first measurements and results of the project will be discussed there.

Task 2 Designing

Due to different results between the 4 UFI 330, the reason should be found out until End 10/2006. 02/2007: First Users manual and the final version 10/2007.

Task 3 Implementation

The Implementation of the devices at the 4 locations (Dresden, Prague, Stockholm, and Augsburg) and IfT will help to install the device in the measuring station and will give hint how to operate the device on 2 – 3 days trips. (See 5.4 Task 3 Implementation at the test sites / training for the participants).

The parts for sampling will be mainly bought by the user group in October 2006.

Milestone:

- 15-12-2006 UFI 330 fully implemented

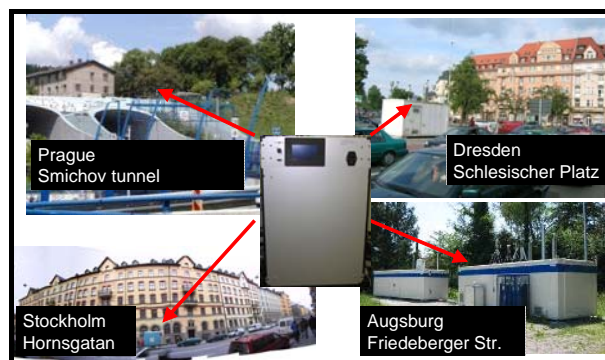


Fig 8 Places where UFI 330 will be implemented (Photos: Gerwig, Johansson, Novak, Pitz)

Task 4 Measuring

First measurements for a longer period will start in Dresden in November 2006. This has the advantage that TOPAS and IfT can help in the first time period very easily, because of the short distance of these organisations to Dresden. The other measuring places will benefit from that experience. IfT has



made a plan at what time the devices will be implemented in the other 3 stations.

- Documentation of first structured data in Dec 2006 (Dresden).

Task 5 Evaluation

- 01/2007: Documentation of test of 4 prototypes in Leipzig Sep-2006 by IfT.
- 01/2007 How to make first evaluations with UFP 330: Hints to user group from IfT.

Task 6 Dissemination

Homepage will be updated. Layman report will be prepared in a first version until 02/06.

- 11/2006 signboards on the container with the Life-Logo + UFIPONET and the statement:
DE: Dieses Projekt wird mit Unterstützung des Finanzierungsinstruments LIFE der Europäischen Gemeinschaft gefördert (LIFE04 ENV/D/000054),
EN: This project is financed with the contribution of the LIFE financial Instrument of the European Community (LIFE04 ENV/D/000054)
CS: With the contribution of the LIFE financial instrument of the European Community and Czech Hydrometeorological Institute, Praha.
SV: Projektet finansieras av LIFE / Europeiska unionen, Stockholms universitet och Stockholms stad.
+ press release + press meeting at locations, when installation over at local sites, especially Dresden. The UFI News will report about implementation of the device at 4 sites including pictures.
- 09/07 A panel discussion with experts from science, monitoring networks, local/federal authorities for the general public in Dresden.

Milestone:

- Leaflet in all languages of the partners available in Oct-2006
- Final conference from 27 – 28-Sep-2007 in Dresden at Sächsische Aufbaubank.



9 Financial issues

This chapter is not included in the WEB-Version of this report.



Progress and planned activities

The overall project development of UFIPOLNET is presented in the following time table chart:

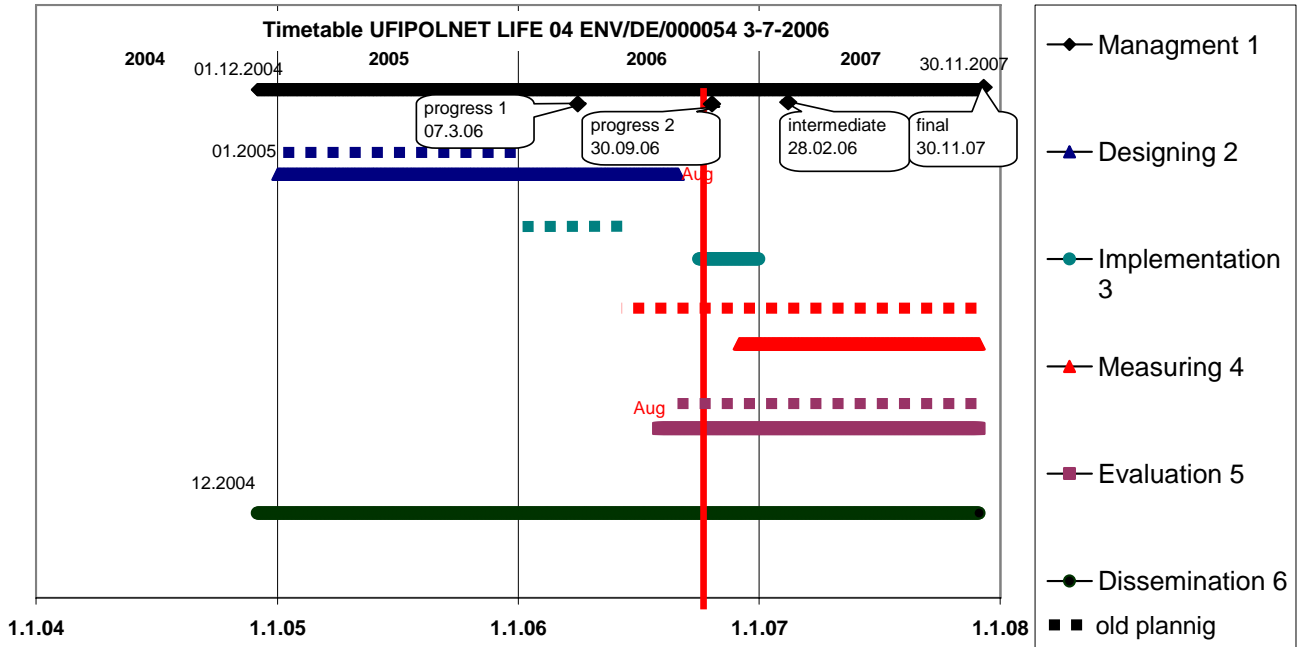


Fig. 9 Progress and planed activities



10 Annexes

- ***UFIPOLNET Leaflets in English, German, Swedish and Czech (PDF)***
- ***Addresses of UFIPOLNET partners and associated persons (Excel)***
- ***User requirements (Word)***
- ***Oral presentation in Meißen as an example (Power Point)***
- ***Description of the 4 measuring stations (Word)***
- ***Pre Version of Users manual + First results at Leipzig Eisenbahnstr (by TOPAS) (WORD)***
- ***Time schedule Task 2 (made by TOPAS) (PDF)***
- ***Channel description series UFP (Bayern + Hessen protocol) for CHMU (Excel)***
- ***Suggestion for sampling inlet + Suggestion for main components shopping list (PDF)***



Imprint

UFIPOLNET Progress Report 2 / 2006

Cover picture:

4 UFI 330 in Leipzig, Eisenbahnstr. Aug 2006

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