

megaCITY - Zoom for the ENvironment

Fact Sheet

Project Information

CITYZEN

Grant agreement ID: 212095

Status
Closed project

Start date
1 September 2008

End date
31 August 2011

Funded under
FP7-ENVIRONMENT

Overall budget
€ 3 959 273,36

EU contribution
€ 2 915 000

Coordinated by
METEOROLOGISK INSTITUTT
 Norway

This project is featured in...

RESEARCH*EU MAGAZINE
Results Supplement No. 030
- Science, technology,
materials and the nano-...

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Objective

We will determine the air pollution distribution and change in and around hotspots over the last decade from extensive satellite and in-situ observations and we will employ a series of different scale models in order to evaluate the impacts of air

employ a series of different scale models in order to analyze the impacts of air pollution hot spots on regional and global air quality including potential future changes for various climate scenarios. Focus is on ozone and particulate matter with chemical and physical characterization, and their precursors. The Eastern Mediterranean (Istanbul, Athens, Cairo), the Po Valley, the BeNeLux region, the Pearl River Delta in China (with megacities Guangzhou and Hong Kong) and the hot and polluted European summer 2003 are chosen for intensive case studies. The consortium includes groups from China, Turkey, Greece and Italy, in addition to France, Germany, UK and Norway, with experts on the observations, emission data and models. A set of chemical transport models which connect all the most important spatial and temporal scales will be developed and used to quantify how the observed air pollution arises. The models and emission inventories will be evaluated, errors identified and improved on the urban, regional and global spatial scales. Climate change may cause changes in air pollution in and around hotspots, and hotspot pollution can change precipitation and temperature/albedo. These feedbacks will be studied in scale-bridging model systems based on global climate model scenarios, and in a coupled high resolution chemistry-climate model. The model systems evaluated in the project will be applied to analyse mitigation options in and around hotspots, also taking into account climate change. Best available technologies and sectoral changes will be studied. Several partners have key roles in the technical underpinning of policy. They will ensure that the improved emission inventories, scale-bridging model systems and the systematic observational evidence will have a significant, broad and lasting impact.

Field of science

/natural sciences/earth and related environmental sciences/environmental sciences/pollution

Programme(s)

Topic(s)

Call for proposal

FP7-ENV-2007-1

Funding Scheme

CP-FP - Small or medium-scale focused research project

Coordinator



METEOROLOGISK INSTITUTT

Address

**Henrik Mohns Plass 1
0313 Oslo
Norway**

[Website](#)

Activity type

Research Organisations

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EU contribution

€ 400 000

Administrative Contact

Skaali Per Helmer (Mr.)

Participants (15)



PEKING UNIVERSITY

China

EU contribution

€ 120 000

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Activity type

**Higher or Secondary
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CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS

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€ 175 000

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INSTITUT NATIONAL DE L ENVIRONNEMENT ET DES RISQUES INERIS

France

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€ 250 000

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UNIVERSITAET BREMEN

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€ 350 000

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RHEINISCHES INSTITUT FUER UMWELT-FORSCHUNG AN DER UNIVERSITAET ZU KOELN E.V.

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FORSCHUNGSZENTRUM JULICH GMBH

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€ 300 000

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PANEPISTIMIO KRITIS

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€ 200 000

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CONSIGLIO NAZIONALE DELLE RICERCHE

 Italy

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€ 225 000

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NORSK INSTITUTT FOR LUFTFORSKNING STIFTELSE

 Norway

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€ 100 000

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UNIVERSITETET I OSLO

 Norway

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EU contribution

€ 150 000

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MIDDLE EAST TECHNICAL UNIVERSITY

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UNIVERSITY OF LEICESTER

 United Kingdom

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€ 175 000

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INTERNATIONALES INSTITUT FUER ANGEWANDTE SYSTEMANALYSE

 Austria

EU contribution

€ 100 000

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ETHNIKO ASTEROSKOPEIO ATHINON

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EU contribution

€ 75 000

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CAIRO UNIVERSITY

 Egypt

EU contribution

€ 25 000

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