

Informatics for Environmental Protection

Networking Environmental Information

Berlin, 24th January 2006

CITEAIR

Common Infor material To European AIR



CITEAIR: Common Information To European AIR



Traffic Impacts on Air Quality



Building upon the results of HEAVEN project

Pic: Michael Fresco

* **H**ealthier **E**nvironment through **A**batement of **V**ehicle **E**missions and **N**oise

* Decision Support System (DSS) for Traffic Demand Management Strategies (TDMS) Evaluation and Implementation

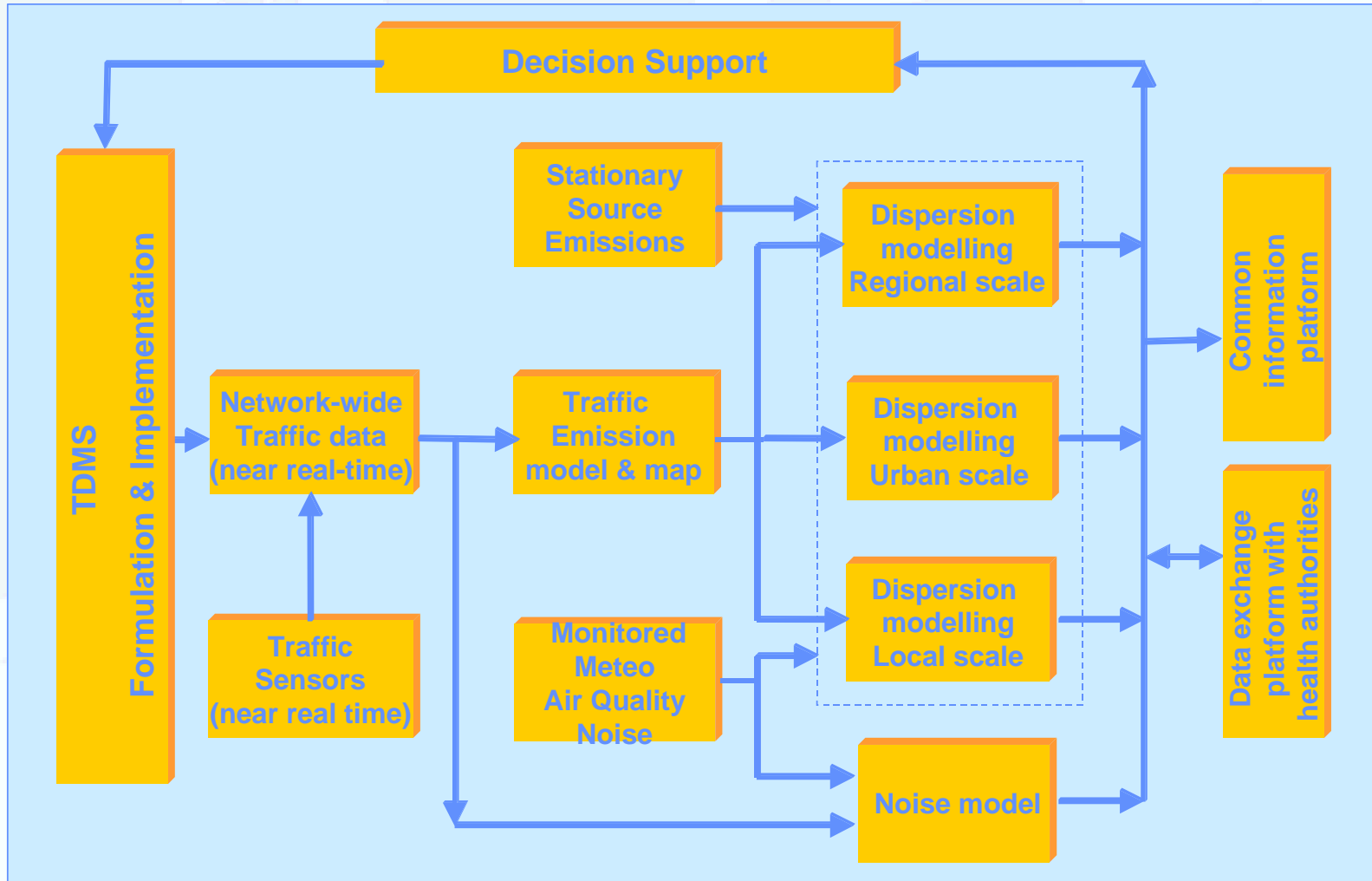
* ended in March 2003

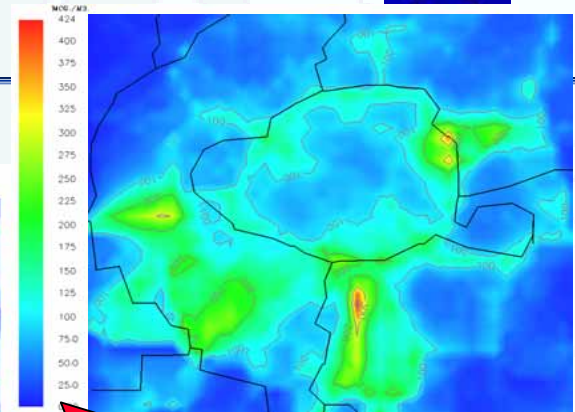
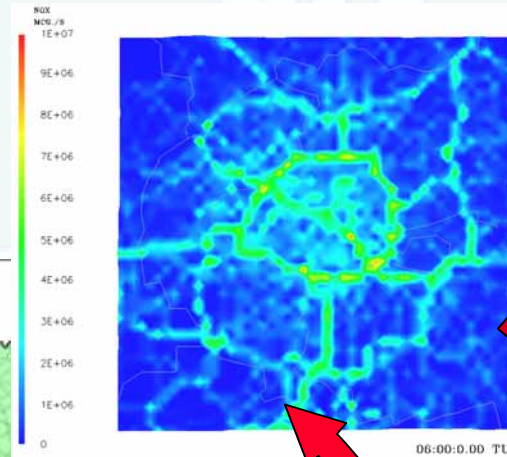
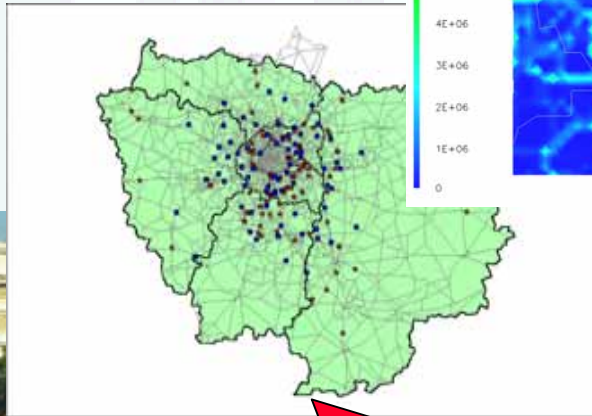
* driven by the cities:

–Rome, Rotterdam, Berlin, Paris, Leicester, Prague

–involving 28 Partners from 6 EU Countries and 2 former CEC Countries

Co-financed by the EU IST programme in FP5





« real time » AQ levels

« real time » traffic emissions

« real time » traffic description

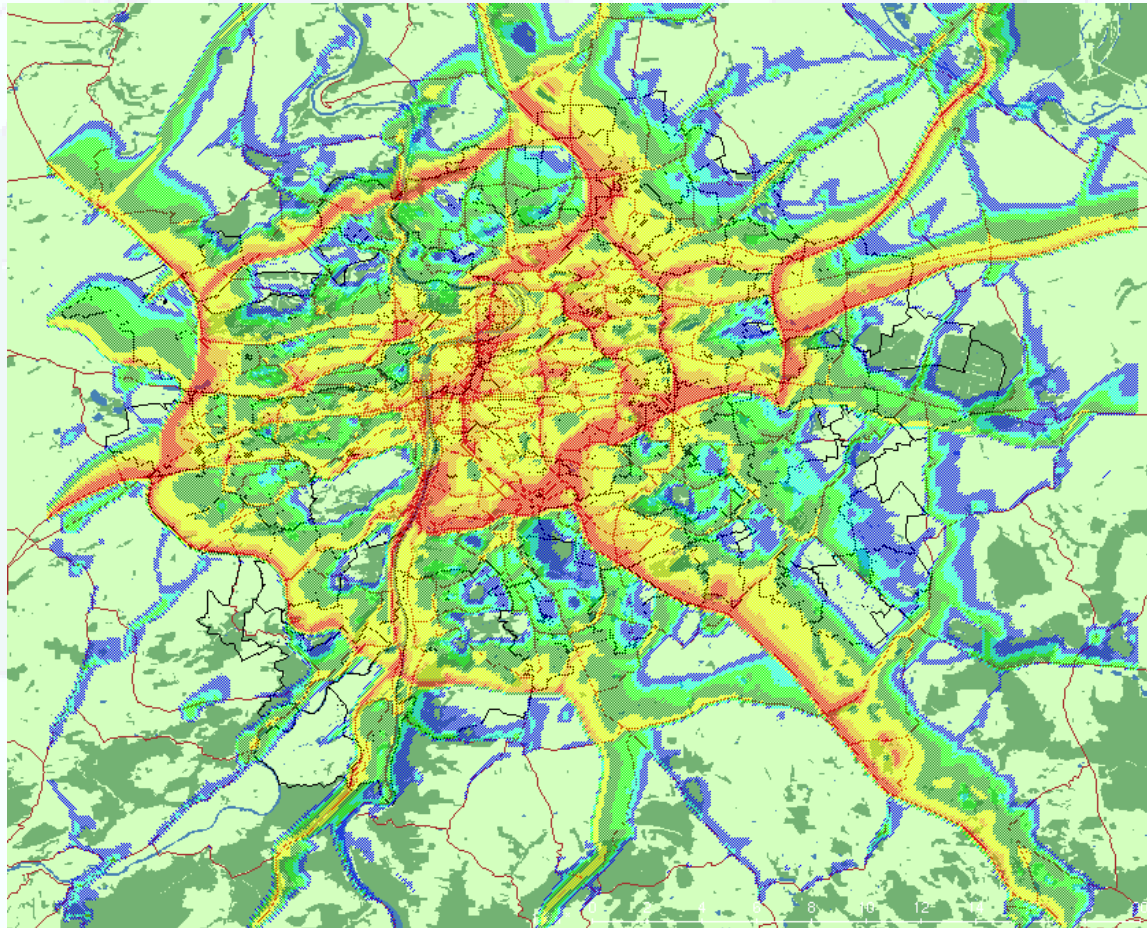
- ❖ 1.988.000 Euro total budget
- ❖ 994.000 Euro funding – 50%
- ❖ 14 Partners in 7 European countries
- ❖ 3 Technical components + management + dissemination
- ❖ Layered partnership: 5 Core Cities, 5 Follower Cities, 1 Transfer region
- ❖ Intention: Establish a User Community comprising a group of cities

Project Cities



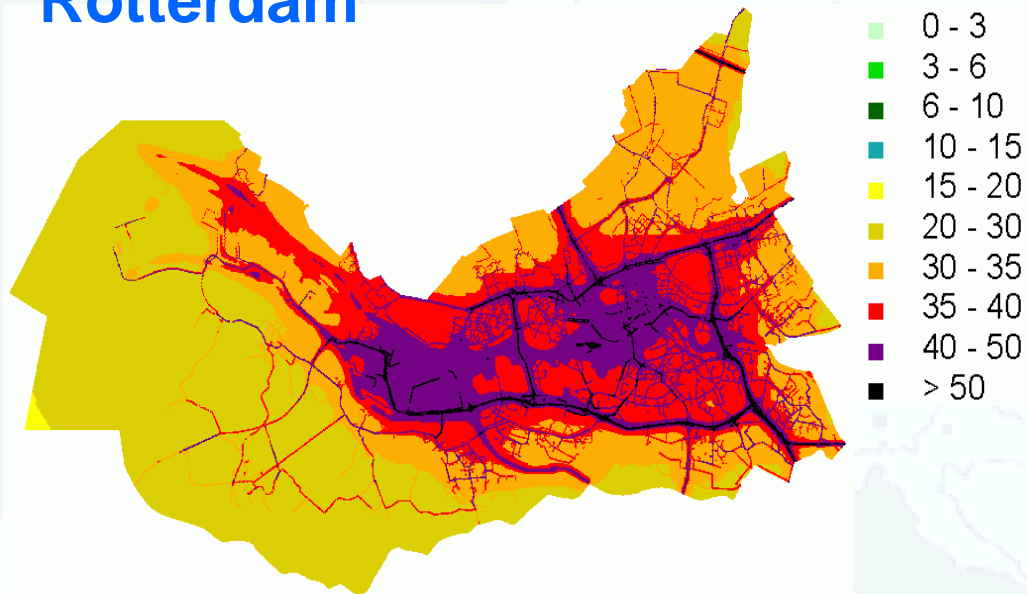
- ❖ Transport major impact on urban centres:
 - Problems with air pollution, noise and traffic congestion
 - Economic and societal costs amount to 8% of GDP of EU
- ❖ EU guidelines on air quality & noise are under implementation
 - Fragmented with no common approach
- ❖ Sustainable harmonised EU-level approach required
 - More efficient implementation of European legislation
 - Integrated interregional initiatives

Prague



Hourly average concentration, peak hour

Rotterdam



NO₂ concentration

- ❖ jointly develop better and more efficient solutions to assess the impact of traffic on air quality in large urban areas
- ❖ informing professional users and the public on the environmental situation in a comparable way
- ❖ giving guidance on efficient measures to abate adverse environmental situations

❖ Guidebook on public information (best practices and examples)

- How to develop a strategy for public information on air quality issues
- Addressing different user groups via various media

❖ Common Operational Website (COW)

- Practical implementation of relevant elements of above guidebook
- Central webpage, fed by European cities
- Static- and dynamic data
- Comparison of AQ data across cities/sites

- ❖ Common Air Quality Index
 - Environmental data comparable across cities
 - Applicable for monitored- and modelled data
 - Hourly- and daily index
- ❖ Guidebook on environmental management and reporting
 - Proposes solutions built on various case studies
 - Provides a template for reporting and describing the city AQ situation
- ❖ Implementation plan for transfer of a decision support system to Emilia Romagna Region
 - Transport- Emission- Air Quality modelling chain

- ❖ Not re-inventing the wheel
 - ❖ Case Studies in a **common format**

- ❖ Show successful strategies in context of:
 - ❖ Air quality problems of city
 - ❖ Transport issues of city
 - ❖ Infrastructure available and required
 - ❖ Costs and Commitment
 - ❖ Public and Political Support

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- ❖ Health information and health recommendations → almost as different as the indices!
 - ❖ Sources of air pollution / emissions, often lacking
 - ❖ The local actions plans, who is responsible for what, etc. is also often lacking
- There is room for improvement

Presentation and Technical Complexity

Indice de la qualité de l'air

3 hier
 3 aujourd'hui
 13:00
 demain

Requête par ville

 Tapez le code postal ou la ville

Procedure d'information et d'alerte

- historique indice
- historique alerte

73 17.01/16 P01 RABD

QUALITA' ARIA

Dati del 10 febbraio: h 1.00 - 24.00

Arenella	Mostezenolo
Praneste	Ciaocittà
Francia	N.D.
Fermi	Tiburtina
M. Grecia	Villa Ada
Libia	Castel di Guido
	Tenista Cavaliere

VALUTAZIONE GLOBALE DELLA CITTÀ

ANDAMENTO SETTIMANALE

GIO	VEN	SAB	DOM	LUN	MAR	MER
buona	buona	buona	buona	buona	buona	buona

601 Comase di Roma 610 Traffico

The pollometer
 Air quality on 25/02/2005

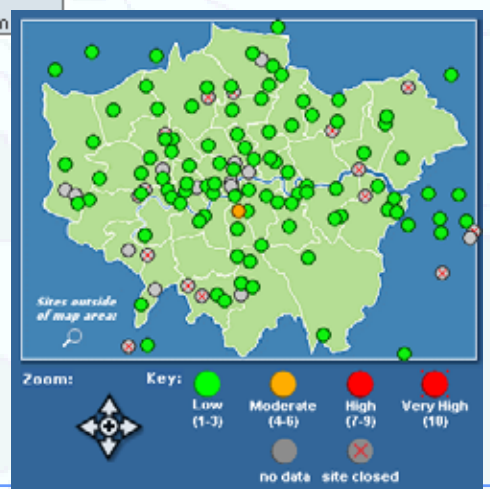
Index

- Dreadful
- Very bad
- Bad
- Very poor
- Poor
- Average
- Rather good
- Good
- Very good
- Excellent

Global ▶ traffic

Milieuproject Heaven Rotterdam
 Een link naar luchtkwaliteit in de regio-Bijlmermeer

Periode	NO2	Benzeen	Fijn Stof
04-05-2004 09:00	44.38	1.02	36.02
04-05-2004 10:00	43.04	0.8	15.36
04-05-2004 11:00	44.06	0.65	24.46
04-05-2004 12:00	43.58	0.7	31.57
04-05-2004 13:00	41.76	0.55	33.84
04-05-2004 14:00	48.28	0.66	27.87
04-05-2004 15:00	39.64	0.62	21.53



❖ Common Operational Website

- ❖ make air quality information available to professionals, the public and decision makers;
- ❖ inform the public on what the cities are doing to limit air pollution;
- ❖ facilitate the comparison of air quality across European cities.

Europe map with the index value.

- ❖ Clicking on the indexes you can see the city index page!

citeair North East South West INTERREG III C

You are in: Home/AQ in participating cities

Home

AQ in participating cities

- Air Quality indexes in Europe: the last updating
- Explanation on the daily index
- Compare the year average concentrations
- Compare hourly concentrations
- See all information for a city
- Leioester
- Paris
- Prague
- Roma
- Rome and the participation to CITEAIR
- Sources of air pollution in Rome
- Traffic, Emission and Pollution
- Index page
- Rotterdam
- Coventry
- Den Haag
- Emilia Romagna
- München
- AQ & health
- Sources of air pollution
- CITEAIR project
- AQ reporting
- Other AQ European Programs
- Links

See today's index as a map of Europe

The general air quality status is described by a so-called air quality index. The air quality index is presented for yesterday, today and a forecast, to be soon available. Not all cities present all information.

There are two indexes, one for the city background and one for the situation along busy roads. The indexes for the day before will be calculated every day 11.00 a.m.

If you click here you can access a table with all the indexes, while from the map below you can access each city with the historical index data

CONTACT US



❖ Background index:

❖ Main pollutants : **NO₂, PM₁₀, O₃**

↳ data mandatory

❖ Additional pollutants: **SO₂, CO**

↳ only if data available



❖ Traffic index:

❖ Main pollutants (mandatory): **NO₂, PM₁₀**

❖ Additional pollutant: **CO**

Index	Class	<i>Main pollutants</i>			<i>Additional pollutants</i>	
		NO ₂	O ₃	PM ₁₀	CO	SO ₂
Very low	0	0	0	0	0	0
	25	50	60	25	5000	50
Low	25	50	60	25	5000	50
	50	100	120	50	7500	100
Medium	50	100	120	50	7500	100
	75	200	180	75	10000	300
High	75	200	180	75	10000	300
	100	400	240	100	20000	500
Very high	> 100	>400	> 240	> 100	> 20000	> 500

- ❖ **NO₂, O₃, SO₂**: max hourly value
- ❖ **PM₁₀**: max hourly value or daily average value or daily maximum
- ❖ **CO** : 8 hours moving average maximal value

Visit our website:

<http://citeair.rec.org>

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The screenshot shows the CITEAIR website interface. At the top left is the 'citeair' logo. At the top right are the 'North East South West INTERREG III C' logo and the European Union flag. A navigation menu on the left lists: Introduction, Products, Project Structure, Partner Cities, Project Partners, Related Links, Downloads, Events, Members Area [Login], and Contact CITEAIR. The main content area is titled 'What is CITEAIR?' and contains the following text: 'Common Information to European Air (CITEAIR) is a project co-funded by the European Union's INTERREG III C Programme. The project started in March 2004 and will last for 36 months.' It then discusses environmental problems related to poor air quality and lists core cities: Leicester (UK), Paris (FR), Prague (CZ), Rotterdam (NL), and Rome (I). It also lists follower cities: Munich (DE), Coventry (UK), The Hague (NL), Bratislava (SK), and Brussels (BE). A 'Transfer Region' section lists Emilia-Romagna Region (I). A bulleted list of project goals includes: 'Establishing Best Practice' of Air Quality and Traffic Management through Case Study Reviews of existing procedures; Publishing Guidebooks on Environmental Management and Air Quality Reporting; Informing decision makers, professionals and the public on the environmental situation using tools such as a Common Operational Website; and Establishing a protocol for the transfer of 'Best Practice' to other areas of Europe. The footer of the screenshot contains the text: 'Ultimately the project will provide a framework for Local and Regional Authorities across Europe to develop consistent reporting and progressive management strategies to improve their environmental situation.' and '2004 Copyright note and legal information'.