



## DCMR Milieudienst Rijnmond



Sharing data to make interesting AQ services

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# SHARING AND COMPARING

→ Sharing cross border information to inform the public / put pressure on authorities



→ Sharing and comparing: useful and fun!



**AIR QUALITY IN EUROPE**

► HOME    ► COMPARING CITIES

Select index to display

## Compare the current air quality in different European cities

Explore the website:

- To see the air quality in different cities for a recent hour, for yesterday and for the past year in various cities
- Learn more about air pollution
- For local air quality authorities : join your city to this web site

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Legend :

Pollution	Index Value
Very Low	0 / 25
Low	25 / 50
Medium	50 / 75
High	75 / 100
Very High	> 100

## Current situation

The table below describes the current state of air quality in European cities:

- The general background air quality in the city. This is the outdoor air quality experienced by the average citizen.
- The roadside air quality. Generally the poorest air quality is found in busy streets. Citizens living, working and visiting these streets are all affected. This includes people in cars and busses.

Detailed information on the cities is available by clicking on their name.

Last Update: 10/14/2011 11:00 UTC

CITIES NAME	ROADSIDE INDEX		BACKGROUND INDEX	
	Yesterday	Now	Yesterday	Now
<b>Andorra</b>				
Andorra	-	-	> 100	44
<b>Austria</b>				
Graz	43	31	28	18
Innsbruck	34	15	31	21
Linz	46	20	25	7
Salzburg	39	33	26	27
<b>Belgium</b>				
Brussels	46	39	40	40
<b>Czech Republic</b>				
Brno	34	14	28	25
<b>Netherlands</b>				
Amsterdam	76	59	45	31
Rotterdam	48	43	42	37
<b>Norway</b>				
Oslo	60	-	66	38
<b>Poland</b>				
Gdansk	-	-	22	11
Gdynia	-	-	> 100	38
Sopot	-	-	22	16
Tczew	-	-	23	11
<b>Slovenia</b>				
Maribor	87	24	34	28
<b>Spain</b>				
Almeria	39	28	30	25
Bahia Algeciras	49	24	85	61
Cadiz	62	43	52	26
Cordoba	-	-	68	54
Granada	58	44	97	57
Huelva	90	58	58	36
Jaen	-	-	63	48
Jerez	-	-	60	53
Madrid	> 100	-	> 100	-
Malaga	-	-	> 100	67
Sevilla	85	77	90	74

# Sharing and comparing: useful and fun

[www.airqualitynow.eu](http://www.airqualitynow.eu)

- Bottom up initiative 5 cities: making AQ comparable across Europe. CITEAIR project 2004
- 2012 > 100 cities joined voluntarily
- Show your citizens that you are not the only city with AQ issues; get inspired by what other cities are doing
- Ultimately provide a service for those who actually need AQ information.
- Co-funded by INTERREG IIIc and IVc

- Homogeneous **European wide Air Quality** service
- Easy to understand information presented using the **CAQI** index
- **Compare** your own city/situation to others in Europe



Back **Details** ★

Station: Amsterdam Time: 2013-06-18 15:00:00Z

Current observation

Background   Roadside 

52 63

Forecast:


Today's evening:  48

Tomorrow: 49

Day after tomorrow:

obsAIRve  ★  

Welcome Map Bookmark Knowledge Base About

Map   

Forecast Observations Feedback





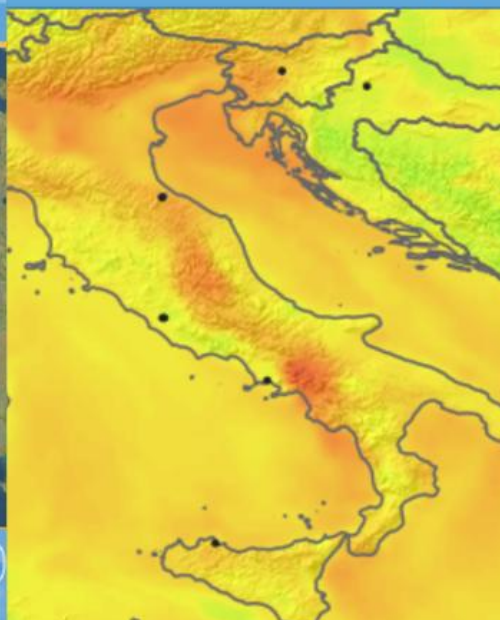
CAQI O3 PM10 NO2

Low High

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Map  



18:00

06/17/2013 Today 06/19/2013 06/20/2013

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# Sharing and comparing: useful and fun

[www.obsairve.eu](http://www.obsairve.eu)

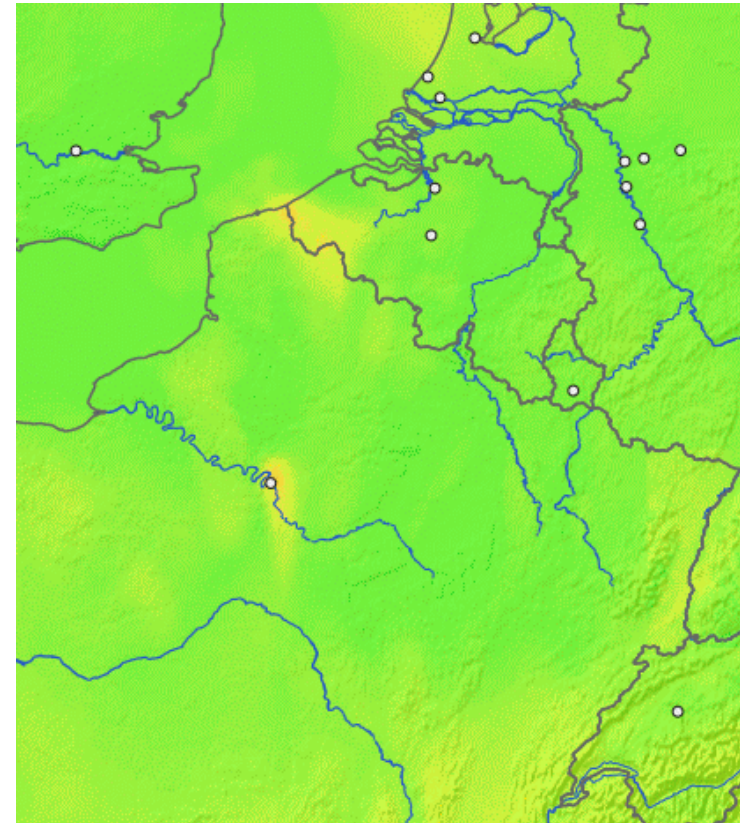
- GMES: EU modelling infrastructure
- EEA: real-time data from member states
- CITEAIR: city data
  
- Better coverage of Europe by large scale modelling
- Forecasting

GMES project, funded by DG Enterprise

# Challenges

## Business model? Difficult

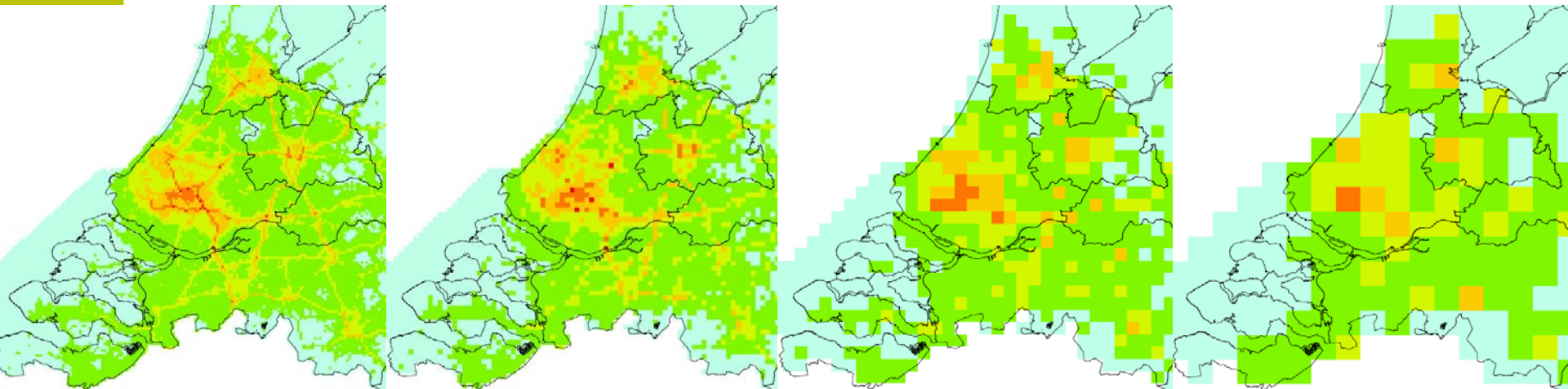
- AQ is only an acute problem for a small part of the population (fortunately!)
- Formal data streams and models (for the science community) not directly suitable for interesting products for the public.





# Modeled maps and zooming

→ CTM-s make cities and motorways disappear (you might see Paris, but many people live in towns of 100,000 to 1,000,000).



1x1km

2x2km

5x5km

10x10km

# Challenges

- Translating scientific information for public consumption might need scientific compromises (**but** the output has to be correct)
- People have to be able to believe what they see: make sure you are & stay credible
- Real-time is cool but perhaps other information is more/as useful? Where to buy a house, which school for you children, .....? Year average info needed as well.

# Business opportunities?

- Make a complete service for local authorities (e.g. very few can do the forecasting themselves)?
- Use advertising? (local) governments might not like this
- Associate those who actually need the info

# Conclusions/Future

Computing power / exchange of data: rapid developments: nice possibilities ahead

→ Opportunities: private/public sector

→ Obligations: public sector

→ Do it: to provide useful and interesting services

→ If you don't do it: someone else will do it for you



[WWW.AIRQUALITYNOW.EU](http://WWW.AIRQUALITYNOW.EU)

[WWW.OBSAIRVE.EU](http://WWW.OBSAIRVE.EU)

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