A.J. Leekstra & G.J.C. Stolwijk

Pollutant Emission Register in the Netherlands

1. PER in the Netherlands
2. Overall process
3. Workflow and data-processing
4. Public website (demonstration)

Introduction

Netherlands Environmental Assessment Agency

- Evaluating policy
- NIR, Environmental Balance, Environmental data compendium
- Emission Registration (PER)

Netherlands Environmental Assessment Agency

Data in the PER

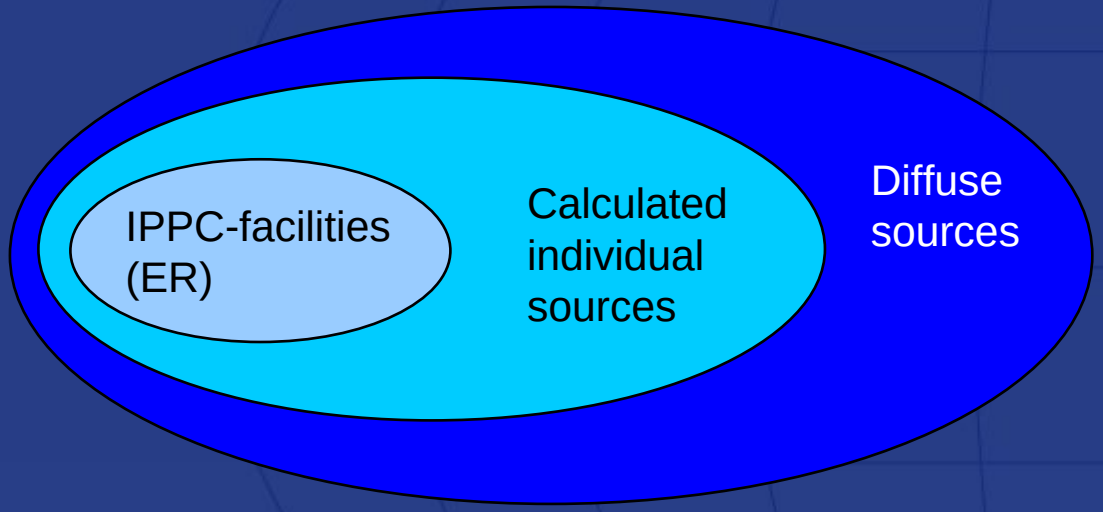
Emissions of 800 point sources (IPPC facilities, Emission reports (ER's))

1200 source categories with national totals and activity levels

Divided into 55 work packages (14 emission experts)

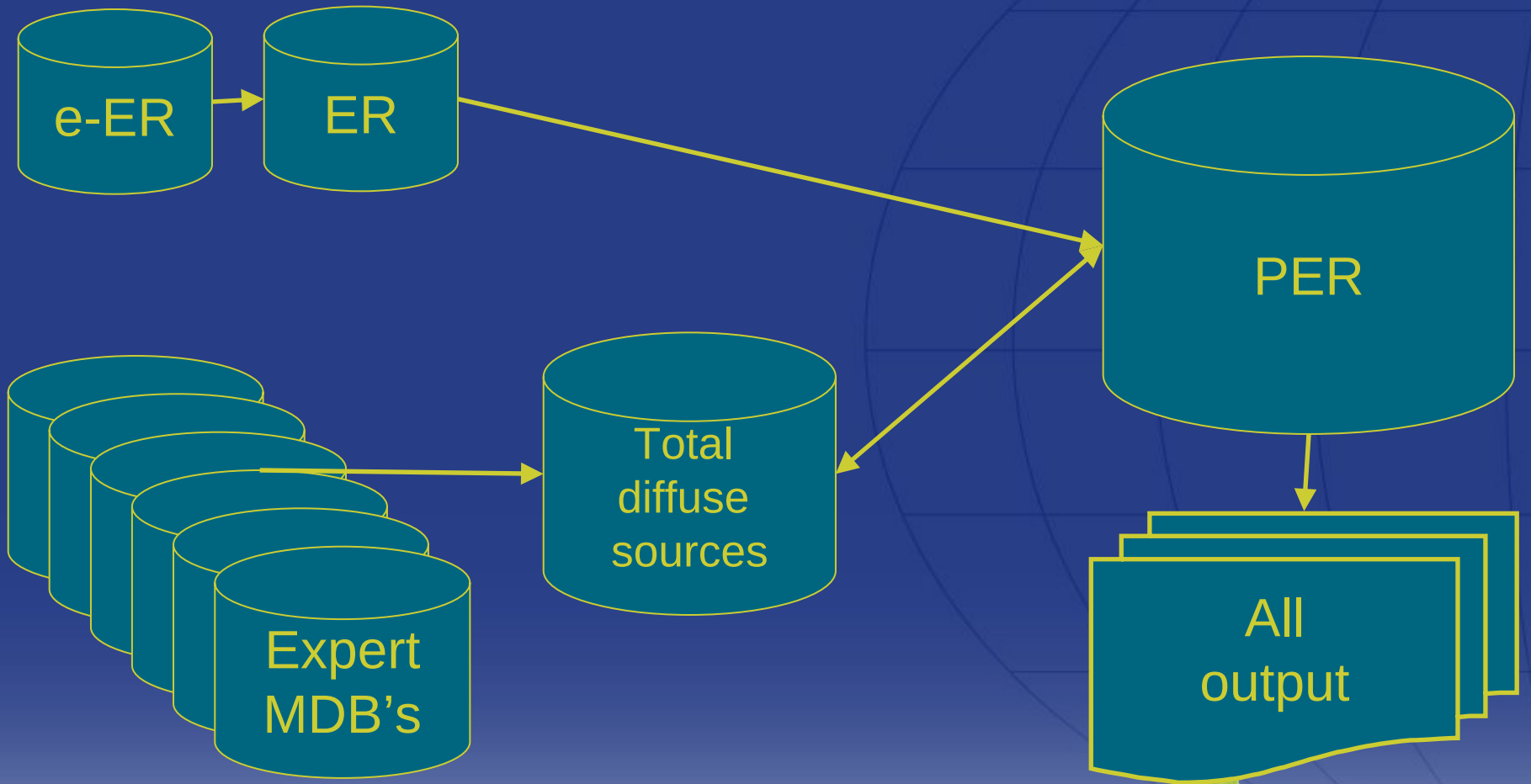
5 Task Forces:

- Energy sector, industry, waste
- Agriculture
- Transport
- Water
- Consumers



Netherlands Environmental Assessment Agency

Dataflow



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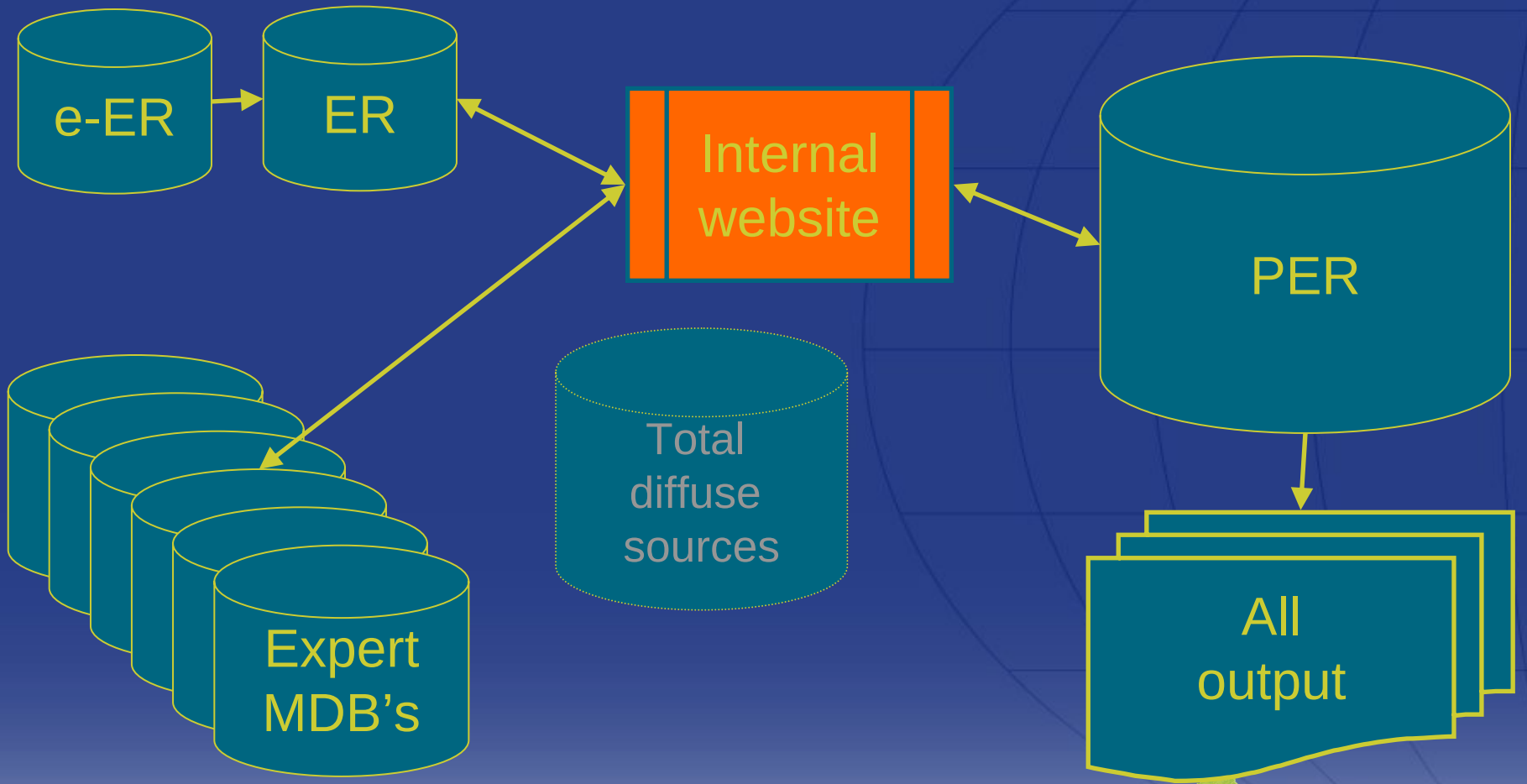

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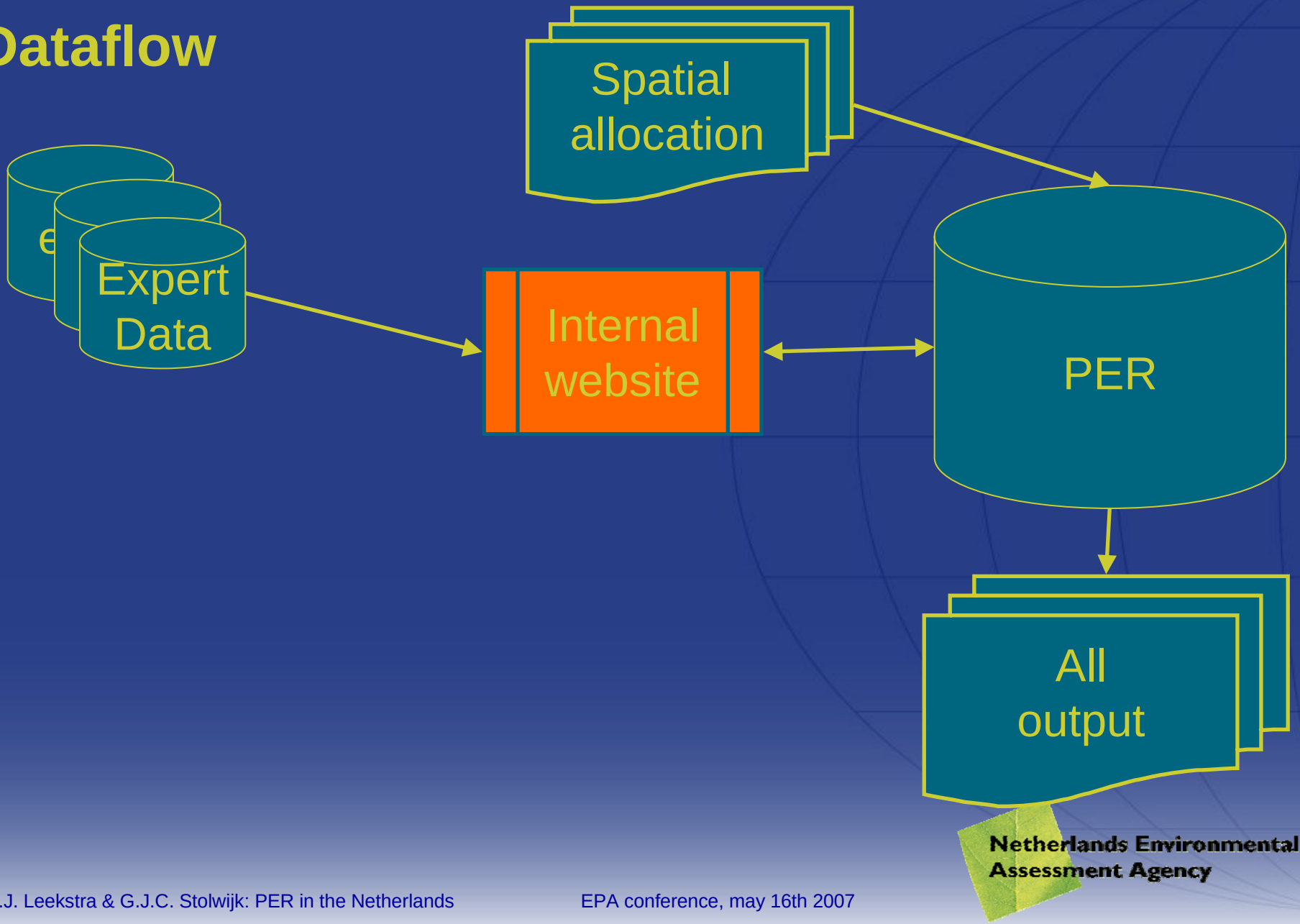


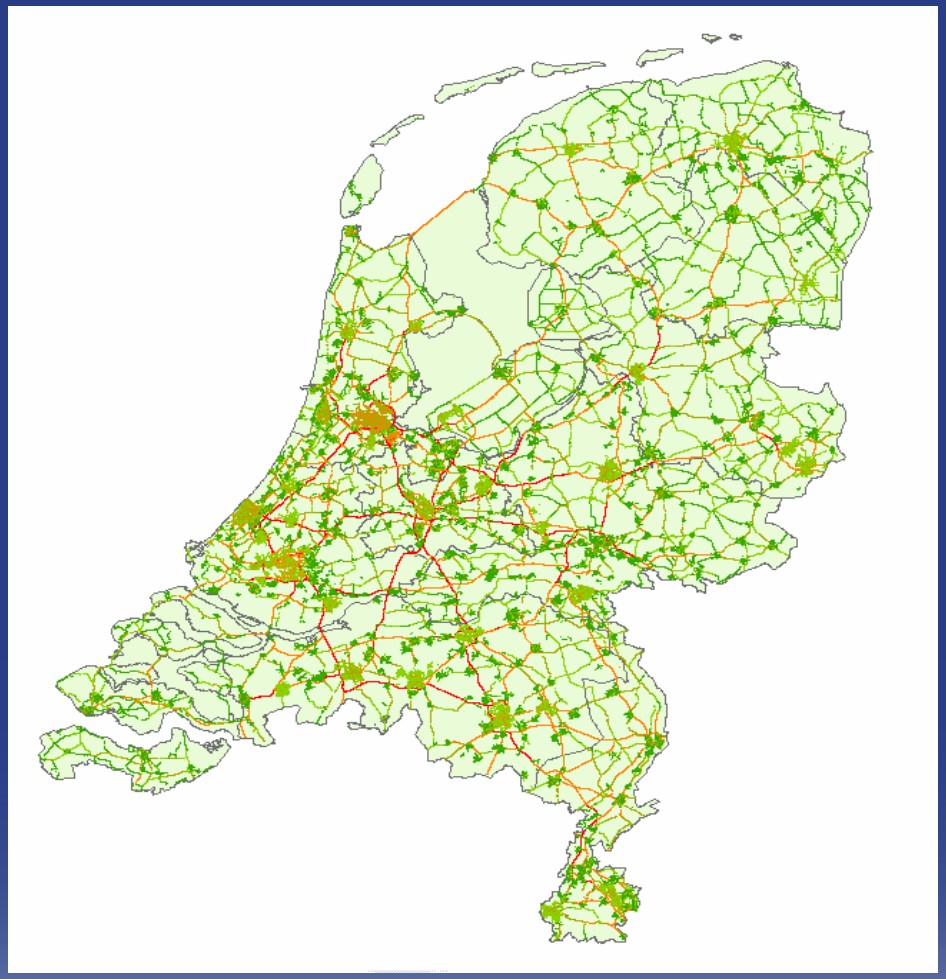
Netherlands Environmental Assessment Agency

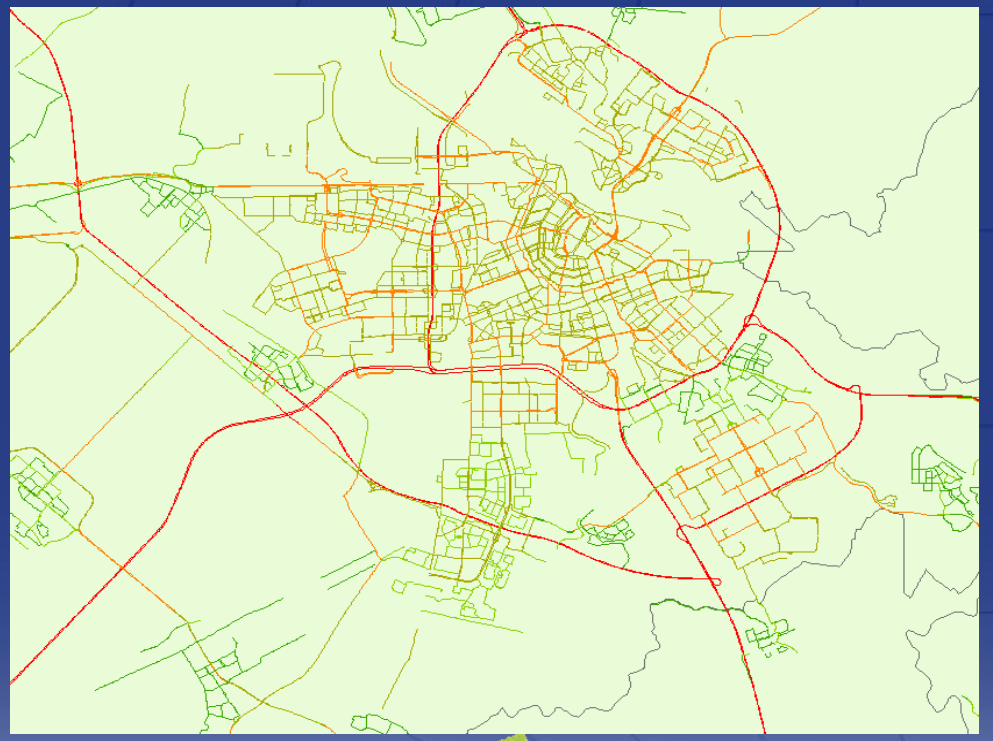
Spatial allocation

- Geographical location (i.e. Road database, Land use map, facility locations)
- Activity level (i.e. Traffic intensity, Grassland used for cattle, amount of fuel used)

Netherlands Environmental Assessment Agency

National Road Database 2005





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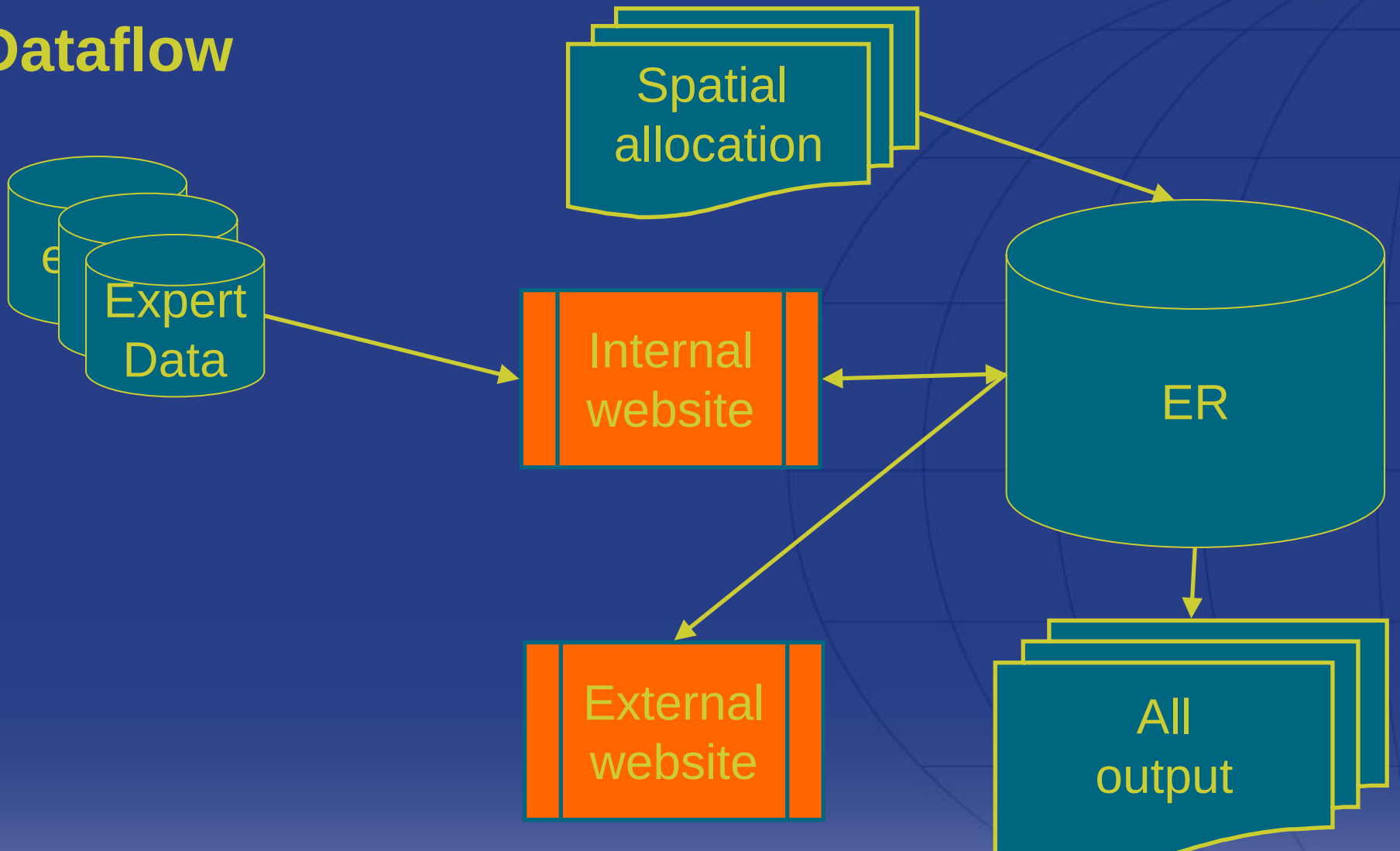

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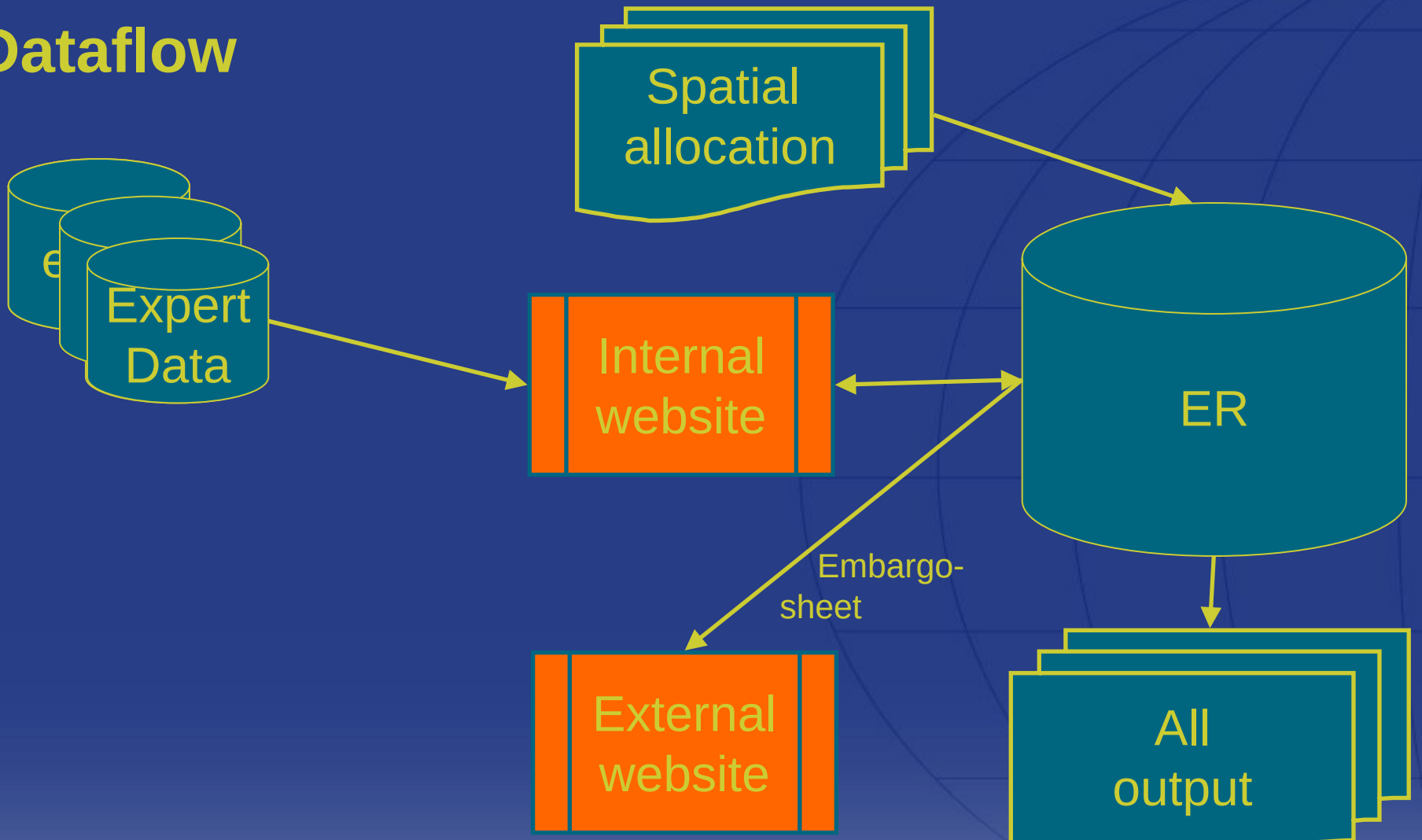

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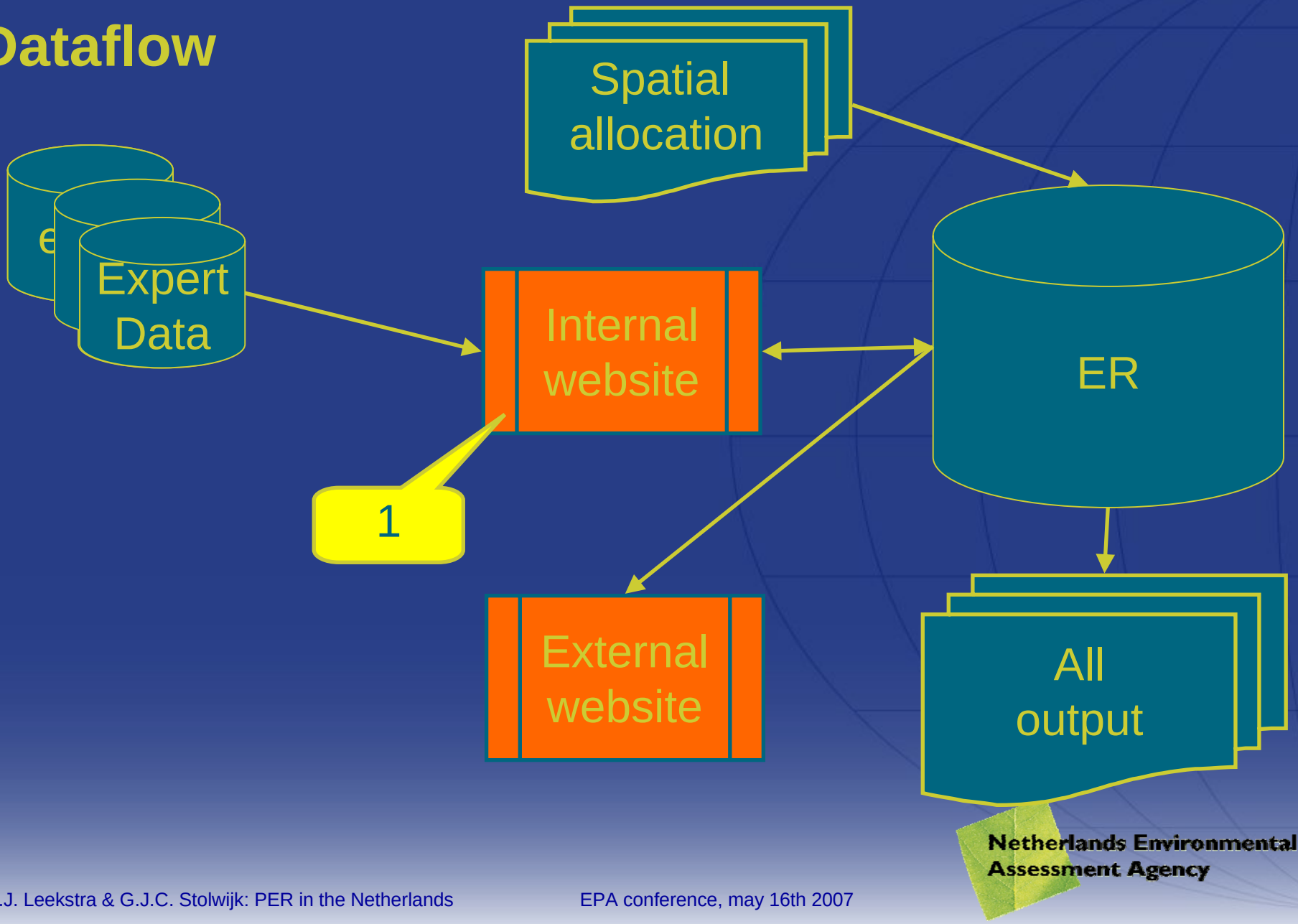


Netherlands Environmental Assessment Agency

1

Internal website

- Only accessible by PER-partners
- Down- en Uploads by the Emission Experts
  - Only the expert can upload it's work package
  - Automated checks
  - Automated logging of all uploads

Netherlands Environmental Assessment Agency

1

Emission Explorer

- To compare datasets in graphics or tables
- To check on completeness
- To analyze trends
  - Hierarchical on all source levels
  - In emissions
  - In activity data
- To export data

Netherlands Environmental Assessment Agency

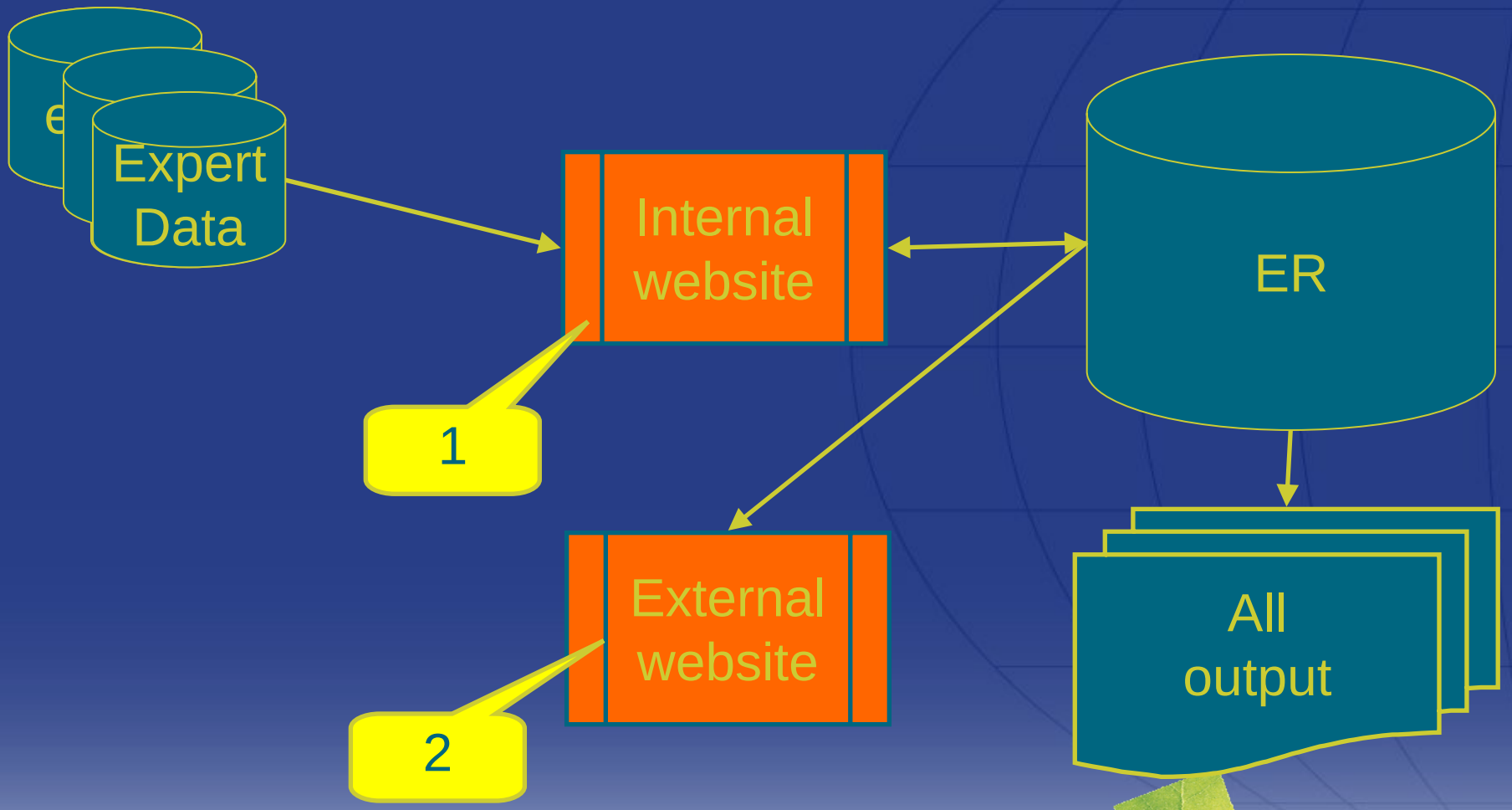
1

Emission Calculations

- Create specific spatial allocated reports
  - General public
  - Journalists
  - External emission experts
- Create output for our annual reports

Netherlands Environmental Assessment Agency

Dataflow



Netherlands Environmental Assessment Agency

2

Public website

To inform the public about emission sources in their neighborhood (and, by doing that, increasing the involvement of the public in the validation of emission data)

- Bilingual (English and Dutch)
- Integrated system of point sources and diffuse sources
- Integrated compartments (air, soil, water indirect and direct)
- Maps per emission source, 5*5 km grid, per community, water catchment area etc.
- Emission Explorer, no activity data
- Methodologies used
- Detailed exports

Netherlands Environmental Assessment Agency

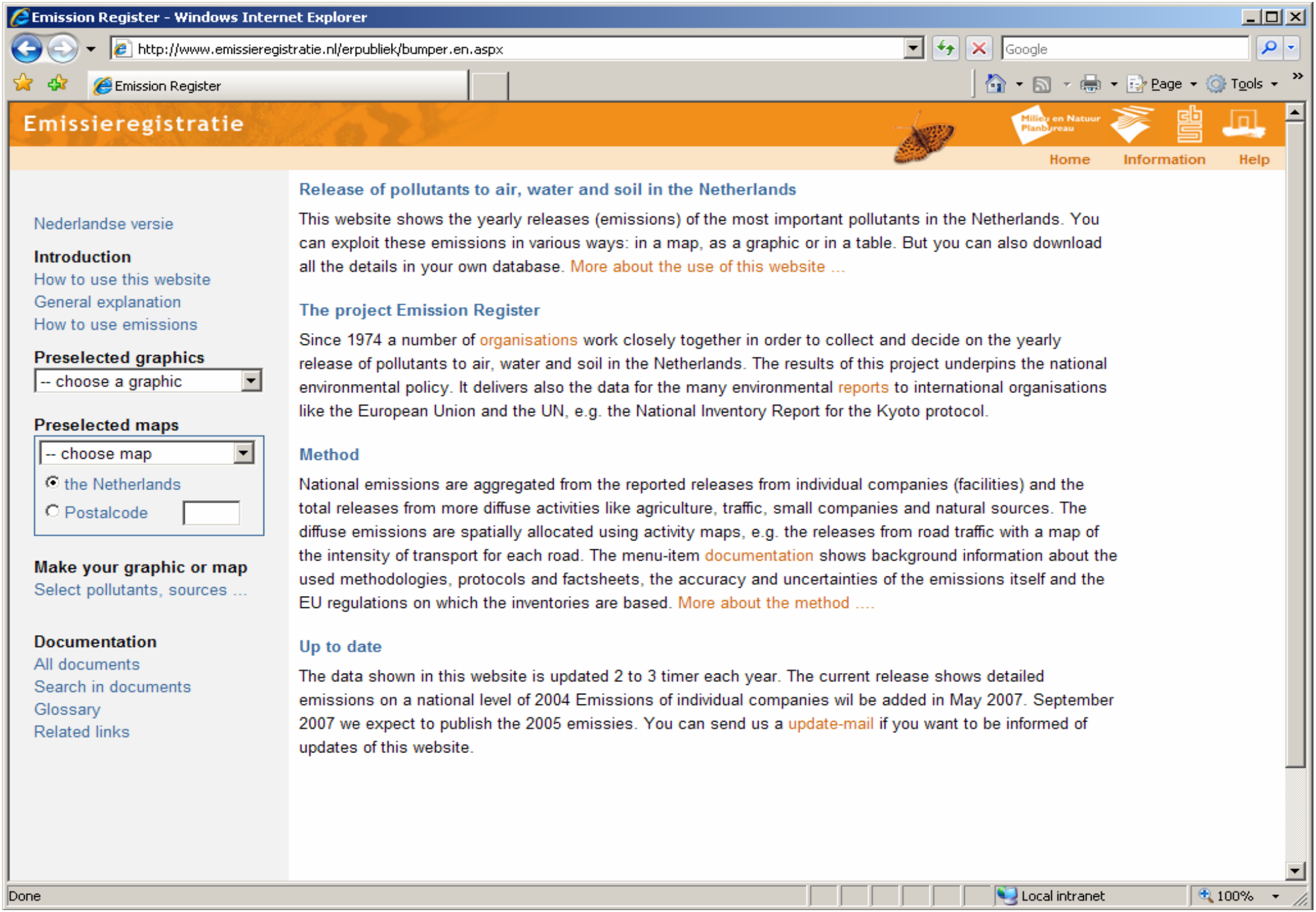
2

Public website

- Demonstration

www.emissieregistratie.nl

Netherlands Environmental Assessment Agency


Emission Register - Windows Internet Explorer
http://www.emissieregistratie.nl/erpubliek/bumper.en.aspx
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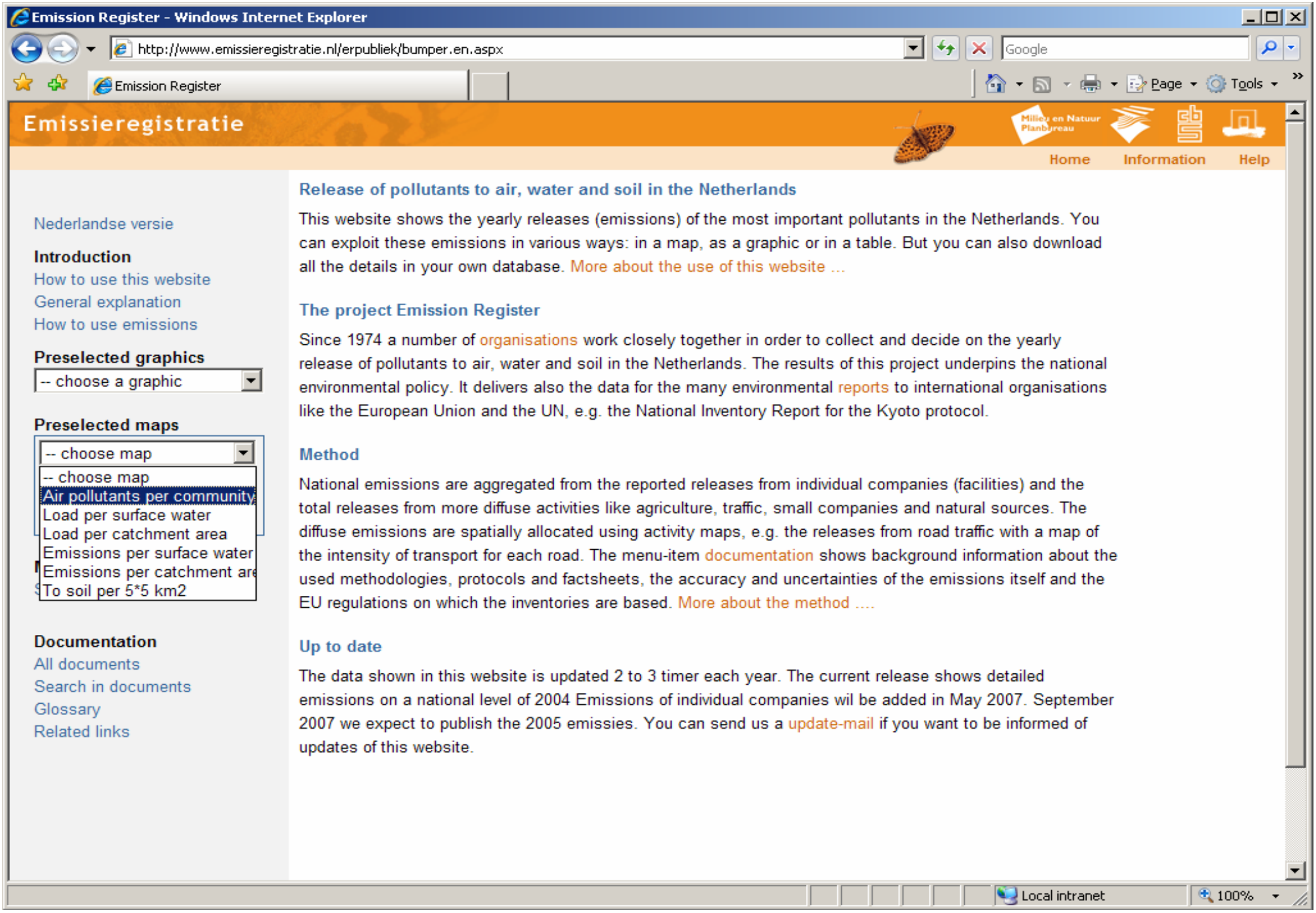
-- choose map
the Netherlands
Postalcode
Make your graphic or map
Select pollutants, sources ...
Documentation
All documents
Search in documents
Glossary
Related links
Release of pollutants to air, water and soil in the Netherlands
This website shows the yearly releases (emissions) of the most important pollutants in the Netherlands. You can exploit these emissions in various ways: in a map, as a graphic or in a table. But you can also download all the details in your own database. More about the use of this website ...
The project Emission Register
Since 1974 a number of organisations work closely together in order to collect and decide on the yearly release of pollutants to air, water and soil in the Netherlands. The results of this project underpins the national environmental policy. It delivers also the data for the many environmental reports to international organisations like the European Union and the UN, e.g. the National Inventory Report for the Kyoto protocol.
Method
National emissions are aggregated from the reported releases from individual companies (facilities) and the total releases from more diffuse activities like agriculture, traffic, small companies and natural sources. The diffuse emissions are spatially allocated using activity maps, e.g. the releases from road traffic with a map of the intensity of transport for each road. The menu-item documentation shows background information about the used methodologies, protocols and factsheets, the accuracy and uncertainties of the emissions itself and the EU regulations on which the inventories are based. More about the method ....
Up to date
The data shown in this website is updated 2 to 3 timer each year. The current release shows detailed emissions on a national level of 2004 Emissions of individual companies wil be added in May 2007. September 2007 we expect to publish the 2005 emissies. You can send us a update-mail if you want to be informed of updates of this website.
Done
Local intranet
100%


Emission Register - Windows Internet Explorer
http://www.emissieregistratie.nl/erpubliek/bumper.en.aspx
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-- choose a graphic
Preselected maps
-- choose map
-- choose map
Air pollutants per community
Load per surface water
Load per catchment area
Emissions per surface water
Emissions per catchment are
To soil per 5*5 km2
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Local intranet
100%

Presentation - Map - Windows Internet Explorer

Emissieregistratie

Home Information Help

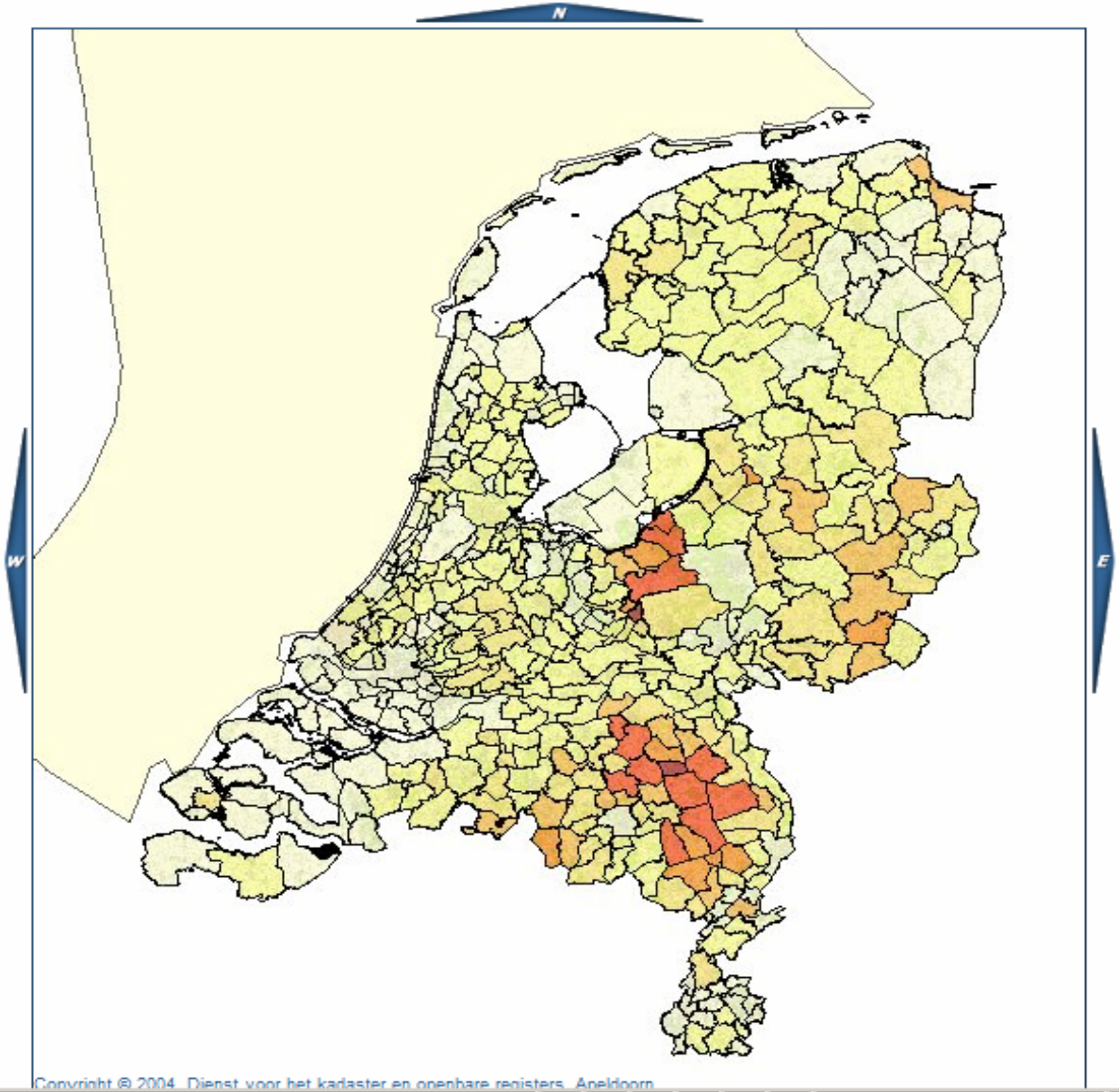
selection | presentation | export | settings

graph | map

Community
2004
Ammonia
Air
Total
Topgraphic map as backgroundlay
Classification: equal interval
Emissions per km2 ☑
Facilities: ☐
Refresh Map

Postalcode (4 positions)
Community
Search

Community (kg/km2)
0 - 2300 (157)
2300 - 4600 (202)
4600 - 6900 (65)
6900 - 9200 (20)
9200 - 11500 (10)
11500 - 13800 (12)
13800 - 16100 (0)
16100 - 17700 (2)



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Emissieregistratie

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graph | map

Community
2004
Ammonia
Ammonia
Dinitrogen oxide
Fine dust (PM10)
Carbon dioxide
Methane
Non-methane VOS
Oxides ofnitrogen (as NO2)
Oxides of sulphur (as SO2)

Facilities:

Refresh Map

Postalcode (4 positions)
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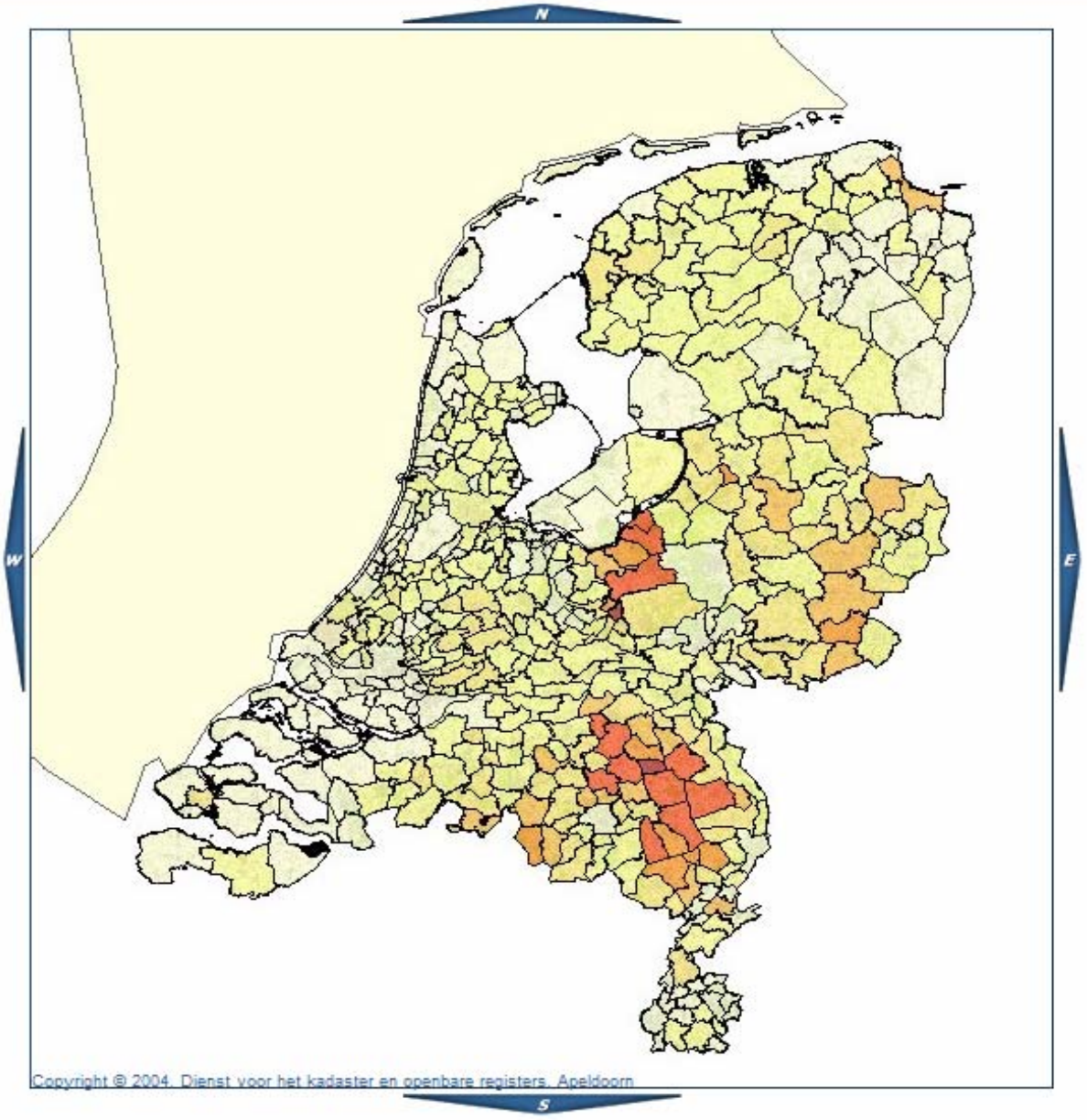

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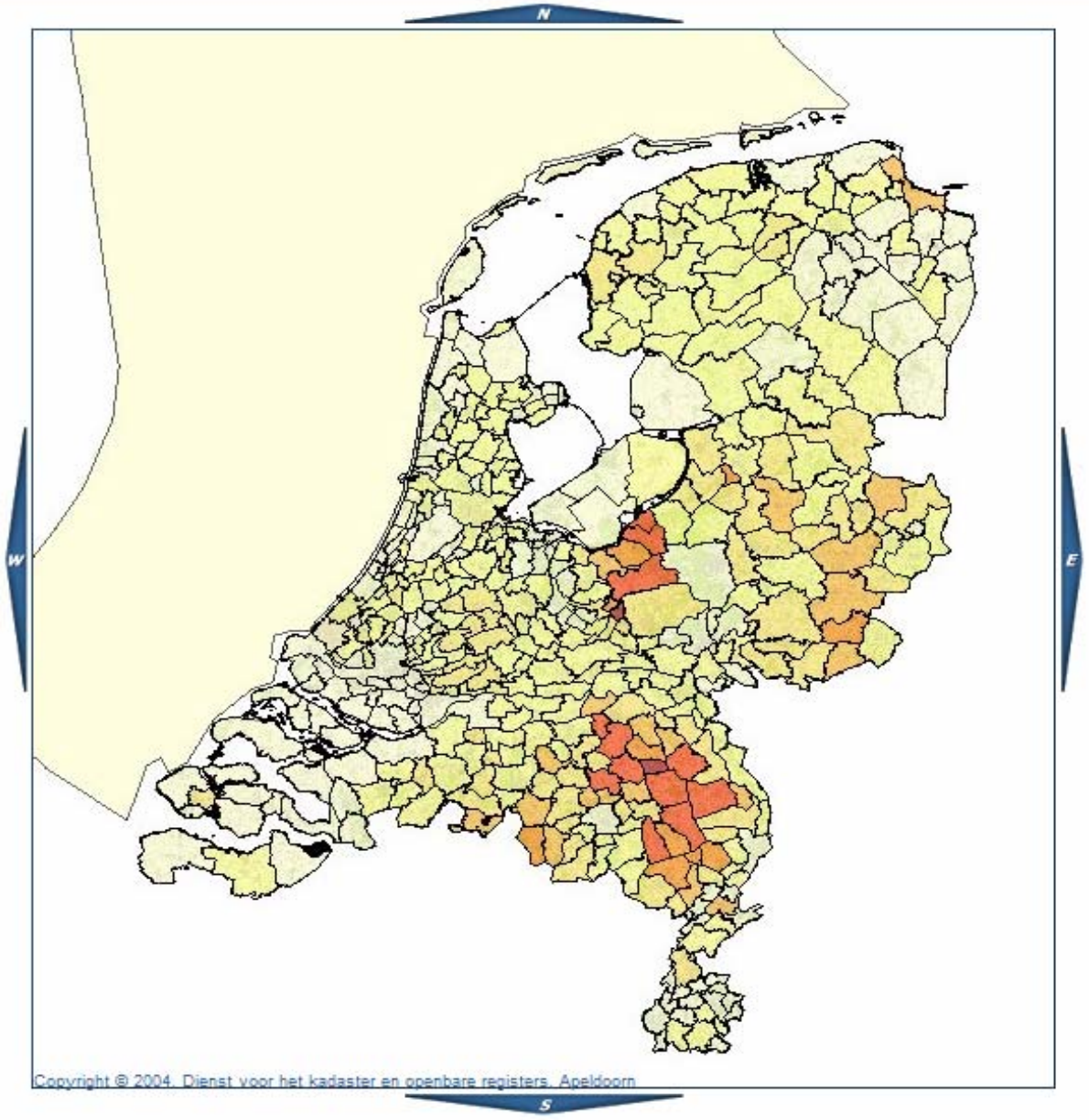

Emissieregistratie

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○ Postalcode (4 positions)
○ Community

Search

Community (kg/km2)

- 0 - 41000 (440)
- 41000 - 82000 (18)
- 82000 - 123000 (3)
- 123000 - 164000 (2)
- 164000 - 205000 (1)
- 205000 - 246000 (1)
- 246000 - 287000 (1)
- 287000 - 328000 (2)

Emissieregistratie

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rotterdam Search

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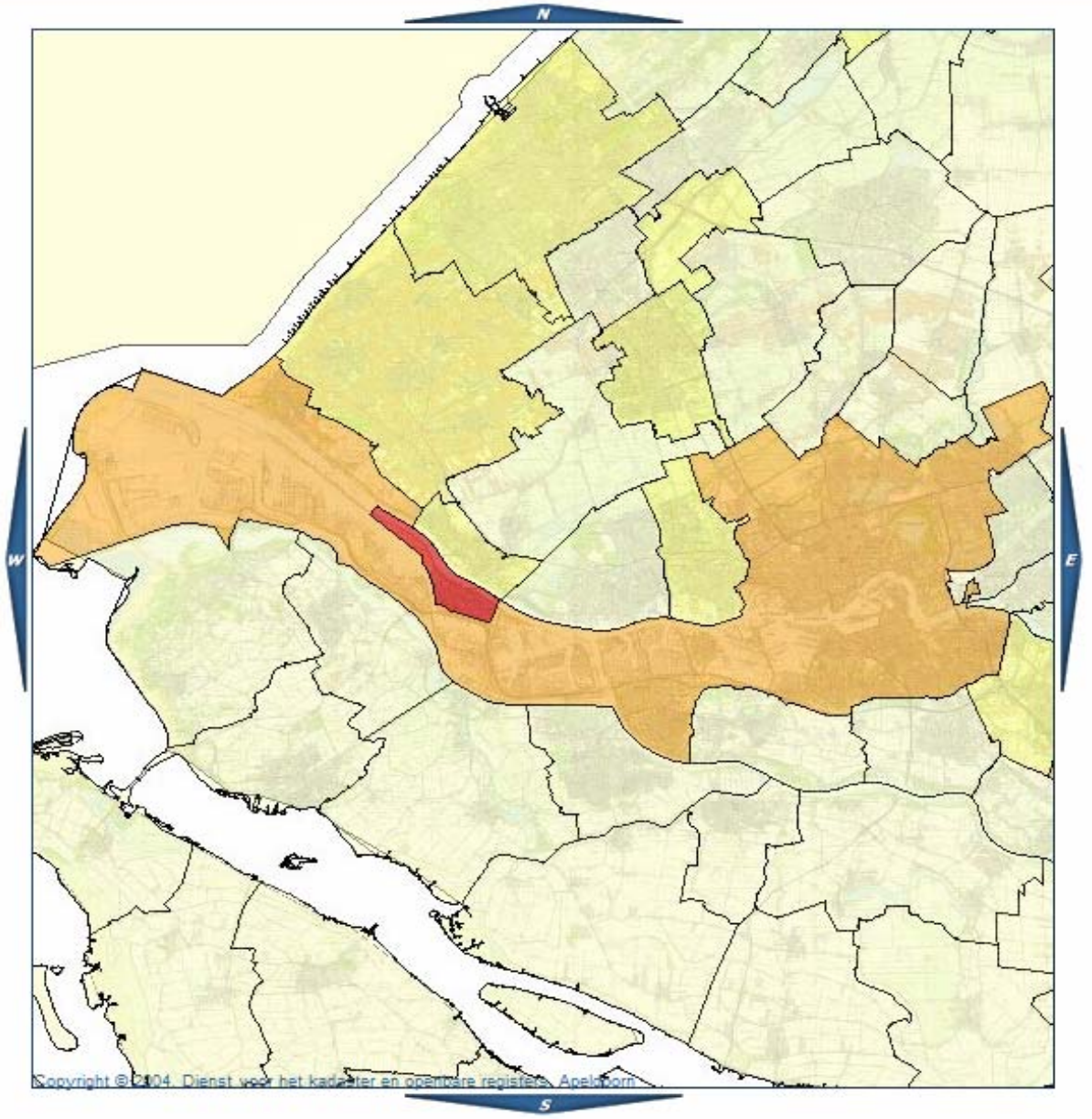

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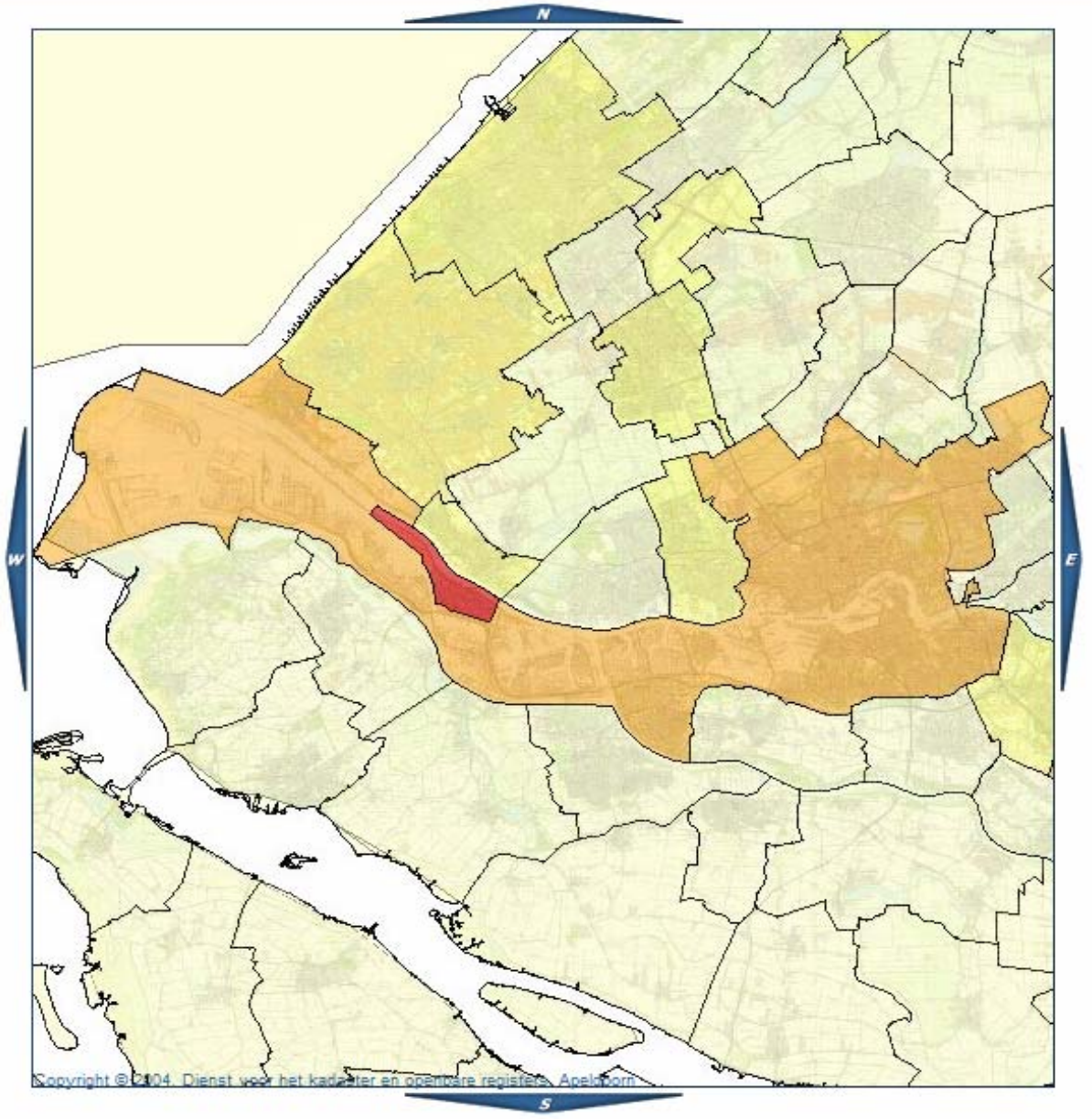

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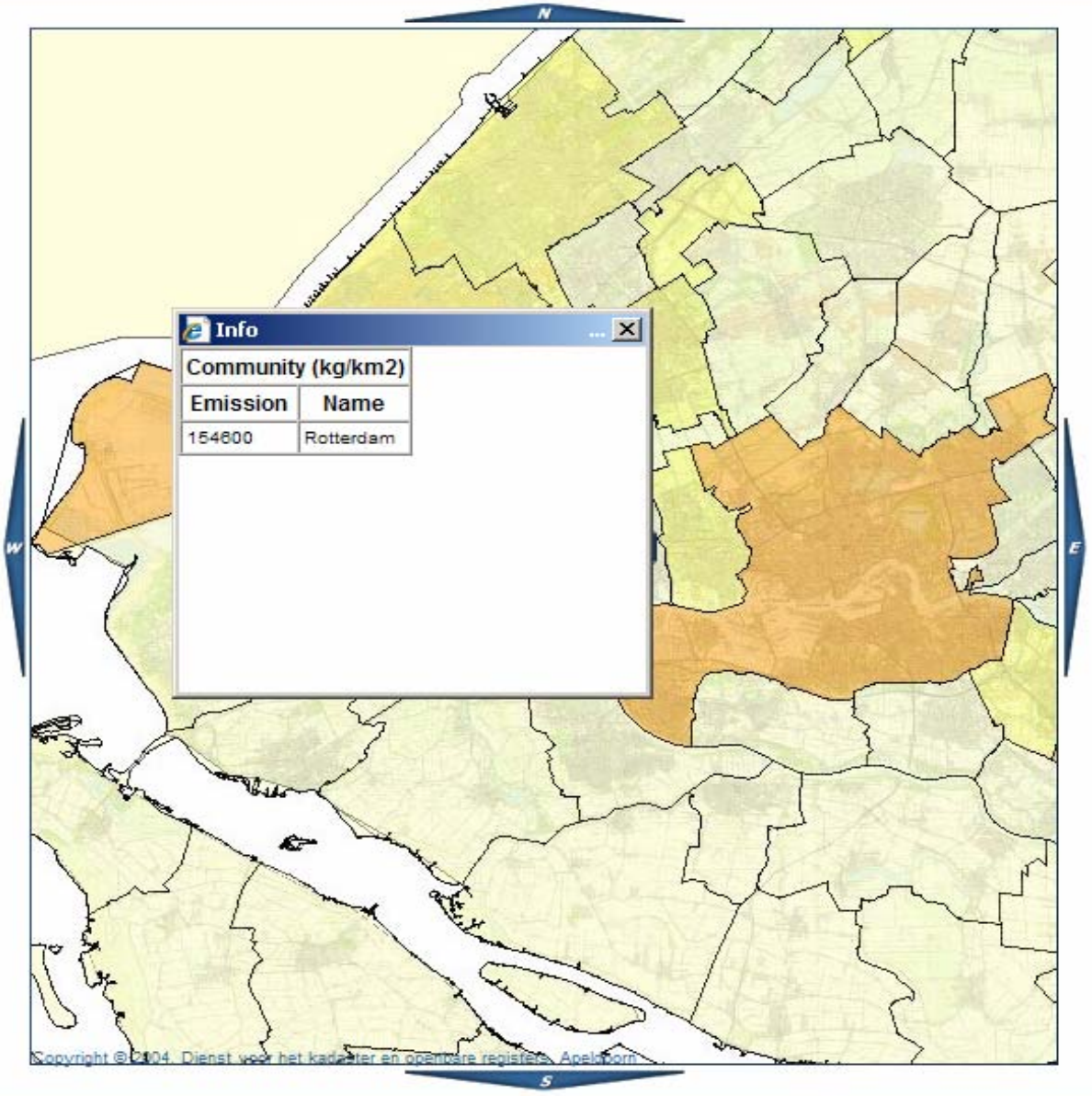

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Nederlandse versie

Introduction
How to use this website
General explanation
How to use emissions

Preselected graphics
-- choose a graphic

Preselected maps
-- choose map
the Netherlands
Postalcode

Make your graphic or map
Select pollutants, sources ...

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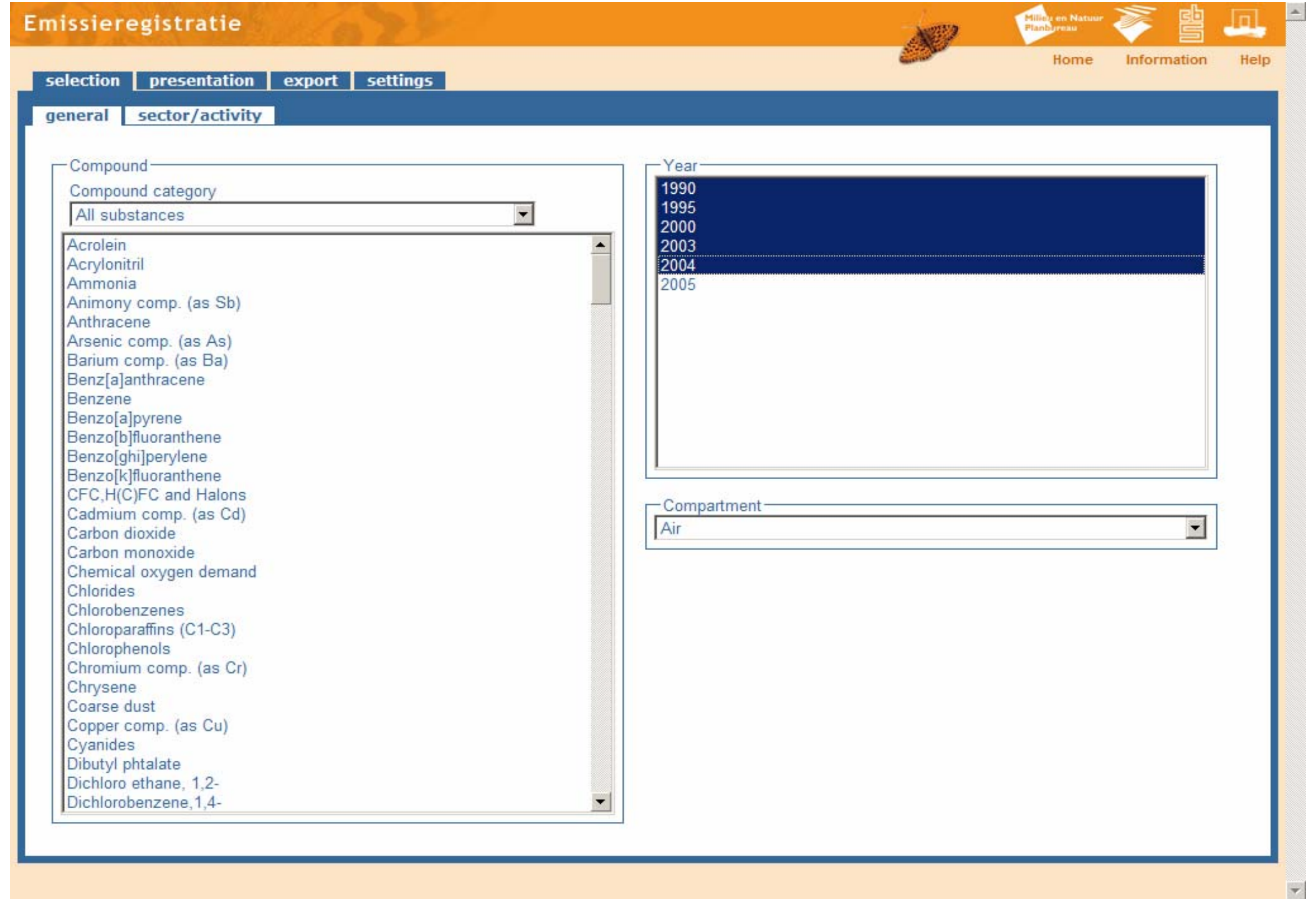
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All substances
Acrolein
Acrylonitril
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Anthracene
Arsenic comp. (as As)
Barium comp. (as Ba)
Benz[a]anthracene
Benzene
Benzo[a]pyrene
Benzo[b]fluoranthene
Benzo[ghi]perylene
Benzo[k]fluoranthene
CFC,H(C)FC and Halons
Cadmium comp. (as Cd)
Carbon dioxide
Carbon monoxide
Chemical oxygen demand
Chlorides
Chlorobenzenes
Chloroparaffins (C1-C3)
Chlorophenols
Chromium comp. (as Cr)
Chrysene
Coarse dust
Copper comp. (as Cu)
Cyanides
Dibutyl phtalate
Dichloro ethane, 1,2-
Dichlorobenzene,1,4-
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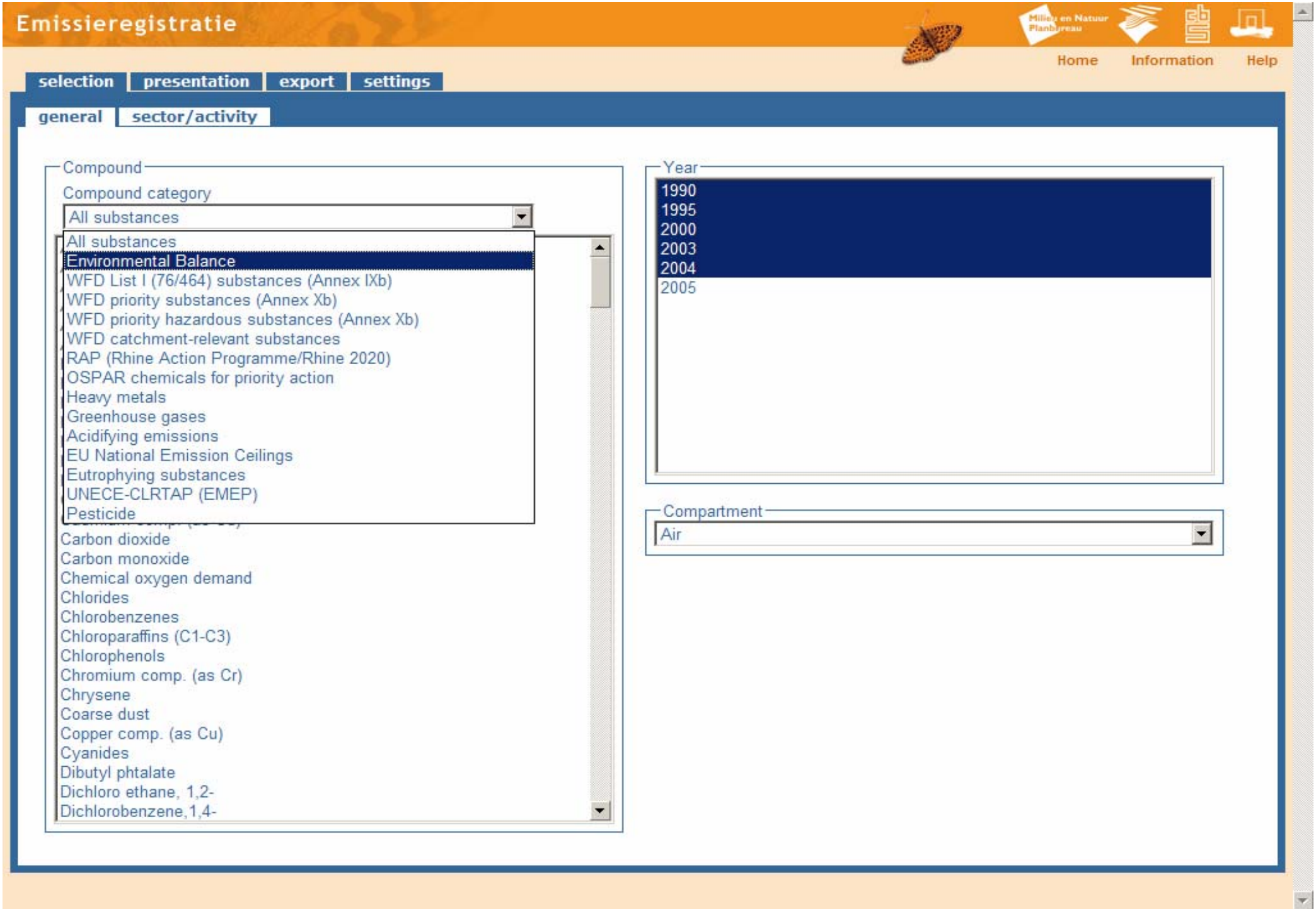
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Environmental Balance
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WFD priority substances (Annex Xb)
WFD priority hazardous substances (Annex Xb)
WFD catchment-relevant substances
RAP (Rhine Action Programme/Rhine 2020)
OSPAR chemicals for priority action
Heavy metals
Greenhouse gases
Acidifying emissions
EU National Emission Ceilings
Eutrophying substances
UNECE-CLRTAP (EMEP)
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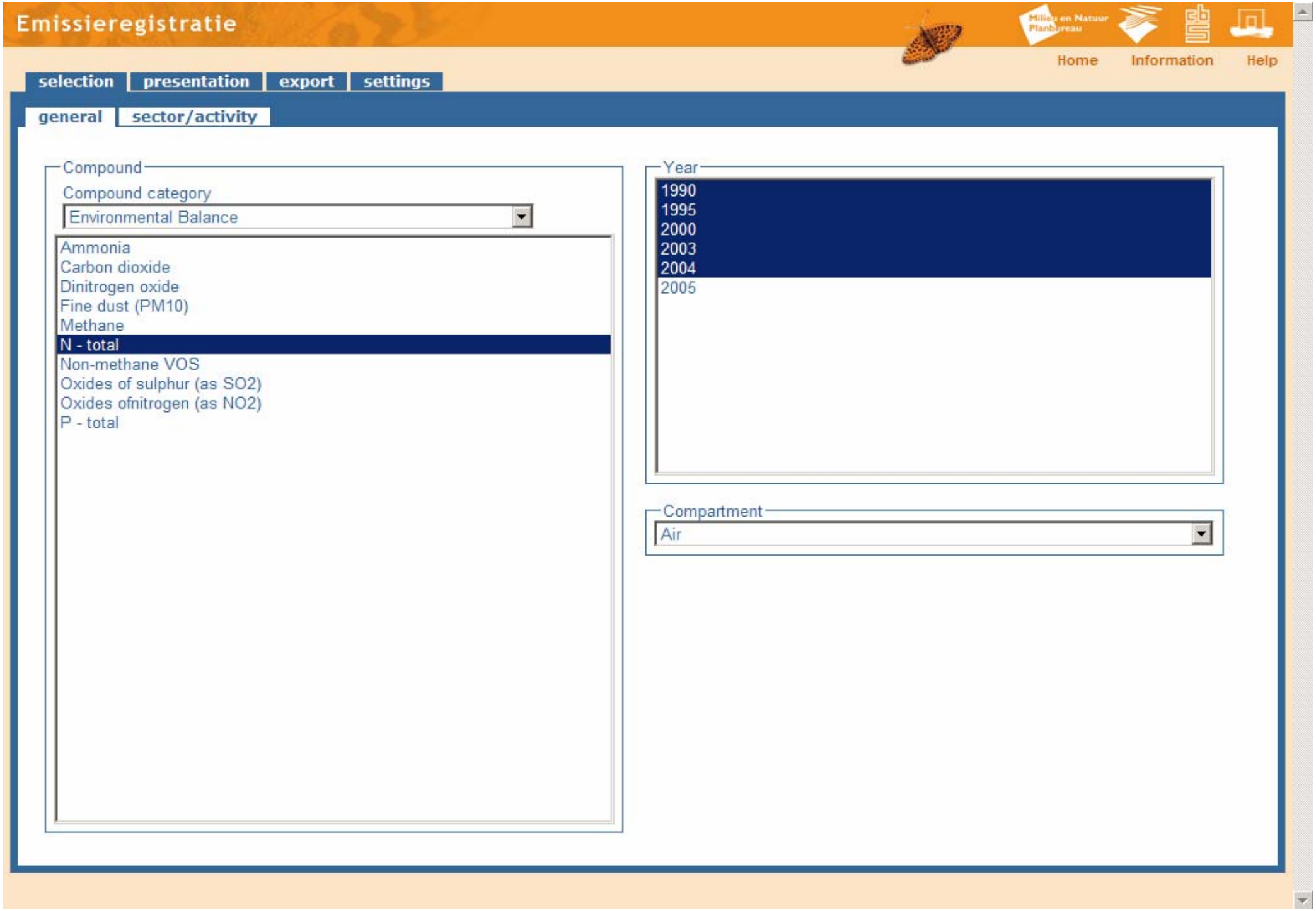
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Environmental Balance
Ammonia
Carbon dioxide
Dinitrogen oxide
Fine dust (PM10)
Methane
N - total
Non-methane VOS
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Oxides ofnitrogen (as NO2)
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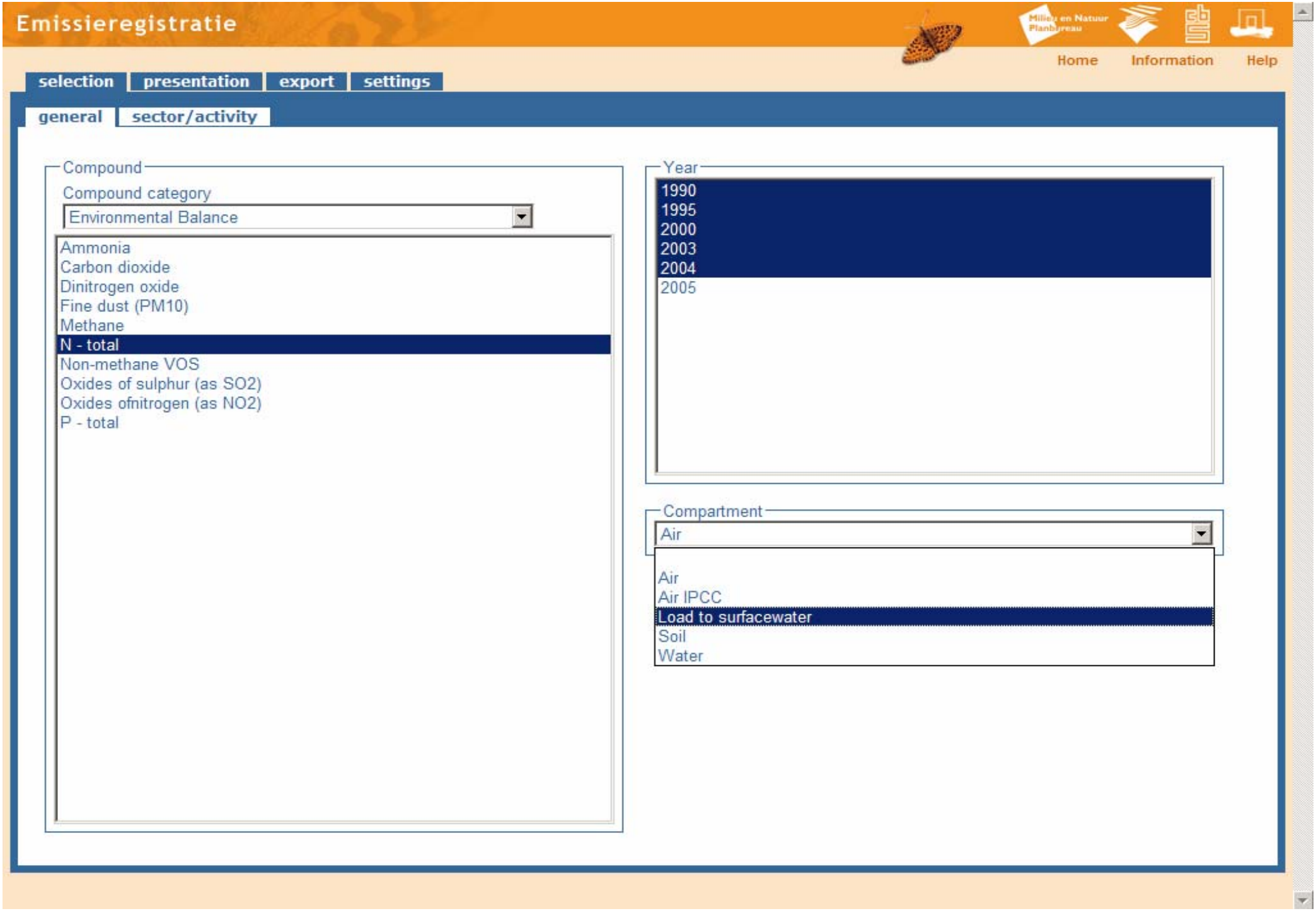
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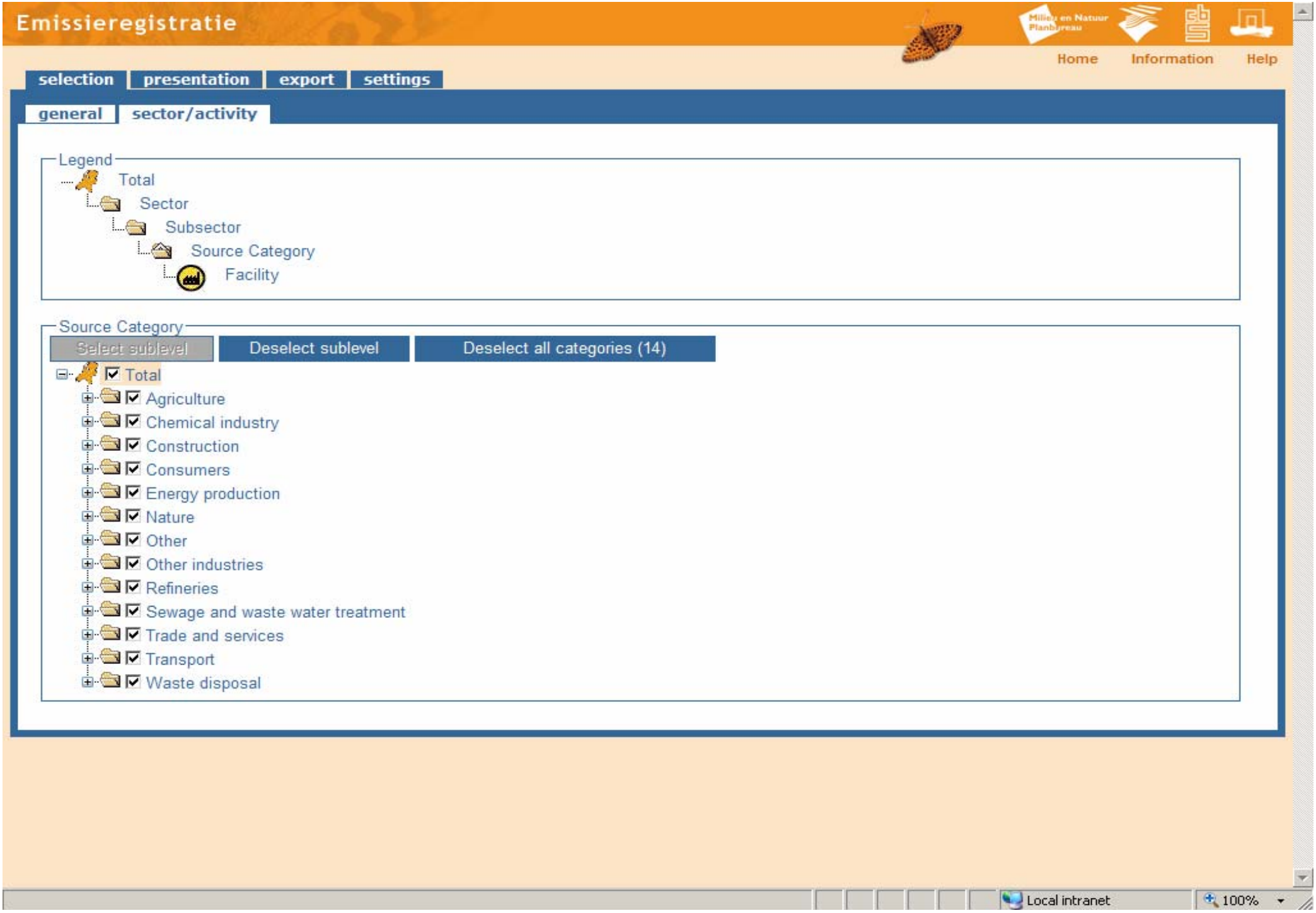
Soil
Water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Legend
Total
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Subsector
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Facility
Source Category
Select sublevel
Deselect sublevel
Deselect all categories (14)
Total
Agriculture
Chemical industry
Construction
Consumers
Energy production
Nature
Other
Other industries
Refineries
Sewage and waste water treatment
Trade and services
Transport
Waste disposal
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Emissieregistratie

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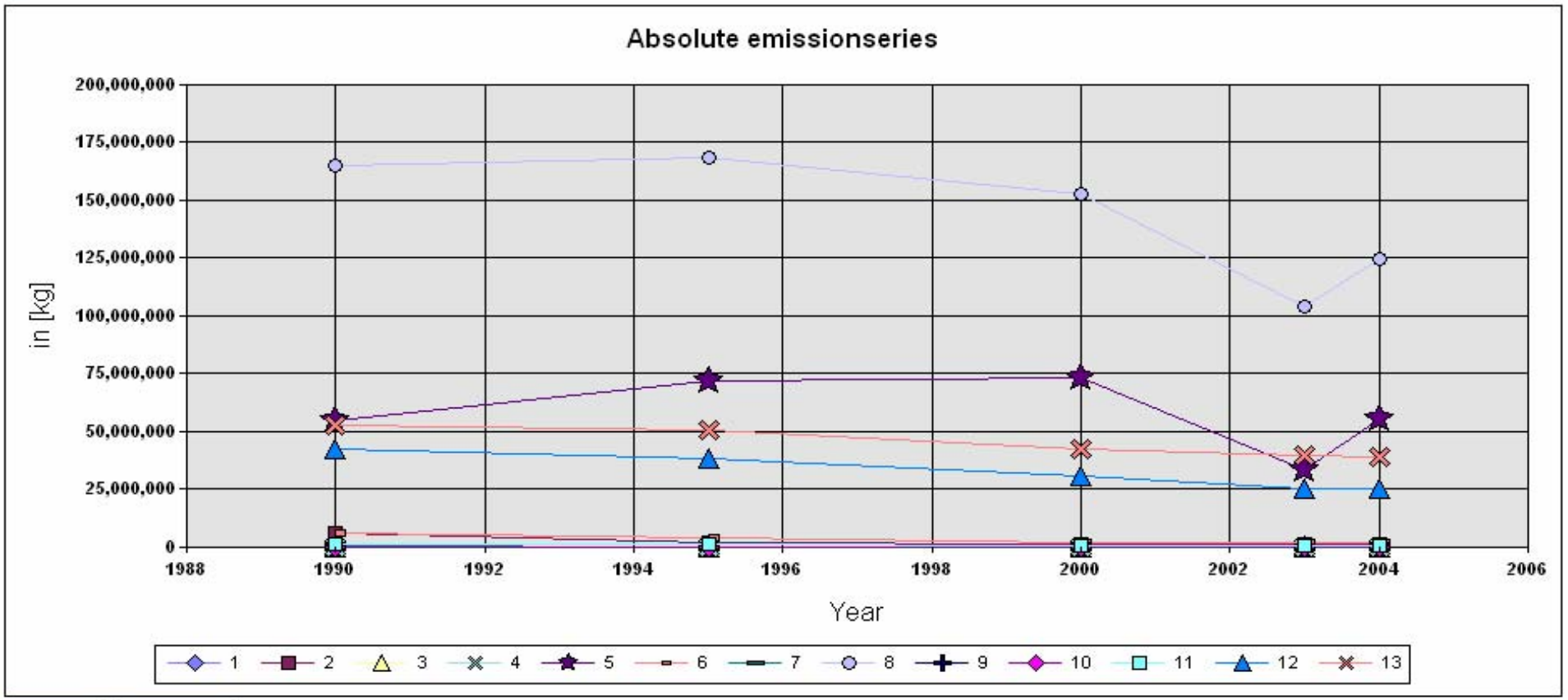
selection | presentation | export | settings

graph | map

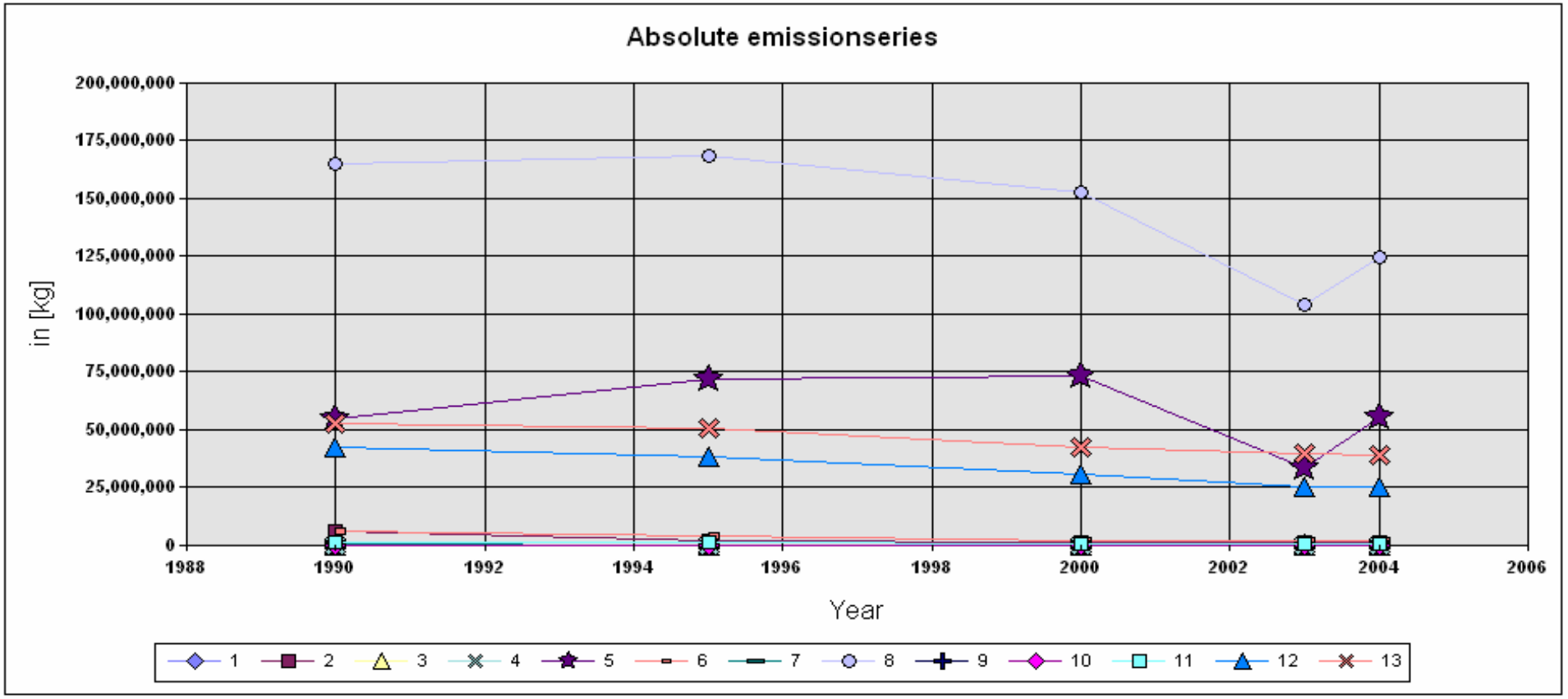
Type of presentation

Absolute Relative Year of reference 1990 Ok Clear Graph



Remove To Excel

#		Sector/Activity	Theme	Pollutant	Unit	Sectortype	Sector	1990	1995	2000	2003	2004	Activity	Facility	Compartme
8	☐	Total		N - total	kg			164800000	168700000	152400000	104100000	124700000			Load to surfacewater



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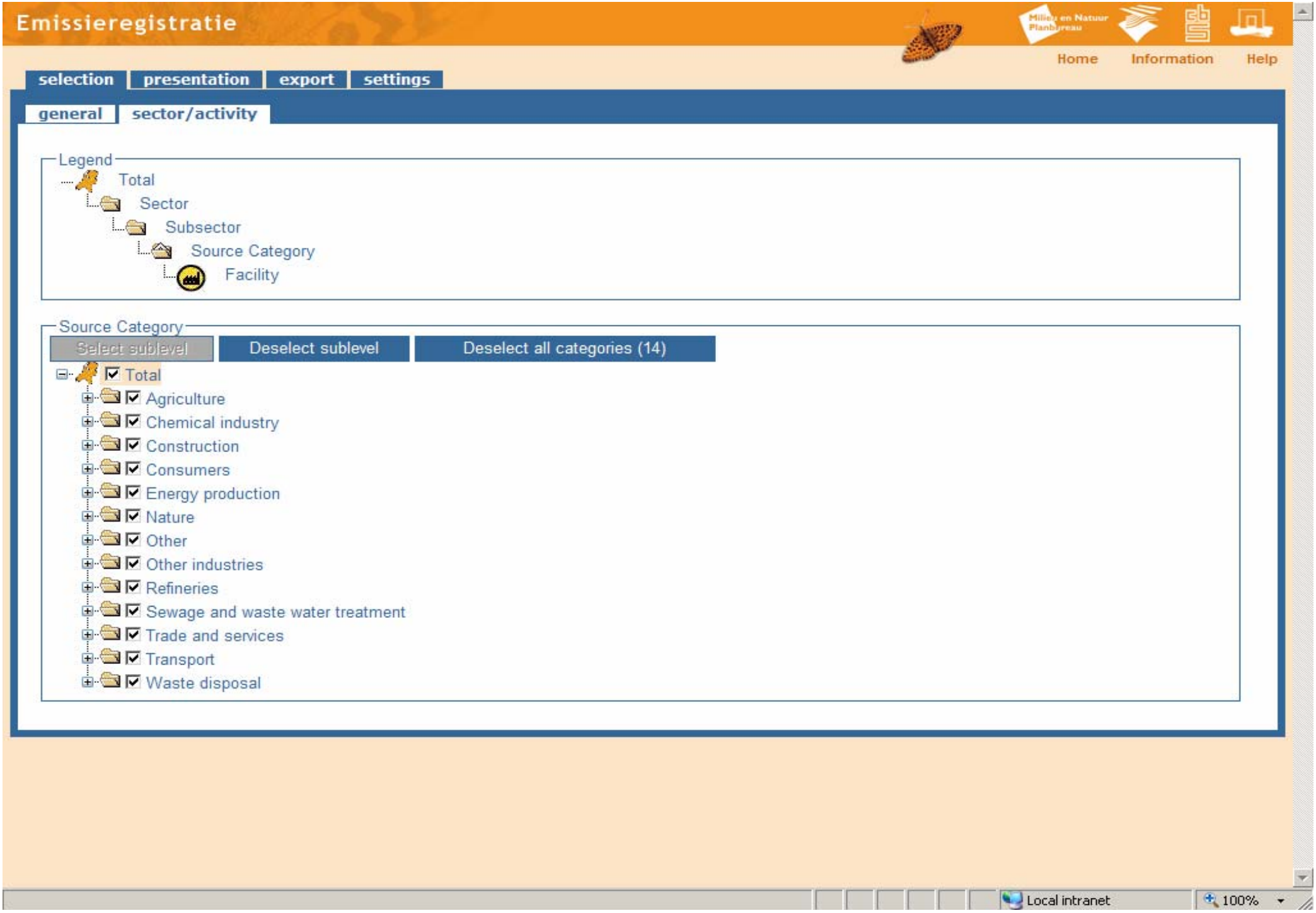
#		Sector/Activity	Theme	Pollutant	Unit	Sectortype	Sector	1990	1995	2000	2003	2004	Activity	Facility	Compartme
8	☐	Total		N - total	kg			164800000	168700000	152400000	104100000	124700000			Load to surfacewater
5	☐	Agriculture		N - total	kg	Sector	Agriculture	54630000	71600000	73130000	33560000	55300000			Load to surfacewater
13	☐	Other		N - total	kg	Sector	Other	52850000	50440000	42600000	40020000	39080000			Load to surfacewater
12	☐	Sewage and waste water treatment		N - total	kg	Sector	Sewage and waste water treatment	42640000	38640000	30820000	25450000	25190000			Load to surfacewater
6	☐	Chemical industry		N - total	kg	Sector	Chemical industry	5915000	3856000	2078000	1737000	1933000			Load to surfacewater
2	☐	Other industries		N - total	kg	Sector	Other industries	6032000	2035000	1637000	1169000	1275000			Load to surfacewater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Deselect sublevel
Deselect all categories (14)
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Chemical industry
Construction
Consumers
Energy production
Nature
Other
Other industries
Refineries
Sewage and waste water treatment
Trade and services
Transport
Waste disposal
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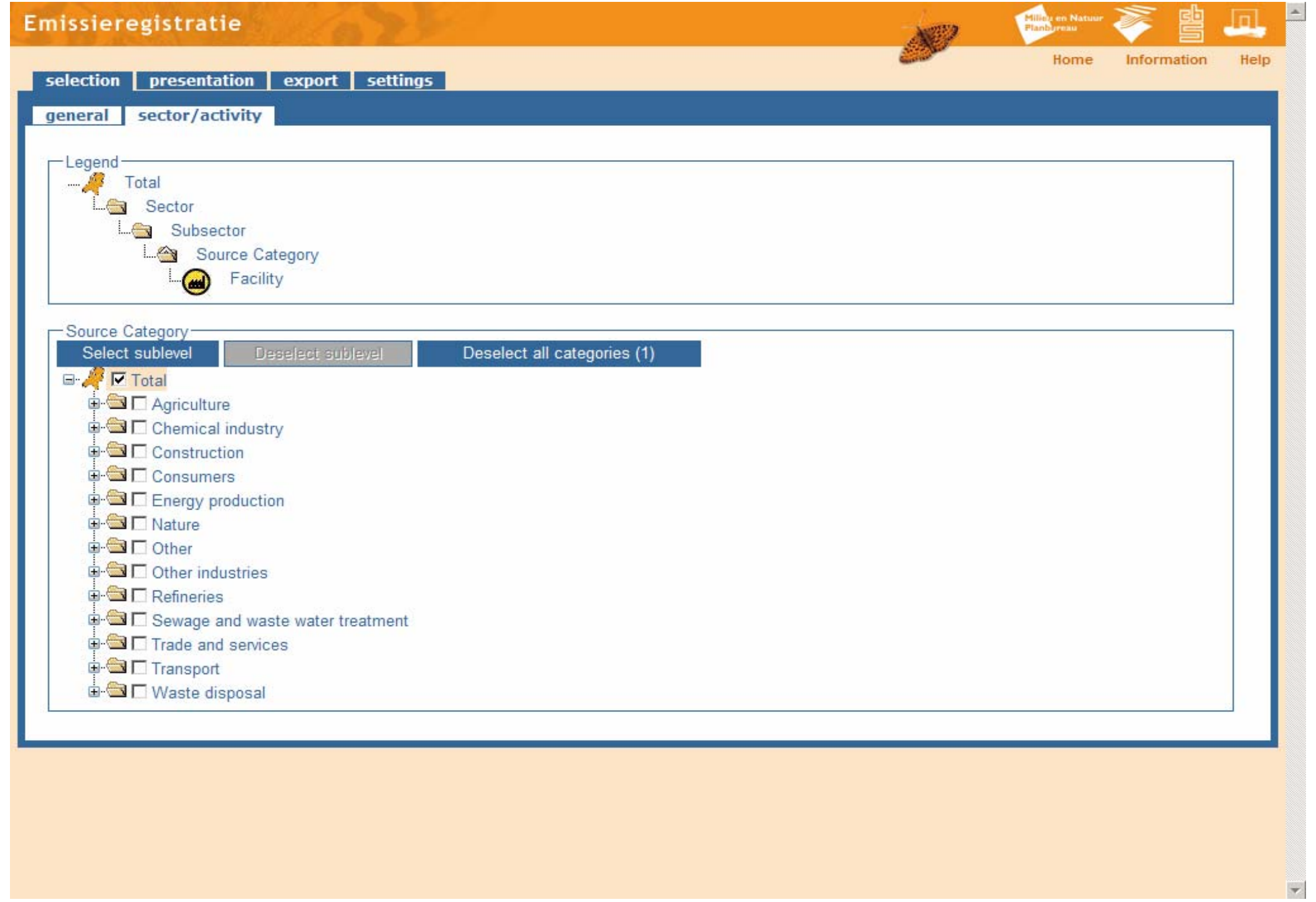
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Subsector
Source Category
Facility
Source Category
Select sublevel
Deselect sublevel
Deselect all categories (1)
Total
Agriculture
Chemical industry
Construction
Consumers
Energy production
Nature
Other
Other industries
Refineries
Sewage and waste water treatment
Trade and services
Transport
Waste disposal

Legend

- Total
  - Sector
    - Subsector
      - Source Category
        - Facility

Source Category

Select sublevel | Deselect sublevel | Deselect all categories (1)

- [ ] Total
  - [x] Agriculture
    - [ ] cattle breeding pigs
    - [ ] cattle breeding cattle
    - [ ] cattle breeding poultry
    - [ ] cattle breeding other
    - [ ] manure (NH3)
    - [ ] artificial fertilizer
    - [ ] market gardening (outdoor field)
    - [ ] cultivation under glass
    - [ ] cultivation of corn
    - [ ] meadows and pasture-land
    - [ ] other productions agriculture/marketgardening
    - [ ] arable farming
    - [ ] run off and leaching
    - [ ] lateral manure of ditches
    - [ ] preserved wood applied in agriculture
    - [ ] angling, use of sinker and lead shot
    - [ ] hunting, lead shot and zinc emissions
    - [ ] pesticides in agriculture
    - [ ] agriculture other
    - [ ] corrosion galvanized steel cultivation underglass
    - [ ] temperature correction agriculture
    - [ ] balance entries agricultural soil

Legend

- Total
  - Sector
    - Subsector
      - Source Category
        - Facility

Source Category

Select sublevel | Deselect sublevel | Deselect all categories (26)

- [ ] Total
  - [x] Agriculture
    - [x] cattle breeding pigs
    - [x] cattle breeding cattle
    - [x] cattle breeding poultry
    - [x] cattle breeding other
    - [x] manure (NH3)
    - [x] artificial fertilizer
    - [x] market gardening (outdoor field)
    - [x] cultivation under glass
    - [x] cultivation of corn
    - [x] meadows and pasture-land
    - [x] other productions agriculture/marketgardening
    - [x] arable farming
    - [x] run off and leaching
    - [x] lateral manure of ditches
    - [x] preserved wood applied in agriculture
    - [x] angling, use of sinker and lead shot
    - [x] hunting, lead shot and zinc emissions
    - [x] pesticides in agriculture
    - [x] agriculture other
    - [x] corrosion galvanized steel cultivation underglass
    - [x] temperature correction agriculture
    - [x] balance entries agricultural soil
    - [x] farmland emission - supply minus discharge
    - [x] supply + deposition on farmland
    - [x] manure and artificial fertilizer (NH3)
  - [ ] Chemical industry

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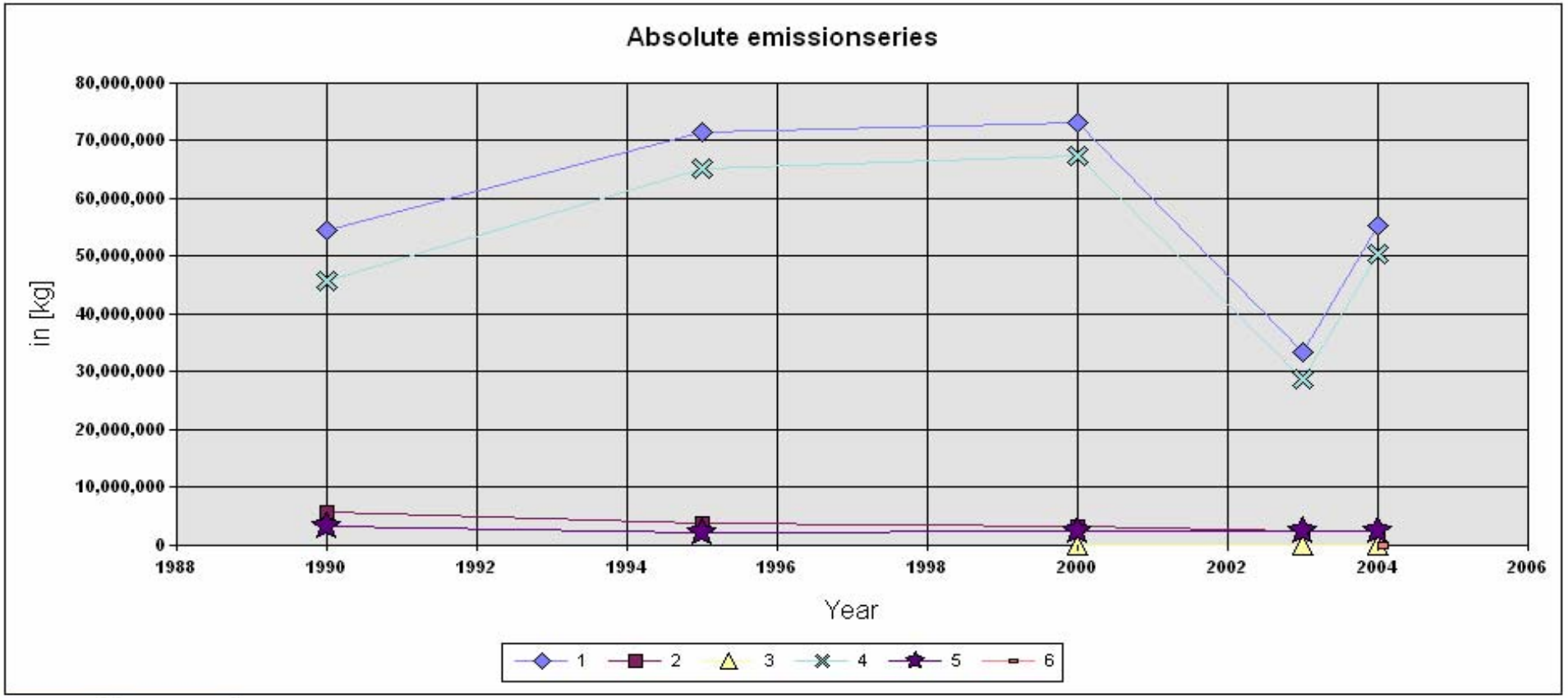
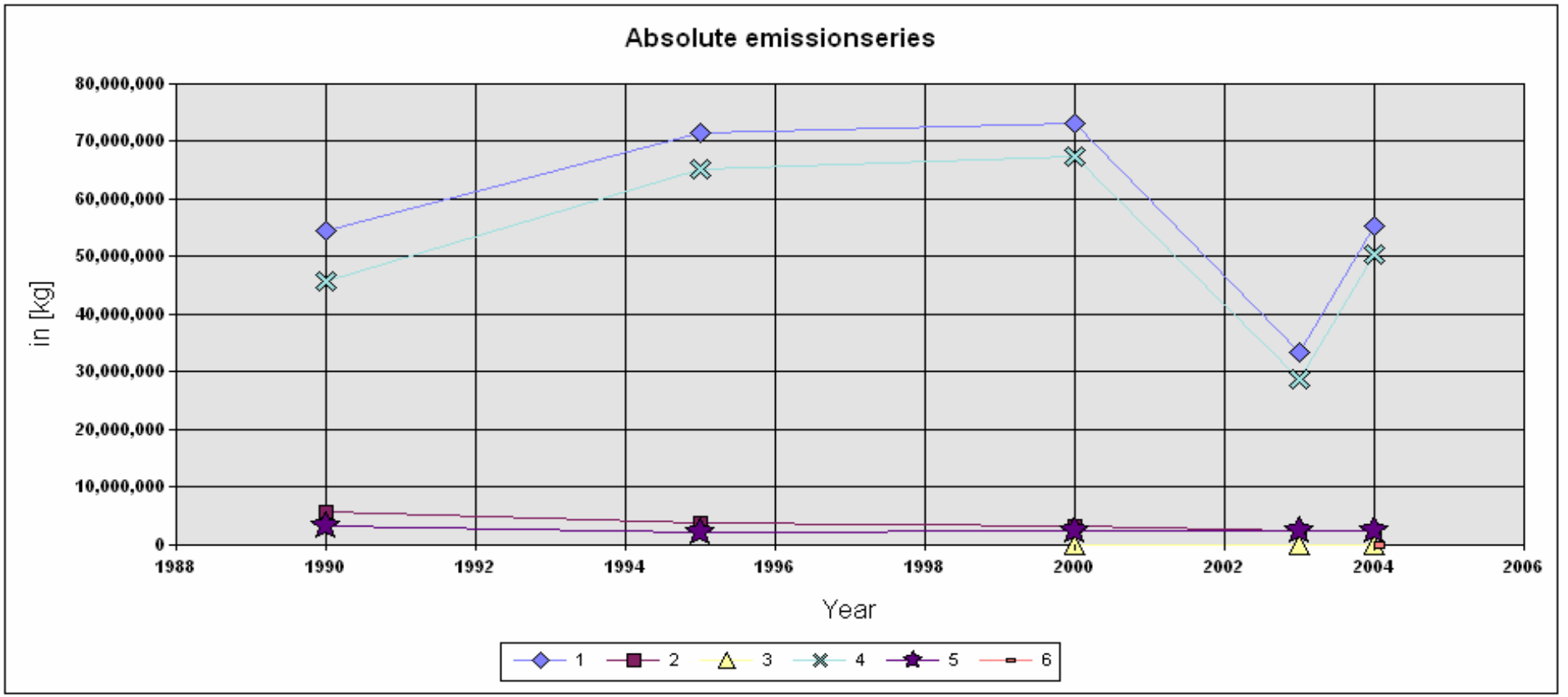


Remove To Excel

#		Sector/Activity	Theme	Pollutant	Unit	Sectortype	Sector	1990	1995	2000	2003	2004	Activity	Facility	Compartment
1	☐	Agriculture		N - total	kg	Sector	Agriculture	54630000	71600000	73130000	33560000	55300000			Load to surfacewater
4	☐	run off and		N - total	kg	Subsector	run off and	45740000	65320000	67520000	28810000	50380000			Load to



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#		Sector/Activity	Theme	Pollutant	Unit	Sectortype	Sector	1990	1995	2000	2003	2004	Activity	Facility	Compartment
1	☐	Agriculture		N - total	kg	Sector	Agriculture	54630000	71600000	73130000	33560000	55300000			Load to surfacewater
4	☐	run off and leaching		N - total	kg	Subsector	run off and leaching	45740000	65320000	67520000	28810000	50380000			Load to surfacewater
2	☐	lateral manure of ditches		N - total	kg	Subsector	lateral manure of ditches	5630000	3960000	3270000	2350000	2510000			Load to surfacewater
5	☐	cultivation under glass		N - total	kg	Subsector	cultivation under glass	3260000	2320000	2330000	2400000	2410000			Load to surfacewater
3	☐	agriculture other		N - total	kg	Subsector	agriculture other			1511	1403	142			Load to surfacewater
6	☐	pesticides in		N - total	kg	Subsector	pesticides					0			Load to

Selection

Pollutant: N - total

Year: 1990,1995,2000,2003,2004

Compartment: Load to surfacewater

Sector/Activity

Export

Selection

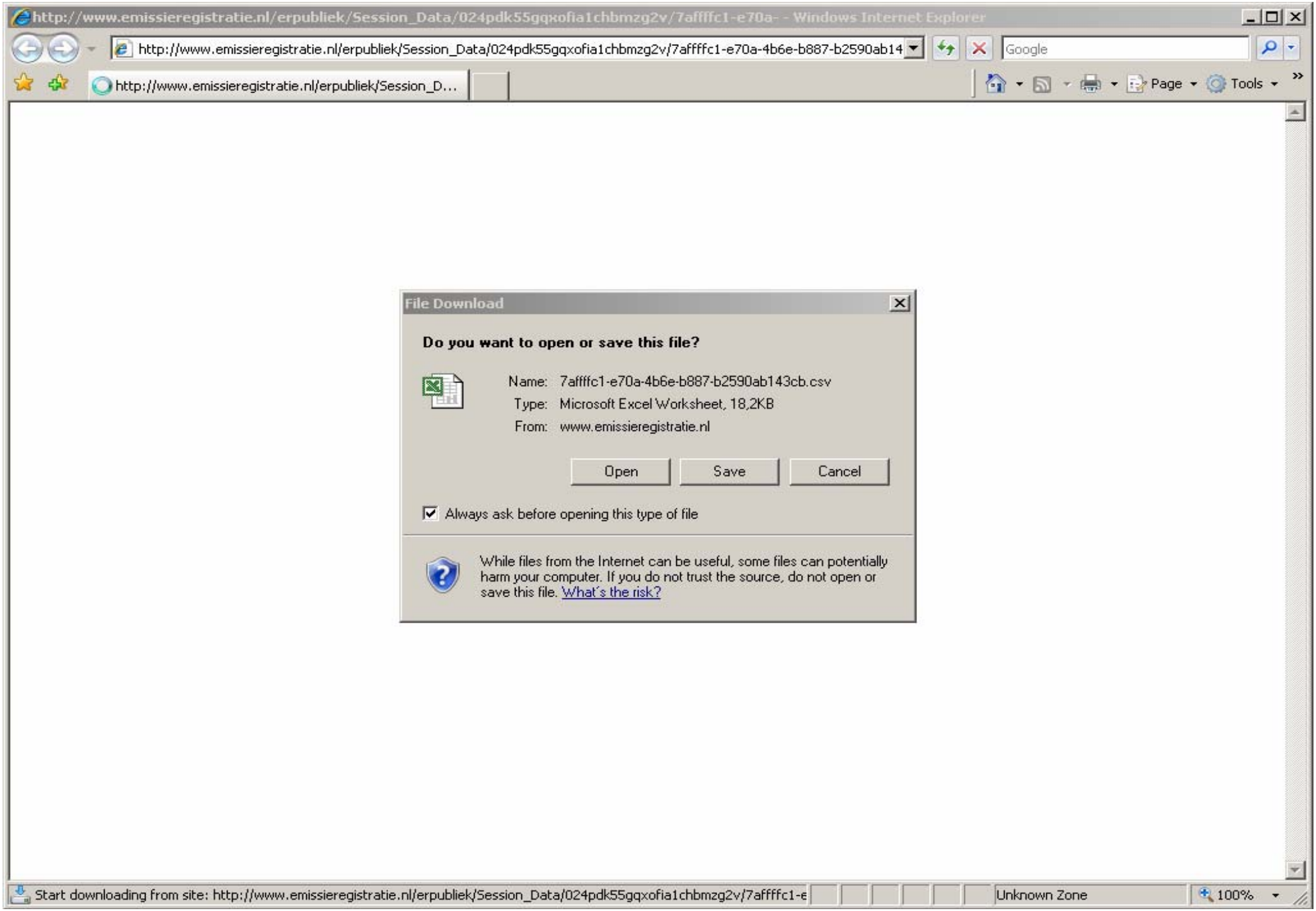
Pollutant: N - total

Year: 1990,1995,2000,2003,2004

Compartment: Load to surfacewater

Sector/Activity

Download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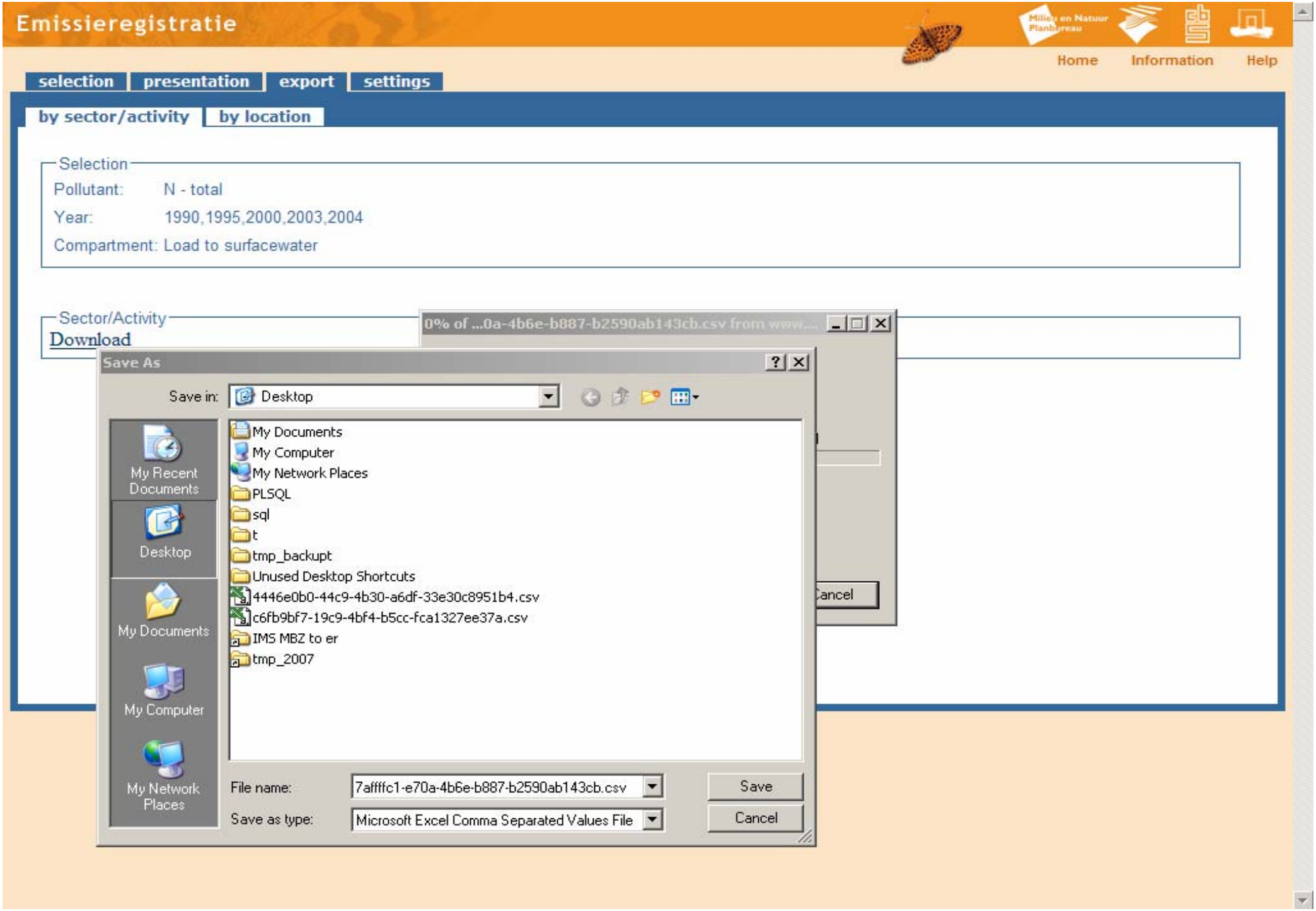
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Desktop
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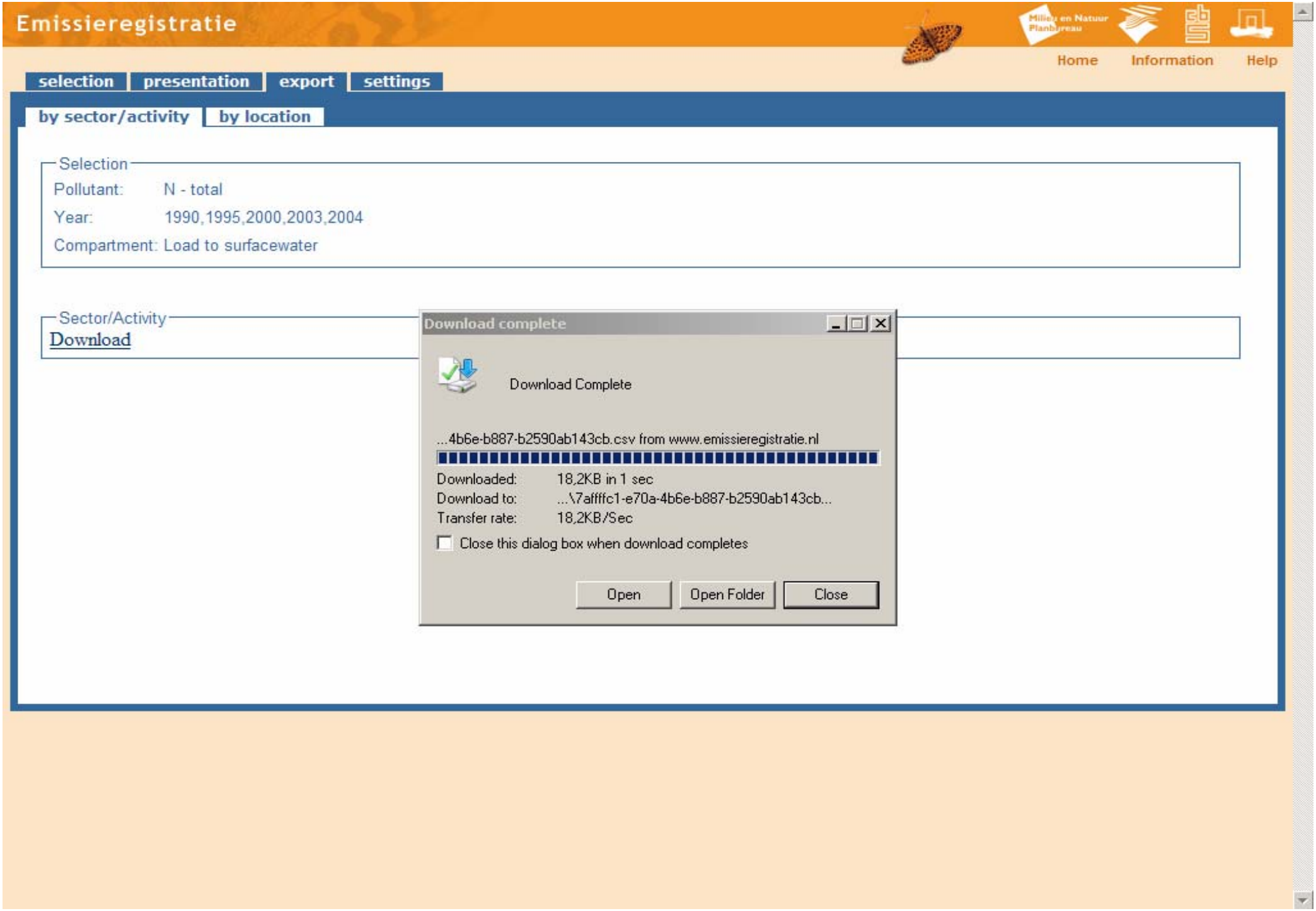
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Compartment: Load to surfacewater
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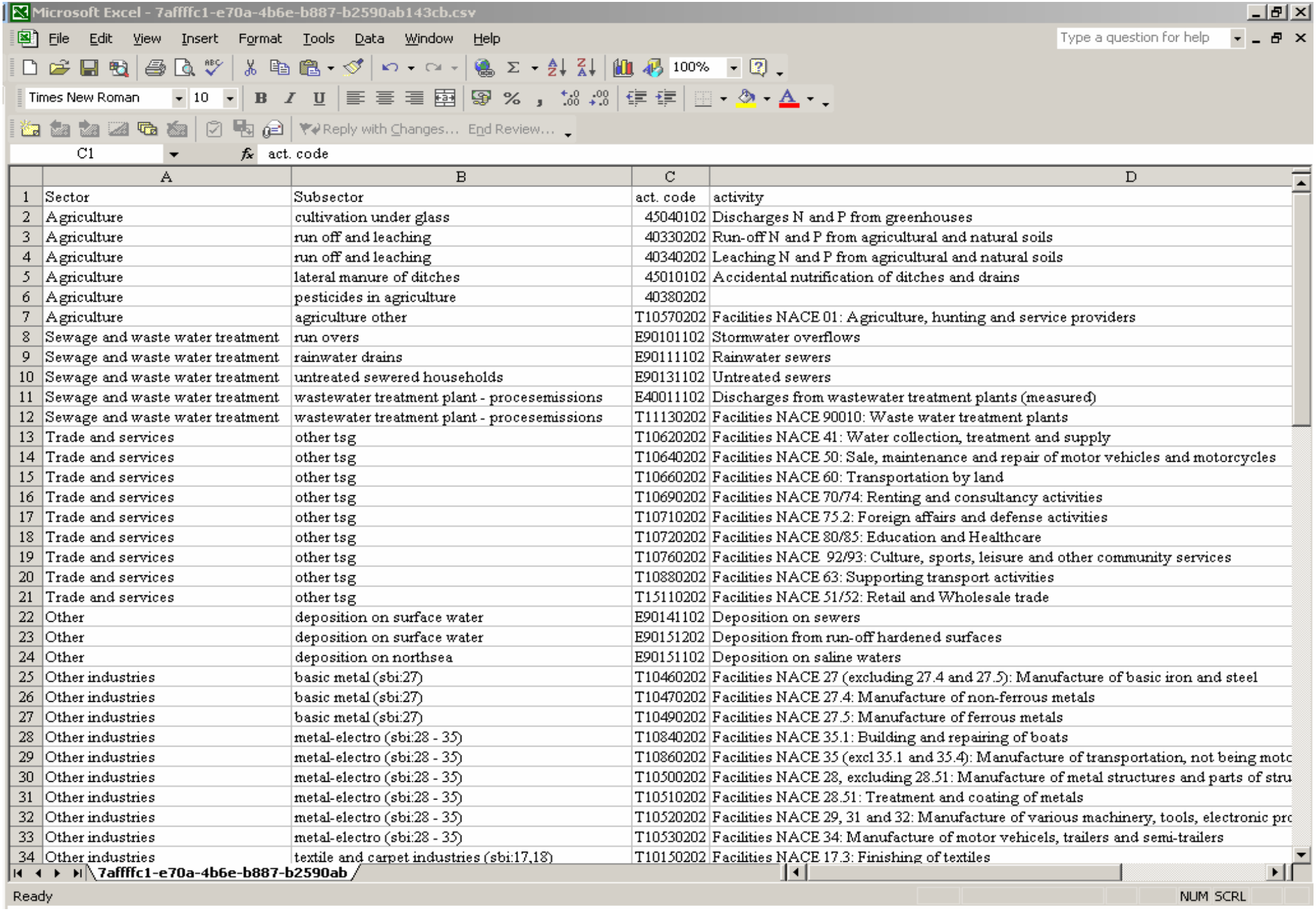
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Reply with Changes... End Review...

C1 act. code

	A	B	C	D
1	Sector	Subsector	act. code	activity
2	Agriculture	cultivation under glass	45040102	Discharges N and P from greenhouses
3	Agriculture	run off and leaching	40330202	Run-off N and P from agricultural and natural soils
4	Agriculture	run off and leaching	40340202	Leaching N and P from agricultural and natural soils
5	Agriculture	lateral manure of ditches	45010102	Accidental nutrification of ditches and drains
6	Agriculture	pesticides in agriculture	40380202	
7	Agriculture	agriculture other	T10570202	Facilities NACE 01: Agriculture, hunting and service providers
8	Sewage and waste water treatment	run overs	E90101102	Stormwater overflows
9	Sewage and waste water treatment	rainwater drains	E90111102	Rainwater sewers
10	Sewage and waste water treatment	untreated sewered households	E90131102	Untreated sewers
11	Sewage and waste water treatment	wastewater treatment plant - procesemissions	E40011102	Discharges from wastewater treatment plants (measured)
12	Sewage and waste water treatment	wastewater treatment plant - procesemissions	T11130202	Facilities NACE 90010: Waste water treatment plants
13	Trade and services	other tsg	T10620202	Facilities NACE 41: Water collection, treatment and supply
14	Trade and services	other tsg	T10640202	Facilities NACE 50: Sale, maintenance and repair of motor vehicles and motorcycles
15	Trade and services	other tsg	T10660202	Facilities NACE 60: Transportation by land
16	Trade and services	other tsg	T10690202	Facilities NACE 70/74: Renting and consultancy activities
17	Trade and services	other tsg	T10710202	Facilities NACE 75.2: Foreign affairs and defense activities
18	Trade and services	other tsg	T10720202	Facilities NACE 80/85: Education and Healthcare
19	Trade and services	other tsg	T10760202	Facilities NACE 92/93: Culture, sports, leisure and other community services
20	Trade and services	other tsg	T10880202	Facilities NACE 63: Supporting transport activities
21	Trade and services	other tsg	T15110202	Facilities NACE 51/52: Retail and Wholesale trade
22	Other	deposition on surface water	E90141102	Deposition on sewers
23	Other	deposition on surface water	E90151202	Deposition from run-off hardened surfaces
24	Other	deposition on northsea	E90151102	Deposition on saline waters
25	Other industries	basic metal (sbi:27)	T10460202	Facilities NACE 27 (excluding 27.4 and 27.5): Manufacture of basic iron and steel
26	Other industries	basic metal (sbi:27)	T10470202	Facilities NACE 27.4: Manufacture of non-ferrous metals
27	Other industries	basic metal (sbi:27)	T10490202	Facilities NACE 27.5: Manufacture of ferrous metals
28	Other industries	metal-electro (sbi:28 - 35)	T10840202	Facilities NACE 35.1: Building and repairing of boats
29	Other industries	metal-electro (sbi:28 - 35)	T10860202	Facilities NACE 35 (excl 35.1 and 35.4): Manufacture of transportation, not being motc
30	Other industries	metal-electro (sbi:28 - 35)	T10500202	Facilities NACE 28, excluding 28.51: Manufacture of metal structures and parts of stru
31	Other industries	metal-electro (sbi:28 - 35)	T10510202	Facilities NACE 28.51: Treatment and coating of metals
32	Other industries	metal-electro (sbi:28 - 35)	T10520202	Facilities NACE 29, 31 and 32: Manufacture of various machinery, tools, electronic prc
33	Other industries	metal-electro (sbi:28 - 35)	T10530202	Facilities NACE 34: Manufacture of motor vehicels, trailers and semi-trailers
34	Other industries	textile and carpet industries (sbi:17,18)	T10150202	Facilities NACE 17.3: Finishing of textiles

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Challenges in presenting geographic emission data

- Different users want different views
- Cartographic correctness
- Getting the message across
- Limitations to GIS on a website

Netherlands Environmental Assessment Agency

Emissieregistratie

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Community
2004
Nitrogen oxide (as NO2)
Air
Total
no background
Classification: equal interval
Emissions per km2 ☑
Facilities: ☐
Refresh Map

Postalcode (4 positions)
Community
Search

Community (kg/km2)
0 - 41000 (440)
41000 - 82000 (18)
82000 - 123000 (3)
123000 - 164000 (2)
164000 - 205000 (1)
205000 - 246000 (1)
246000 - 287000 (1)
287000 - 328000 (2)

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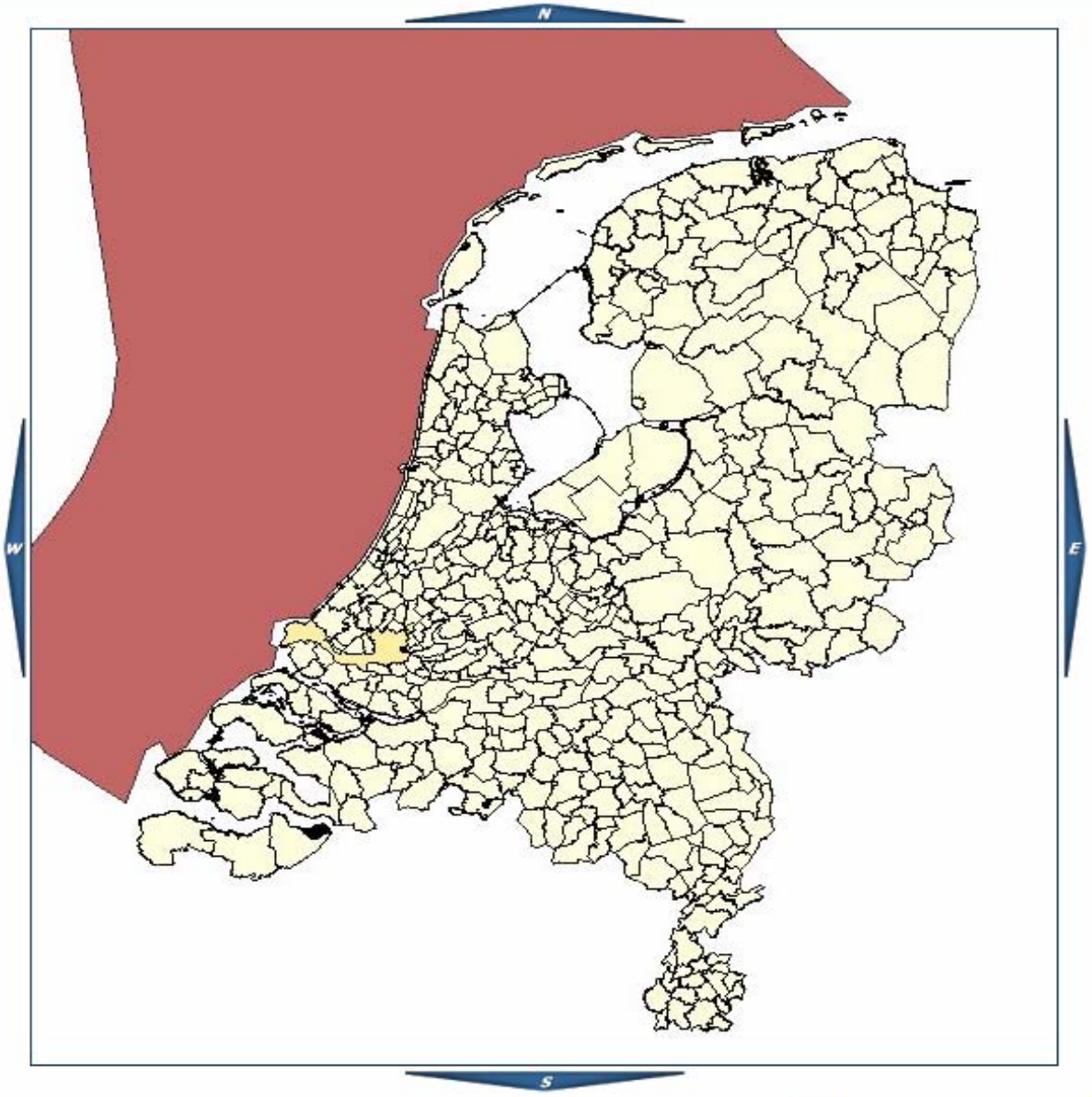
Community
2004
Nitrogen oxide (as NO2)
Air
Total
no background
Classification: equal interval
Emissions per km2
Facilities:
Refresh Map

Postalcode (4 positions)
Community
Search

Community (kg)

- 0 - 15000000 (468)
- 15000000 - 30000000 (0)
- 30000000 - 45000000 (1)
- 45000000 - 60000000 (0)
- 60000000 - 75000000 (0)
- 75000000 - 90000000 (0)
- 90000000 - 105000000 (0)
- 105000000 - 120000000 (1)



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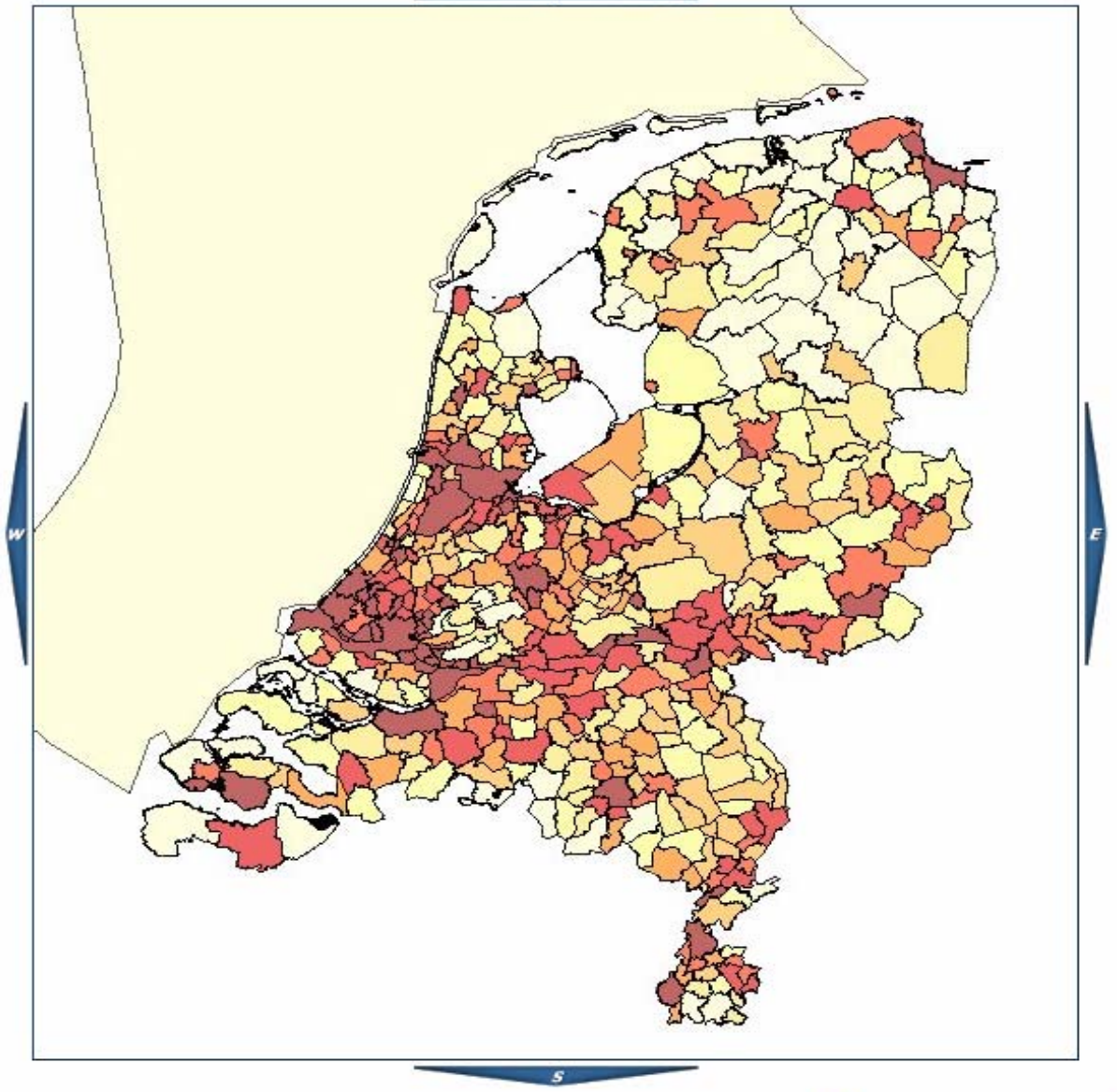
graph | map

Community
2004
Nitrogen oxide (as NO2)
Air
Total
no background
Classification: equal count
Emissions per km2 ☑
Facilities: ☐
Refresh Map



Postalcode (4 positions)
Community
Search

Community (kg/km2)
0 - 3656 (59)
3656 - 4682 (59)
4682 - 5975 (59)
5975 - 7651 (59)
7651 - 10670 (59)
10670 - 15070 (59)
15070 - 25100 (59)
25100 - 328000 (55)

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Community
2004
Nitrogen oxide (as NO2)
Air
Total
no background
Classification: logarithmic
Emissions per km2
Facilities:
Refresh Map

Postalcode (4 positions)
Community
Search

Community (kg/km2)
100 - 1000 (4)
1000 - 10000 (284)
10000 - 100000 (173)
100000 - 1000000 (7)
1000000 - 10000000 (0)
10000000 - 100000000 (0)
100000000 - 1000000000 (0)
1000000000 - 10000000000 (0)

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Conclusion

- Automation of our dataflow has significantly improved our data collection process
- Different user types have different needs, in creating multiple views on the same data we meet specific needs.
- Point source information can now be presented to the public

http://www.emissieregistratie.nl

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Bert.leekstra@mnp.nl

Netherlands Environmental Assessment Agency