

A-MAPS Environmental



# **Air Quality Monitoring Products and Services**

**Ottawa, Canada**



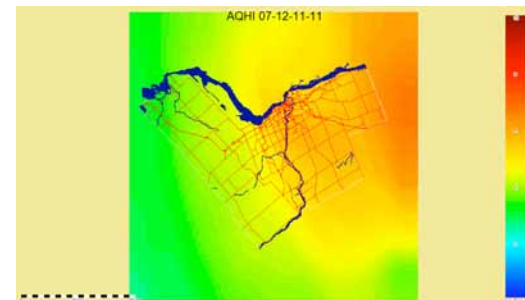
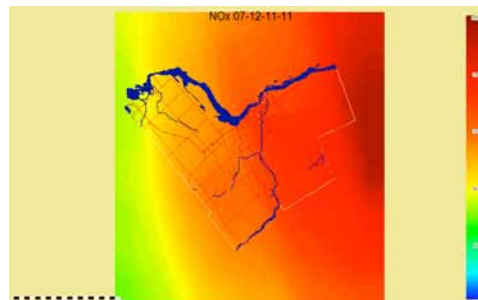
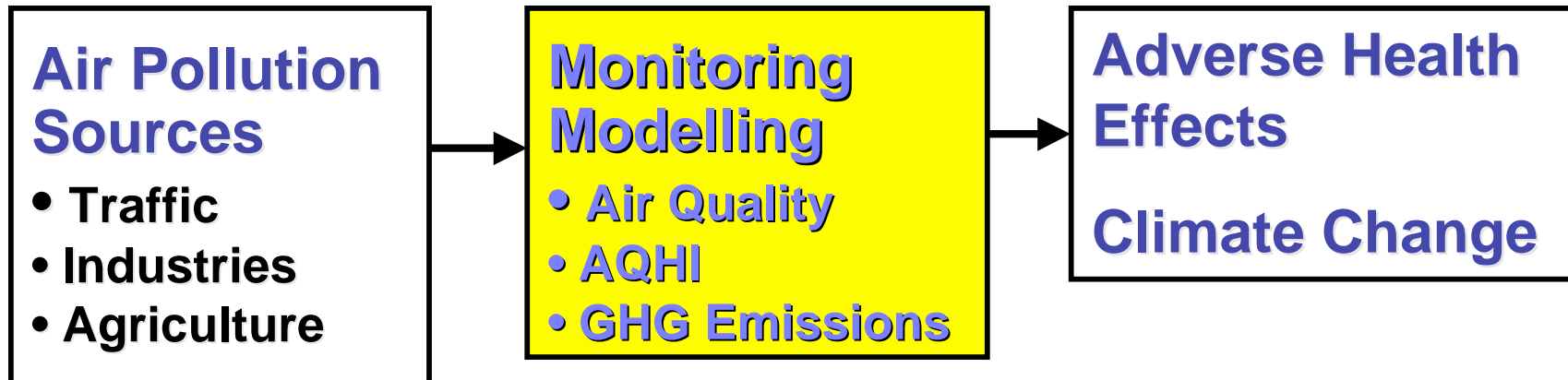
# **Products and Services:**

## **Complete Air Quality Information**

- **Application of modern technologies (Earth Observations satellites)**
- **In easily accessible formats (GIS)**
- **Impacts (Health, Climate Change)**

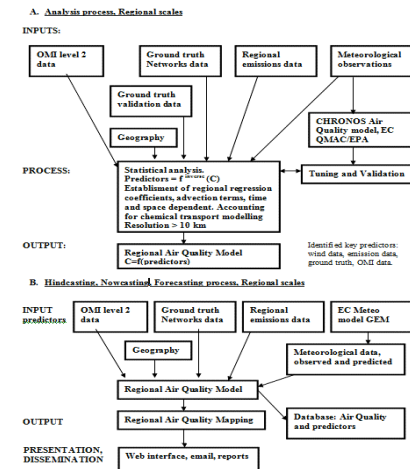
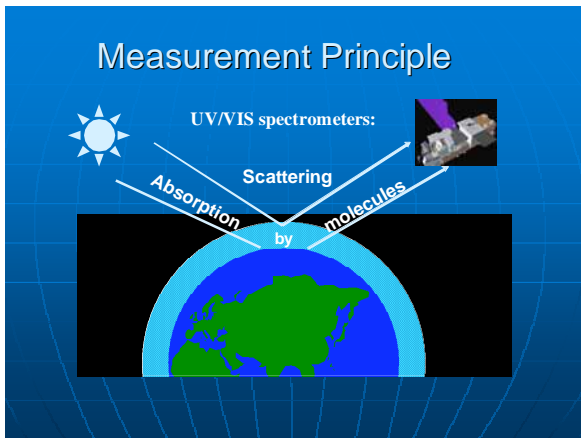


## Environmental Information





## New Technologies: Integration of Satellite Remote Sensing with Ground Level Measurements (NAPS) and Modelling



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## Major Projects 2009:

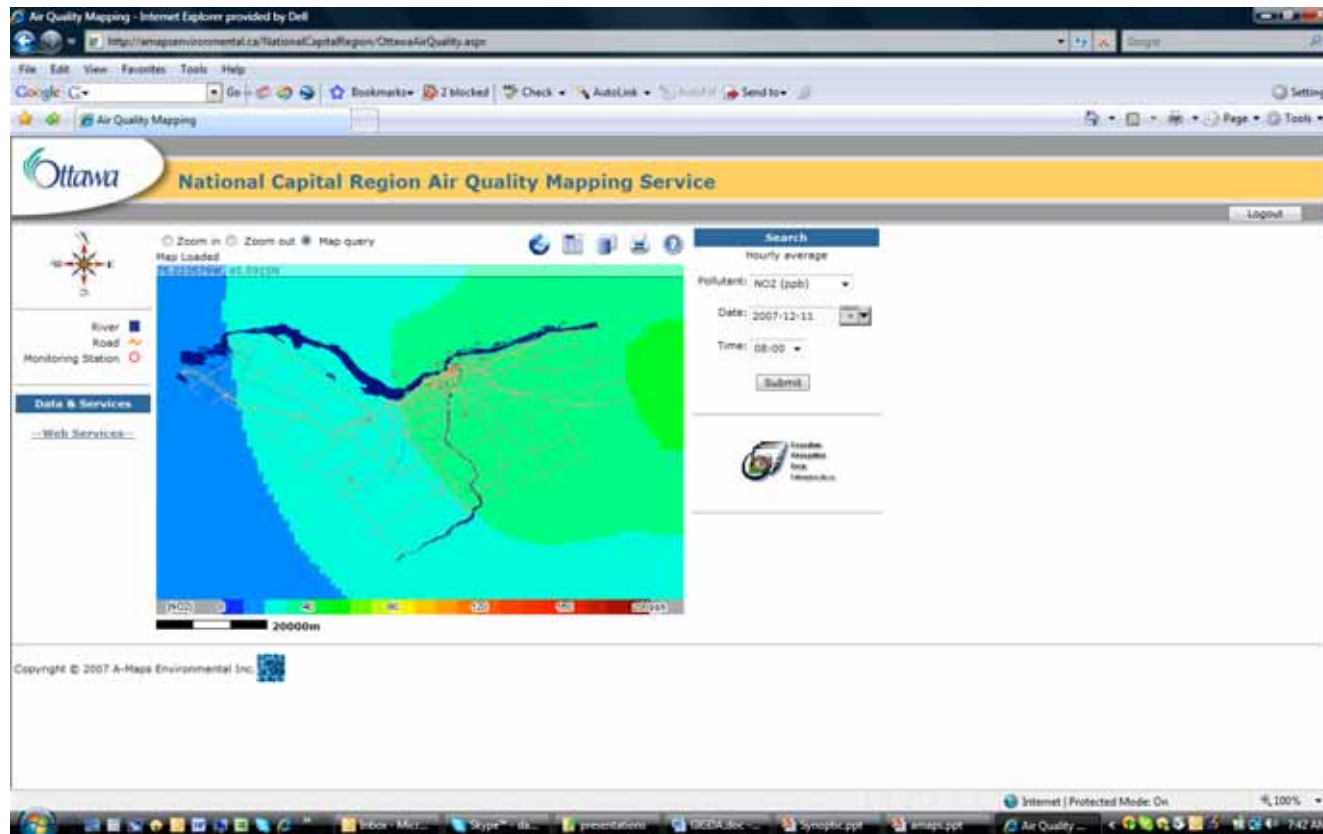
- **National Capital Region Air Quality Mapping Service (contracted by City of Ottawa)**
- **Regional and Local Canadian Air Quality Monitoring Services (contracted by PROMOTE/European Space Agency)**
- **Mapping of Air Quality Health Index in Ontario (contracted by University of Ottawa/GeoConnections)**
- **Decision Analysis Service for Urban Air Pollution Health Risk Assessments (contracted by DUE/European Space Agency)**
- **New Approaches to Air Quality Mapping in Ontario (contracted by University of Waterloo/Ontario Ministry of the Environment)**

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## Examples of Products and Services:

- AQ Interactive websites (National Capital Region)



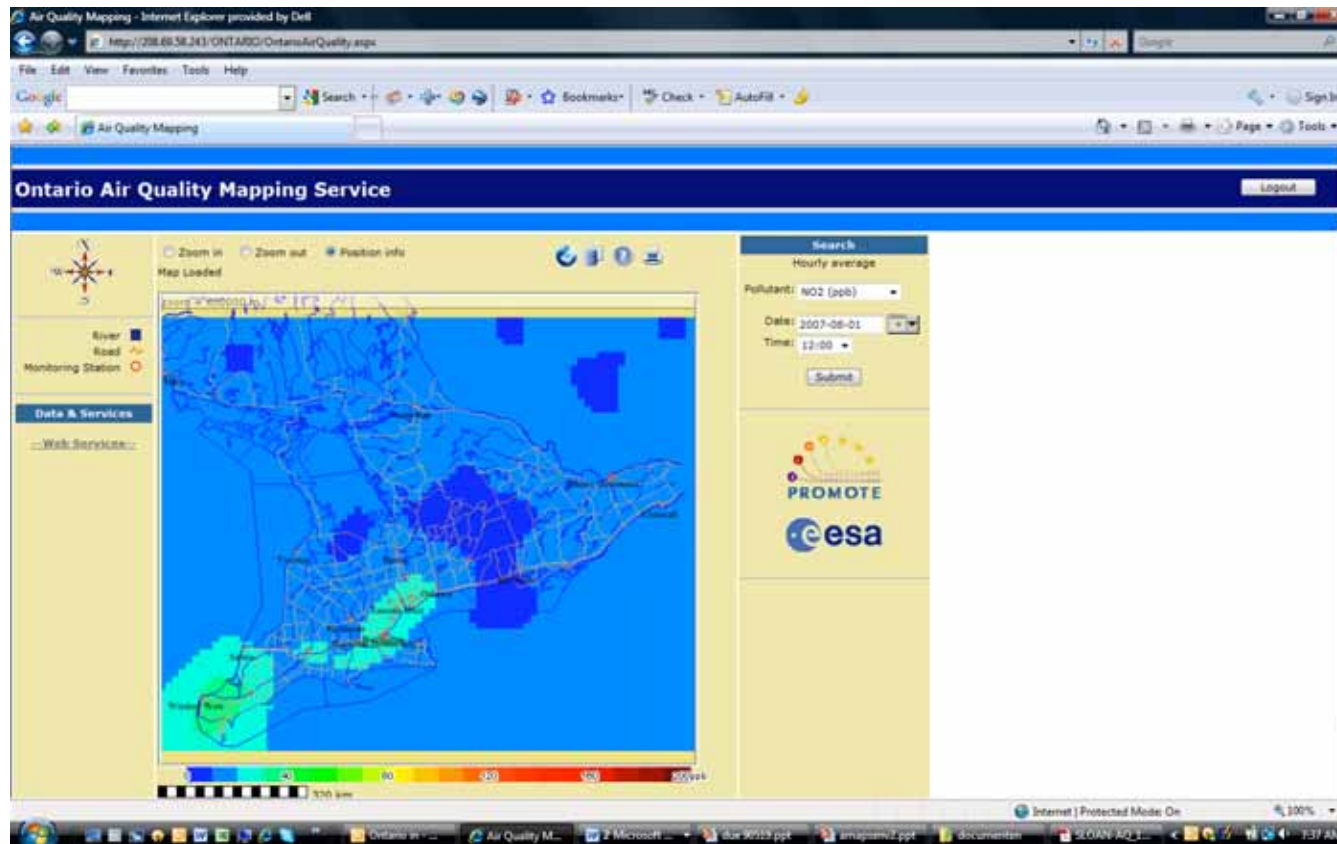


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## Examples of Products and Services:

- Regional AQ Interactive websites (**ESA**)

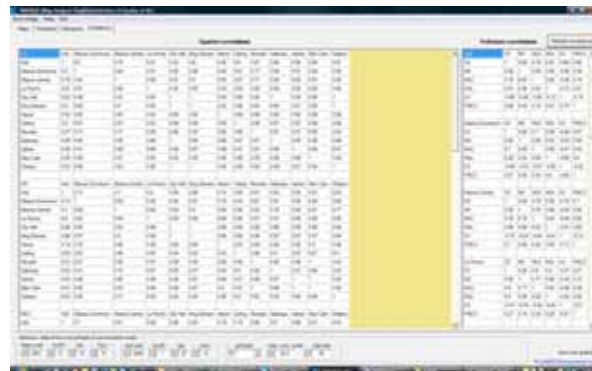
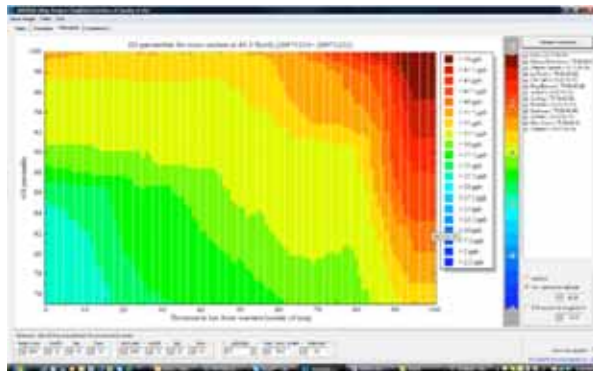
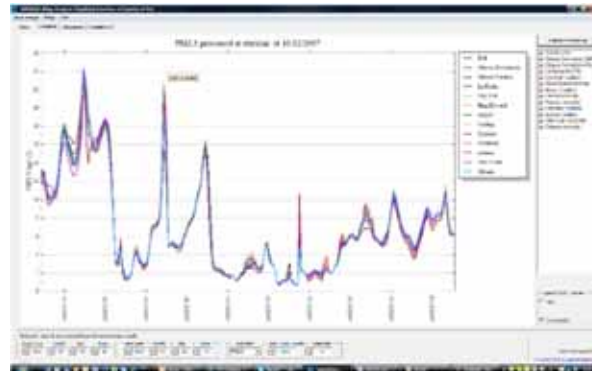
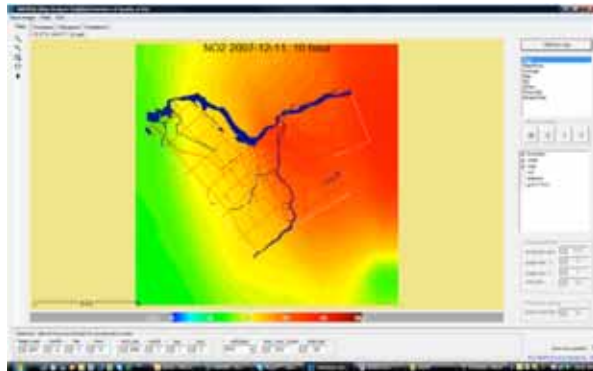


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## Examples of Products and Services:

- Interactive Environmental Map Analysis Interface

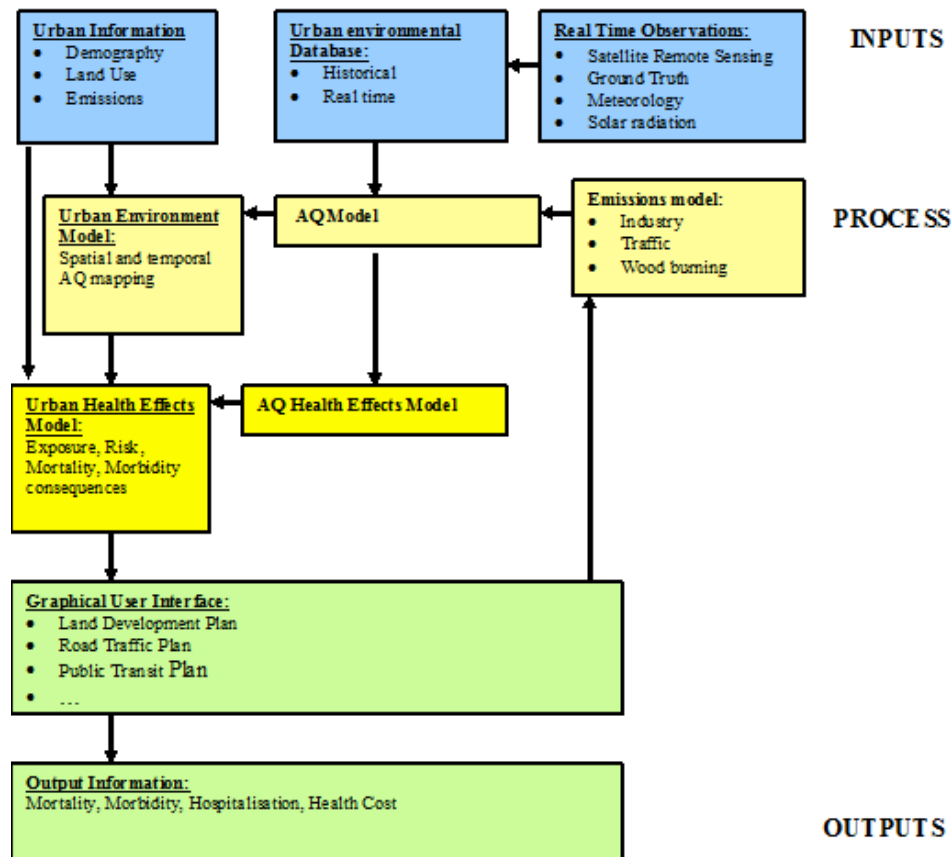




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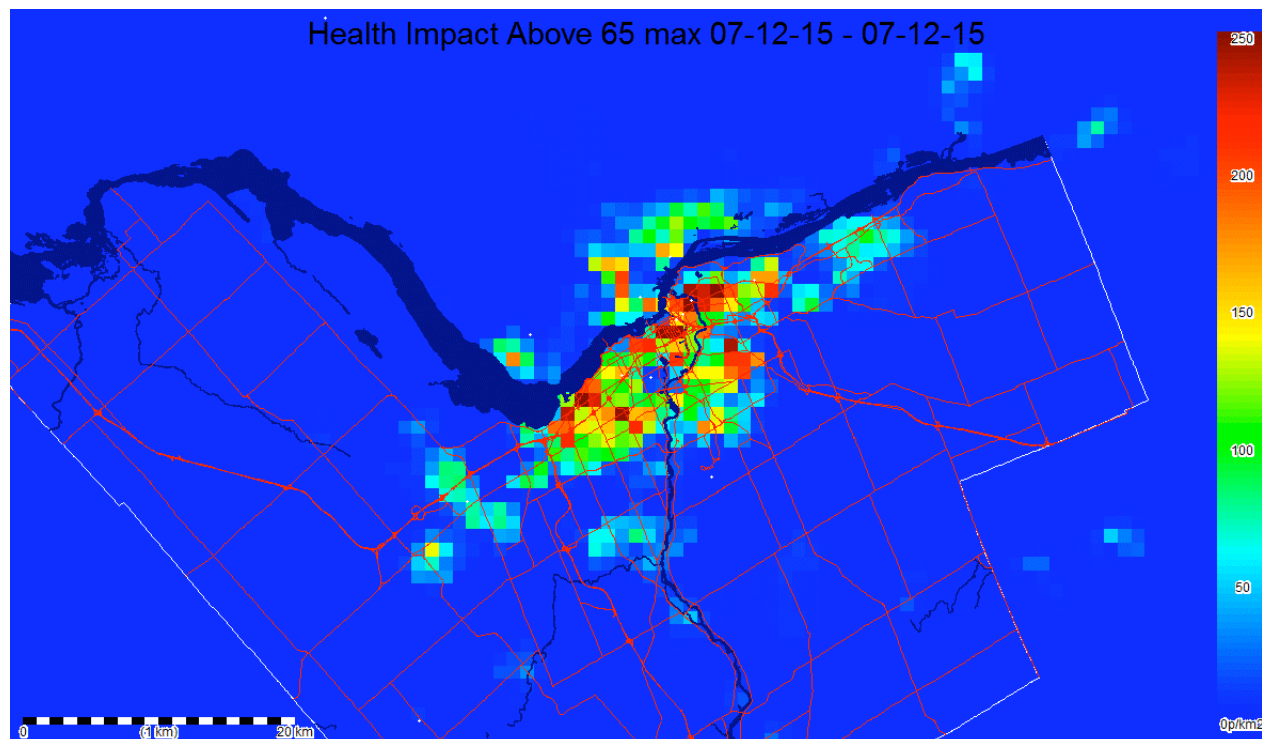
## Decision Analysis Service for Urban Air Pollution Health Risk Assessments (ESA-DUE Innovators II)





## Examples of Products and Services:

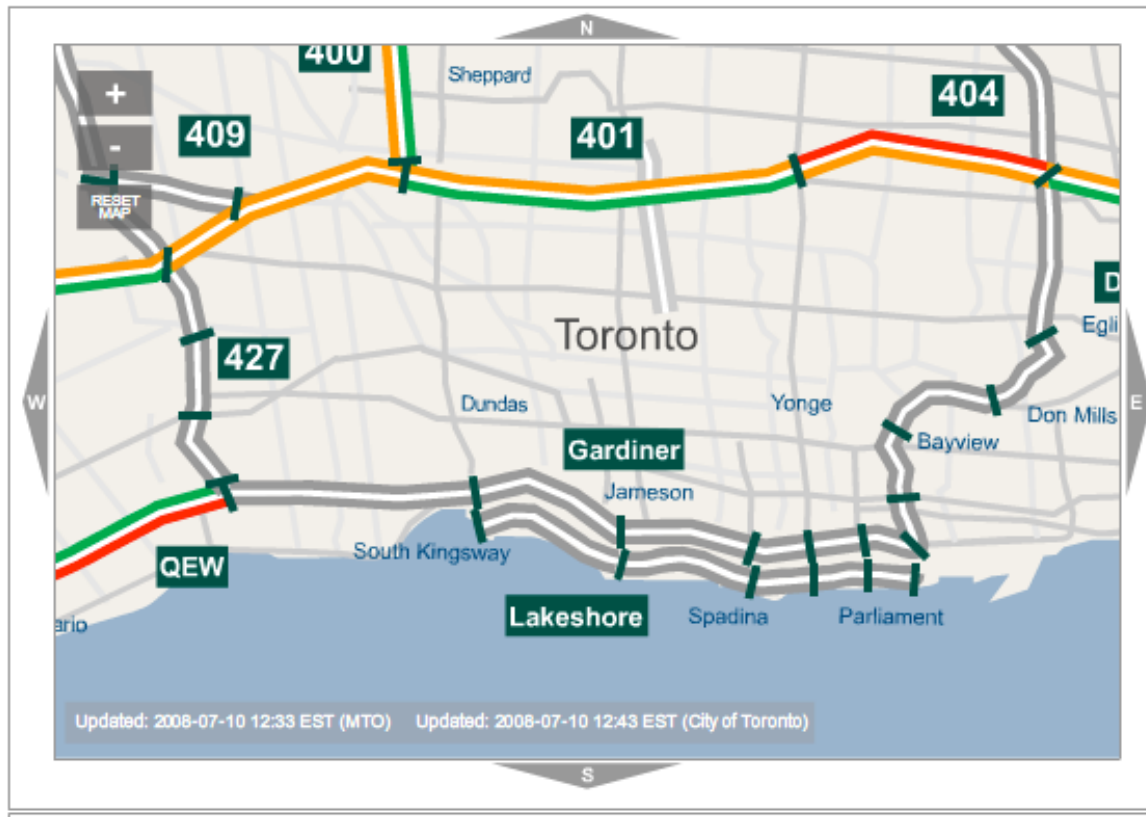
- Health Impact indexing





## Examples of Products and Services:

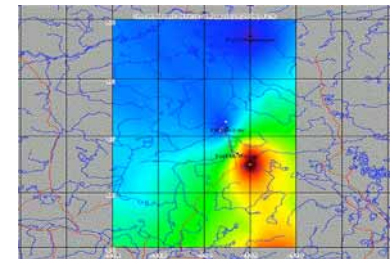
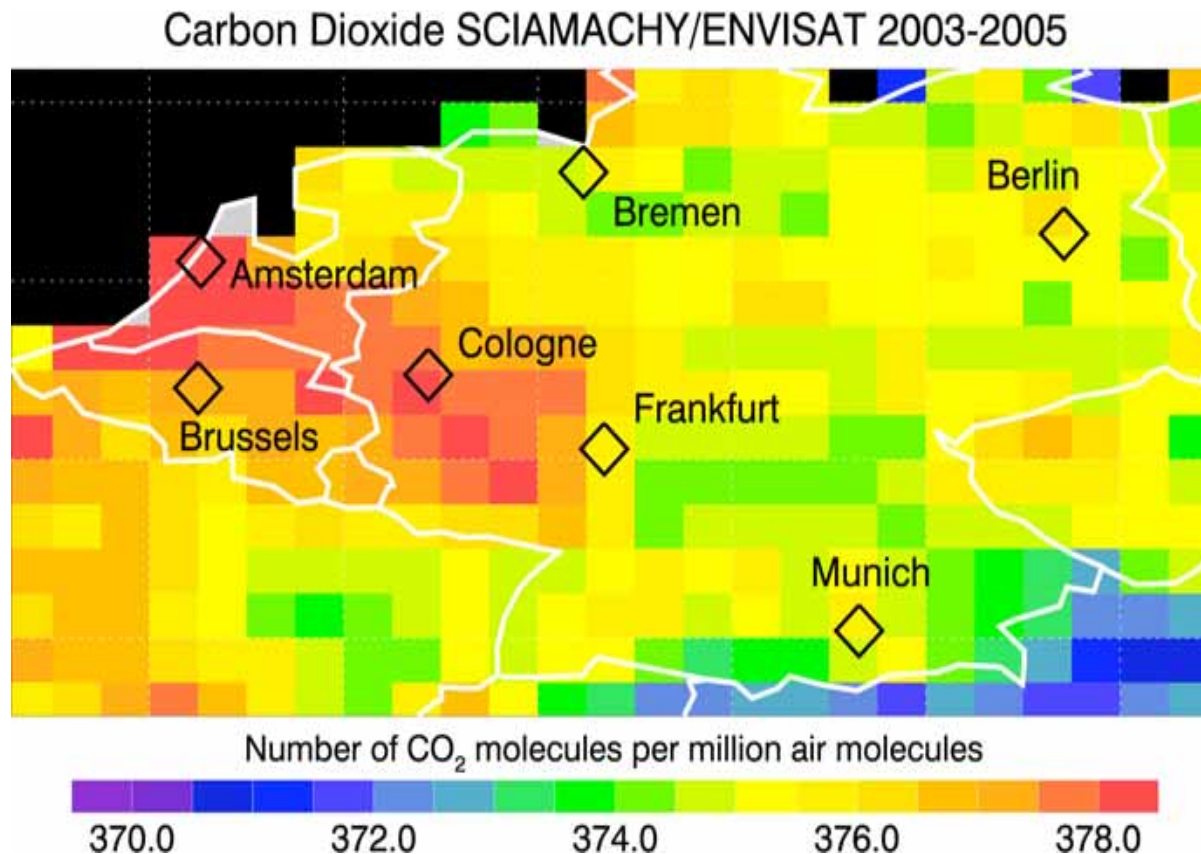
- Real Time Highway Air Quality (Health Index)





## Examples of Products and Services:

- Green House Gas emissions





## Environmental Partnership

We work in close cooperation and partnerships with international and national governmental, non-governmental and private organizations:

**NASA**  
**European Space Agency**  
**German Aerospace Center**  
**Royal Netherlands**  
**Meteorological Institute**

**Canadian Space Agency**  
**Natural Resources Canada**  
**Environment Canada**  
**Health Canada**  
**Transport Canada**

**Ontario Ministry of the Environment**  
**University of Ottawa**  
**University of Alberta**  
**University of Toronto**  
**University of Waterloo**  
**City of Ottawa**  
**Ottawa International Airport**





# Thank You

**Acknowledgements:**

**ESA PROMOTE and DUE programs**

**Daniel Spitzer**  
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