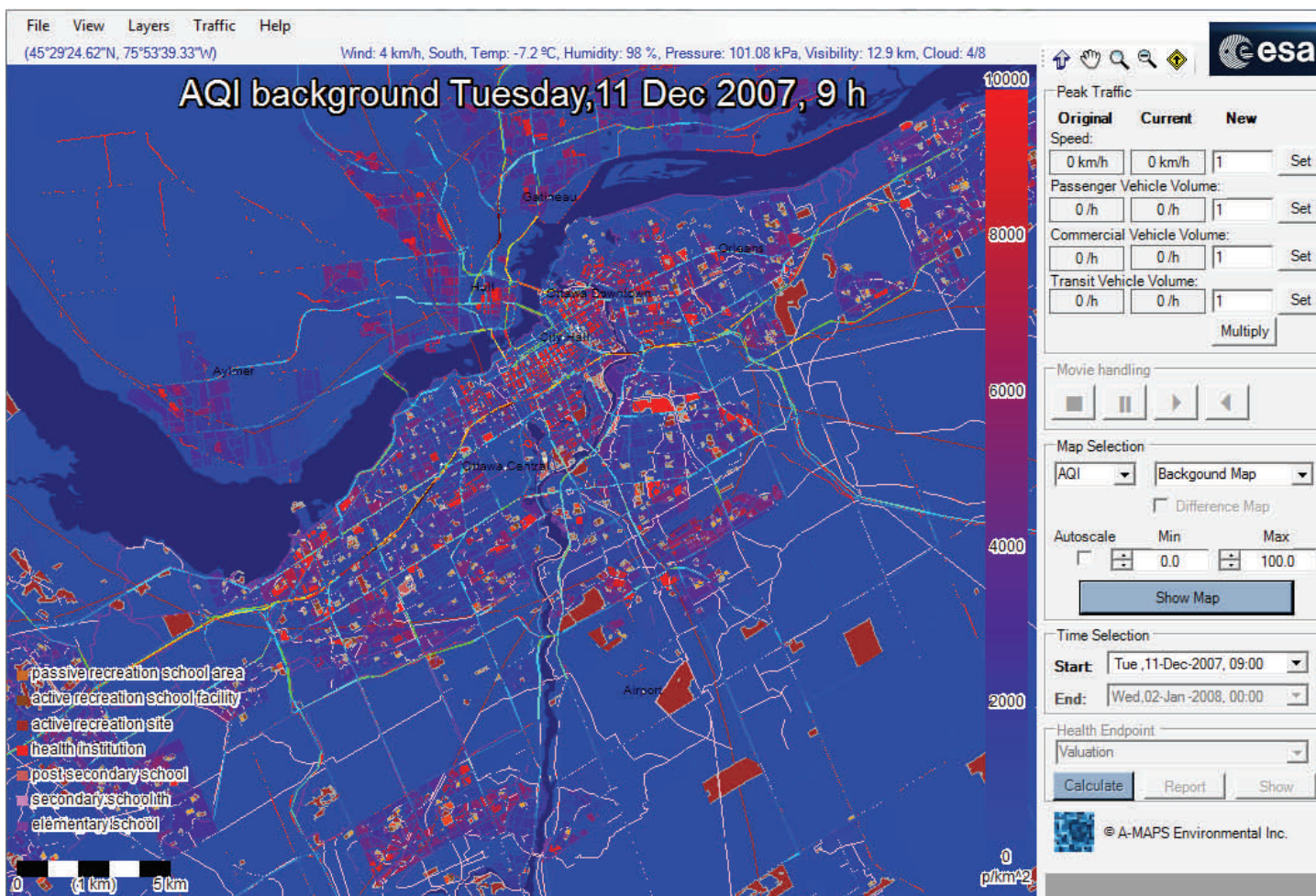


A-MAPS Environmental Inc.



Assessments of Air Pollution Health Impacts Interactive Graphical User Interfaces and Web Sites



A-MAPS Environmental and Risk Sciences International are introducing new interactive graphical interface enabling direct **assessments of impacts of urban road traffic emissions with respect to population health**. Different traffic control scenarios can be tested by modifying traffic volumes and speeds on selected roads or in entire neighbourhoods. Consequences of such changes in terms of air pollution and health impacts can be then reviewed and evaluated in mapping and tabular formats.

The interface can be installed as a stand alone application on a PC or hosted on a dedicated web site.

For information
please contact:

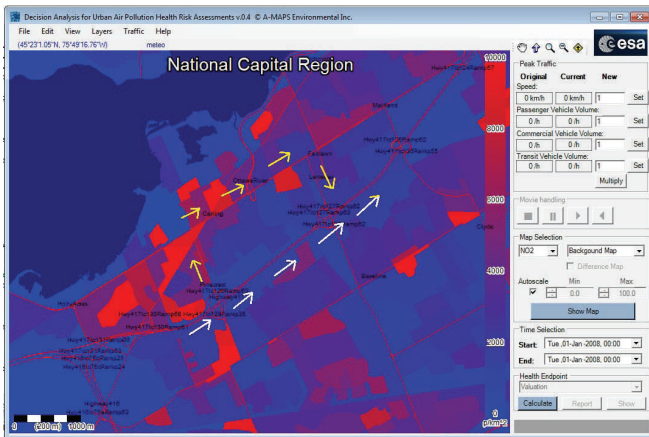
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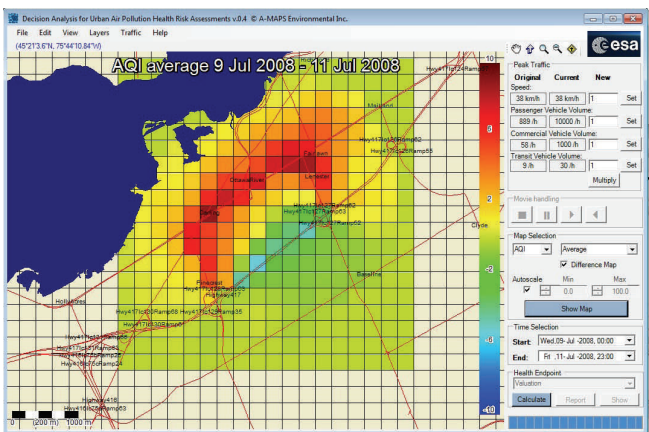


Assessments of Air Pollution Health Impacts Examples



Scenario: Highway closure and re-routing traffic through a residential area

The map shows population density (people/km²) in a residential area of West Ottawa including several public facilities (schools, sport, medical). Rerouting traffic is indicated by white and yellow arrows.



Increase of air pollution in the residential area

Change in the Air Quality Index in the neighbourhood is displayed. Pollutant concentration levels decreased (blue-green colors) in the vicinity of the closed highway section, but increased (yellow-red colors) along the roads to which the traffic was rerouted.

NewReport.csv - OpenOffice.org Calc

Endpoint Report

Dates: 9 Jul 08 to 11 Jul 08

| Endpoint | Cases | Valuation (\$) |
|-------------------------------------|-------|----------------|
| Acute Exposure Mortality | 0.03 | 160000 |
| Acute Respiratory Symptom Days | 220 | 3700 |
| Asthma Symptom Days | 15 | 970 |
| Minor Restricted Activity Days | 27 | 740 |
| Respiratory Emergency Room Visits | 0.07 | 180 |
| Respiratory Hospital Admissions | 0.01 | 92 |
| Adult Chronic Bronchitis | 0.04 | 17000 |
| Cardiac Emergency Room Visits | 0 | 21 |
| Cardiac Hospital Admissions | 0 | 19 |
| Child Acute Bronchitis Episodes | 0.2 | 91 |
| Chronic Exposure Mortality | 0.04 | 200000 |
| Restricted Activity Days | 47 | 2900 |
| Elderly Cardiac Hospital Admissions | 0 | 19 |
| Total Valuation | | 390000 |

Calculated increase of health risks and health care cost

Health risk modeling results in a report listing health impacts on the local population. The health benefits in the areas along the closed highway section are overshadowed by the adverse impacts on the population health in the densely populated residential area, where the pollutant levels have significantly increased.