



*Providing Hamiltonians with the knowledge and skills  
to enhance and protect the environment around them*

**Lynda Lukasik, PhD, MCIP RPP  
Executive Director**

***[www.environmenthamilton.org](http://www.environmenthamilton.org)***



The 114<sup>th</sup> Annual Audubon Christmas Bird Count will take place Dec 14, 2013 to January 5, 2014. **The longest running Citizen Science survey in the world**, Christmas Bird Count provides critical data on population trends. Tens of thousands of participants know that it is also a lot of fun. Data from the over 2,300 circles are entered after the count and become available to query under the Data & Research link.



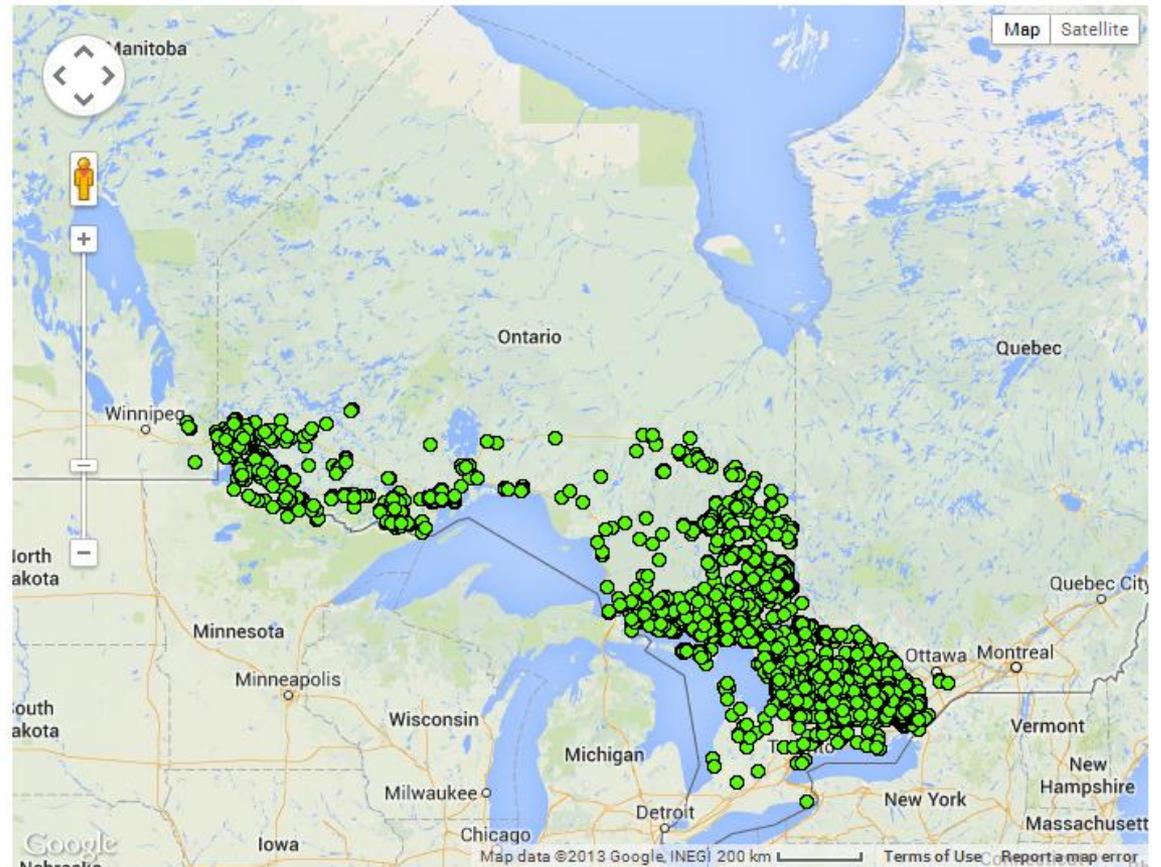
***The Voice for the World's Waters  
209 Waterkeeper Organizations  
23 Countries  
6 Continents***





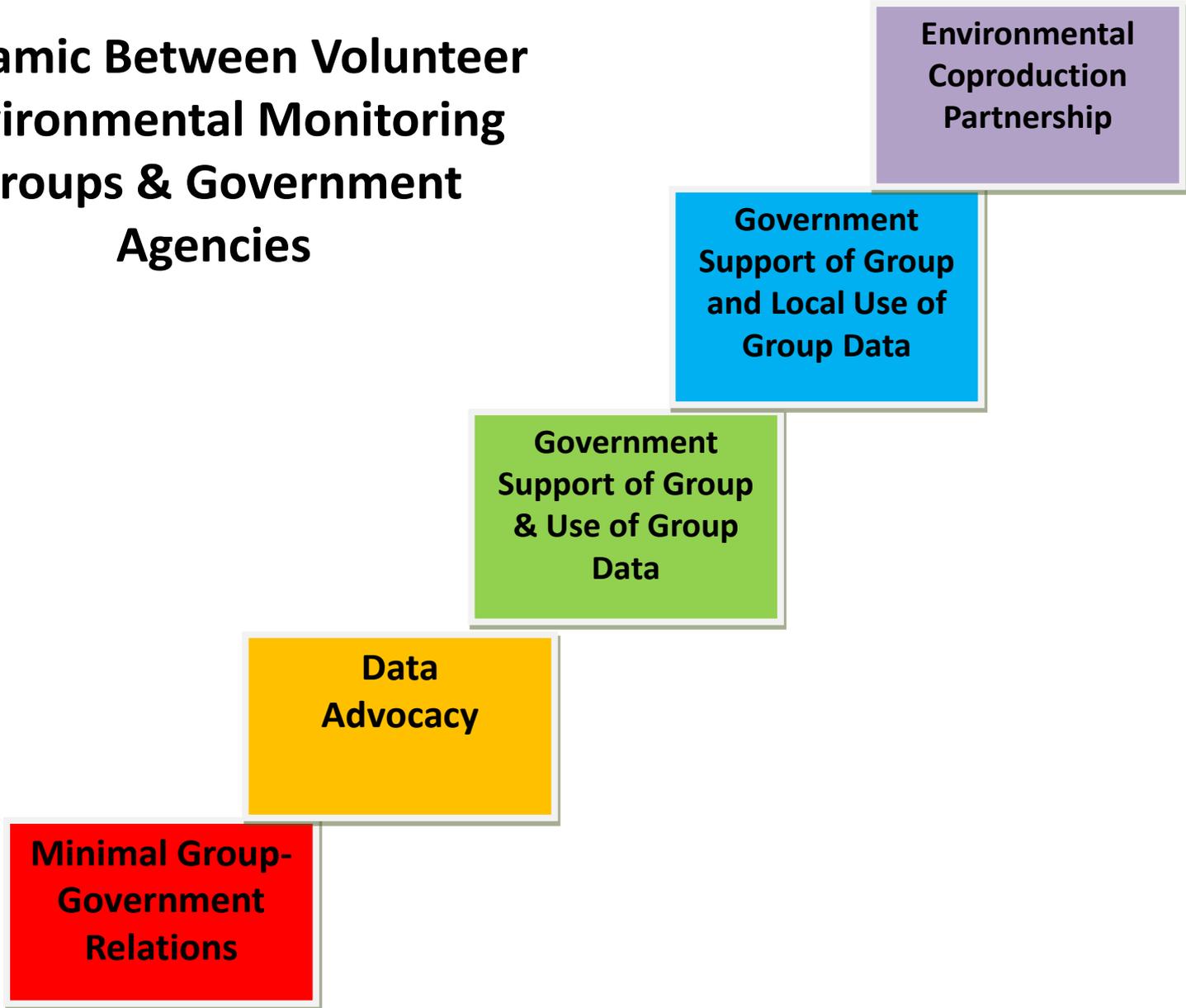
MINISTRY OF THE ENVIRONMENT

# Lake Partner Program



| GROUP TYPE                       | ROLES  |  | OTHER FEATURES  |   |
|----------------------------------|--|--|---|---|
|                                  | PREDOMINANT ROLE(S)  | SECONDARY ROLE(S)  | GEOGRAPHIC SCOPE  | AFFILIATIONS  |
| MONITORING NETWORK               | Information Collection   | Environmental Surveillance   | Large Area (ie. National or International)                              | Most commonly with government agencies  |
| ANNUAL MONITORING EVENT          | Information Collection   | Public Education   | Size of area monitored varies (ie. Regional, National or International) | One or more of:<br>-Government Agency<br>-Independent Research Organizations  |
| COMMUNITY-BASED MONITORING GROUP | One or more of:<br>-Information Collection<br>-Public Education<br>-Environmental Surveillance | One or more of:<br>-Information Collection<br>-Public Education<br>-Environmental Surveillance | Local Area (ie. A local watershed)                                      | One or more of:<br>-Government<br>-Universities<br>-Research Institutions<br>-Other Community Environmental Organizations |

# Dynamic Between Volunteer Environmental Monitoring Groups & Government Agencies



## **Coproduction :**

**....the productive involvement of citizens or citizen groups in the creation and delivery of local government services intended to raise the quality and/or amount of services provided.**

(Percy 1984, cited in Brudney 1987)

# **Emerging Technology and Citizen Science:**

*The shape of things to come.....*



# Group Against Smog & Pollution

Pittsburgh, PA



Mini GPS Unit



Mobile AQ  
Monitoring Unit