



Air Quality Monitoring Roundtable Summary of Hoped for Outcomes



Air Monitoring Network

- Provincial Air Monitors – 40 sites; 14 in GTHA; Few mobile monitors
- Municipal: Short term studies; neighbourhood studies; Halton Region air quality monitor (Milton); Hamilton Air Monitoring Network; Air Quality Modelling; Air Quality Monitoring to Verify Models
- Good sense of ambient air quality for the region
- **Increased need to understand variation in air quality within the community**





Air Monitoring Evolution

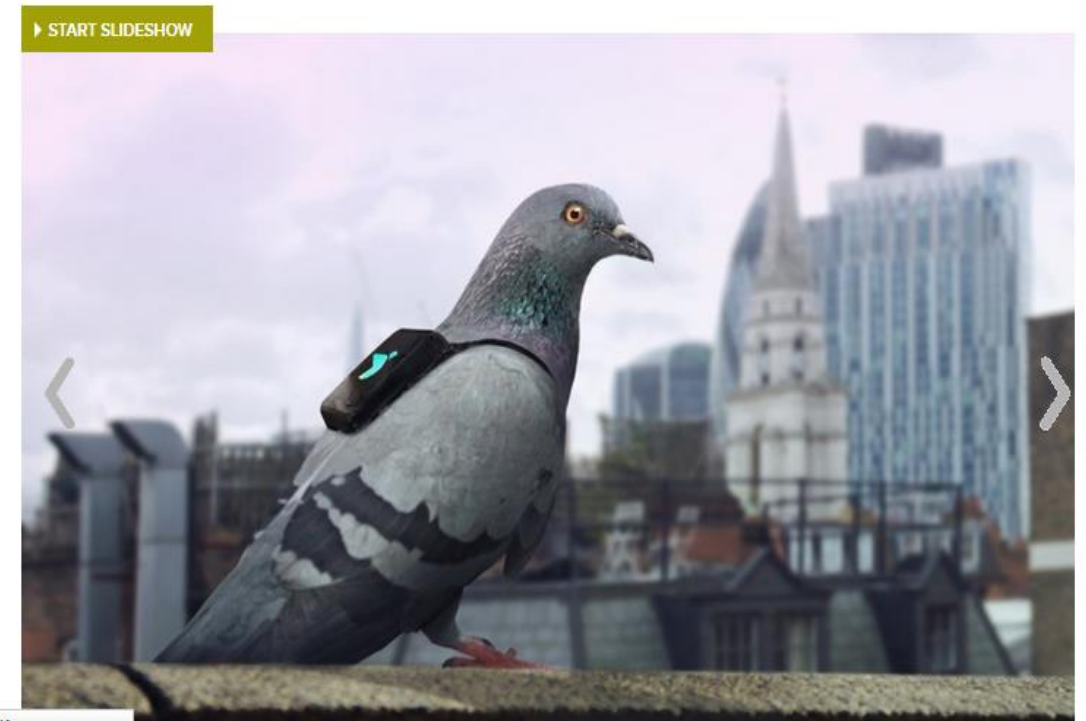
- Variability in reliability and accuracy
- Range of data availability
- Many can push data in real time
- No standard protocol for evaluation
- Not generally used in government decision making
- Prices range from about 3 – 5K and up.
- Wireless sensor networks or Wearable monitors
- Potentially Useful for: Supplementing stationary monitors; Specific source monitoring; Personal use; Informing debate; Citizen science



Main feedback from AQM RT

- Monitoring must be accompanied by precise source appointment to create change
- Next gen monitors might help us understand impacts of site specific LU/T decisions
- Quest for perfect data may impede action
- Action is deficient because this poor air quality is not a resonant political issue
- Collaboration essential in achieving progress

Pigeons with backpacks are tweeting about London's notorious pollution





Air Monitoring's Next Objectives

- Understand the variation in air quality within urban areas
- Increase awareness and engagement among the public and key target audiences
- Evaluate the effectiveness of smaller scale interventions on improving air quality
- Gather information on present and future air monitoring actions being undertaken
- Solicit interest in continuing the collaboration and the format it should take



AQ/GHG Equipment Market Valuation

2016	\$5.16bn
2019	\$8.01bn

Drivers: increased health concerns and government pollution control norms

Barriers: high cost of equipment and lack of government funding for research

Source: M&M (2016)



Where Next?

- Hoping to gather intel on interest in (as well as the feasibility of) developing a project that would develop an air monitoring/modelling framework/methodology that would enable various stakeholders to measure the results from air quality interventions in a consistent way that would enable the comparison across interventions.
- **Is that feasible?**
- **Is that of interest?**
- **If so what kind of interventions would be of interest to monitor? Road closings, parks versus arterials, intersections, land use policies (set backs), others???**
- **Other objectives that should be on the radar?**
- **If there is interest, who needs to be involved? Would likely benefit from an academic partnership?**
- **Next Steps?**



Thank You

Kevin Behan

kbehan@cleanairpartnership.org

416.392.0254

Gabriella Kalapos

gkalapos@cleanairpartnership.org

416.338.1288