

# **Connected Vehicles and Smart Transportation**

# **Incentive / Objective**

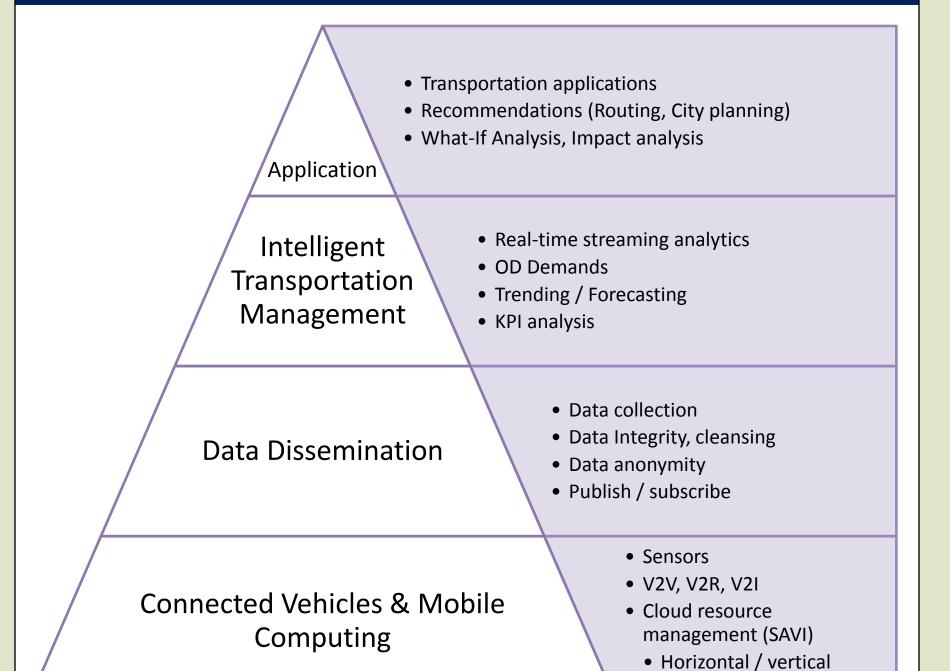
### Challenges in Toronto

- Largest Canadian city
- Fourth largest in North America
- Average 83 hours annual delay per person in Toronto (2013)
- Congestion cost may be up to \$11 billion
- 2,000 signalized intersections
- 20,000 street intersections
- 55,000 accidents per year
- 2.5 million TTC trips daily
- 2.4 million commuters (70 % car)
- Up to 30% cyclists and rising

## Goals

- Understanding current situation and what exists
- Understanding what we can use
- Understanding what to plan for
- Collecting, analyzing, and maintaining
- Planning (tactical / strategic) to control congestion
- Urban planning
- Multi-modal travel itinerary

## **CVST Hierarchy of Needs**



scaling

