

# Turning Challenges into Opportunities for TDM and Parking



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# Setting the Stage



- **Population Growth**

- Canada growing from 33M to 36-42 M by 2031
  - Guelph growing from 120,000 to 165,000
  - 2.4 cars per household
- Urban density versus Sprawl
  - Climate Change
  - \$2.25/L gas (projected 2012)

# Setting the Stage



- *Population Growth*
- **Urban density versus Sprawl**
- **Climate Change**
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# Ontario Places to Grow Act

- Promotes placement of population growth within existing built boundaries
  - Minimize greenfield development
  - Promote urban density goals
  - Energy conservation (e.g. utilities, transportation)
  - Walkable communities (transportation planning)



# Other Provinces

B.C. has planning policy recommendations to:

- “Avoid urban sprawl”
- “Settlement patterns that minimize the use of automobiles and encourage walking, bicycling, and the efficient use of public transit”
- “reducing pollution”
  - Section 849(2)

# Setting the Stage



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# Climate Change



- Canada is currently 35% ABOVE its Kyoto target of -6% below 1990 levels
- Next round of negotiations for 2012 and onward is sure to produce stricter targets for industrialized nations
- Transportation emissions account for about 1/3 of Canada's total GHG emissions by sector (Environment Canada)

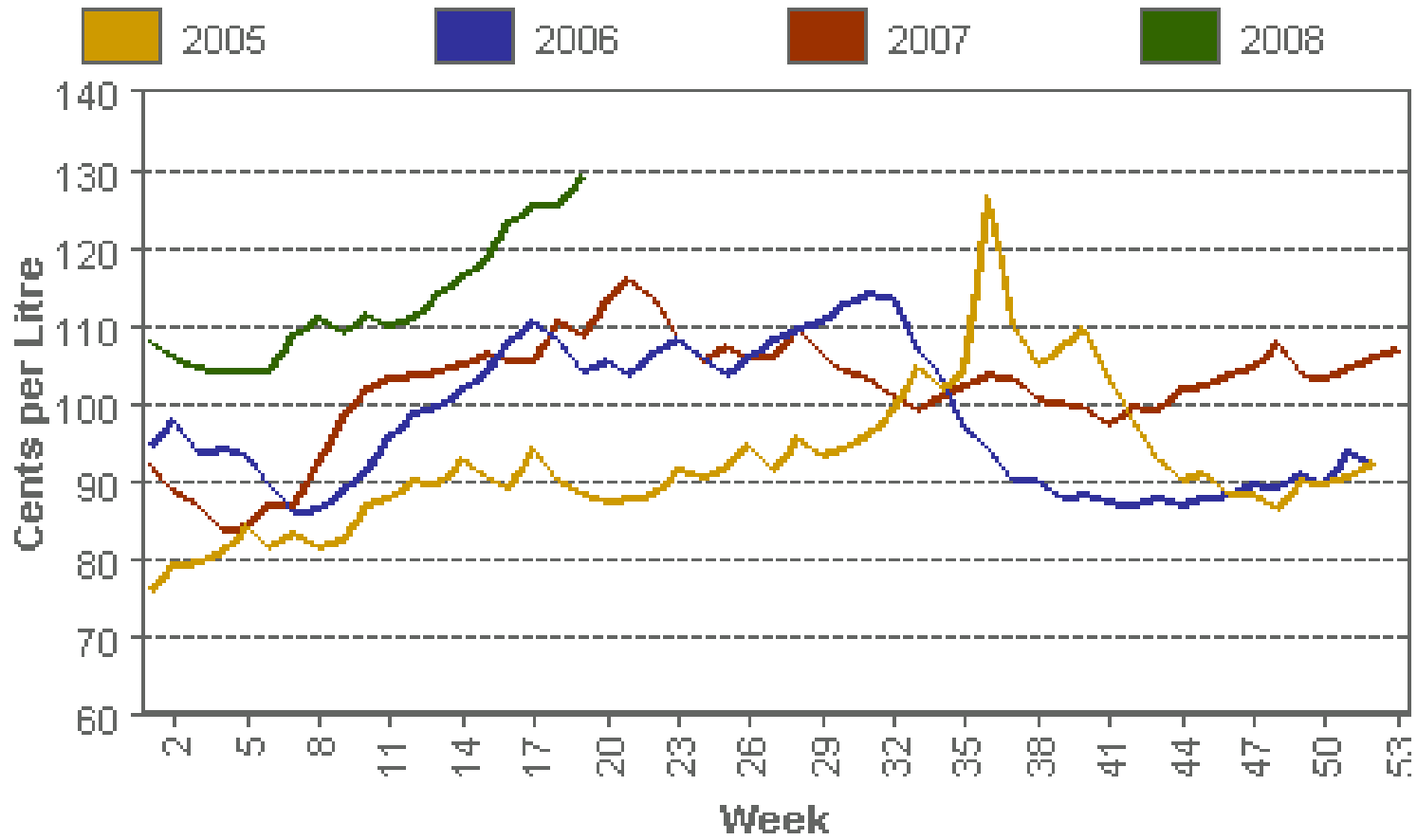
# Setting the Stage



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# Fuel Prices



# Transportation Demand Management



- The practices and policies that encourage alternative transportation and discourage single occupant vehicle use.
- Includes providing incentives and disincentives
  - E.g. discounts for carpoolers, parking pricing to discourage unnecessary driving

# Parking Challenges

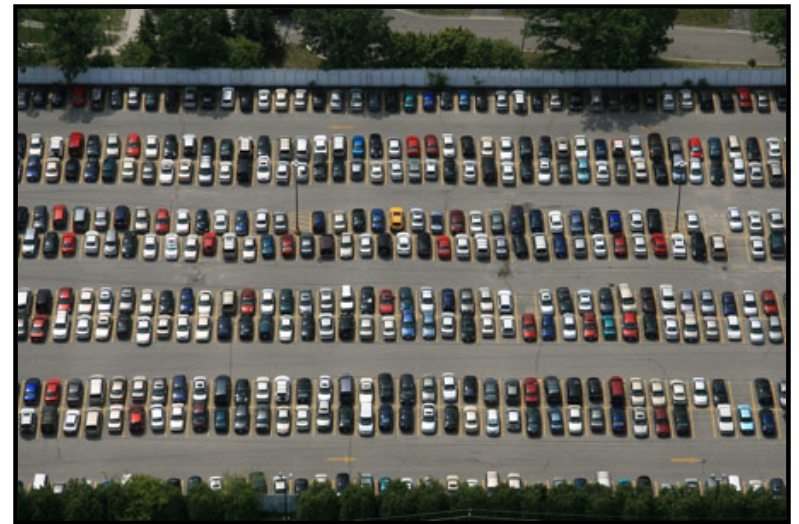


- Municipal challenges versus private sector challenges
- Who pays? What strategies are available?

# Municipalities/Public Sector



- Cost, space, and demand –
- How do you provide enough parking but not too much?



- How do you price downtown parking for the maximum economic and community benefit?
- On street parking versus off-street parking?



# TDM Strategies for Public Parking

## Trip reduction strategies

- Carpooling/ Car Sharing
  - Reserve prime parking spots for carpool or car share vehicles
  - Provide parking pricing incentive (e.g. discounted rate, gas coupon, etc)
- Active Transportation
  - Walking/Cycling
  - Providing amenities in parking lots

# TDM Strategies for Public Parking

## Pricing strategies

- Rate differentials to encourage long-term parking
- Encourage periphery parking (park farther from destination and walk)
- Encourage carpooling or car shares by offering discounts or price incentives
- What about 'enviro-friendly' vehicles?



# TDM Strategies for Public Parking

## Design Standards

- Minimum number of parking spaces
- Pedestrian-friendly and cyclist-friendly parking facilities
- Parking at rear to make buildings approachable, and provide more 'eyes on the street'



# Downtown Guelph



- 1800 spaces for general public
- Uses of lots vary from primarily commuter lots to primarily day-trips/visitors/shopping lots
- Approaching 70% occupancy
- Limitations to height and size of parking structures under the downtown urban design policies
- Cost per parking space = approx \$30,000 for the proposed Wilson St. garage



# Downtown Guelph



- 25% off for carpools and car shares
- Bicycle parking in parking facilities
- Preferential parking for carpoolers
- Angled parking downtown on Carden and Wilson streets

# Parking Challenges: Private Sector



- Cheap to build, pricey to maintain
- Where do you grow?
- What strategies are available?

# TDM Strategies: Private Parking



- Trip reduction strategies
- Encourage carpools and car shares
- Design standards – amount and location of parking
- Park-share
- Parking cash-out

# University of Guelph

- 250-400 spaces available daily
- Objective to reduce the # of Single Occupancy Vehicle trips and parking spaces
- Parking pricing system to discourage unnecessary driving to premises
- Parking revenues supports TDM improvements (sidewalks, bike lanes, landscaping, etc)



# More Info

Victoria Transport Policy Institute  
[www.vtppi.org](http://www.vtppi.org)

Urban Transportation Showcase Program  
<http://www.tc.gc.ca/programs/environment/UTSP/menu.htm>

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**Thank you!**