Child- and Youth-friendly
Land-use and Transport
Planning Guidelines

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(In April 2006, the Centre moved from Toronto, Canada, to the University of Winnipeg)

Presentation at a Congressional Briefing on the topic
'Healthy Communities for Young and Old:
How Transit and Better Community Design
Help the Most Vulnerable Generations'
organized by the
Environmental and Energy Study Institute
and held at
2167 Rayburn House Office Building, Capitol Hill, Washington DC
May 1, 2006, 1:30-3:00 p.m.
“One common measure for how clean a mountain stream is to look for trout. If you find the trout, the habitat is healthy.

“It's the same way with children in a city. Children are a kind of indicator species.

“If we can build a successful city for children we will have a successful city for all people.”
Why develop Child- and Youth-friendly Land-use and Transport Planning Guidelines?

- Concern about the health impacts of transport on children and youth, when travelling and when not travelling (Dr. Frumkin)

- Concern that the number of journeys made by young people in automobiles has been increasing dramatically.

- For example, on school-days in the Toronto region, 11-15 year-olds made 83% more such trips per capita in 2001 than in 1986. Car trips by adults increased by 4% during the same period (TTS Survey).

- 55% of the young people’s new trips by car replaced trips to and from school done by walking, bicycling or transit. 45% were new trips, mostly for after-school activities.

- Nevertheless, in 2001, on school-days young people were still making a fifth or all transit trips and half of walking and bicycling trips.

- U.S. data (National Household Travel Survey) suggest that young people make even more car trips at weekends than on school-days.
The Guidelines

- The next 10 slides show, for reference only, the seven categories of Guidelines that were developed and all 27 Guidelines.

- Then, the rationale for some of the Guidelines will be elaborated.

- Finally, current and proposed actions with respect to the Guidelines will be set out.
Seven guideline categories

- Putting children and youth first
- Providing for children and youth as pedestrians
- Providing for children and youth as cyclists
- Providing for children and youth as transit users
- Concerning school buses
- Concerning children and youth in automobiles
- Reducing transport’s adverse impacts on children and youth
Putting children and youth first

Guideline 1. In transport and land-use planning, the needs of children and youth should receive as much priority as the needs of people of other ages and the requirements of business.

Guideline 2. Within each municipality designate a staff member (and perhaps also a council member) as responsible for bringing a children’s perspective to transport and land-use planning issues.

Guideline 3. As may be appropriate, establish or adapt one or more forums for children and youth to provide input as to the application of these guidelines.
Providing for children and youth as pedestrians

Guideline 4. Identify where children and youth want to go or need to go and, to the extent possible, provide ways of getting there by foot.

Guideline 5. Explore pedestrian routes used or to be used by children to ensure that they are as usable by them as possible.

Guideline 6. Explore pedestrian routes to be used by children to ensure that they are as safe for them as possible.
Providing for children and youth as pedestrians 2

Guideline 7. For younger children, arrange walking buses and other means of supervision.

Guideline 8. Separate sidewalks used by children and youth from heavily trafficked roads, particularly where traffic moves slowly or vehicles are stationary with engines idling for long periods.

Guideline 9. Ensure that sidewalks are always cleared of snow.
Providing for children and youth as cyclists

Guideline 10. For older children and youth, ensure that destinations that cannot be a walk away are no more than a bicycle ride away.

Guideline 11. For younger children, ensure that sidewalks are suitable for their tricycles and bicycles.

Guideline 12. For destinations to be reached by bicycle, provide separate bicycle paths, or install bicycle lanes on regular roads.
Providing for children and youth as cyclists 2

Guideline 13. Ensure that bicycle riders are well provided for at intersections and have sufficient priority for forward movement.

Guideline 14. At destinations, provide secure, convenient bicycle parking.

Guideline 15. Encourage the carriage of very young children on bicycles, in appropriate seats or attachments.
Providing for children and youth as transit users

Guideline 16. Ensure that every part of a transit system is safe and welcoming to a child, and affordable.

Guideline 17. Avoid transfers by routing vehicles where children want to and need to go; make transfers easy where necessary.

Guideline 18. Keep fares for children low, so as to encourage their use of transit systems, with or without supervision.

Guideline 19. Examine every aspect of the system from the perspective of a parent with a child in a stroller, and make adjustments to meet such a traveller’s needs.
Concerning school buses

Guideline 20. Reduce the time children spend in school buses to a maximum of no more than 40 minutes per day.
Concerning children and youth in automobiles

Guideline 21. Where destinations cannot be reached by foot, bicycle or transit, ensure nevertheless that they are as near as possible to reduce in-car time.

Guideline 22. When children must travel in vehicles, act to avoid poor in-vehicle air quality.

Guideline 23. Drive slowly, to be safe and to facilitate an interest in the passing show.
Reducing transport’s adverse impacts on children and youth

Guideline 24. Take all possible steps to reduce amounts of road traffic generally.

Guideline 25. In urban areas, post and enforce much lower speed limits.

Guideline 26. Use low-emission rather than regular diesel vehicles for urban transit or, where possible, electric vehicles.

Guideline 27. Where possible, encourage use of rail for freight, and use of electric vehicles, including hybrid vehicles, where road freight must be used.
How car travel varies with gross residential density, 52 urban affluent regions, 1995 (note log scale for density)

Schematic relationship between vehicle speed and accident severity

# Traffic speed limits in Europe, and Ontario (kilometres/hour)

<table>
<thead>
<tr>
<th>Country</th>
<th>Residential areas</th>
<th>Traffic calming zones</th>
<th>School areas</th>
<th>Pedestrian streets</th>
<th>Fast urban roads</th>
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Transit use by children and youth

- Teenagers, in particular, can be major users of transit, but are often not welcome on transit systems for fear of rowdiness, vandalism, and unsafe behaviour.

- Younger children, even as young as 7 years, are capable of using transit, but the age at which young people are allowed to use transit has been increasing.

- Family transit use is a good introduction, but some systems discourage this by charging children adult fares.

- Transit use when young may be more likely to result in transit use as an adult.
Transit use by parents with very young children

What should NOT happen

What should happen
Providing for children and youth as transit users

Guideline 16. Ensure that every part of a transit system is safe and welcoming to a child, and affordable.

Guideline 17. Avoid transfers by routing vehicles where children want to and need to go; make transfers easy where necessary.

Guideline 18. Keep fares for children low, so as to encourage their use of transit systems, with or without supervision.

Guideline 19. Examine every aspect of the system from the perspective of a parent with a child in a stroller, and make adjustments to meet such a traveller’s needs.
Curb-side tailpipes pollute cyclists and pedestrians, particularly children

- Australian research has shown that curb-side tailpipes put 12 TIMES AS MUCH vehicle exhaust in the breathing spaces of adult pedestrians as off-side tailpipes.

- Children who are cyclists or pedestrians are typically closer to tailpipes than adults, especially if they are in strollers.

- A survey of vehicles in Toronto suggested that 68% of vehicles on the road have curb-side tailpipes.

- Manufacturers could be required to exhaust engine gases at least 1.5 metres (59 inches) from the near-side of a vehicle.
Curb-side tailpipes
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Providing for children and youth as pedestrians 2

Guideline 7. For younger children, arrange walking buses and other means of supervision (see rear end of a bus below)

Guideline 8. Separate sidewalks used by children and youth from heavily trafficked roads, particularly where traffic moves slowly or vehicles are stationary with engines idling for long periods.

Guideline 9. Ensure that sidewalks are always cleared of snow.
Children and bicycles
Providing for children and youth as cyclists

Guideline 10. For older children and youth, ensure that destinations that cannot be a walk away are no more than a bicycle ride away.

Guideline 11. For younger children, ensure that sidewalks are suitable for their tricycles and bicycles.

Guideline 12. For destinations to be reached by bicycle, provide separate bicycle paths, or install bicycle lanes on regular roads.

Guideline 13. Ensure that bicycle riders are well provided for at intersections and have sufficient priority for forward movement.

Guideline 14. At destinations, provide secure, convenient bicycle parking.

Guideline 15. Encourage the carriage of very young children on bicycles, in appropriate seats or attachments.
Above all, figure out where children and youth want to go and how they want to get there

- Require involvement of children and youth in land-use and transport planning.
- Provide continuous, easy routes to children’s and youths’ destinations.
Next steps

- Funds are available—from the Ontario Trillium Foundation—to promote the use of the finalized Ontario Guidelines by Ontario municipalities.

- Some endorsement of the Guidelines by the Government of Ontario is also anticipated.

- Funds are expected—from the federal government’s Public Health Agency of Canada—to develop versions of the Guidelines for each of the 10 Canadian provinces.

- Draft versions have already been prepared—with support from this Agency—for British Columbia and Nova Scotia.

- The present aim is to have one set of Guidelines for all Canada, but with different documents for each province, recognizing legislative and cultural differences.