Motorized Traffic and Health: Interventions to Mitigate its Impacts

CPHA
June 11th, 2012
Edmonton, Alberta
NCCHPP, one of six National Collaborating Centres for Public Health
A long project

Source: Wikimedia
Photograph: Richard Smith

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A long project

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Photograph: Jean Gagnon

Source: Archives Ville de Montréal
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Source: Wikimedia
Photograph: Jean Gagnon

Source: Boston Public Library
A long project

Source: Wikimedia
Photograph: Yellomonkey
... that has been very effective

20 million vehicles and 332 billion vehicle-kms travelled in 2007*

All trips exclusively by car: 74%**

At least one active trip in a day: 19%**

Workers’ trips by bike: 1.3%***

Modal shares in urban centres: 12% biking and walking****

*Natural Resources, Canada (2009)
**Statistics Canada (2008)
***Pucher (2011)
****Pucher and Dykstra (2003)
... that has created a lot of good
... that has produced a lot of employment in health and public health
that has produced interventions to mitigate its impacts

Source: Wikimedia
Author: Fgrammen
...that has produced interventions to mitigate its impacts

Source: Wikimedia
Photograph: Richard Drdul
...that has produced interventions to mitigate its impacts
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Source: Commune de Koeniz (Switzerland). On the left, a section of the through road/main street before the intervention. Passage priority is to motor vehicles and speed is limited to 50km/h. On the right, priority is to the pedestrian, one traffic lane has been withdrawn and speed is limited to 30km/h. This public way carries more than 20 000 vehicles per day.
Action on speed

Normalized speed: 50km/h and more
Action on volumes

Source: Wikimedia
Photograph: Floydian (talk)

Analysis: P. Morency, C. Plante, M. Fournier. Direction de santé publique de Montréal
Action on conflict points

Each intervention

Presentation

1. What is?
2. Effects on health determinants
3. Implementation conditions
4. Political dimensions

Workshop