## Through Road/Main Street Interventions

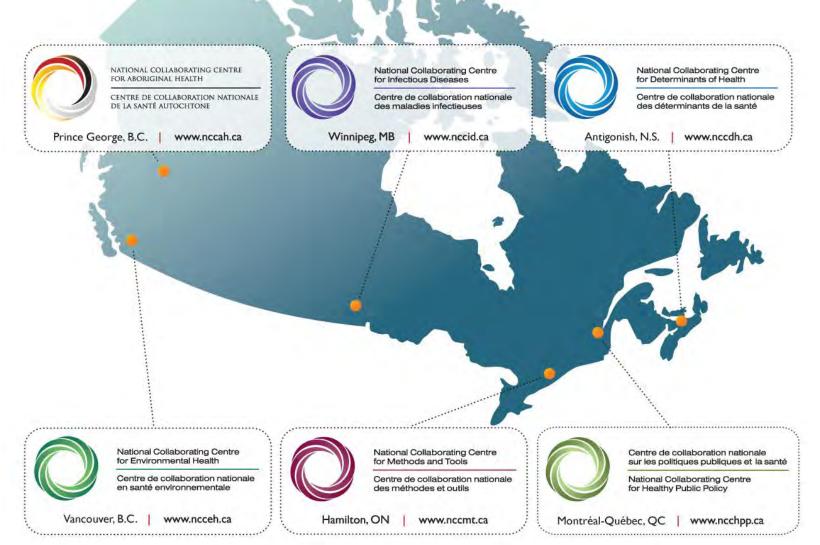
Not By Accident – London, ON. October 18, 2016

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## The National Collaborating Centres for Public Health



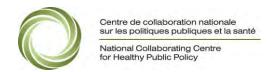
# National Collaborating Centre for Healthy Public Policy (NCCHPP)

#### Our mandate

Support public health actors in their efforts to promote healthy public policies

#### Our areas of expertise

- The effects of public policies on health
- Generating and using knowledge about policies
- Intersectoral actors and mechanisms
- Strategies to influence policy making





### Through road/main street interventions

#### Through Road/Main Street Interventions: Towards a More Balanced Coexistence Between Road Traffic and Life in Small Municipalities

March 2015

The term "through roads/main streets" refers to sections of public roadways that have a dual purpose, serving both as the main streets of small or medium-sized communities and as through-routes for motor vehicles. Due to a design that generally favours motorized through traffic, through roads/main streets negatively influence many health determinants. They increase the frequency and the severity of collisions, create noise pollution, decrease the use of active modes of travel, discourage social links (communities are "cut in half"), and so on.

The aim of this brief document is twofold. First, we want to familiarize public health actors with the interventions that can be made on through roads/main streets so as to mitigate their impacts on health. To this end, we will provide an overview of certain dimensions of practices and policies related to through roads/main streets, as well as evaluations of such actions. Secondly, we wish to suggest ways that those who are interested may strategically promote such interventions.

### What is a through road/main street intervention and why implement one?

The concept of through road/main street interventions refers to interventions affecting the design of public roadways and the land adjacent

roads/main streets illustrates this idea well:
"Trafic routier: oui à la cohabitation, non à la
domination" (road traffic: yes to coexistence, no
to domination).<sup>2</sup>

The objectives associated with these interventions are multiple, and vary from one intervention to another. The priority assigned to each objective also varies. Nevertheless, the aims almost always include improving road safety and reducing feelings of insecurity generated by motorized traffic flow. In many cases, aims also include reducing noise or vibrations, encouraging safe active transportation, and creating a more coherent urban environment, for example. Often, these interventions are also integral to strategies for revitalizing the social and economic core of the municipalities concerned.

#### In what contexts are such interventions carried out?

The years 1930-1940 marked the beginning of a dynamic of expansion of both the population and of territorial occupation, and the large-scale use of motor vehicles. The synergy of these trends led to an increase in distances travelled and in regional and supraregional motorized traffic. In response to these trends, the main streets of many municipalities were redesigned using a "road" design approach. That is, one focused on ensuring the fluid flow of motor vehicles crossing through towns at relatively high speeds. Other

NOLA
wledge relating to healthy public pol

### Plan

(1) What? Why?

(2) Evaluation results

(3) So what?



Source and credit: Commune de Köniz (Switzerland)



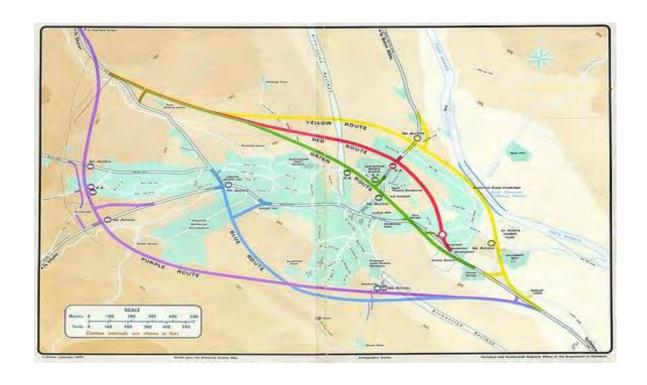
Source: Wikimedia Credit: Tomo\_suzuki



Source: Wikimedia Credit: Dr. Eugen Lehle



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Source: wikicommons Credit: Don Barrett

"Yes to coexistence, no to domination."



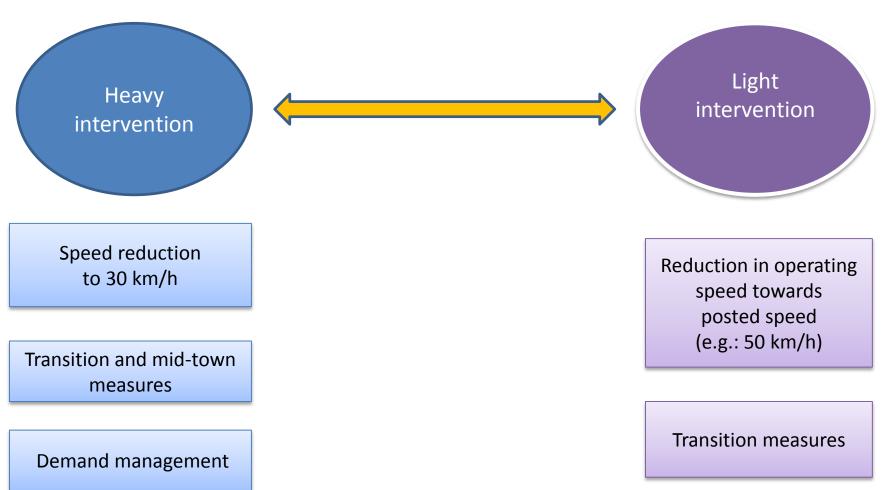
Source and credit: Commune de Köniz (Switzerland)





Source and credit: Commune de Köniz (Switzelrand)

https://www.youtube.com/watch?v=2OhRm2huqJk





Source: flickr.com

Credit: Jean-Louis Zimmermann



Proven highway safety countermeasure (FHWA)



Source: wikicommons Credit: Lionel Allorge



Source and credit: Dan Burden

Proven highway safety countermeasure (FHWA)





Source and credit Dan Burden



Source and credit: Dan Burden



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Proven highway safety countermeasures (FHWA)



#### Notes:

(1) Diversity of interventions

(2) Methodological limits

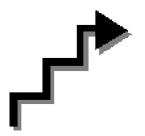
(3) Coherence with similar interventions

Speed

V85, average speed and speed variations



Travel time



#### Traffic flow

Exception: Köniz



Source and credit: Commune de Köniz (Switzerland)

Traffic flow

Level of service (congestion)



Annual average daily traffic (AADT)



Traffic volumes

Exception: Köniz

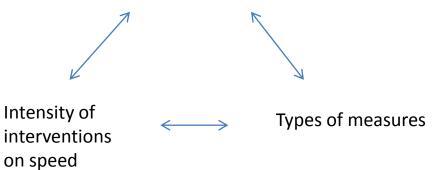


Source and credit: Commune de Köniz (Switzerland)

Collisions with material damage or with injuries and injury seriousness



Road safety



Ambient noise and noise emissions



### Noise



Rumble strips as transition measures

**Expectations** 

Perception of noise and of operating speed



Specific measures

Crossing or parallel travel



Uses and perceptions of the street and of its edges

Insecurity

Place conviviality

### So what?

Speed management: Road safety and more

Street/road design: difficult changes, easier changes

Thanks!

Inspiring examples to share?

You're interested in this topic?
Visit us at www.ncchpp.ca for more resources or contact francois.gagnon@inspq.qc.ca