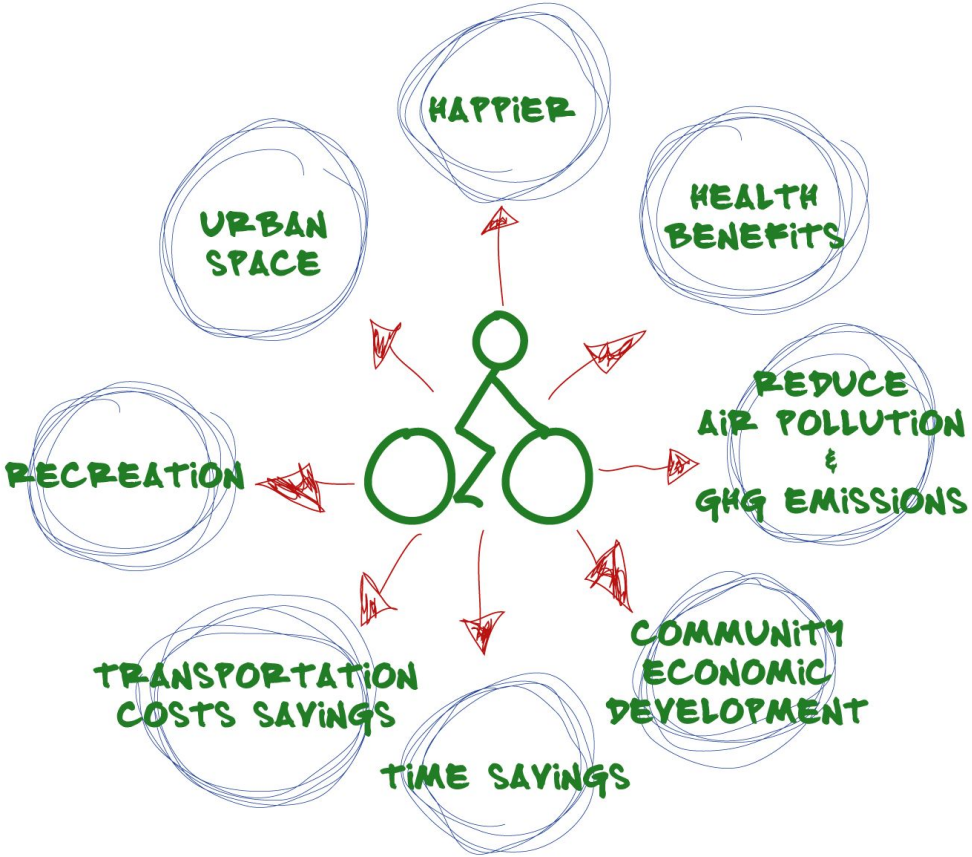
more people cycling

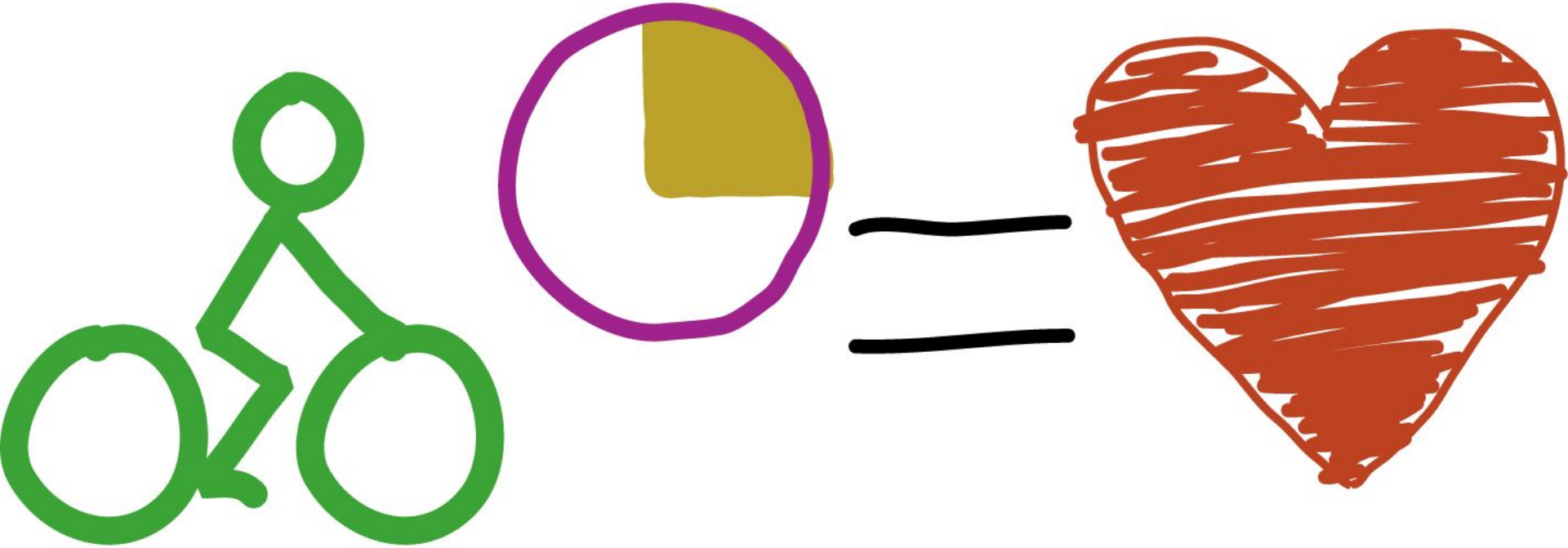
more places

more often


HAPPIER
HEALTH BENEFITS
URBAN SPACE
REDUCE AIR POLLUTION & GHG EMISSIONS
RECREATION
COMMUNITY ECONOMIC DEVELOPMENT
TRANSPORTATION COSTS SAVINGS
TIME SAVINGS

Health

Heart and Stroke Foundation (2013)

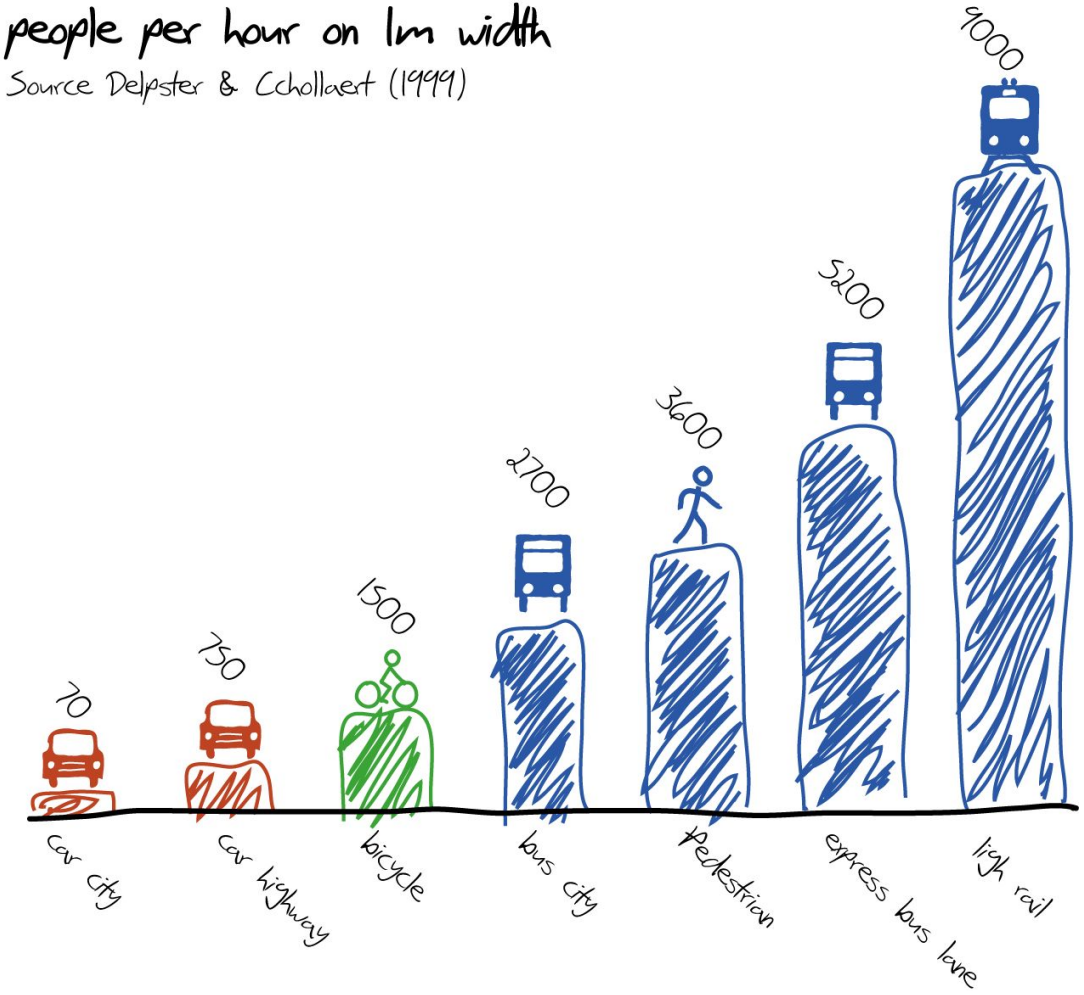


biking 3 hours a week can reduce risk of heart disease by 50% and save $300-$500 in medical costs.

Infrastructure Capacity

people per hour on 1m width

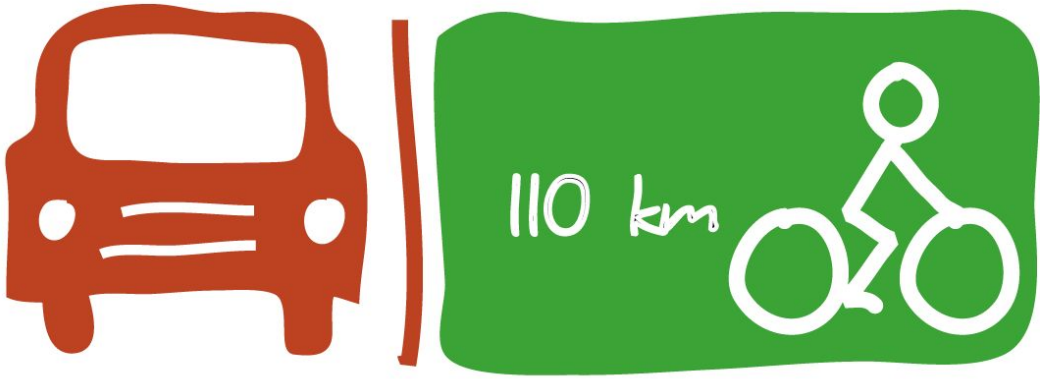
Source Delpster & Cchollaert (19999)



Infrastructure Cost

Department of Transportation Queensland (2013)

1 km urban road



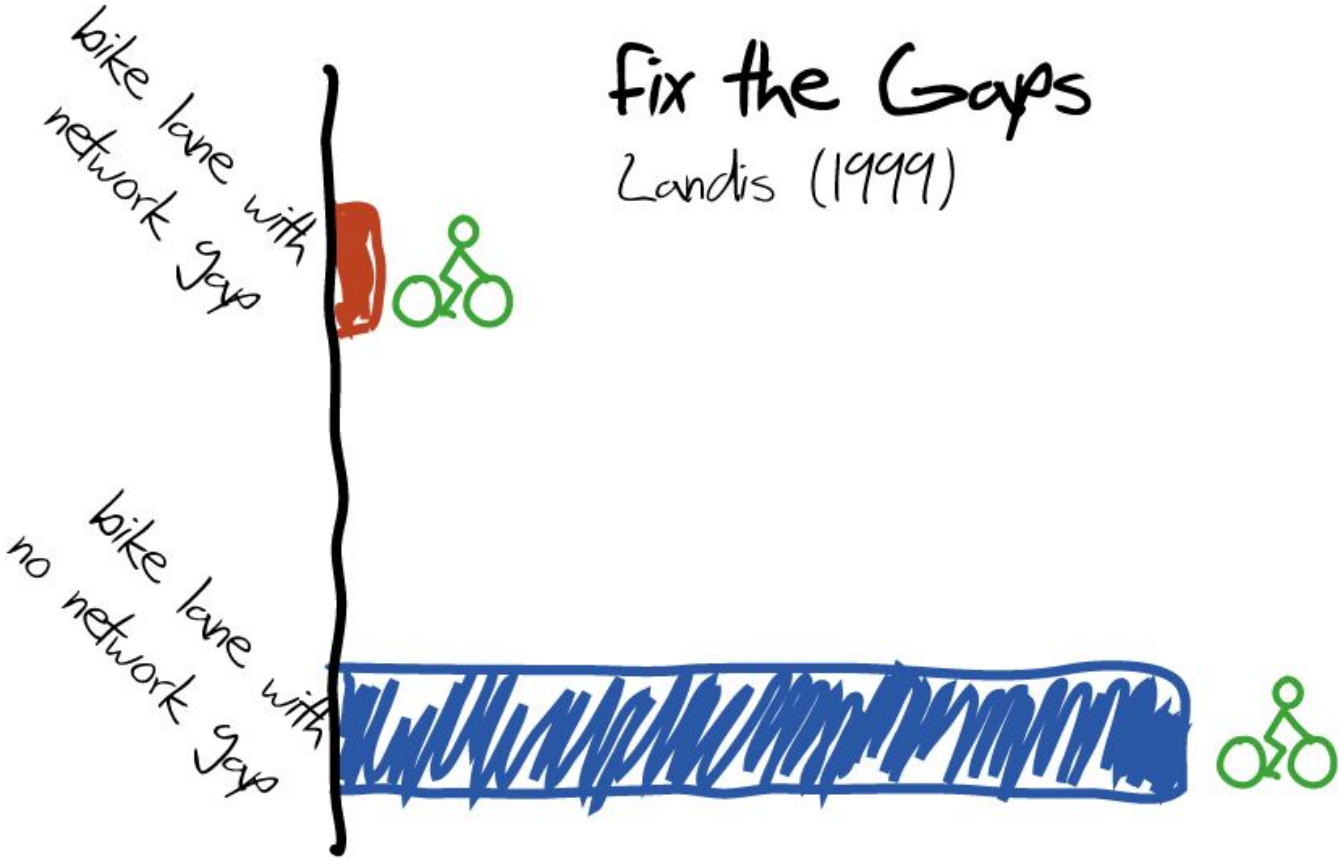
estimate based on average $1.5m for km of separated bike-way.

important characteristics of a cycling network

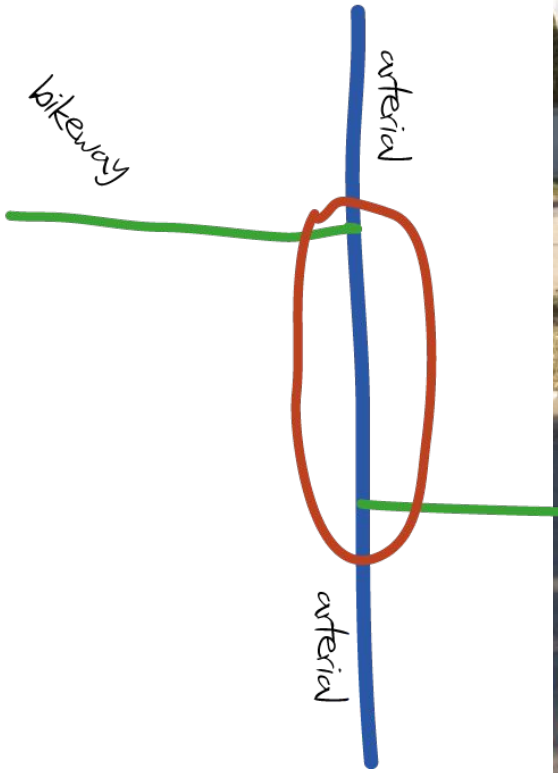
connectivity directness safety

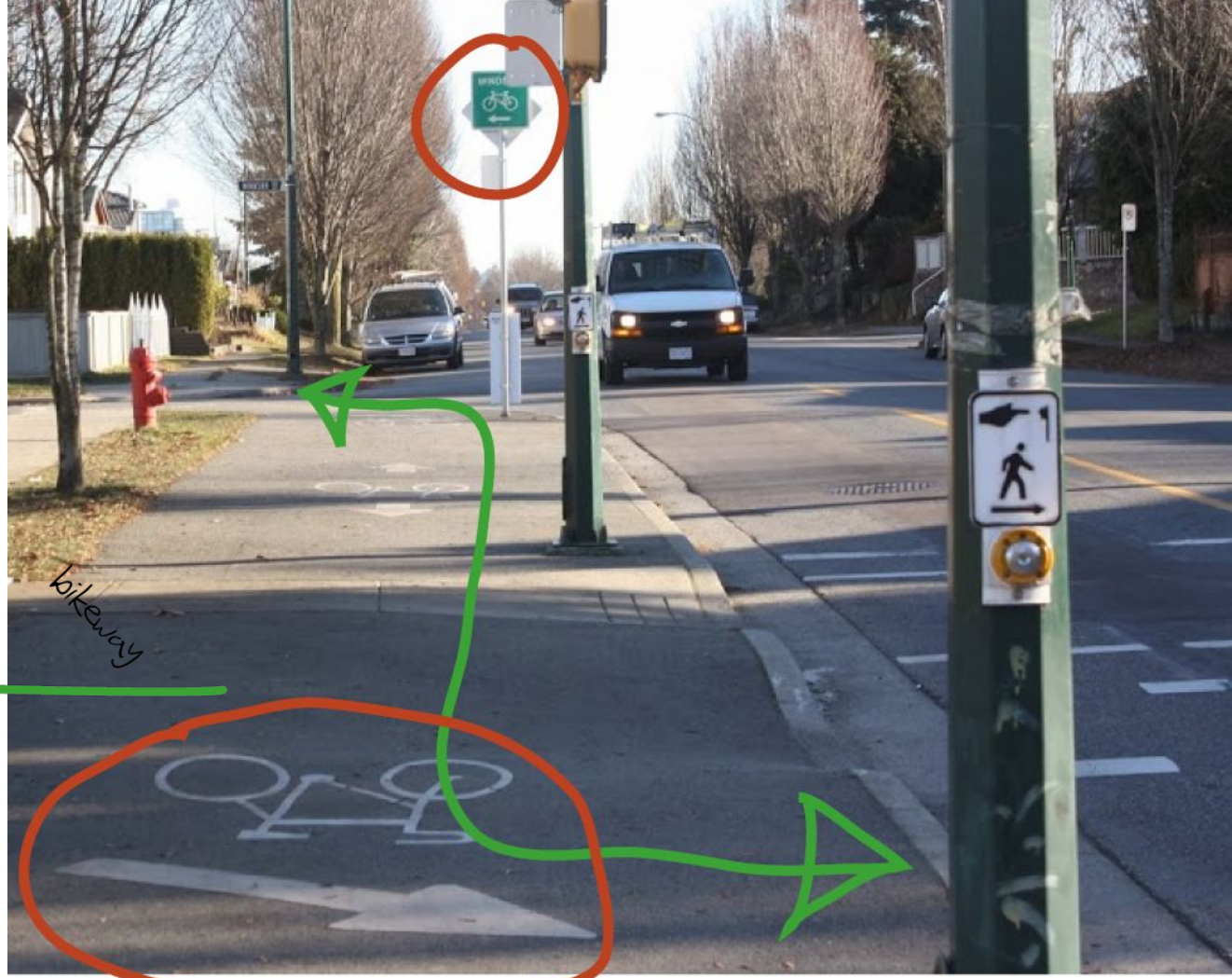
Fix the Gaps

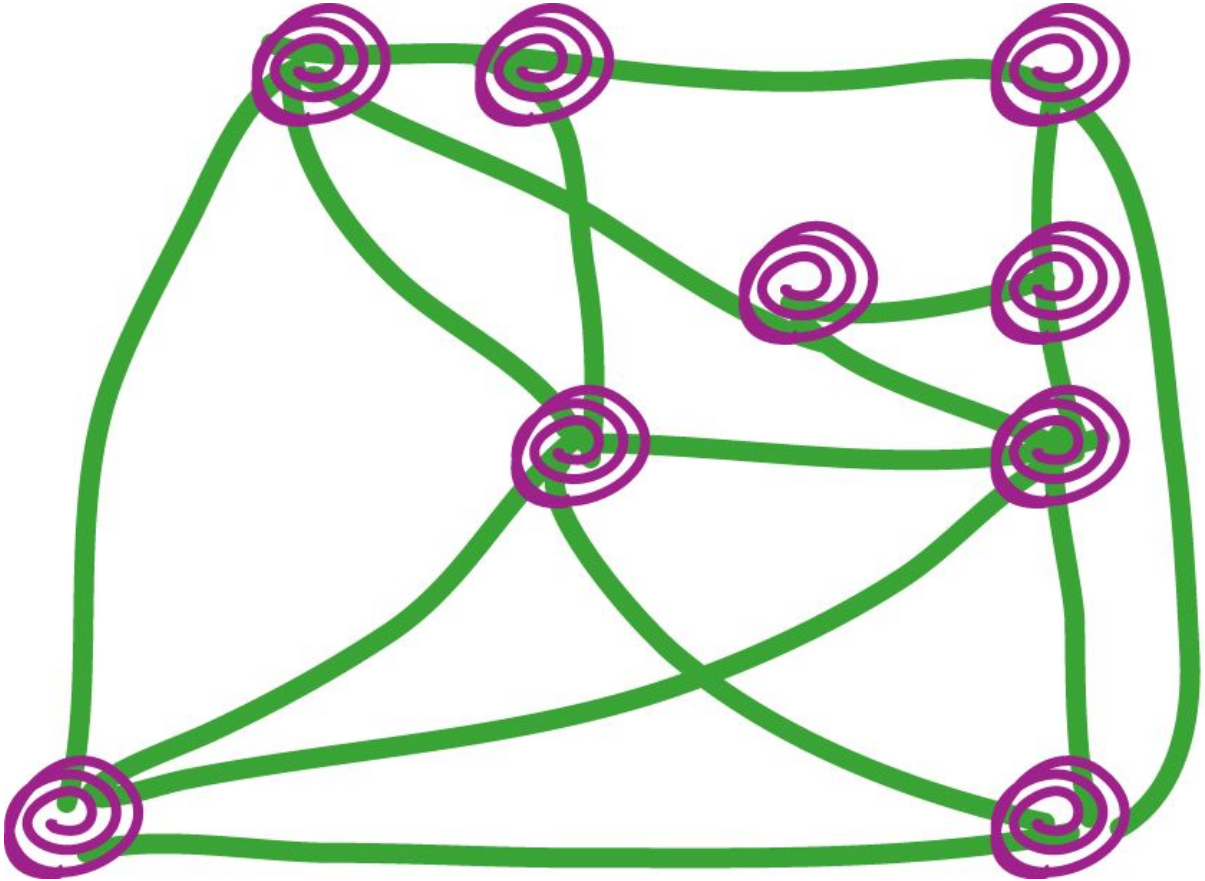
Landis (1999)



Connectivity





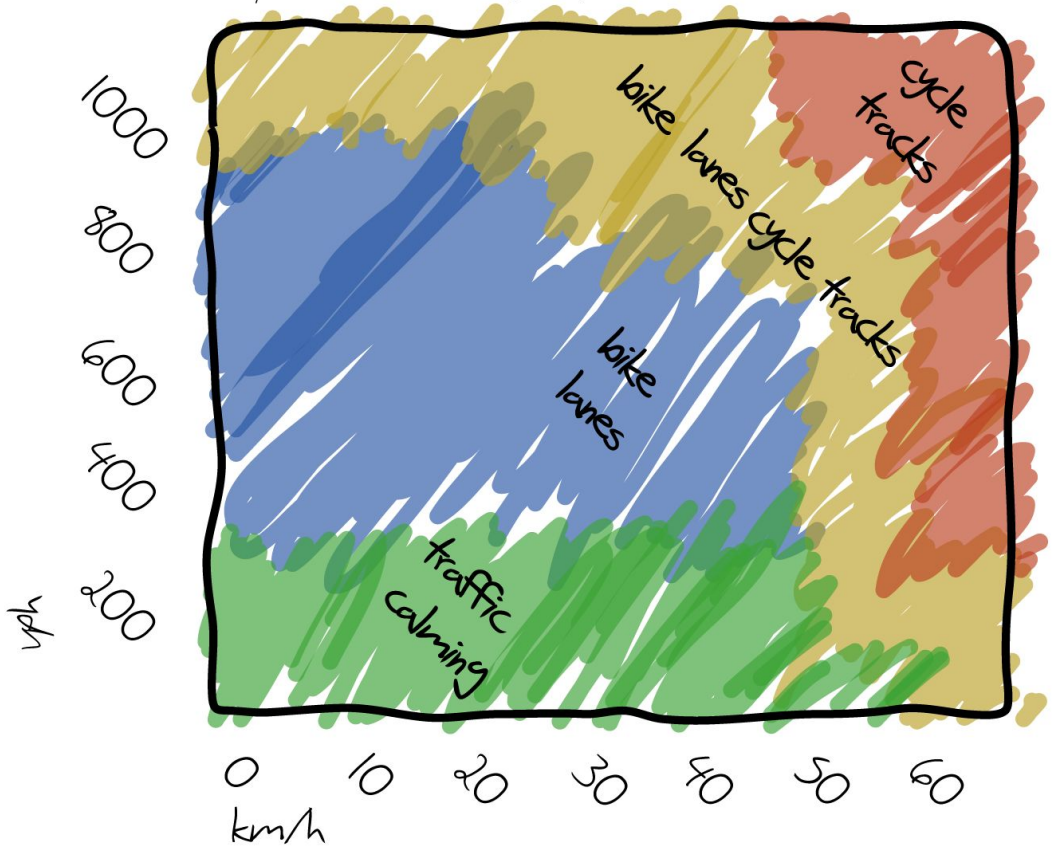


Multiple
Redundant
Connections

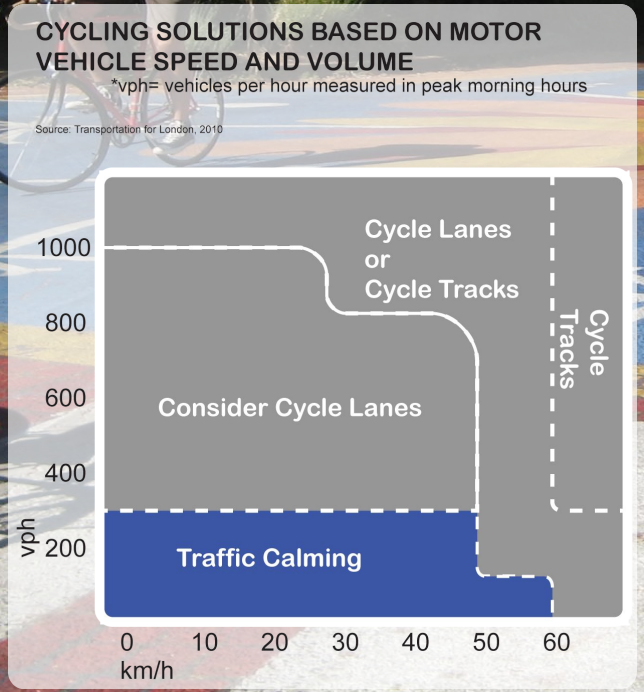
Cycling Solutions Based on Motor Vehicle Speed and Volume

vph=vehicles per hour peak morning

Source: Transportation for London (2010)



shared road facilities



shared road facilities

Anne Harris, Ryerson University
Cars traveling at 30km/h or less decrease the risk of injury by half.

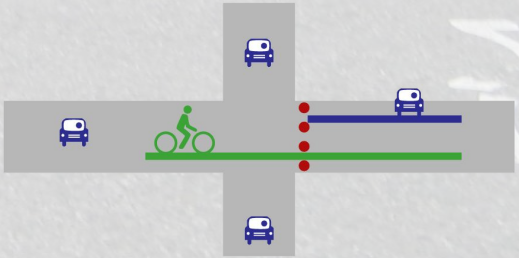
John Whitelegg, University of York
Speeds of 30km/h or less encourage more people to ride their bikes.

JK. Kim, Washington University
The commonly used speed limit in residential neighbourhoods at 30km/h is supported by decrease in sevier cycling injuries.

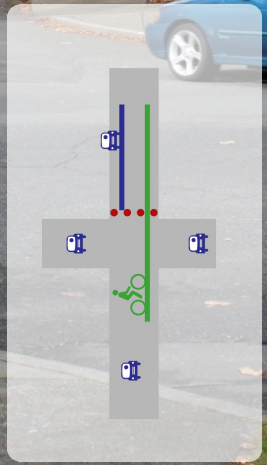
Restrict Movements

Restrict Movements

No Cars Go



No Cars Go



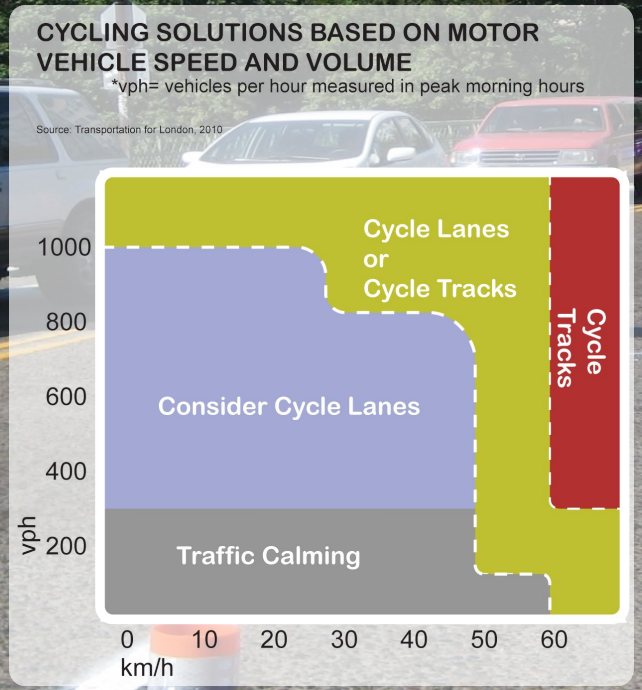
closure, no treatment

Closure, with paint!

Narrow Road Width

Narrow Road Width

separated facilities



Conventional Bike lane

Conventional bike lanes encourage lower motor vehicle speeds. May lower speeds by up to 15%

US Department of Transportation Federal Highways Administration, 2012

Cycle Track

The large number of cyclists attracted to these enhances the alertness of motorists.

Peter Furth, Professor of Civil Engineering, Northeastern University, College of Engineering, 2012

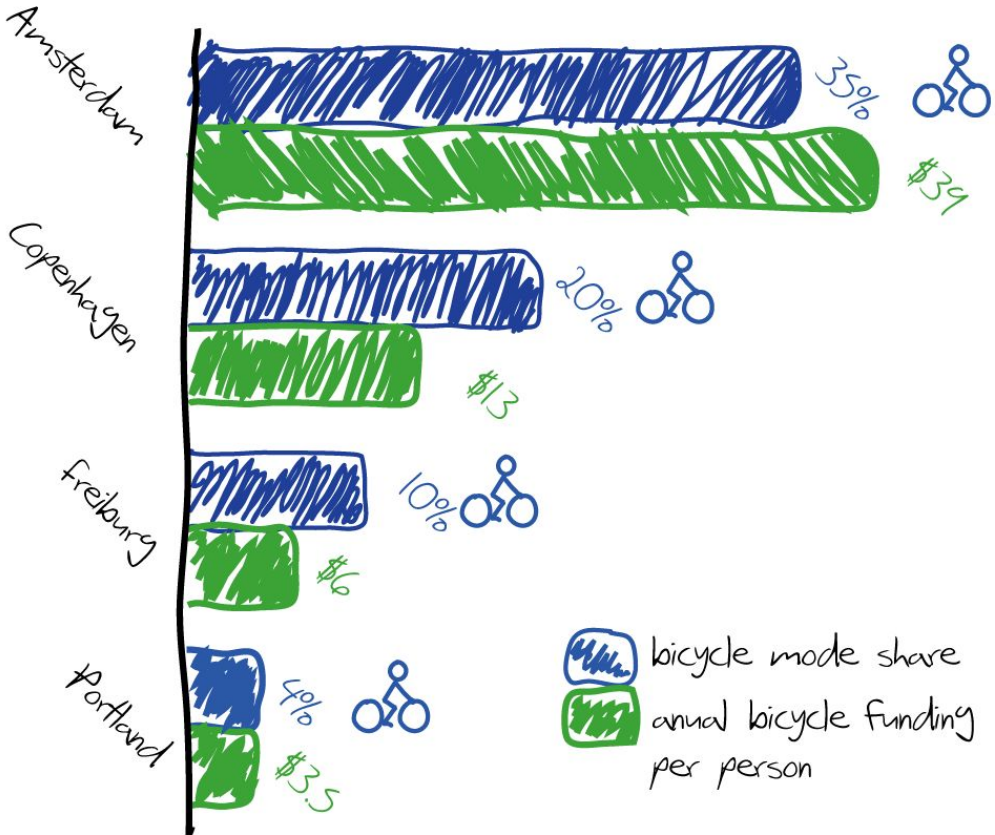

Cambie St

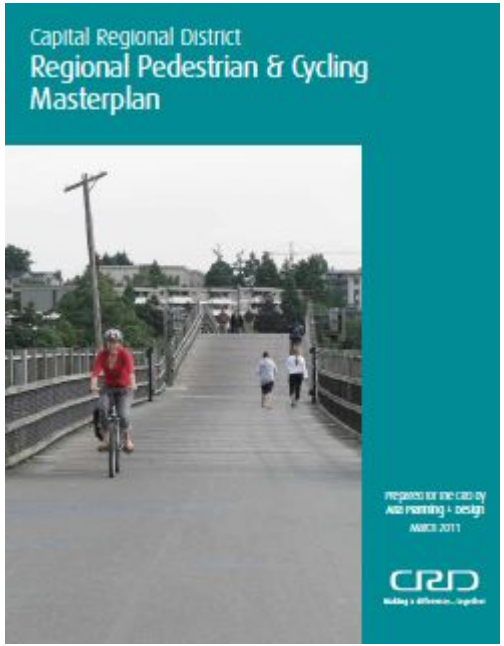
Intersections

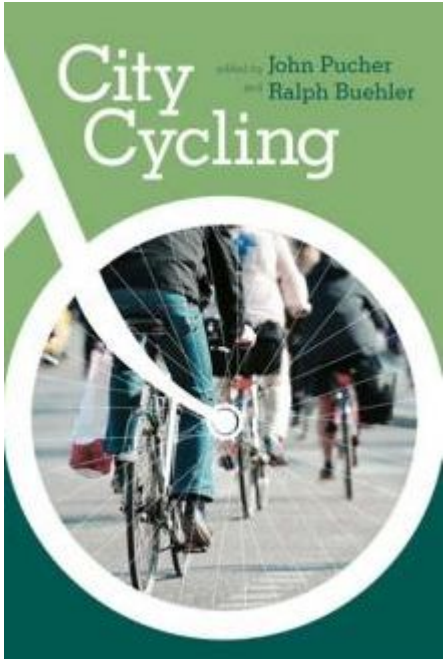

Kunsthal
Spido

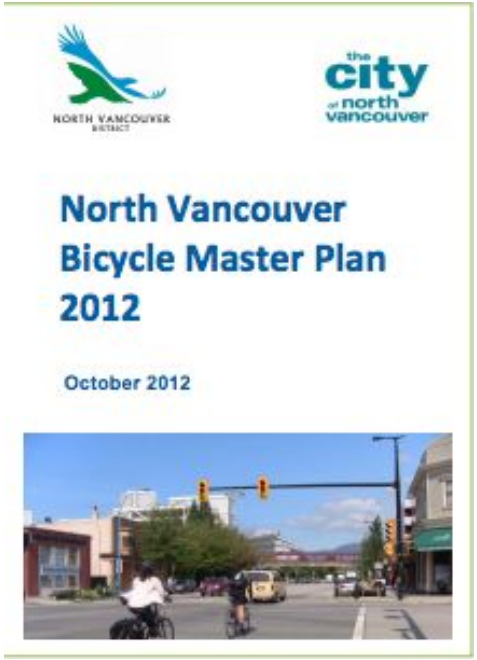
Bicycle funding and Mode Share

Source Gotschi and Mills (2008)




Capital Regional District
Regional Pedestrian & Cycling Masterplan
CRD


City Cycling
John Pucher
Ralph Buehler


NORTH VANCOUVER
the city of north vancouver
North Vancouver Bicycle Master Plan 2012
October 2012


GREATER VICTORIA
CYCLING
COALITION
BIKES MEAN BUSINESS
BUILDING A GREAT CYCLING (AND WALKING) CITY

gvcc.bc.ca

Thank You!