

Sustainable urban transformations: only in medium-sized cities?

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What to expect

1. Encouraging cycling as a daily transport mode for everyone
 - **PRESTO** project
2. Cycling and walking as a means to reduce urban congestion
 - **FLOW** project
3. Examples, resources and inspiration



Cycling: a daily transport
mode for everyone

PRESTO

Cycling: a daily transport mode for everyone





The PRESTO approach: Three levels of cycling

Cycling: a daily transport mode for everyone

1. STARTER CITIES, cycling modal share: <5%

GOAL: make cycling possible/comfortable, safe

2. CLIMBER CITIES, cycling modal share: 5-20%

GOAL: convince more people to use bicycles

3. CHAMPION CITIES, cycling modal share: >20%

GOAL: keep people cycling



Implementation strategies for cycling in cities

Cycling: a daily transport mode for everyone

Promotion efforts
Infrastructure efforts

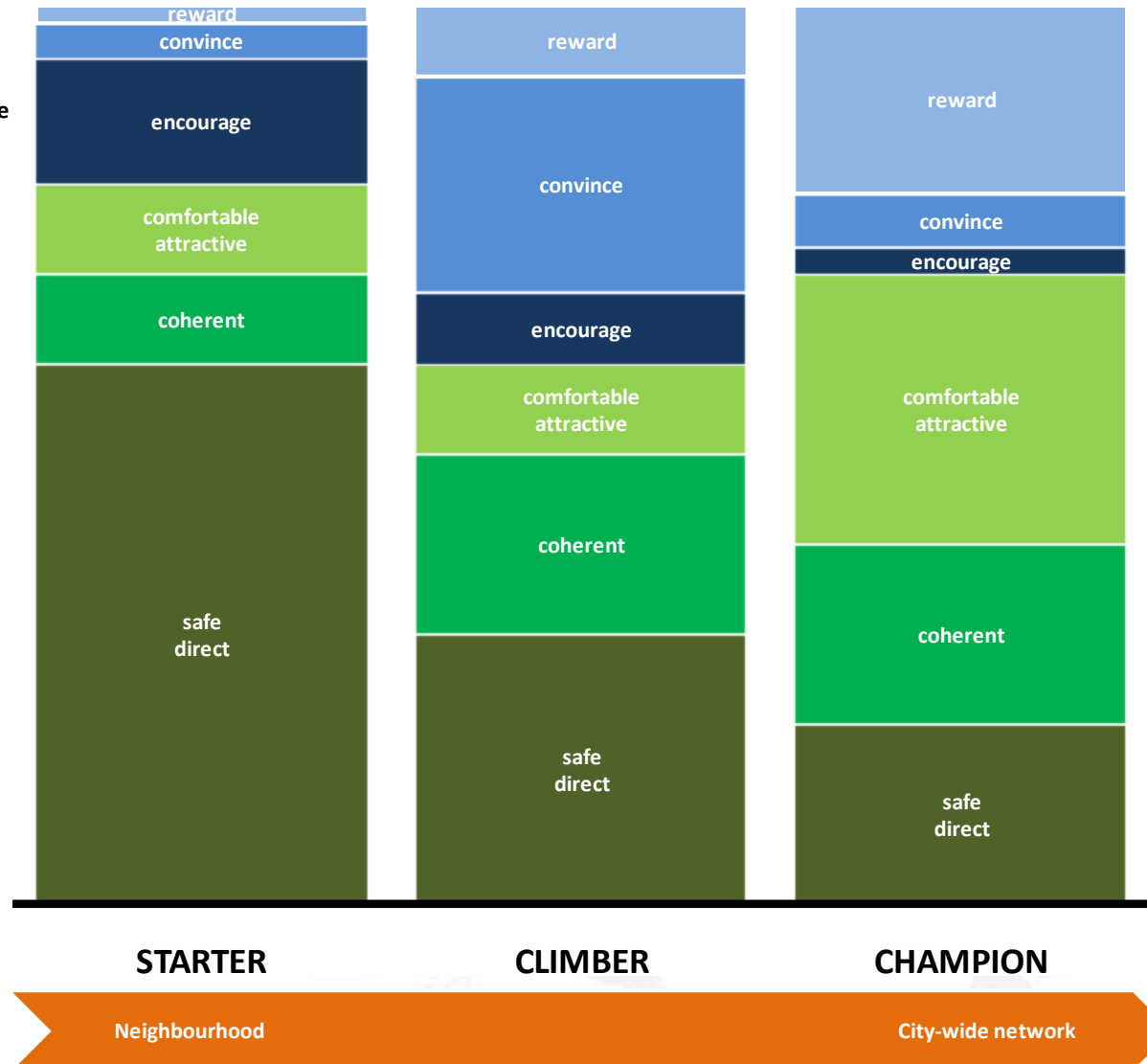
Make cycling possible, safe and respectable

Get more people on a bicycle

Keep people on their bicycles

Infrastructure and Promotion:

- Go hand in hand
- In a varying balance
- With varying focus





Lessons learnt

Cycling: a daily transport mode for everyone

1. **STARTER CITIES**, cycling modal share <5%

- *Infrastructure is the best promotion*
- *Inexpensive infrastructure can make a big difference*
- *Reach for “low-hanging fruit”*
- *Ask your experts*

2. **CLIMBER CITIES**, cycling modal share 5-20%

- *Maintain and extend what you have*
- *Infrastructure is not enough*
- *Don't forget other road users*
- *Why not share bikes?*

3. **CHAMPION CITIES**, cycling modal share >20%

- *Promotion – it never ends*
- *Park and celebrate*
- *Pedelecs as multipliers*
- *Count your cyclists*

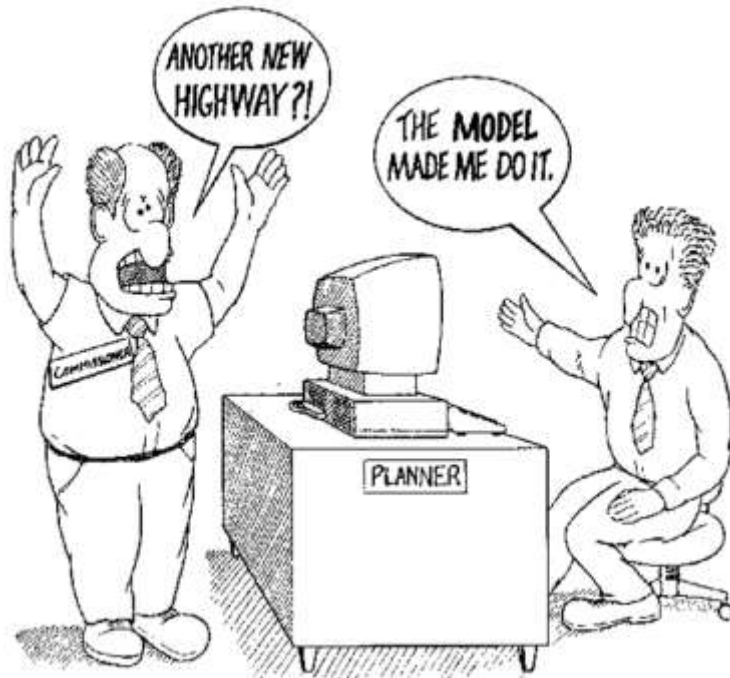
Cycling and Walking: Causes of Congestion or Solutions to it?



Funded by
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Bringing two worlds together

- **Transport modelling** is taken seriously to predict and provide for future transport
- **Cycling and walking** are playing a larger role in people's transport choices.



Walking and Cycling in Planning and Modelling

Strategic planning

- Macroscopic modelling
- Walking and cycling in transport development plans



Operational planning

- Microscopic modelling
- Interaction with other modes at intersections



WALKING, CYCLING AND CONGESTION

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QUICK FACTS FOR CITIES



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 855995



New public square
improves mobility
and accommodates

700

MEASURE:

Pedestrianising a road segment

LOCATION:

Dublin, Ireland

more people
during rush hour

SOURCE:

Dublin City Council – College Green Project 2015.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 635998

QUICK FACT



MEASURE:
Reducing pedestrian crossing distances
LOCATION:
Lisbon, Portugal

Narrowing roads to reduce
crossing distance for
pedestrians

does not
increase
congestion

SOURCE:

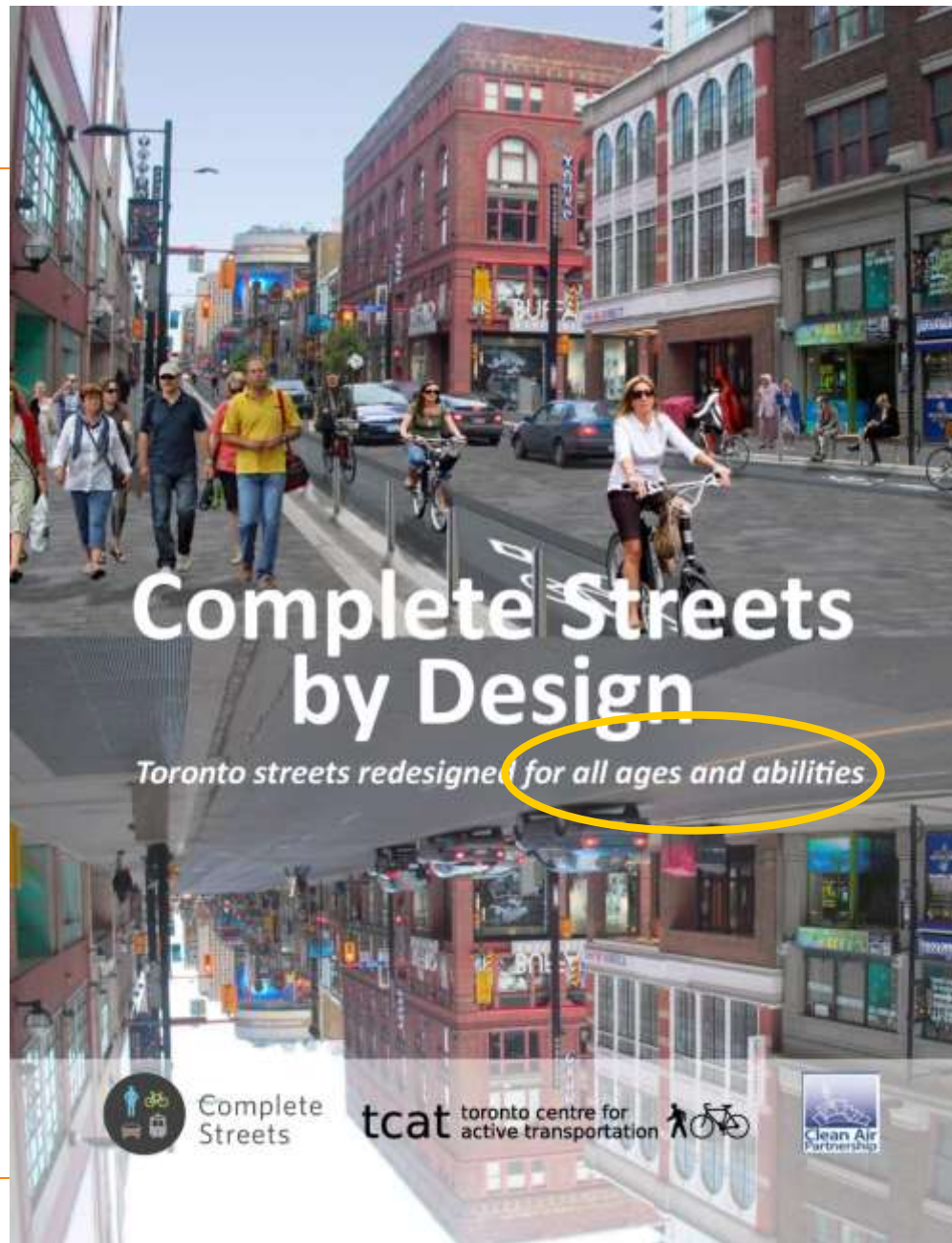
Lisbon City Council, Pedestrian Accessibility Plan Team (2017): Estudo da Percepção do Indivíduo na Modificação do Espaço Público: Comportamentos e percepções de peões antes e após obras de requalificação na Rua Alexandre Herculano.



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QUICK FACT

Complete streets



AAA infrastructure

All Ages and Abilities (AAA)



Reduce car speed and volume

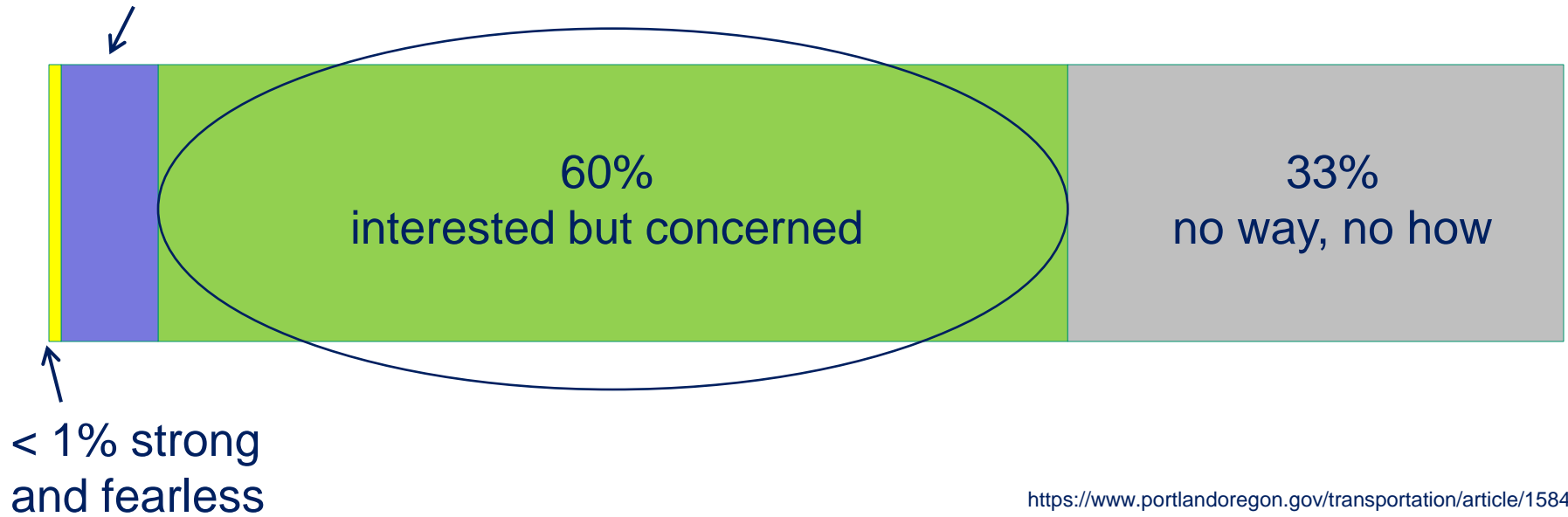


Physical separation

AAA

Why AAA?

and confident



<https://www.portlandoregon.gov/transportation/article/158497>

National Association of City Transportation Officials



Urban Bikeway Design Guide

PURCHASE GUIDE

GUIDE NAVIGATION ▾



<http://nacto.org/publication/urban-bikeway-design-guide/>

New York

New York (2007): “That won’t work here. We’re not Copenhagen.”



Momentum Magazine, NYC DOT



Momentum Magazine, NYC DOT

Elsewhere in the USA (2013): “That won’t work here. We’re not New York.”

Thank you for your interest and attention

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Viewing suggestions – Street Films

2007: “The case for physically separated bike lanes”

2007: “Ciclovía: Bogota, Colombia

2010: “Cycling Copenhagen through North American eyes”

2011: Complete Streets: It’s About More than Bike Lanes”

2011: “Moving Beyond the
Automobile”



Momentum Magazine

Reading suggestions

- ***The Death and Life of Great American Cities*** (1961)
Jane Jacobs
- ***Streetfight: Handbook for an Urban Revolution*** (2016)
Janette Sadik-Khan
- ***Happy City: Transforming Our Lives Through Urban Design*** (2013)
Charles Montgomery
- ***The High Cost of Free Parking*** (2005)
Donald Shoup
- ***Joyride: Pedalling Toward a Healthier Planet*** (2010)
Mia Birk

