Universitat Autònoma de Barcelona

UAB
Universitat Autònom
de Barcelona

8, 9, 10 March 2017



The importance
of bicycle
and
the role of universities



The conference is in the Framework of the European Project about sustainable Mobility: U-MOB LIFE.



LIFE project number LIFE15 GIC/ES/00 This Project is funded by the European It reflects only the author's view an agency is not responsible for any use

Most people will agree that it would be desirable to replace car mobility by bicycle mobility

But...



Project







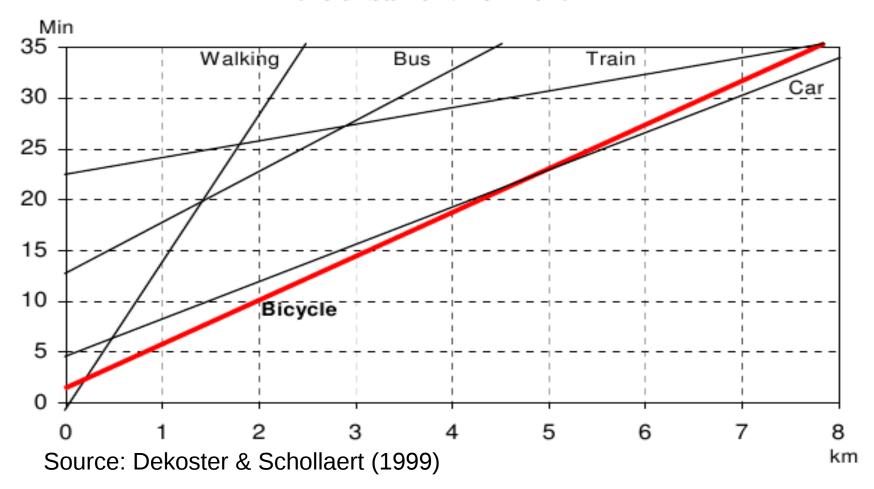
To what extent can bicycles substitute cars?

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Figure 1.4. Comparative table of journey speeds in the urban environment

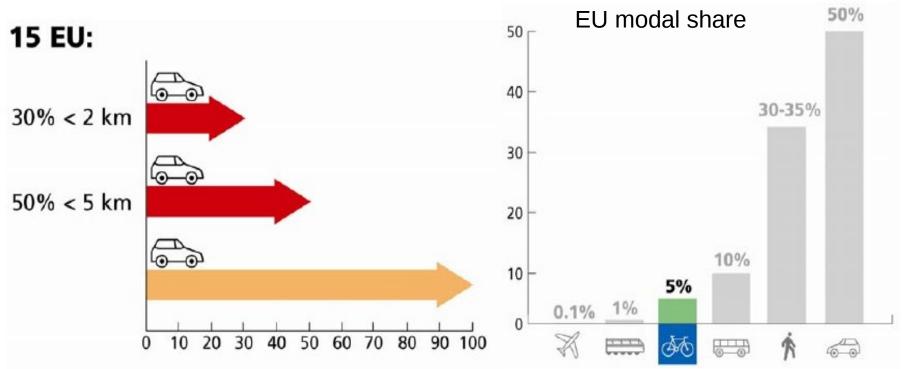


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Figure 1.5. Frequent Car Use



Source: ECMT Report "National Policies to Promote Cycling" Ljubljana 2004

Direct bicycle potential: 5% + 50% of 50% = 30%



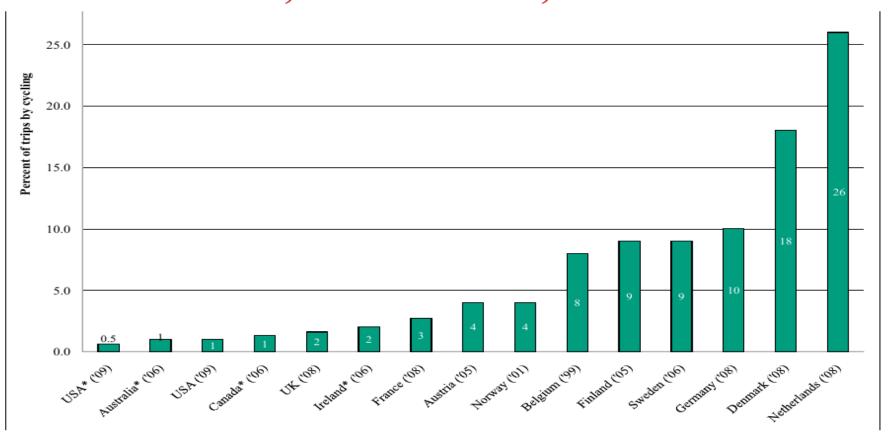
Direct bicycle potential:

5% + 50% of 50% = **30%**!

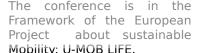




Cycling Share of Daily Trips in Europe, North America, and Australia, 1999-2008

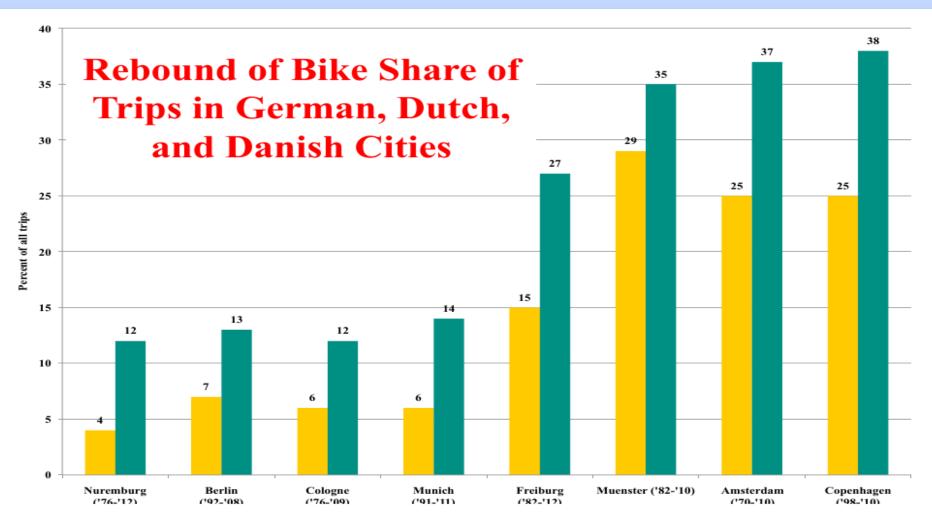


Source: Pucher and Buehler (eds.) City Cycling. Cambridge, MA: MIT Press, 2012









Source: Pucher, Dill, and Handy, "Infrastructure, Programs, and Policies to Increase Bicycling," *Preventive Medicine*, Jan 2010, Vol. 50, S.1, pp. S106-S125.

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8-80 bicycle safe paths





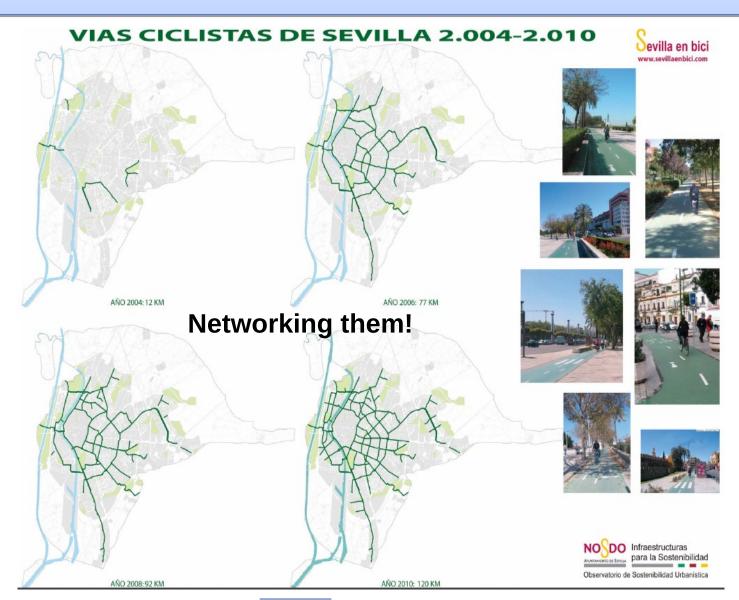
Cicleways must be safe for people 8 to 80 years old

http://www.8-80cities.org/

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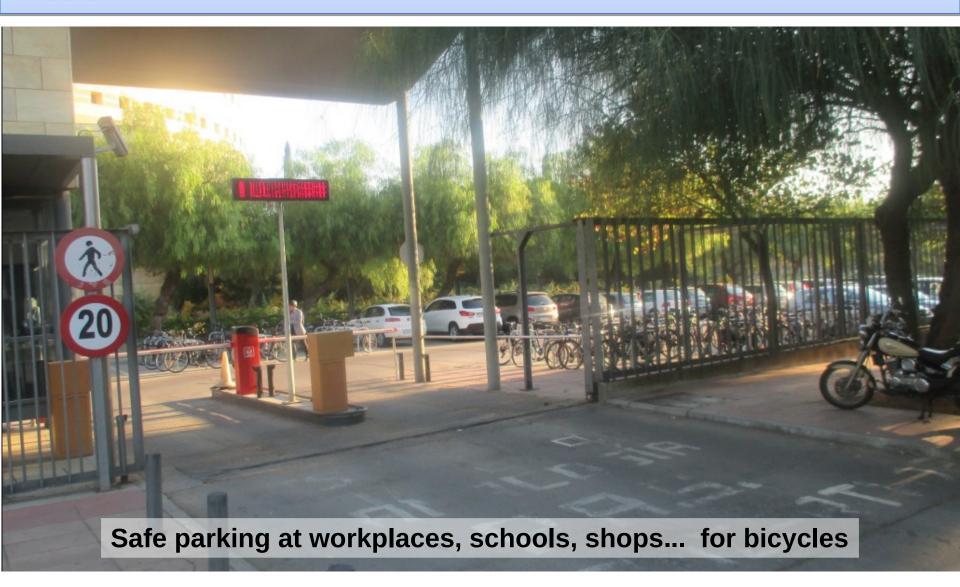




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Safe parking at residential buildings

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And many other small facilities

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... also car use restrictions

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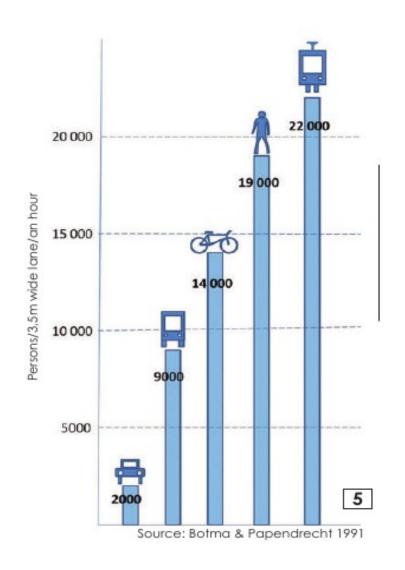


Because we need car's space

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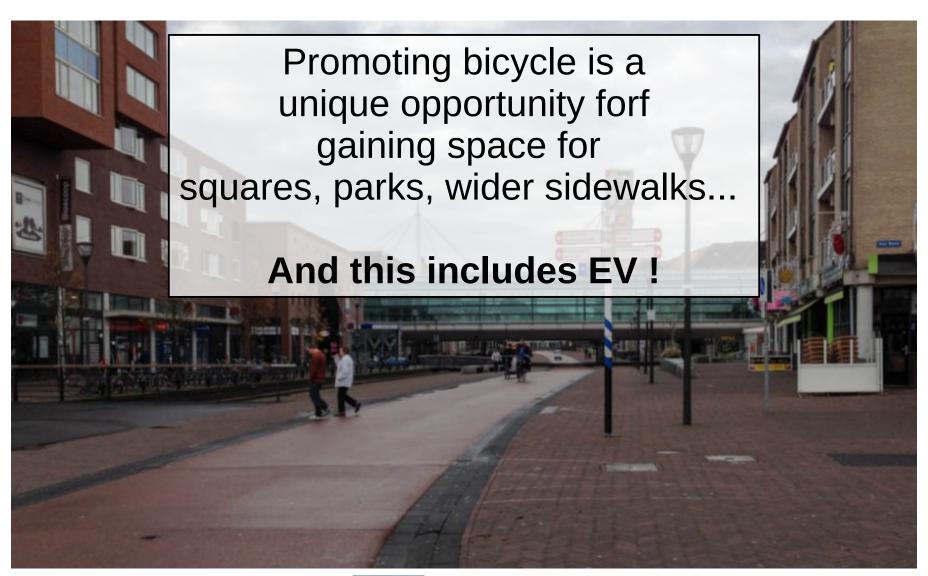
Bicycle is much more efficient than car in space occupation

- For parking
- and for driving

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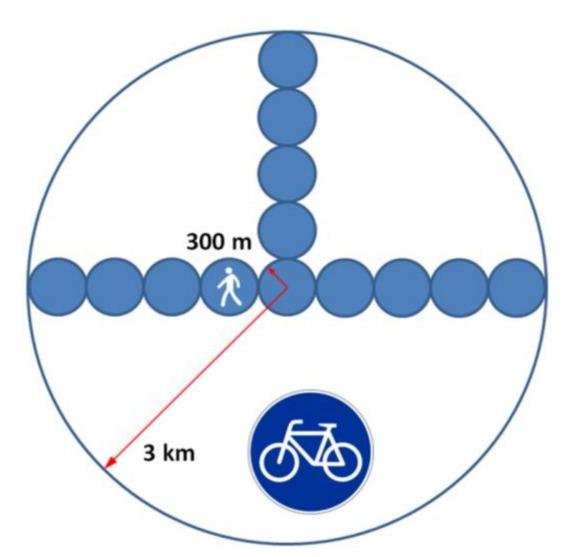




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Bicycle-PT intermodality increases the catchment areas of transit stations by a factor between 10 and 100 (sic)

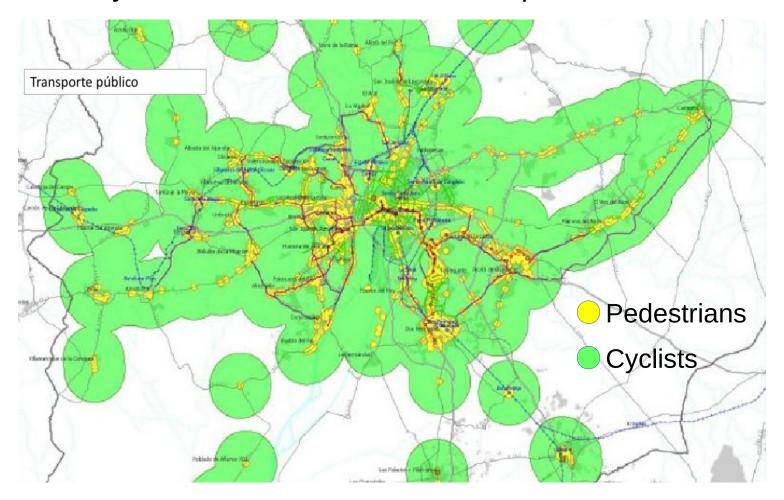
This can be of particular importance for low density populated areas

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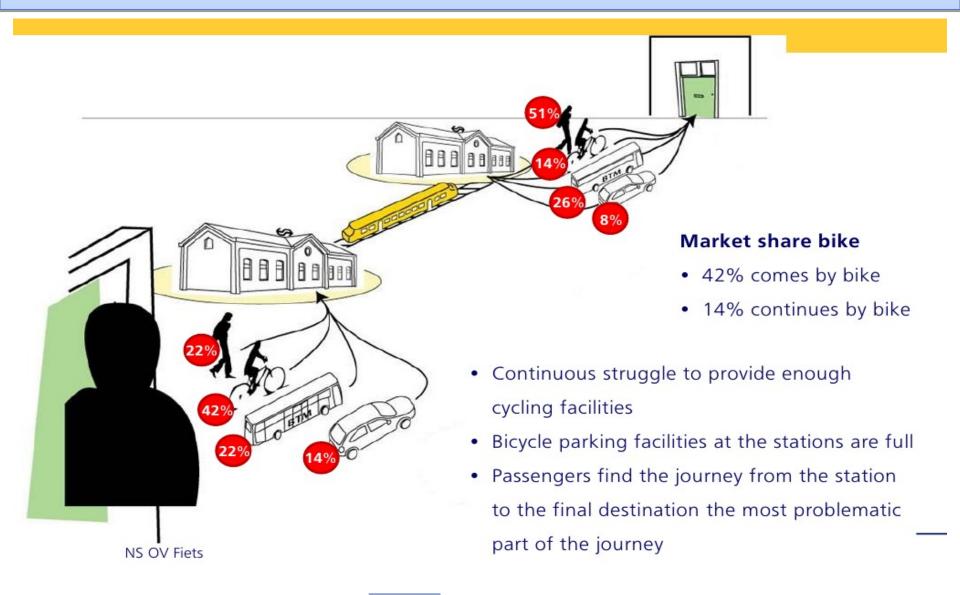
Case study: Catchmen areas in the Metropolitan Area of Seville



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Bicycle (alone or combined with PT) makes possible to develop an urban mobility based on sustainable chains of transport modes

Role of universities:

- Universities are one of the most important "markets" for bicycle trips.
- University may help to test disseminate bicycle facilities.
- University may host all kind of research and teaching on bicycle use and culture.





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Environmental Politics

Publication details, including instructions for authors and subscription information:

http://www.tandfonline.com/loi/fenp20

Can anyone hate the bicycle? The hunt for an optimal local transportation policy to encourage bicycle usage

José I. Castillo-Manzano a & Antonio Sánchez-Braza a



Contents lists available at ScienceDirect

Accident Analysis and Prevention

journal homepage: www.elsevier.com



On the effect of networks of cycle-tracks on the risk of cycling. The case of Seville

R. Marqués a, *, V. Hernández-Herrador b

Conclusions:

- The importance of bicycle
 - Bicycle as a main mode has a high potential for urban mobility, around a 30% of modal share
 - The promotion of the bicycle is a unique opportunity to gain spaces for people.
 - Bicycle and PT links can play a key role in sustainable PT systems, mainly in low density populated areas.
- Universities can play a key role by boosting the use of bicycle, as well as teaching and research around bicycle mobility.







Coming soon:

La importancia de la bicicleta

Un análisis del papel de la bicicleta en la transición hacia una movilidad urbana más sostenible Ed. Universidad de Sevilla

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