Ecomobility and

speed

EcoMobility

despacio

Carlosfelipe Pardo México DF. Octubre de 2012

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Summary

 There is a need to rethink the way that urban space is used, perceived and how we travel through it. Speed is one of the main variables that can be managed and acted upon to improve urban transport, where non motorised transport (bicycles and walking) have a key role. The presentation will focus on why this is so important and what projects can be developed to achieve it.

This is the city many people want

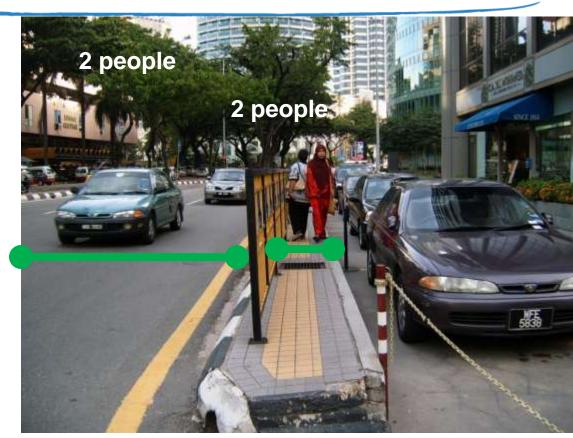
Fast Effective Efficient Alive Modern Progress Technology

This is the city they have in reality

Dangerous Polluting Impersonal **Distant** Inefficient Machine **Development?**

Equity

- "The highest priority should go to public transport, walking and non-motorised vehicles that are accessible to almost everyone and have low impacts"
- Enrique Peñalosa





For cars



Lack of appropriate crossings generates risks



What do we perceive at 4 km/h (walking pace)?



What do we perceive at 200 km/h?

Philip Robbins CC Attribution-NonCommercial-NoDerivs 2.0 Generic http://www.flickr.com/photos/prfr/4669696927/

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La velocidad enceguece

Mientras más rápido vayas, menor es tu capacidad de atención al entorno





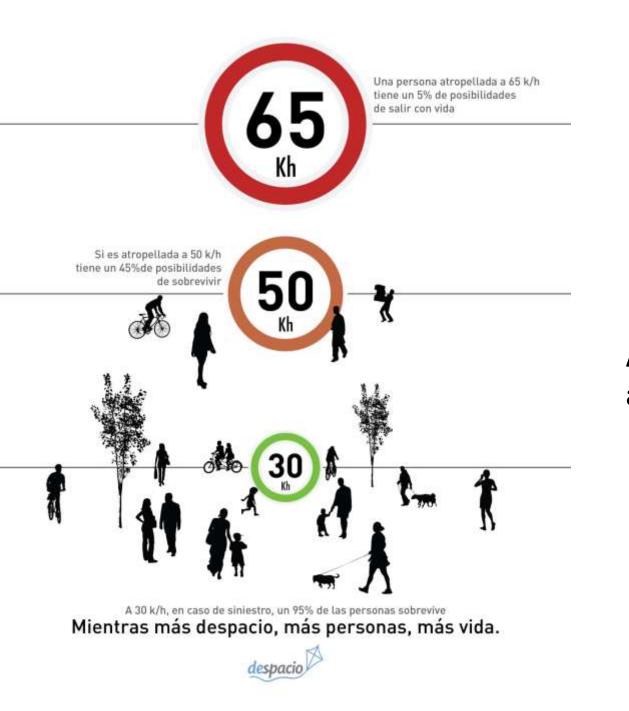
Speed makes us blind:

 The field of vision shrinks depending on the speed of a vehicle

Se trata de la capacidad de percibir

Estas cuatro figuras muestran el campo visual de un conductor de acuerdo con su velocidad de desplazamiento y la capacidad de percepción y concentración sobre su entorno. Como se ve, la velocidad es inversamente proporcional a la capacidad de percepción, lo cual reduce la seguridad del entorno.





And... the other way around!

Let's learn from dance

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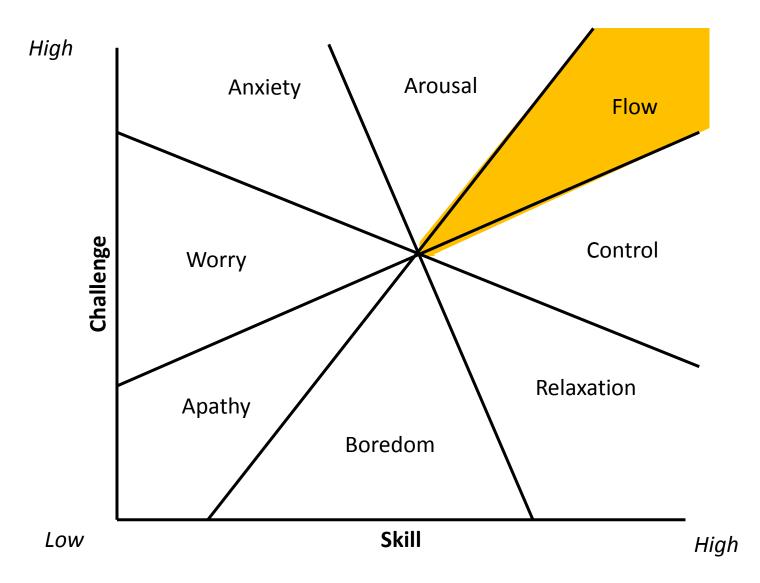
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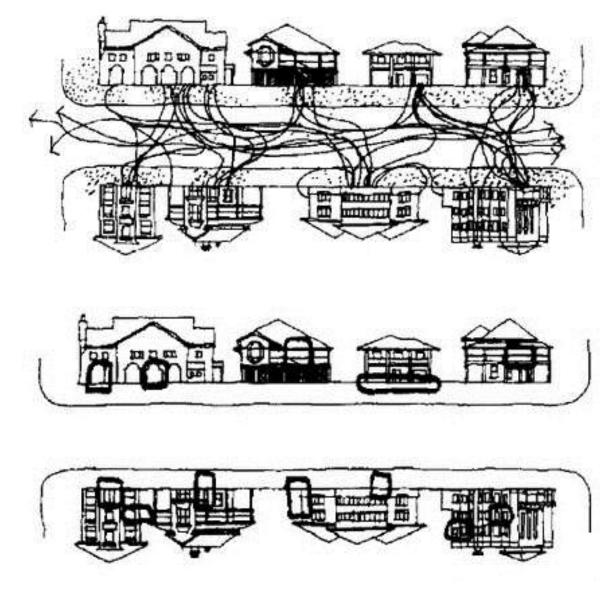
D.ACHICALL TRUCK

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Flow and mindfulness





Light Traffic 2000 vehicles per day 3.0 friends per person 6.3 acquaintances

Tráfico bajo 2.000 vehículos por día 3 amigos por persona 6,3 conocidos

Heavy Traffic 16,000 vehicles per day .9 friends per person 3.1 acquaintances Tráfico pesado 16.000 vehículos por día 0,9 amigos por persona 3,1 conocidos





http://www.f1-site.com/f1-wallpaper/race-f1-wlp/274turkey_istanbul_park_circuit_race_formul













WHY DID YOU SEE THAT CONFLICT?

¿POR QUÉ VIO ESE CONFLICTO?



How people perceive a space controlled by "others"

How people perceive a space controlled by themselves

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of look

HIIAH

10:

30km/h zones (Twenty is plenty)

- Positive effects in places where it has been implemented
- Stockholm implemented it as part of its "Vision Zero"
- UK: 41,9% reduction in deaths by traffic accidents (Grundy etal, 2011) – nearby areas reduced by 8%!
- UE proposed its implementation in all of Europe (oct 2011).

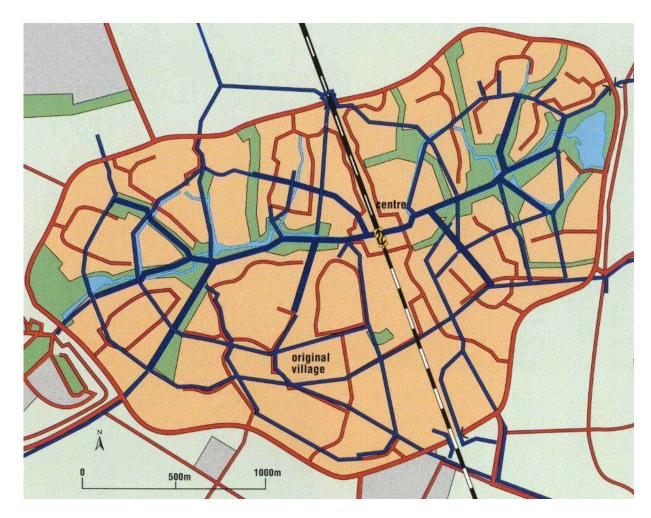


Foto: AL

Las



Traffic cells (Houten)



Blue: Routes for bicycles
Red: routes for cars
(bikes go first in all trips within

the city)

Ciclovías recreativas (Sunday carfree)





Conversions: Nyhaven 1950





Conversions: Nyhaven today





The total trip

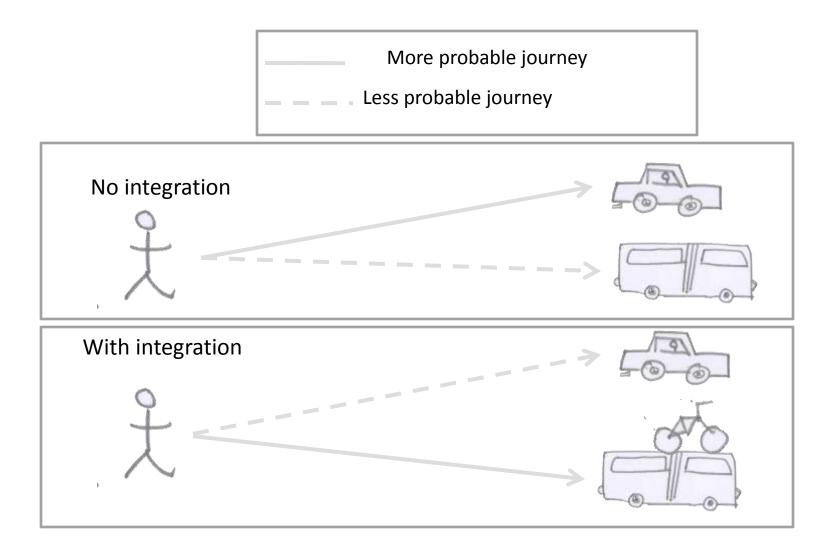
- **1.** Walk from origin $\breve{\pm}$
- 2. (bicycle bike taxi taxi minibus)
- 3. Arrive at origin station
- 4. (Walk to vehicle substop) $\stackrel{\circ}{+}$
- 5. Ride on the vehicle
- 6. Arrive at destination
- 7. (walk from vehicle substop) $\frac{1}{2}$
- 8. (bicycle bike taxi taxi minibus)
- **9.** Walk to final destination

All these have:

- Distance
- Duration
- Infrastructure
- Safety

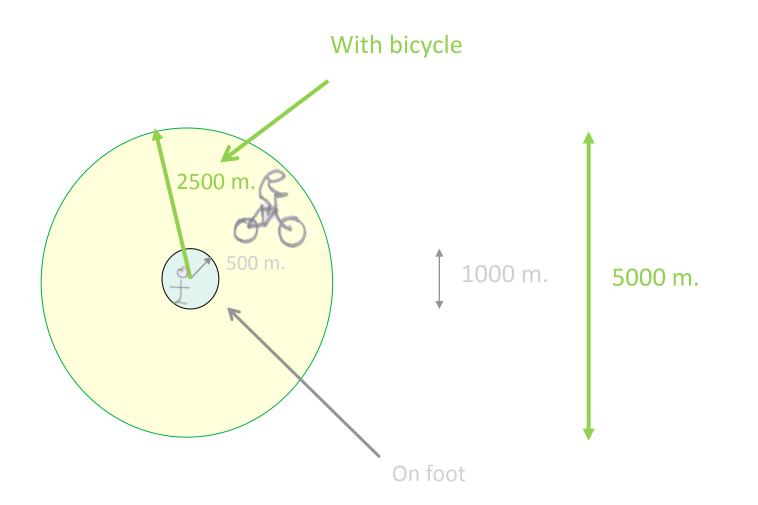
Decision of a traveler

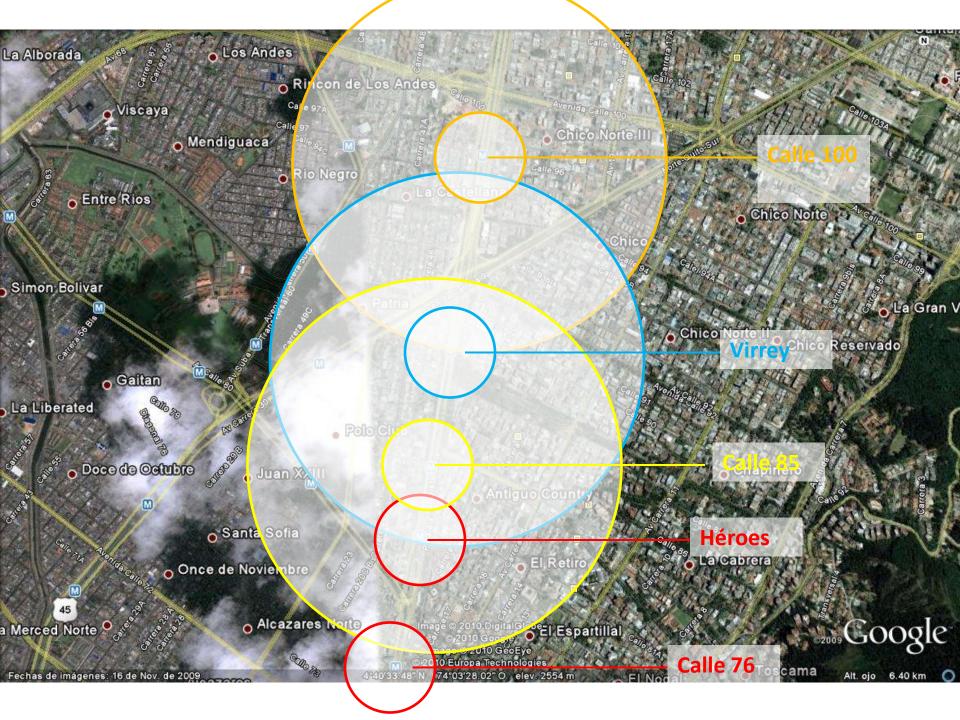




Greater area of coverage

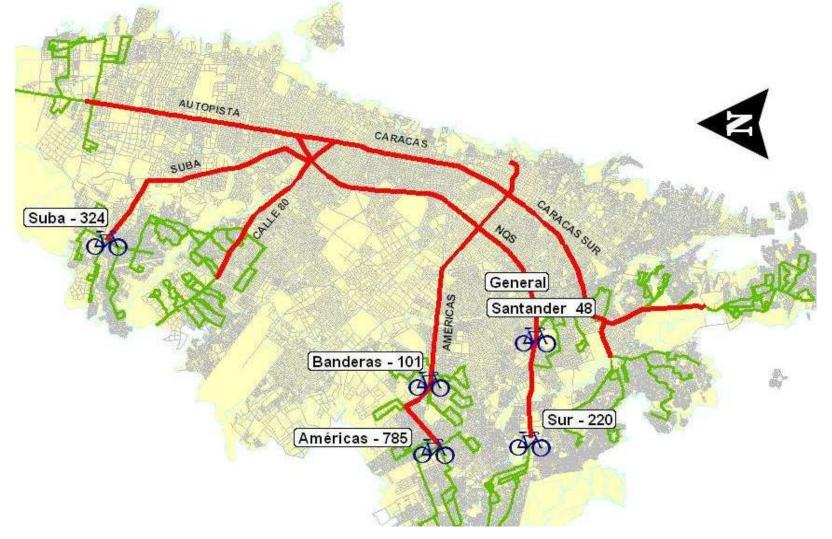






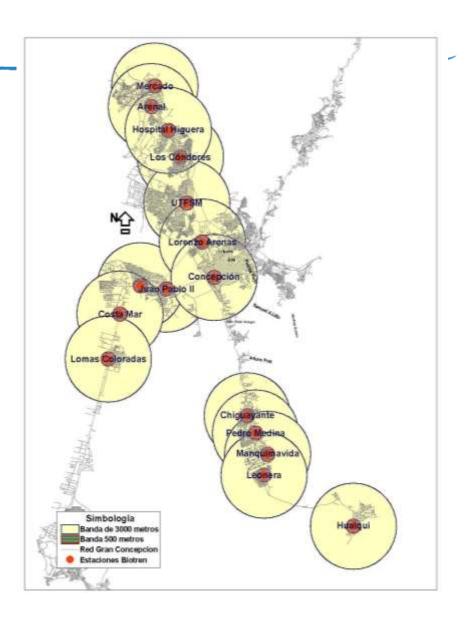


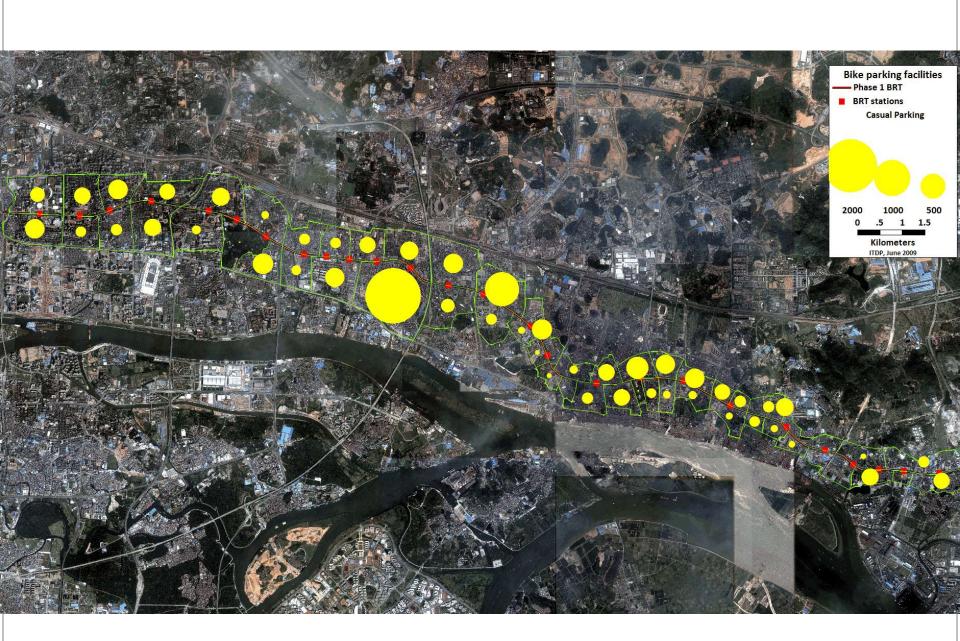
TM today – bike parking integrated to stations (+ Ricaurte)



Concepción (Chile) – bicycle integration

- Train was not integrated to bicycles
- This was the proposed integration scheme and buffer areas (red is walking, yellow is on bicycle)





Guangzhou demand study of bicycles for BRT

("Vaya **despacio** y vea nuestra hermosa ciudad, vaya rápido y vea nuestra **cárcel**")

creative

ns

GO SLOW AND SEE OUR BEAUTIFUL CITY GO FAST AND SEE OUR JAIL STATE LAW ENFORCED.

EcoMobility

CarlosFelipe Pardo pardo@despacio.org Despacio.org

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New York ⁻