

Smart city: optimizing for happiness



Children are a kind of indicator species. If we can build a successful city for children, we will have a successful city for all people.

— *Enrique Penalosa* —

AZ QUOTES

What makes an iPad smart?



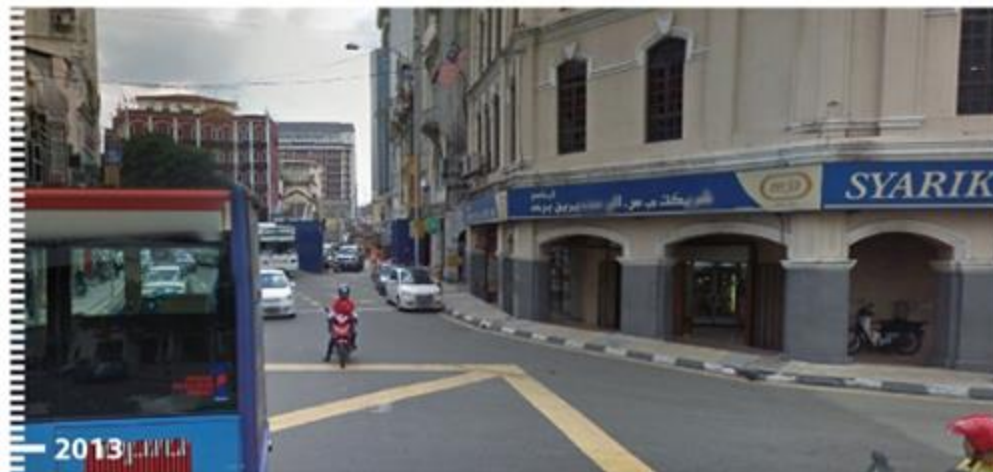


"A smart city has nothing to do with artificial intelligence or sensors. A city is smart when children can walk and cycle freely and safely. Technology is only a bonus. "

- Lior Steinberg, co-founder of Humankindcity



What does this look like?
(courtesy urb-i.com)



Kuala Lumpur

Google Street View
via urb-i.com



Tokyo

Google Street View
via urb-i.com



Mexico City

Will it work in Thailand?
Let's test it



BEFORE



AFTER

<https://pmcu.co.th/siam-square-walking-street/>



<https://pmcu.co.th/siam-square-walking-street/>

Mahannop Road

Treatments

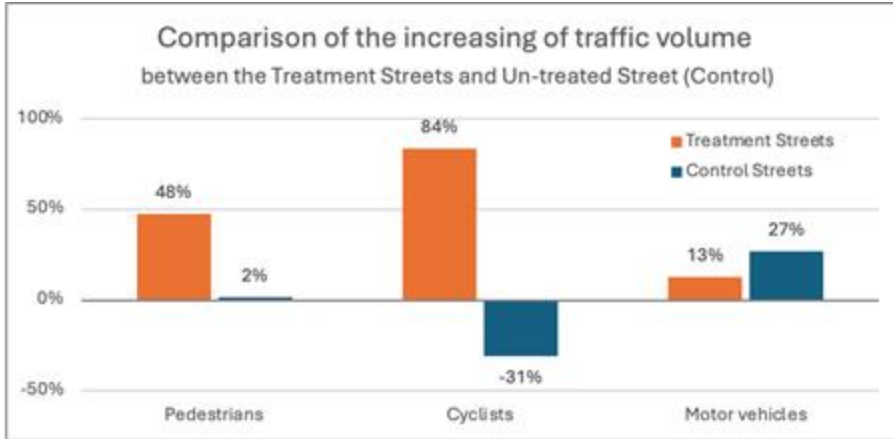
1. Lane with reduction
2. Curb Extension
3. Sharpen the turning radii



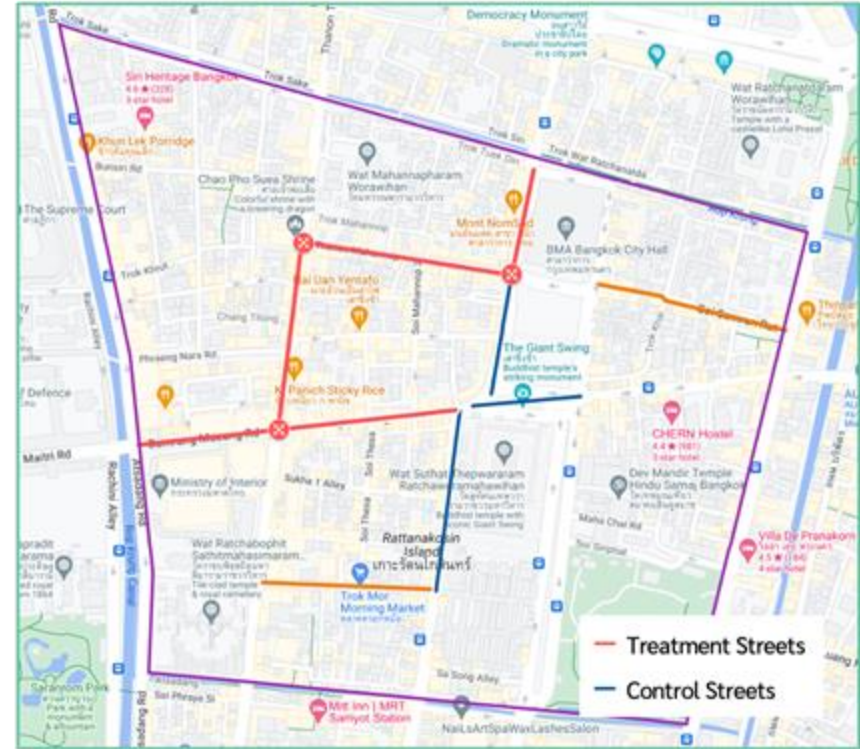
BEFORE

AFTER

Design for people, you get people



- The result indicates a significant increasing average of **1,005** pedestrians more on Treatment streets than the Control Streets ($p = .011$).
- Increasing of **126** cyclists more on Treatment streets ($p < .001$).
- And **2,938** motor vehicles fewer then on the Control Streets ($p < .001$).





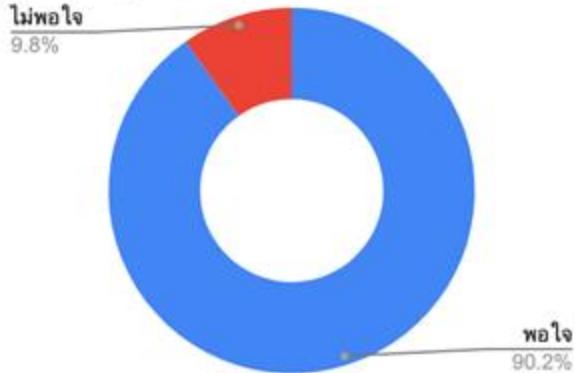


Contribution to GDP:
฿500 of ice cream



How satisfied are you with Car Free Day 2024?

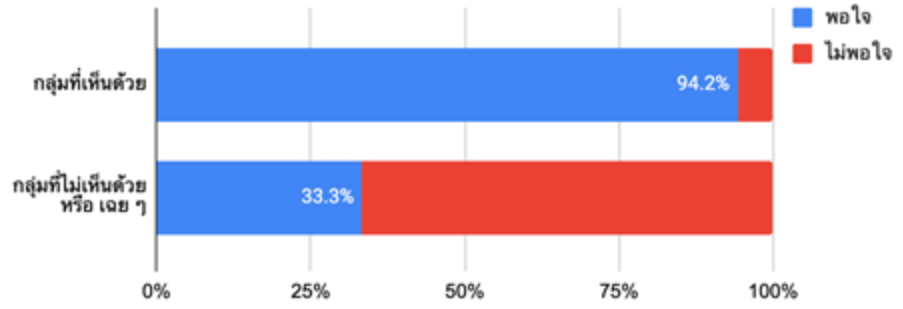
ความพึงพอใจในรูปแบบ Bangkok Car Free 2024 ถนนบรรทัดทอง



การปิดถนนสำหรับรถยนต์ เพื่อเปลี่ยน ให้พื้นที่สาธารณะและกิจกรรมให้กับผู้คน



ความพึงพอใจ ของกลุ่มที่เห็นด้วยและกลุ่มที่ไม่เห็นด้วยกับการจัดงาน ในรูปแบบนี้



ความพึงพอใจและความเห็นต่อการจัดงาน ไม่มีความสัมพันธ์อย่างมีนัยสำคัญต่อ

- เพศสภาพ
- ช่วงอายุ
- รายได้

การปิดถนนสำหรับรถยนต์ เพื่อเปลี่ยน ให้พื้นที่สาธารณะและกิจกรรมให้กับผู้คน

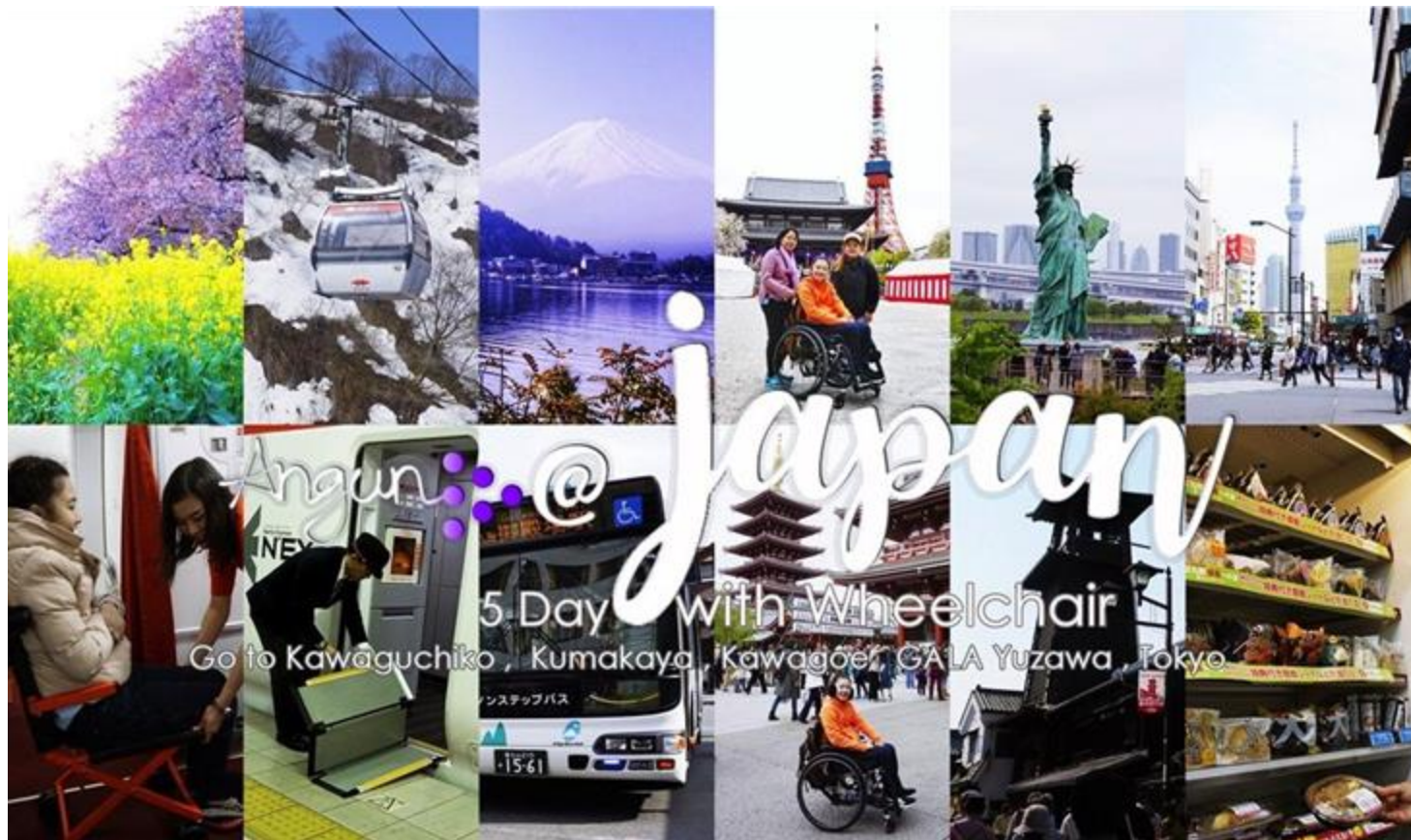
Why Bicycles?

Kids love it

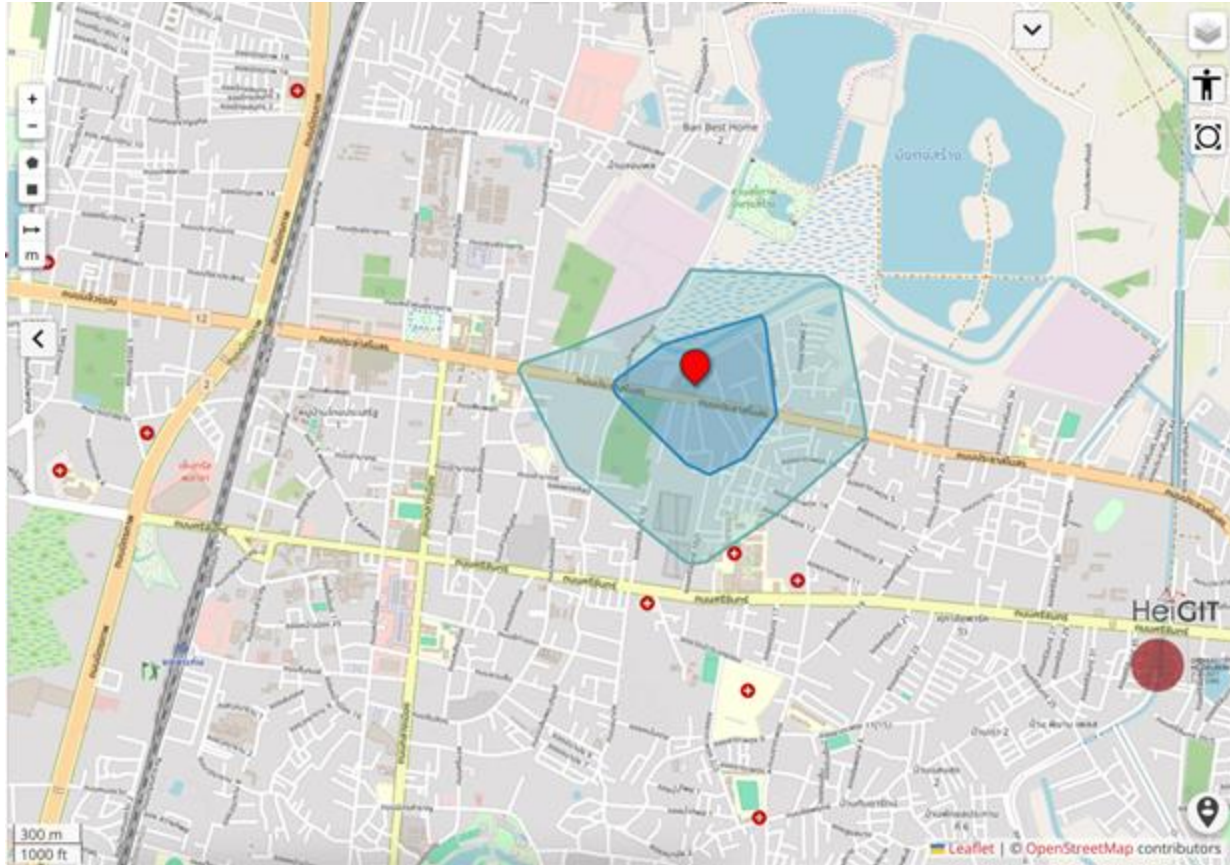


This Photo by Unknown Author is licensed under CC BY-NC

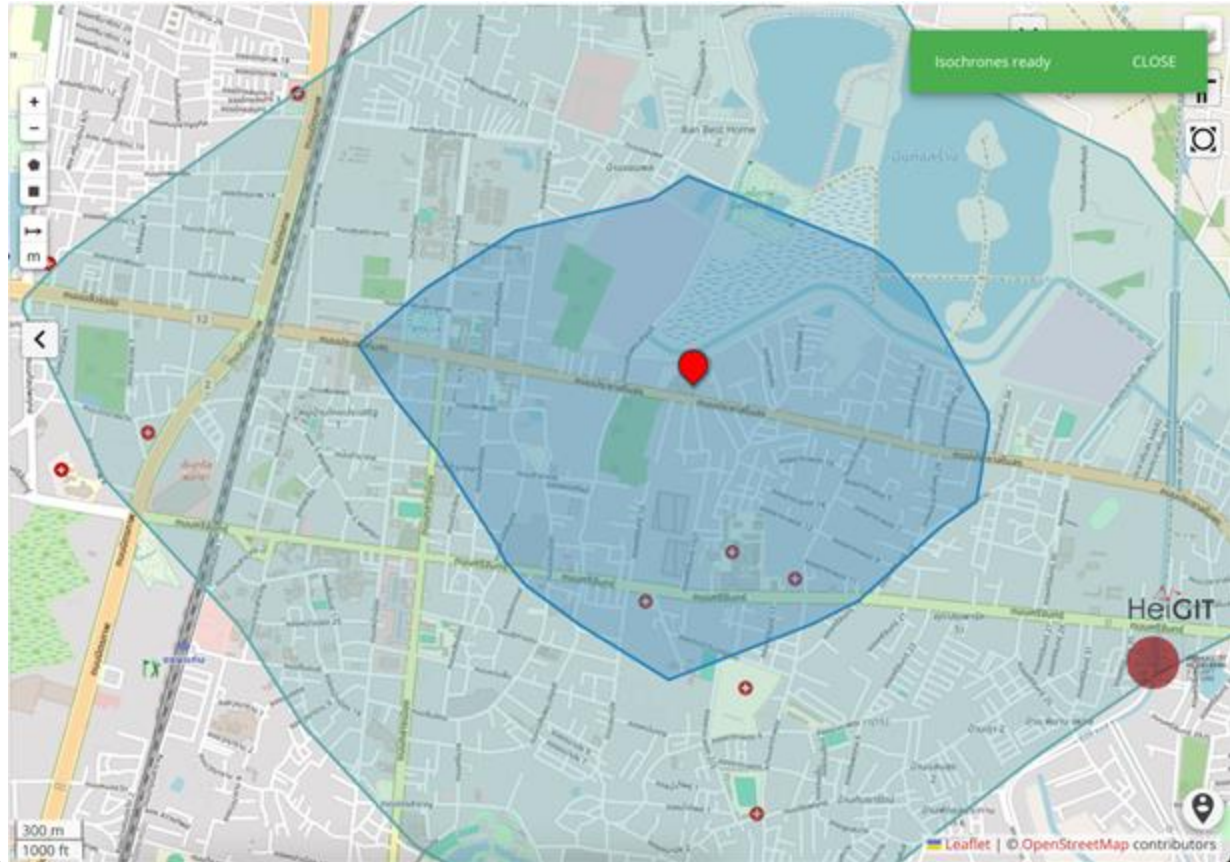
Shared infrastructure with wheelchair



Activity range extender



Activity range extender



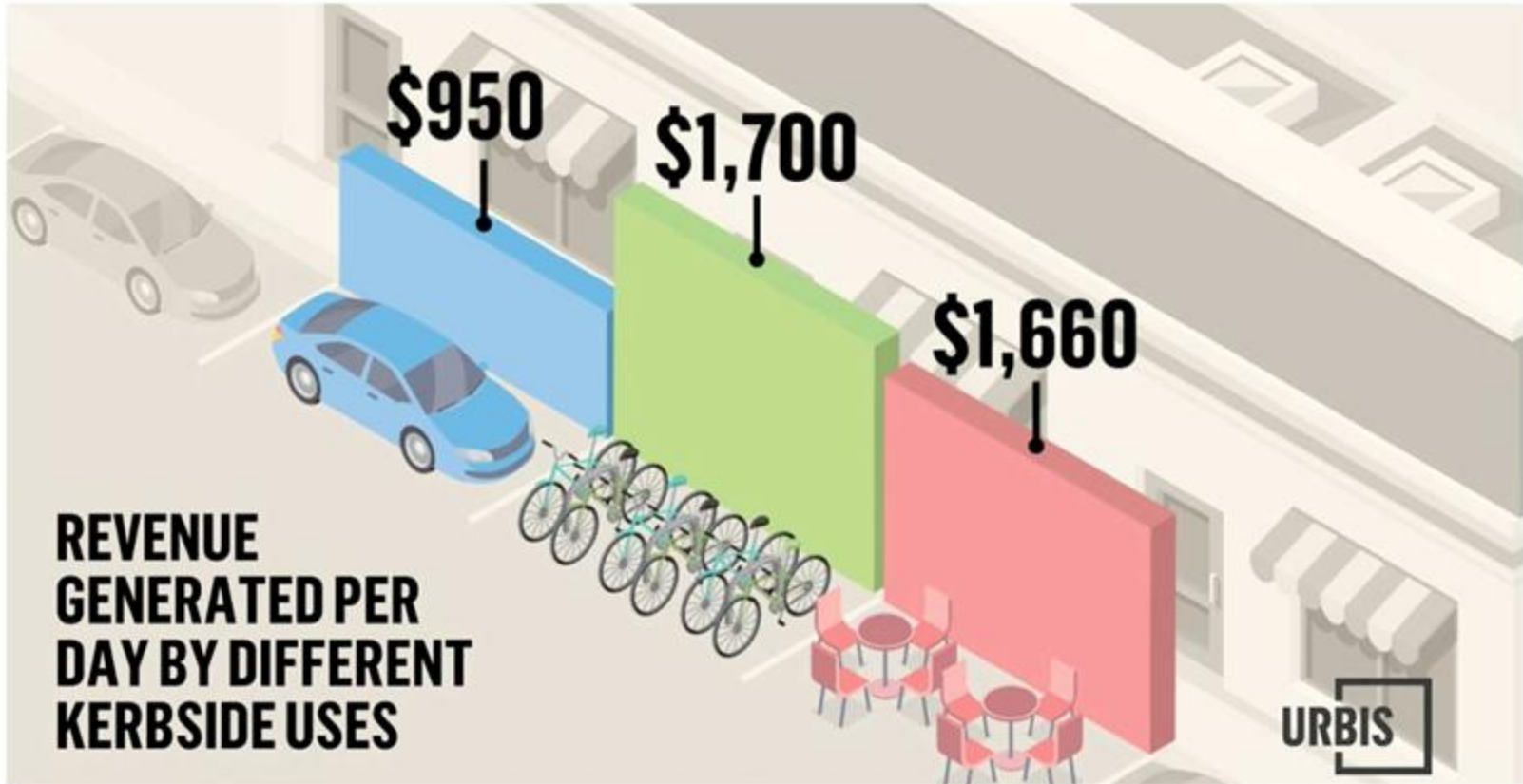
Economic surplus creator

Using UN's HEAT methodology, cycling for 30 minutes contributes 15 Baht to the economy

Driving for 30 minutes costs society 3 Baht

www.who.int/tools/heat-for-walking-and-cycling

Unlocking economic bottleneck



Efficient use of ways

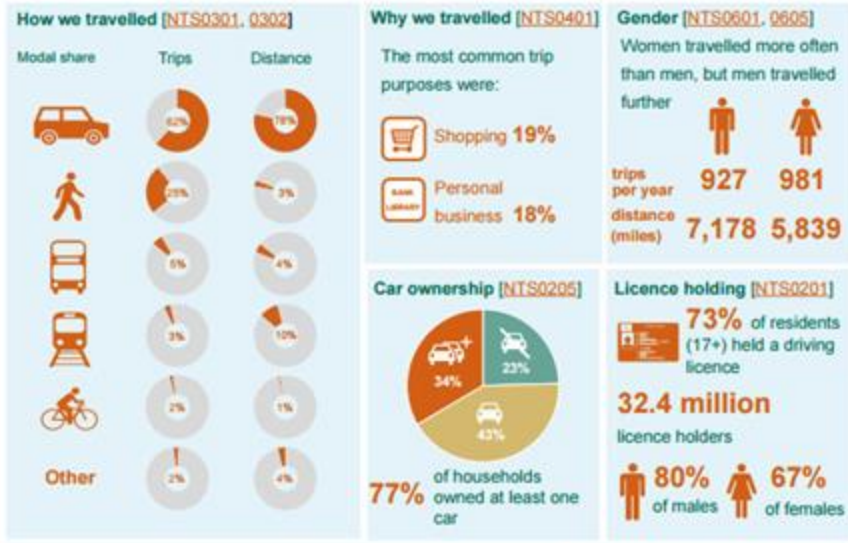


Efficient use of ways

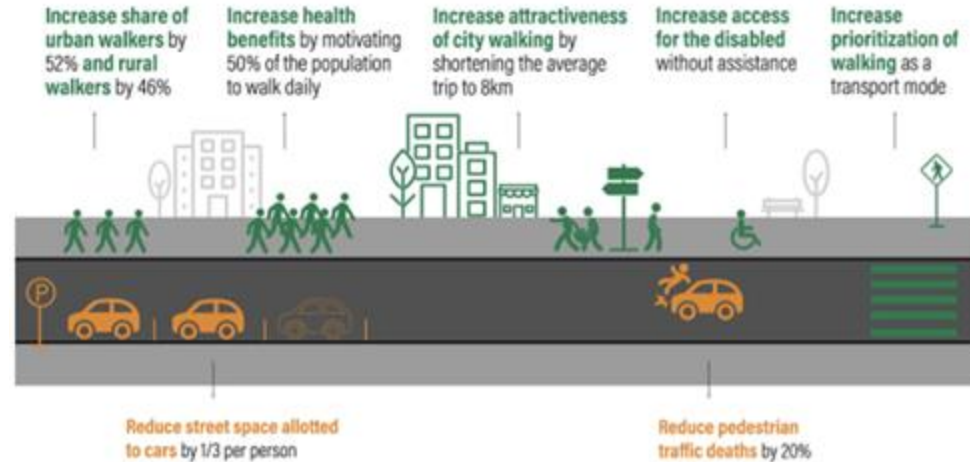


What next?

Education: Define, Measure, Improve



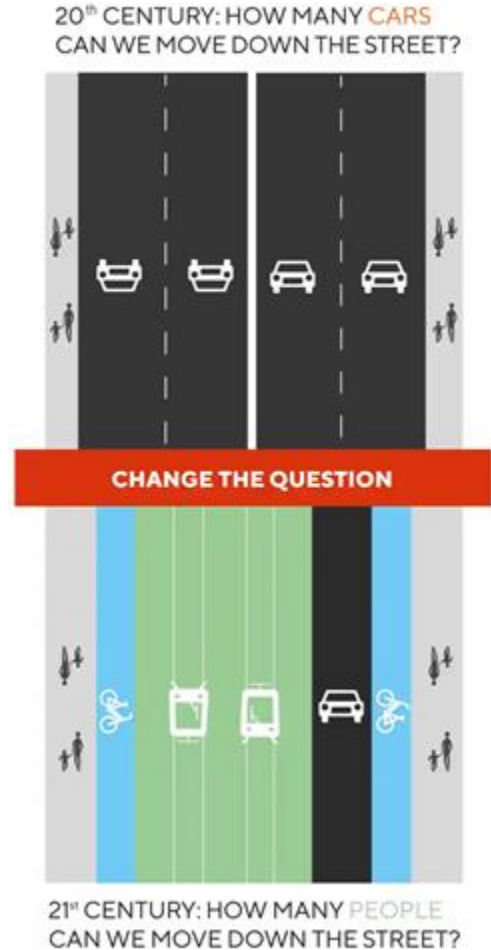
7 Goals of New Pedestrian-Friendly Policies in Germany



Source: German Federal Environmental Agency (UBA)

WORLD RESOURCES INSTITUTE

Education: Measure the right things



Education: Car Free Day / Weekends



Education: Reduce private car in your organization

- Reduce private car related incentives i.e. official car, petrol allowances etc
- Provide incentives to not use private cars, such as bus passes, shuttle bus services, shared bike, etc.

Engineering: Design principles

5 design principles for bicycle infrastructure

CROW's Design Manual for Bicycle Traffic

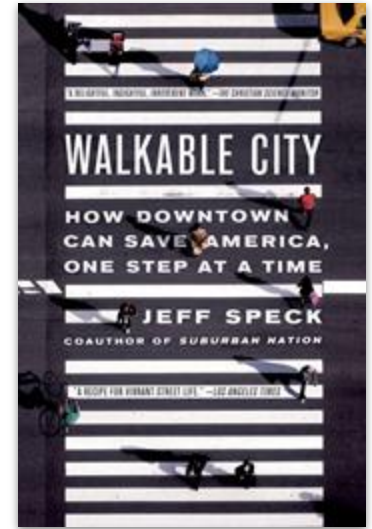
- Cohesion
- Directness
- Safe & Security
- Comfortable
- Attractive



The General Theory of Walkability

Jeff Speck's Walkable City

- Reason to walk
- Safe walk
- Comfortable walk
- Interesting walk



Engineering: Set priorities

Walking
เดินเท้า



Bicycle
จักรยาน



Public Transport
ขนส่งสาธารณะ



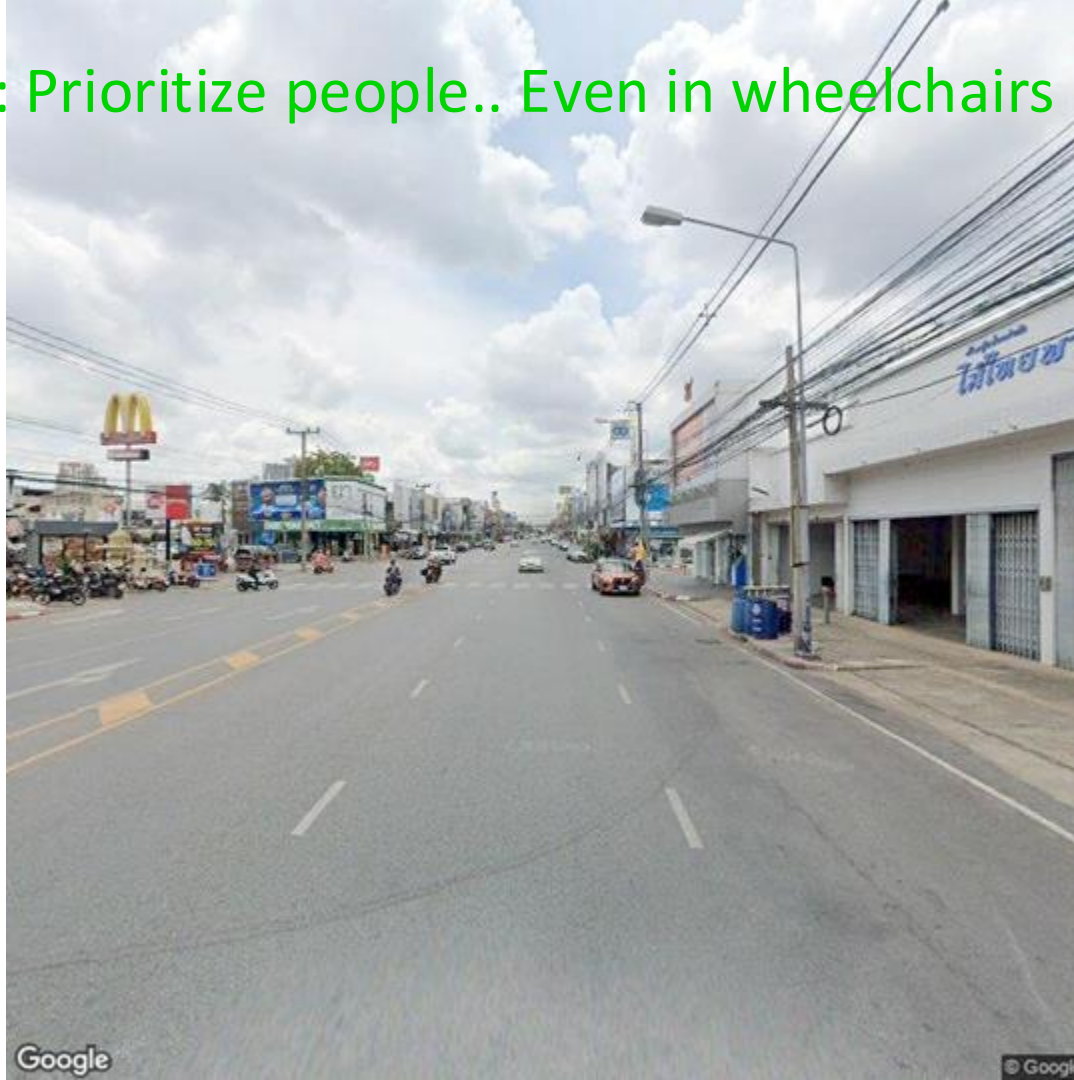
Mobility as a Service
รถบริการ



Private Vehicle
รถส่วนบุคคล



Engineering: Prioritize people.. Even in wheelchairs







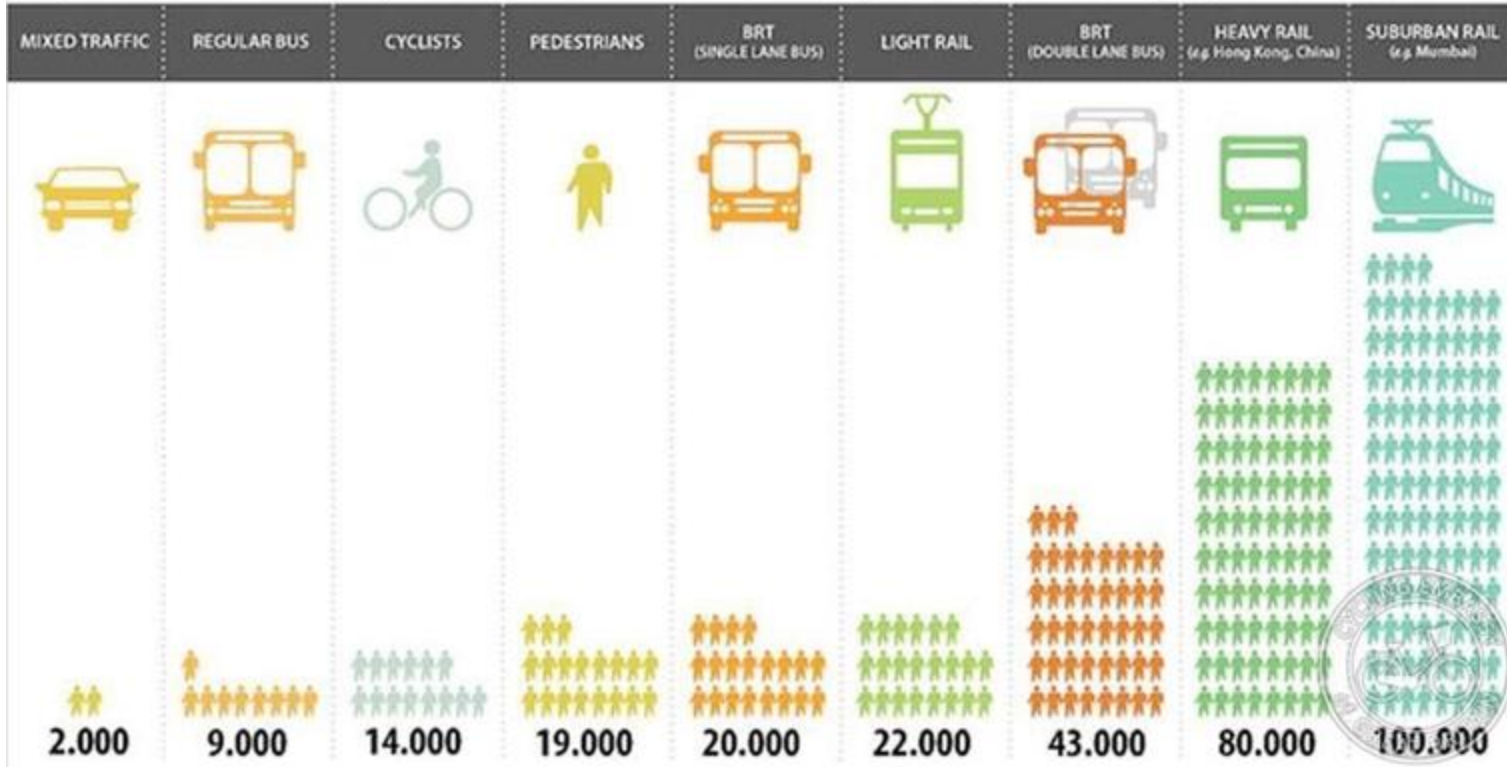


Enforcement: optimize traffic for people flow

MAKING THE MOST OUT OF SCARCE ROAD SPACE

people per hour on 3.5-meter wide lane in the city

Depending on vehicle size, occupancy or loading, and speed, the use of space can vary greatly for different modes of travel - potential passenger volumes vary greatly by mode along a corridor. The car is the most spatially inefficient mode. Dense urban centers cannot effectively be served by cars, since not enough people can be delivered to the center.



Enforcement: limit road speed

- Limit speed of main road to 50km/h
- Minor roads to 30 km/h

The future is already here



สิริ เพลส
6 โครงการใหม่
ซีรีส์ Dream Destination
เริ่ม 2 ล้าน*

SANSIRI

AMSTERDAM
PARIS
TOKYO

The advertisement features a woman in a blue jacket and white skirt riding a bicycle on a cobblestone path next to a canal in a Dutch-style town. The background shows traditional European architecture and a windmill. The text on the left is in Thai, and the Sansiri logo is in the top right corner. Three circular icons at the bottom left represent Amsterdam, Paris, and Tokyo.

Parting thought



The essence of the conflict today, really, is cars versus people...We can have a city that is very friendly to cars, or a city that is very friendly to people. We cannot have both.

— Enrique Penalosa —

AZ QUOTES

Contact us!



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