

Micromobilities

A Tsunami for sidewalks or an opportunity to rethink what sharing the road is all about?

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09H30 - 11H00 : 2.D. Micro mobilities: A Tsunami for our sidewalks or an opportunity to rethink what sharing the road is all about?



1. Welcome / Introduction

Mario Alves / Marjolein de Jong

2. Presentations

Pedro Homem Gouveia

Alex Santacreu

Mario Alves

3. The BIG questions

Mario Alves / Marjolein de Jong

4. Exploring possibilities: mockups / Videos 3.E.

Sonia Lavadinho

11H30 - 13H00 : 3.E. Interactive game playing on new ways how to deal with public space



Developments – what about micromobilities?



<https://www.urb-i.com/lisbon>



<https://www.urb-i.com/medellin>



<https://www.urb-i.com/melbourne>



Pedestrians



Bicycles



Light motorcycles



Cars



Buses



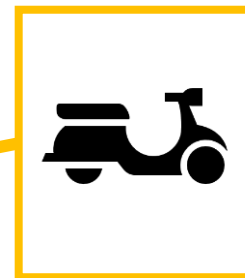
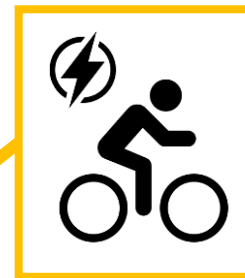
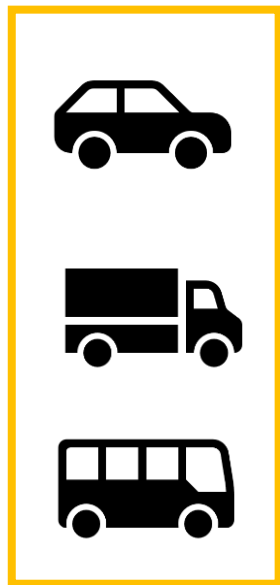
Trucks







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Free floating

Virtuele dropzone

Parkeervak

Gereserveerd
fietsrek

Deelfietsstations



Vrijheid – Flexibiliteit – Kosten – Ruimtelijke regulering







Goudse geschiedenis achter in een fie...
ad.nl



GoCab fietstaxi voor kindere...
vanraam.com



Fietstaxi - Duurzaam Zwolle Du...
duurzaamzwolle.nl



Fietstaxi Amsterdam
fietstaxi-amsterdam.nl



Fietstaxi - Wikipedia
nl.wikipedia.org



Wanneer mag ik in een riksja of fietstaxi r...
rijksoverheid.nl



Amsterdam Fietstaxi - 2019 Alle...
tripadvisor.nl



Fietstaxi Tilburg | VisitBrabant
visitbrabant.com



11 delivery robots that will soon carry food and packag...
zdnet.com



People kicking these food delivery robots is an earl...
sfgate.com



What Are The Rules For Robots Delivering Food?
forbes.com



Japan greenlights delivery robots for public...
asia.nikkei.com



Amazon Scout autonomous delivery robots b...
techcrunch.com



Amazon's Scout robots: That's n...
cnet.com



Pepsi and Segway Enter the...
thespoon.tech



Boy driving a hoverboard or self-balanci...
canstockphoto.com



Electric Hyroscooter Driving. Per...
123rf.com



Hoverboard stock image. Image o...
dreamstime.com



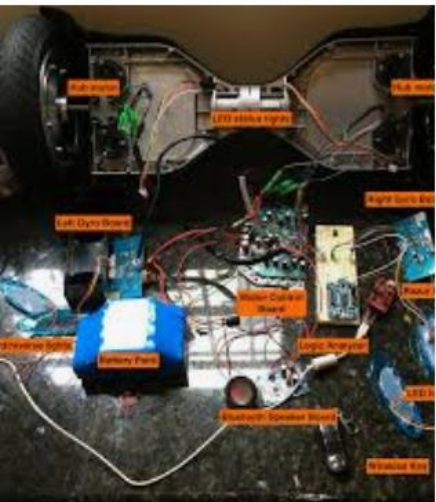
Is it Illegal to Ride a Hoverboard in Public ...
thelegali.com



What It's Like to Have Wheels for Feet: Te...
...



Girl driving on hoverboard — Stock Phot...
...



Reverse Engineering Hov...
...



Electric Hyroscooter Driving. Person Se...
...



Pedestrians



Bicycles



Light motorcycles



Cars



Buses



Trucks



Pedestrians

Bicycles



Light motorcycles



Cars



Buses



Trucks

Moving aids - Electrical support

Fun toys – gadgets

Use of pedestrian space for parking



Electrical support



Electrical



Pedestrians

Bicycles

Light motorcycles

Cars

Buses

Trucks

Moving aids - Electrical support

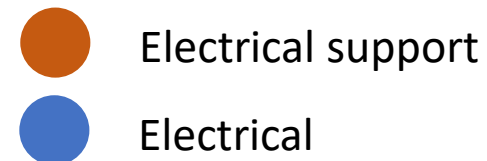
Fun toys – gadgets

Use of pedestrian space for parking

Faster bicycles

Larger bicycles

Shells





Pedestrians

Bicycles

Light motorcycles

Robots

Cars

Buses

Trucks

Moving aids - Electrical support

Fun toys – gadgets

Use of pedestrian space for parking

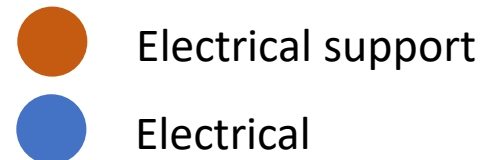
Faster bicycles

Larger bicycles

Shells

Taxi or delivery services

Unmanned





Pedestrians

Bicycles

Light motorcycles

Robots

Cars

Buses

Trucks

Which elements define micromobility?

Speed?

Model?

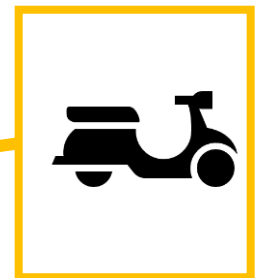
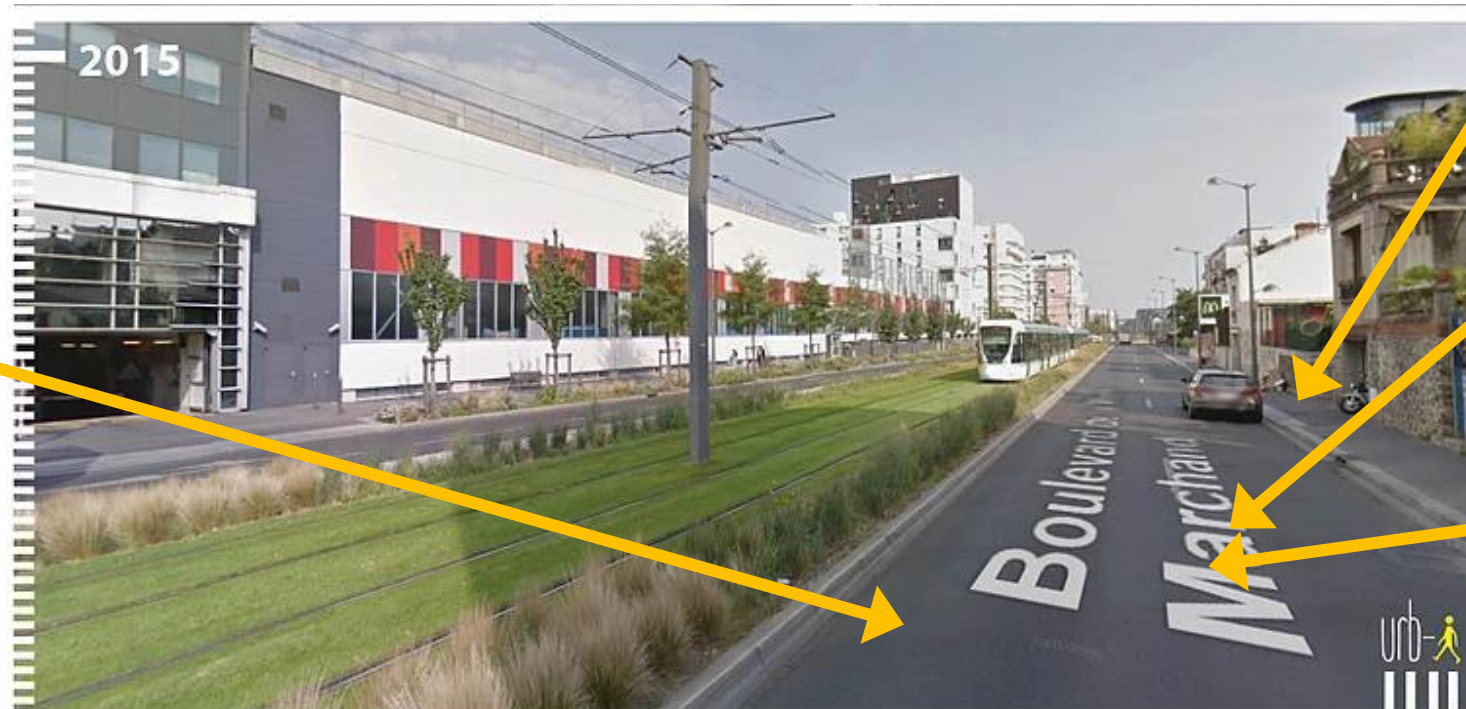
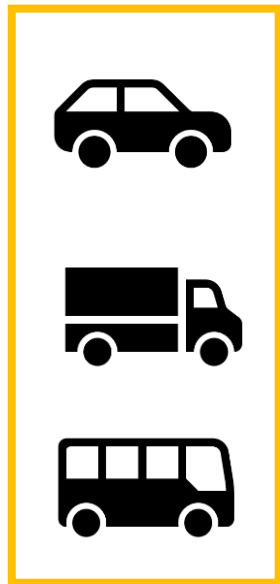
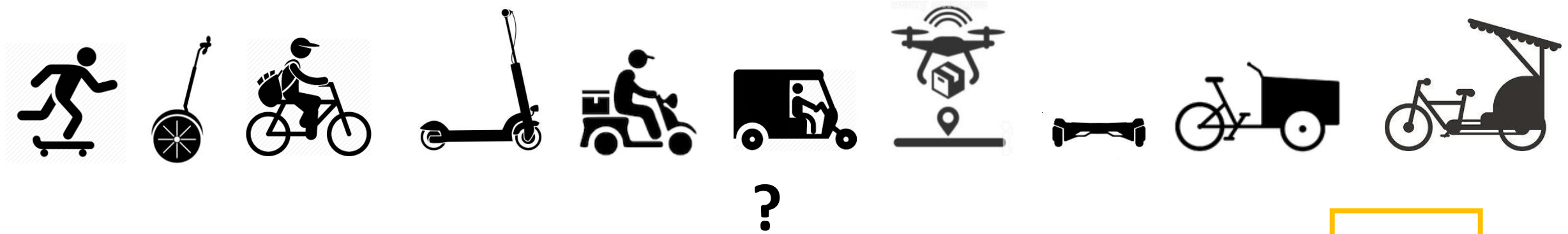
Weight?

Distance?

'Openness'?

...

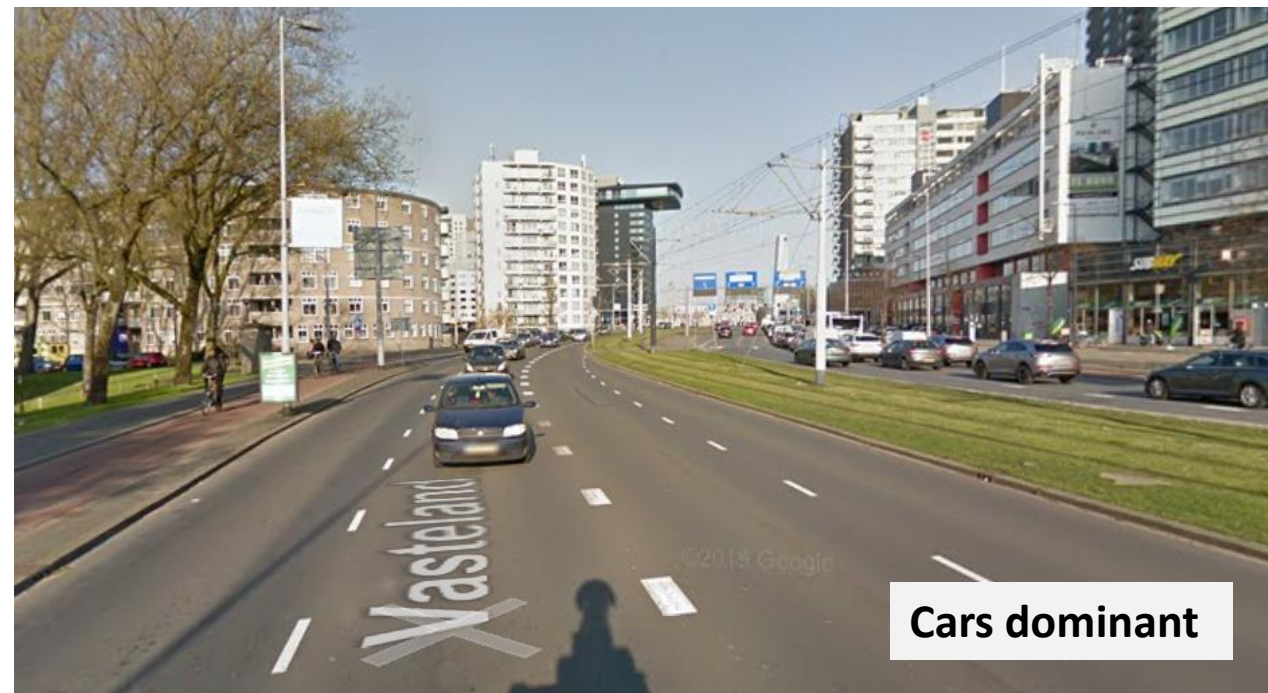
How to deal with micromobilities?



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Pedestrians dominant



Cars dominant

Urban environments and mass

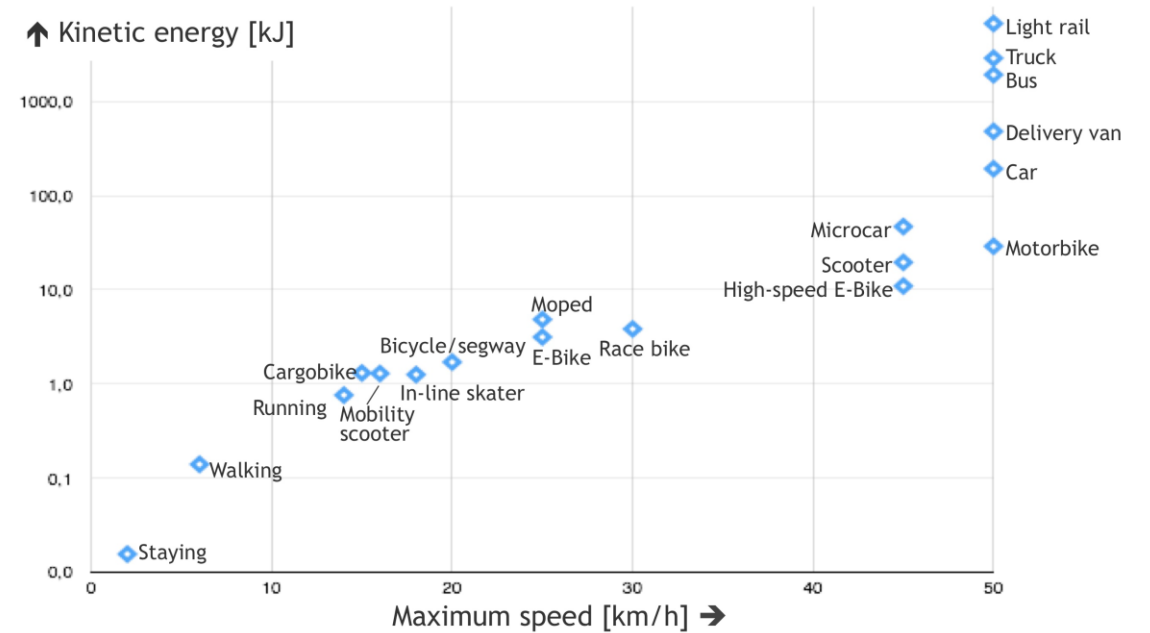


Back to the basics



Kinetic energy: $E = \frac{1}{2} mv^2$ (at 'maximum' speed)

↑ Kinetic energy [kJ]



Different urban environments



Mixing or separating: based on speed, mass, vulnerability, density,

How to mix: shared, lanes for specific modes, streets for specific families,

Direction of solutions: place, time, speed, network solutions, nudging,