## Walking – safe and attractive?

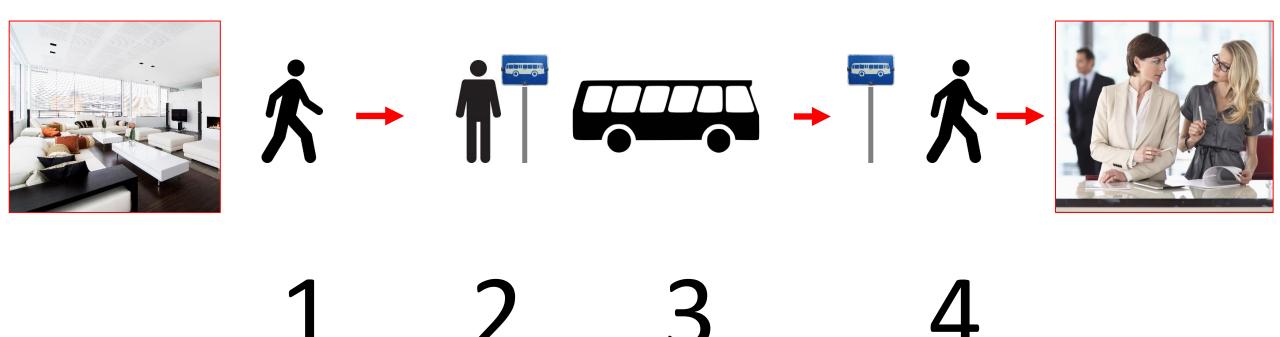


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## Urban mobility without car... ... much walking!



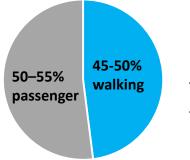
## Traveling by public transport - 4 stages



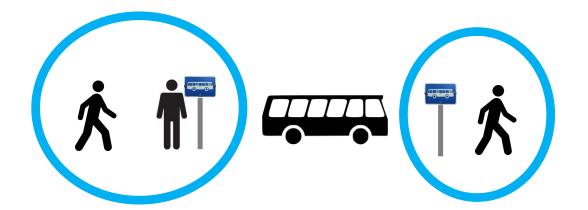


The majority walk to the stop **1. Public transport users are also pedestrians** 

2. Public transport depends on walking!



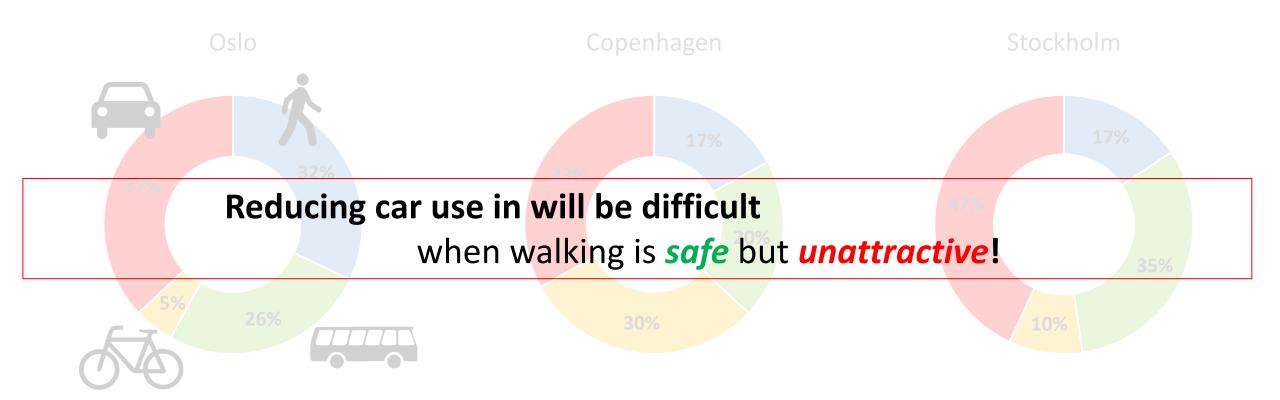
50% of the time on foot



30% Comments on bus journey 70% Comments on the walk to the stop

Impression of the walk to the stop dominates

### Modal Split data: Much walking!



### **Characteristics of pedestrian mobility**



### Pedestrians...

- Are light weight
- Have no turning circle
- Do not like detours
- Have no braking distance
- React intuitively and quick
- Behave spontaneously
- Consume little space
- Perform other activities while walking

- ...

### Walking is different from any form of wheeled transport!



### Walking is a sensory experience!



### **Pedestrians cannot switch off their senses...**

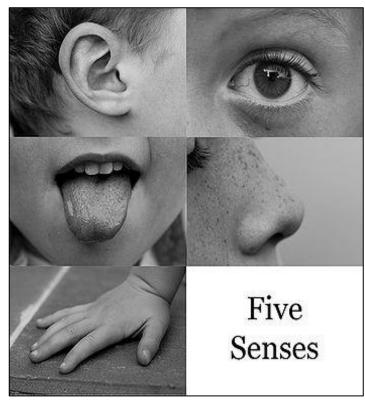




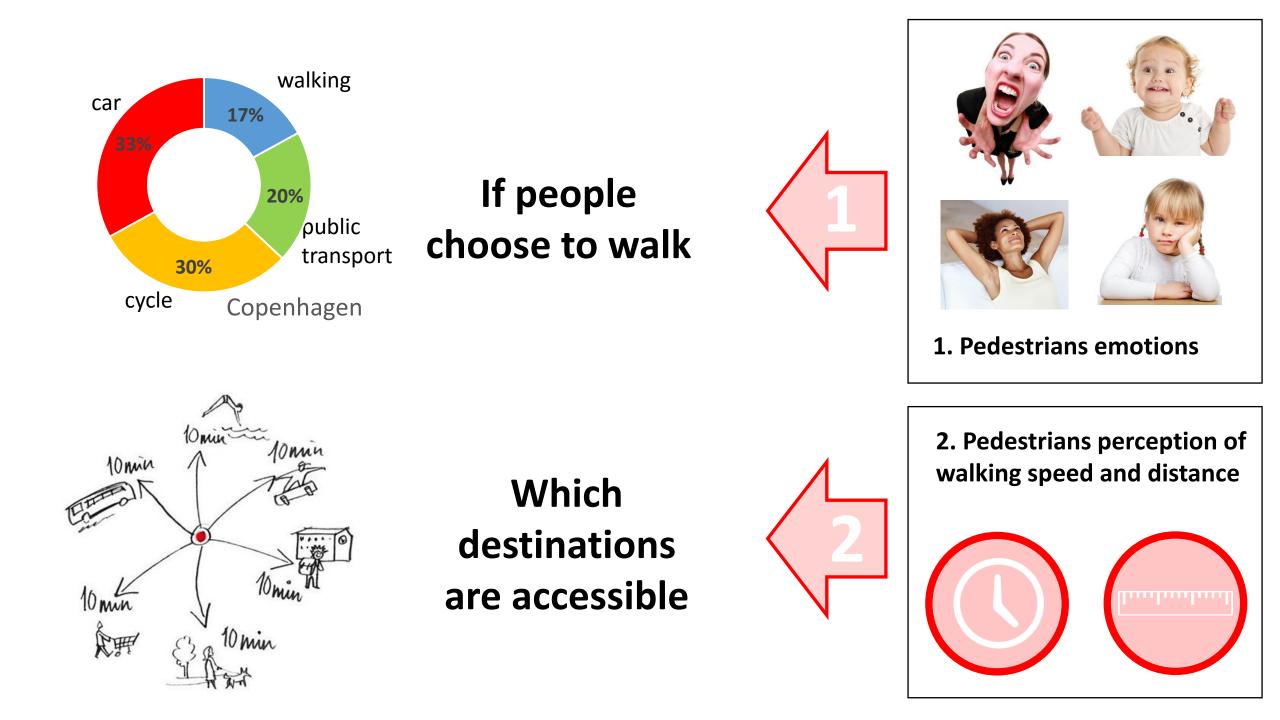




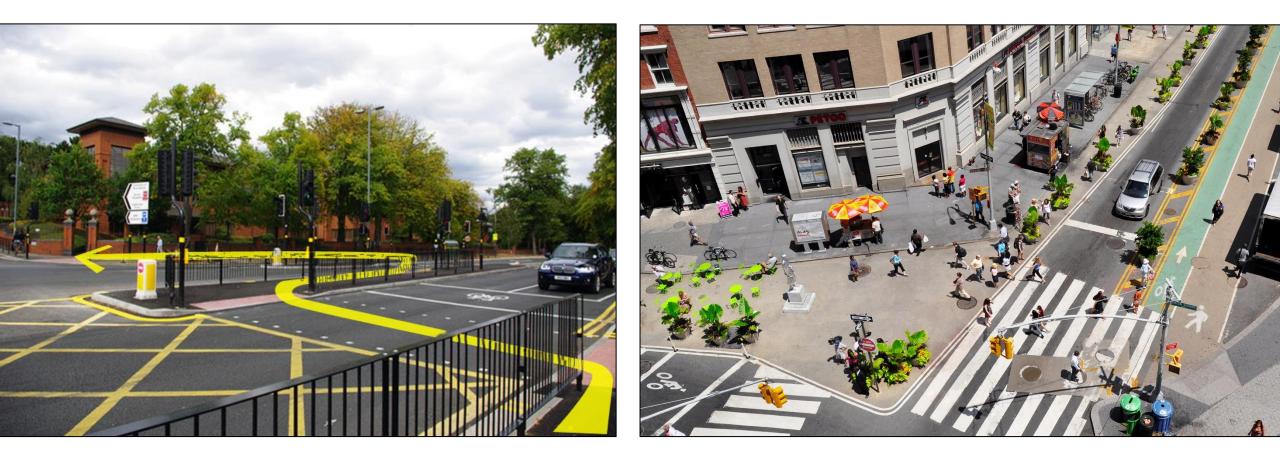
### Sensory impression while walking







## Good walking environments

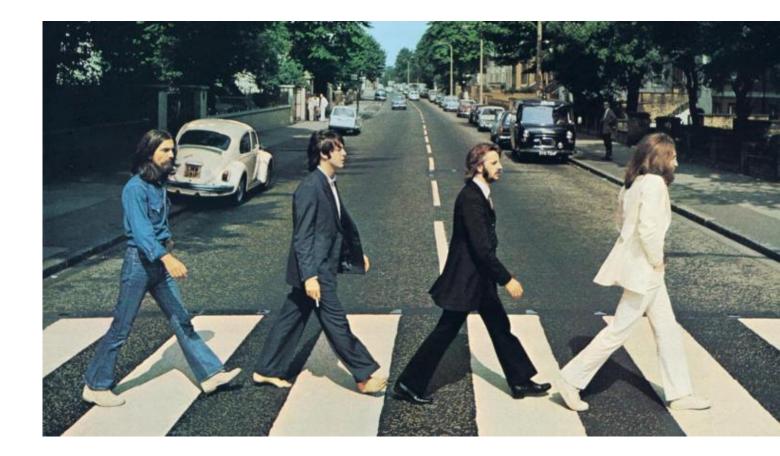




### No detours





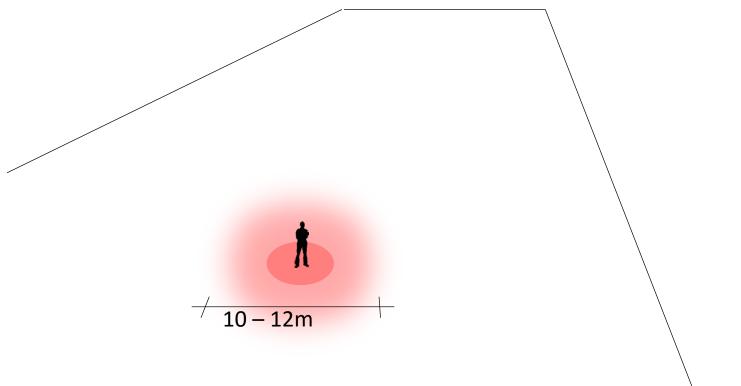




Provide right of way











### **Environments with human dimension**









## Variation!



- car traffic
- pedestrian safety
- attractive walking
- ... contradiction??



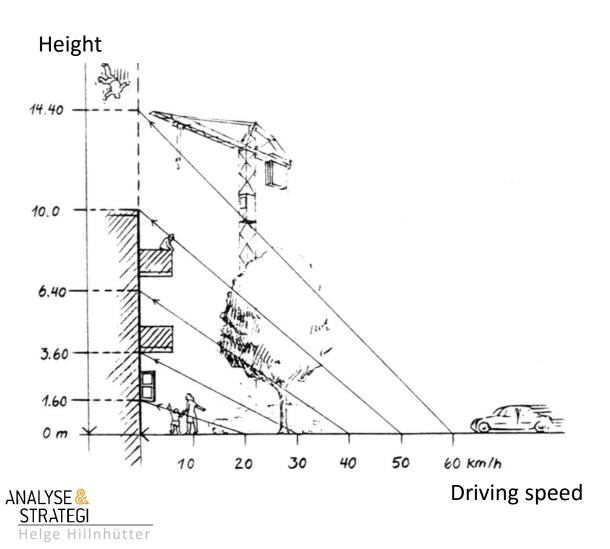
## Who is dangerous?

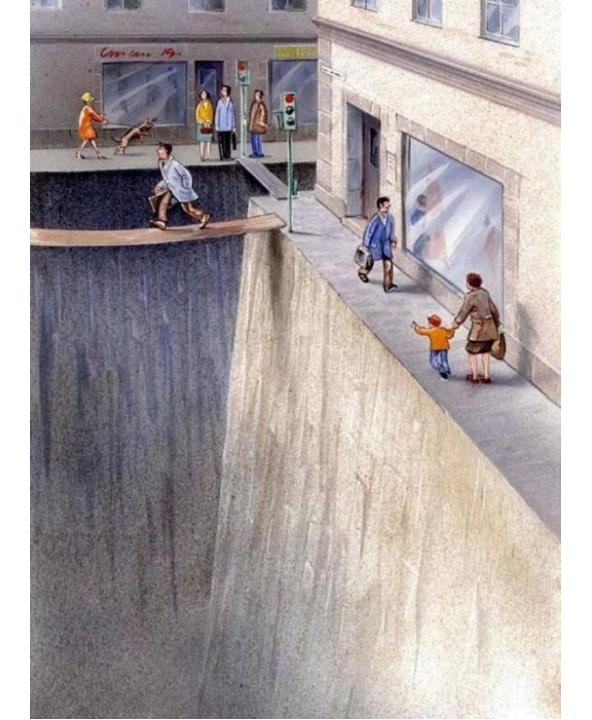


## Who bears the consequences?



### Accidents with pedestrians and cars





## Making walking safe...?

... fever accidents though more underpasses?

... so safe that no on bears to walk anymore!



### Underpasses

- More safe for children
- Long detours, boring ramps
- Increased energy consumption while walking up and down
- Unpleasant in dark underpass
- Reduced sense of security
- Impractical for disabled



### Clear run for cars!





#### **Preventing informal street crossings?**



1 informal crossing

2 informal crossings



Railings result in increasingly dangerous informal street crossings

## Attractive and safe – possible options



Colour instead of black asphalt

# 







- Slow down cars
- Ease street crossing







«Shared space»

Forcing car drivers to pay attention!





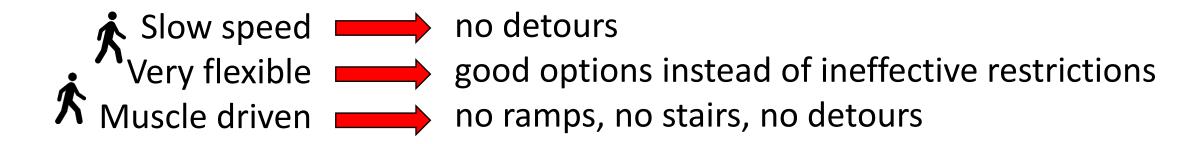
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«Shared space»



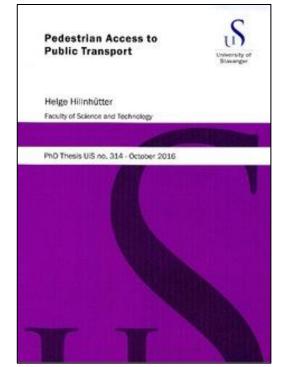
Street layouts that *suit the characteristics of walking* ... ... reduce accidents and comfort pedestrians





... but require car drivers to pay attention and to slow down.

#### https://brage.bibsys.no/xmlui/handle/11250/2422928





https://www.facebook.com/groups/walkthecity/

Helge Hillnhütter "Pedestrian access to Public Transport"

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