### Walking & Public Transport

**Potentials and Possibilities** 



**D**NTNU

Helge Hillnhütter Eng Architect, MSc. Ph.D. helge.hillnhutter@ntnu.no





## Walking – what is it?





Walking is an outdoor mobility



#### **Urban environment**





#### Impact walking experience



#### 1. Emotions



2. Perception of time







#### **Environmental influence on emotions**



















#### **Environmental influence on walking distance**





14%







## **Urban design principle 1**







# Variation!





### **Urban design principle 2**







#### **Environments in human scale**



#### What we reach on foot



How we choose to travel















Trip legs

**D NTNU** Helge Hillnhütter

## How do travellers arrive at stops and stations??





German National Travel survey 2010

## Travel time from door to door:





### What do you remember from a journey?









#### Good conditions for walking... potential for public transport







# Acceptable walking distances vary...





### **Catchment area triples in size**

3>

Notabene Kilden Kjøpesenter

**PT stop** 

### Potential

# How to achieve this effect?





# Conclusion









#### **Urban environment: Not a soft factor**









#### What we reach on foot



If we walk





**D** NTNU Helge Hillnhütter





## Walking for public transport ... and public transport for walking









#### Promoting walking & public transport together: Synergy effect



More effective reduce of car driving
Higher return from public transport investments!



