



Hillie Talens, project manager





THERE IS MORE TO CYCLING THAN INFRASTRUCTURE?



NOT JUST INFRASTRUCTURE

- 376 Logical part of society
- 378 Bicycle as default
- 375 Vehicle safety
- 37 Laws and regulations
- 376 Cycling inclusive policy
- Smart environmental planning
- Mode Scourage car use
- 378 Bicycle parking





BICYCLE INFRASTRUCTURE



TRANSPORTATION SYSTEM





CHARACTERISTICS CYCLIST



- Human beings
- Muscle power
- 370 Open air
- 36 Social activity
- 37 App 0.75m wide



CHARACTERISTICS BICYCLE

Balance (two wheels)
No suspension,
No crumple zones
No airbags
App. 0.75m wide





CITY - INFRASTRUCTURE (BICYCLE FACILITIES)



- Local opportunities
- Limited space
- Social activities
- Existing patterns and buildings
- Local policy goals



MAIN REQUIREMENTS

- 36 Coherence
- 3 Directness
- 36 Attractiveness
- 37 Safety & health
- 37 Comfort





COHERENCE



- M Consistancy of quality
- The second secon
- 36 Mobility chain
- Choise for more than one route

CROU

praktische kennis direct toepasbaar

DIRECTNESS

- 37 No unnecessary detours
- 376 Faster than car
- 37 Constant speed
- 37 Minimum delays



ATTRACTIVENESS

- Market Sychological elements
- **Merception**
- 3 Social safety
- 376 Go side by side
- Use environmental opportunities









SAFETY & HEALTH

- Mix if possible, seperate when necessary (low speed and low volume)
- Mode and Iand use
- 376 Vehicles (technique)
- Moad users (behaviour)
- Alternative parallel (high volume motorized traffic)







Railway station – CROW office

- 30km/h-zone (safe)
- 36 Buildings (safe)
- Less car traffic (safe, comfort)







COMFORT

- 3 Smooth suface
- 37 Minimum stops
- More Protection against weather
- The second secon
- Moid sharp curves
- Design speed 30km/h (20m/h)
- Movid steep slopes



CROU

praktische kennis direct toepasbaar

SAN FRANSISCO - THE WIGGLE



- Between Market Street and residential areas
- **Follows course of old kreek**
- Movid steep hills
- 3 Residential area





THE WHOLE EQUALS IS MORE THAN THE SUM OF ITS PARTS

))))):



BICYCLE INFRASTRUCTURE AND FACILITIES

378 Bicycle highways

- Priority
- Tunnels & bridges
- Main bicycle network
 - Bicycle streets
 - Bike lanes
 - Seperated bicycle paths
- 37 Basic network
 - Short cuts
 - Recidential streets (30km/h)
 - Home zones





LAWS, STANDARDS AND GUIDELINES

Basisregel voor ons werk



DEFINITIONS

- at Law, Royal Degree, order
 - need to be followed
- 3 Standard
 - deviate only in very special unforeseen situations
- 376 Guideline
 - deviate only with good arguments





GUIDELINES THE NETHERLANDS

378 Independent, collective

 Represents the expertise and experience available in (and sometimes outside) The Netherlands

Model in the court of law





GUIDELINES FOR GOOD DESIGN

Based on:

- 375 Sustainable safety
- Manual Scientific research
- Results out of experiments in practice



GUIDELINES FOR GOOD DESIGN



Design in such a way, that:

- The road user always knows what is expected from him;
- And knows what can be expected from other;
- No great differences in mass speed and direction;
- The road will be used where it is designed for;
- There is no dead penalty on failure.



GUIDELINES FOR GOOD DESIGN

- Latest state of science and technology
- **Standard solutions**
- Deviate when guideline is not applicable
- Tustom-made design





GUIDELINES FOR GOOD DESIGN

- Deviation is allowed only when:
- ✤ well-considered;
- in the spirit of the guidelines;
- suited to the expectations of the road users



CONCLUSIONS

Cyclist is not a pedestrian with wheels
Bicycle facilities need to be tailor-made (use local opportunities)
Handbooks should be for inspiration
Cycling is not just a sport
Cycling is not only for kids
Bicycle is not a poor man's Mercedes





kennisplatform

CROW



MORE INFORMATION

hillie.talens@crow.nl