Analysis of cyclists' safety on "bicycle streets" and other facilities in four large Dutch municipalities

Odijk, M.J.M.[1,2], Nabavi Niaki, M.[1], Ulak, M.B.[2], & Geurs, K.T.[2]

[1]SWOV - Dutch road safety research institute, The Netherlands

[2]University of Twente, The Netherlands

Municipality Houten (2020)

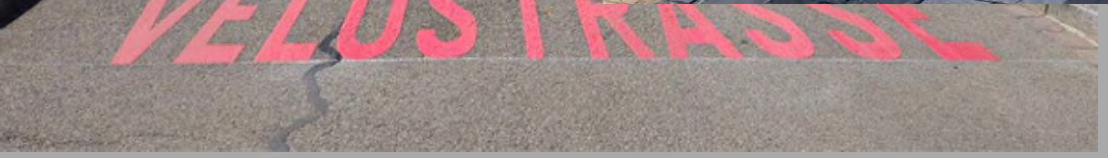
fietsstraat
auto te gast
uitgezonderd
V
fietsstraat
auto te gast

Bicycle infrastructure Houten

Bicycle path
Bicycle street

gemeente Houten

Van Gool/Municipality Houten (2020)


VELOSTRASSE

Fahrradstraße
Anlieger frei
NetCologne

DUSTER
DM-801-CC

Municipality Houten (2020)

Veerdam (2023)

Van t Woud (2019)

Legend

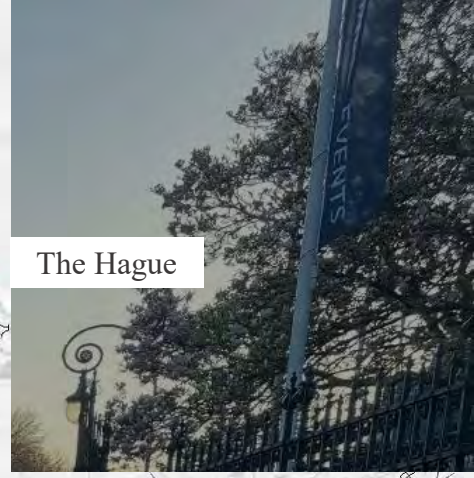
Bicycle facility

- Bicycle street
- Bicycle lane
- Bicycle path
- No facility/ residential

N

2 1 0 2 Kilometers

Data from: Fietsersbond (2019)

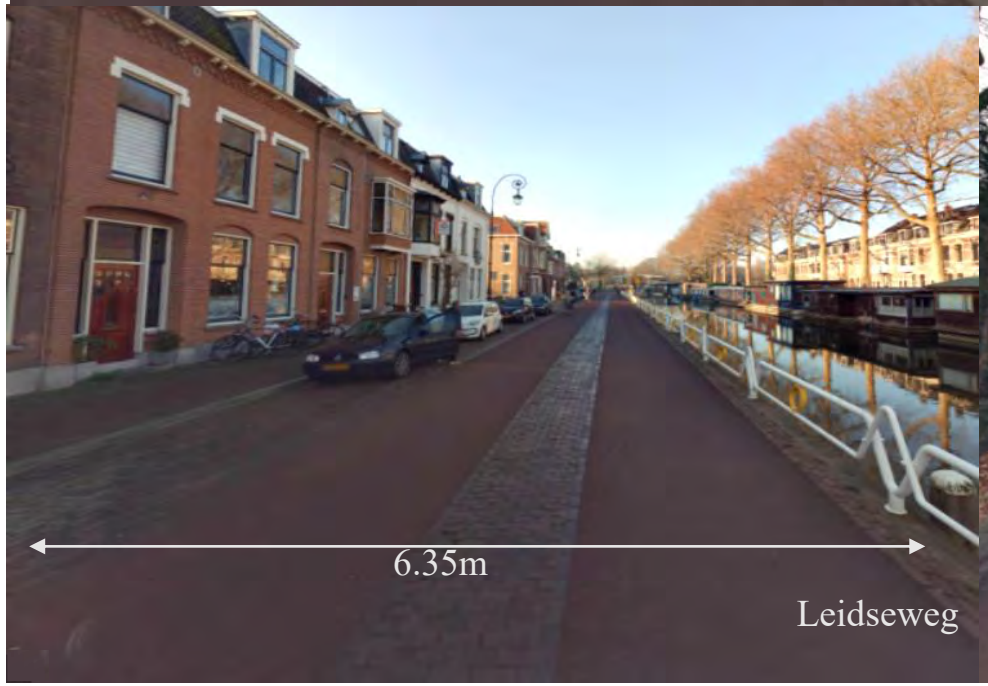


The Hague

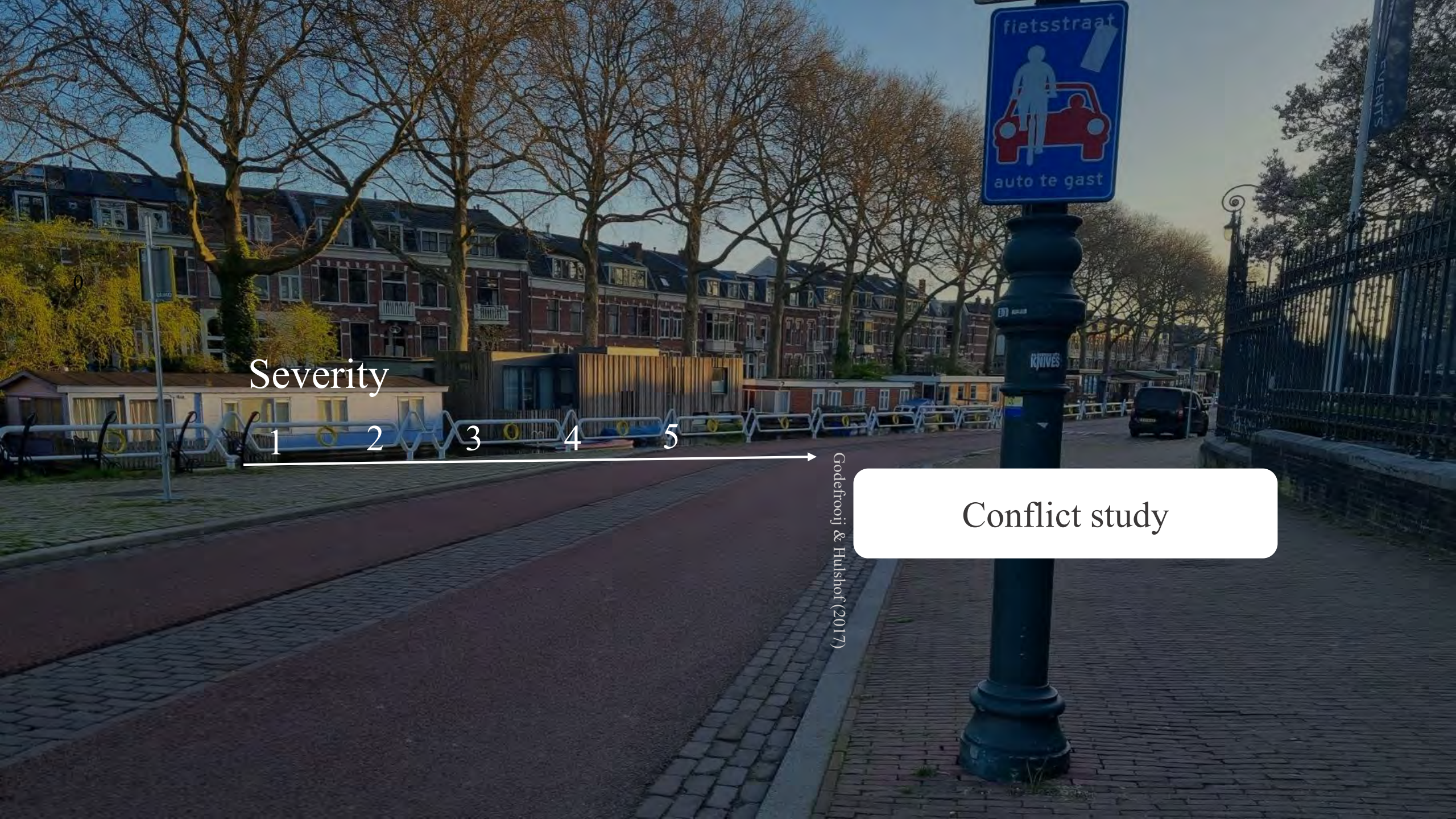
Rotterdam

Amsterdam

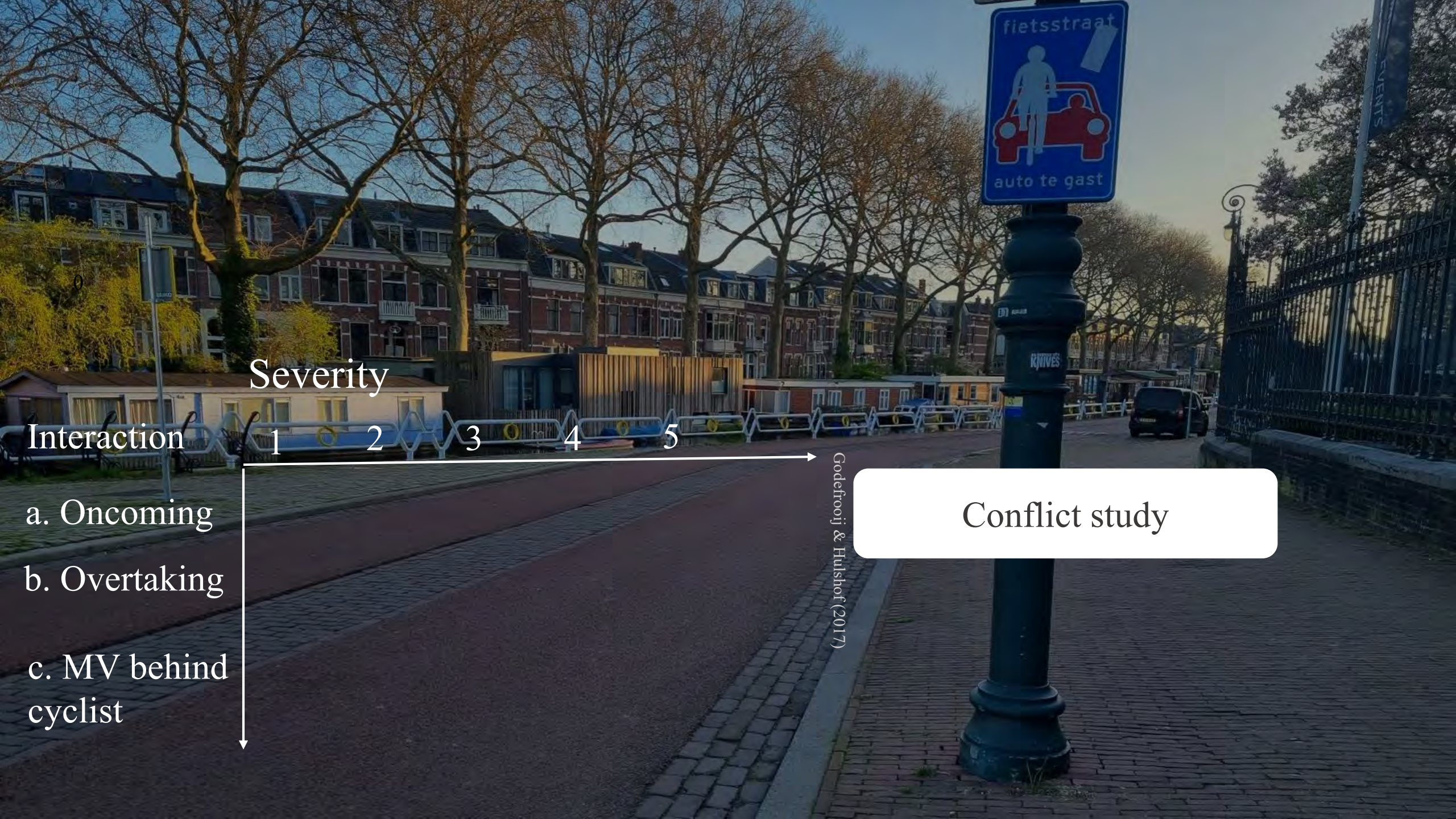
Utrecht



Cyclomedia (2022)



Conflict study


fietsstraat
auto te gast
Severity
Interaction
1
2
3
4
5
a. Oncoming
b. Overtaking
c. MV behind cyclist
Godefrooij & Hulshof (2017)
Conflict study

Conflict study

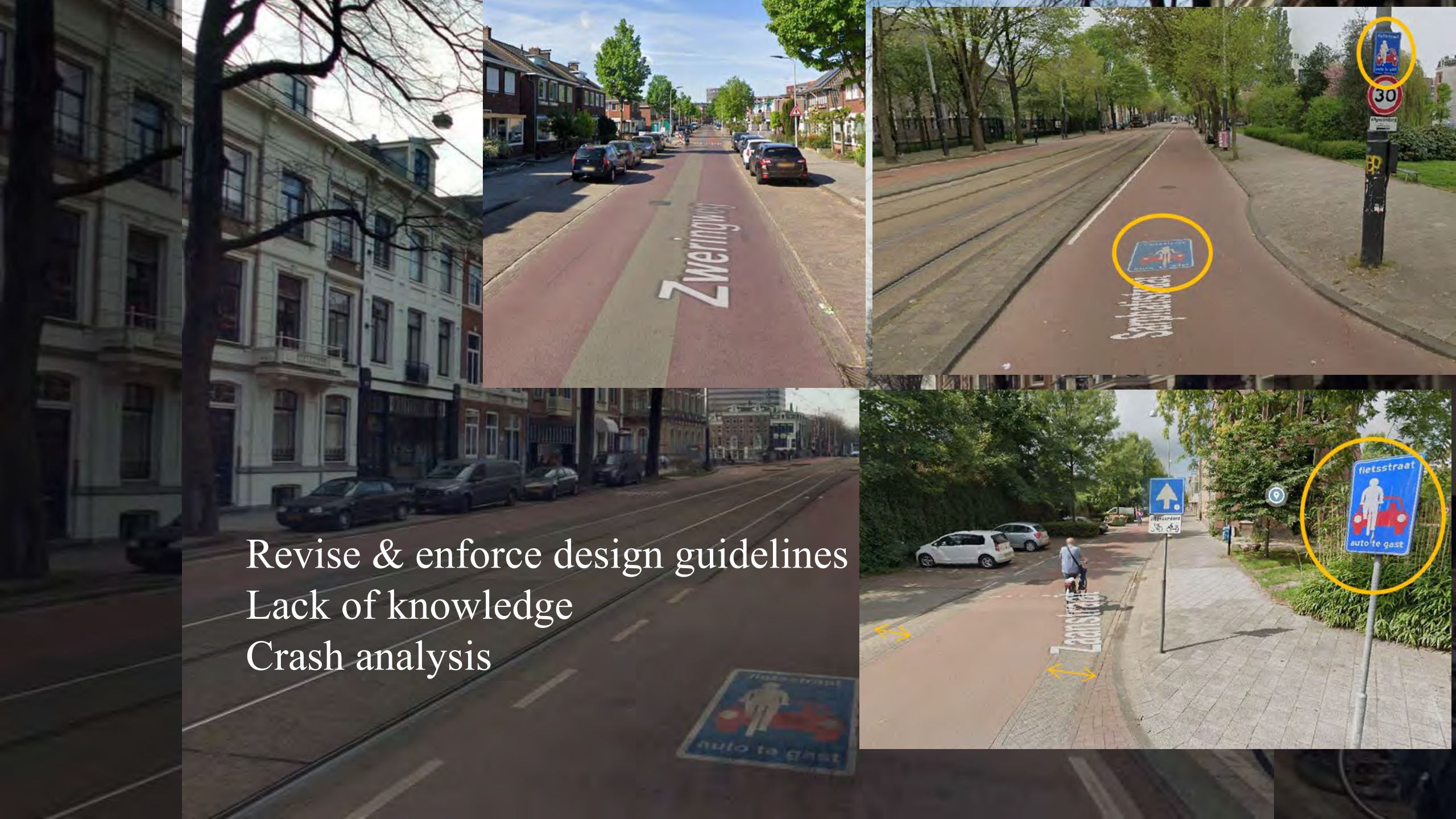
Interaction	Severity 1	2	3	4	5
a. Oncoming	189	57	11	0	0
b. Overtaking	581	85	28	2	0
c. MV behind cyclist	115	27	2		

Godefrooij & Hulshof (2017)

Conflict study

Conflict study

Conflict study



Revise & enforce design guidelines
Lack of knowledge
Crash analysis

fietsstraat
auto te gast

Albert Heijn

fietsstraat
auto te gast

SCHOOL

ma. t/m za.
9.00 - 23.00 uur
herhaling
fietsstraat

Municipality Houten (2020)

fietsstraat
auto te gast