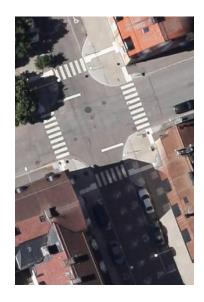


MIXED TRAFFIC

Is the same environment really the same?



driver view



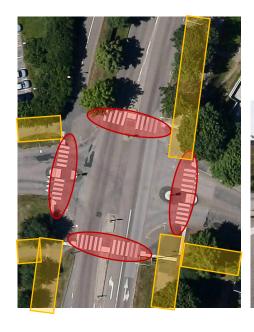
cyclist view





"SEPARATED" TRAFFIC

Are the different road user groups really that separated?



driver view



cyclist view





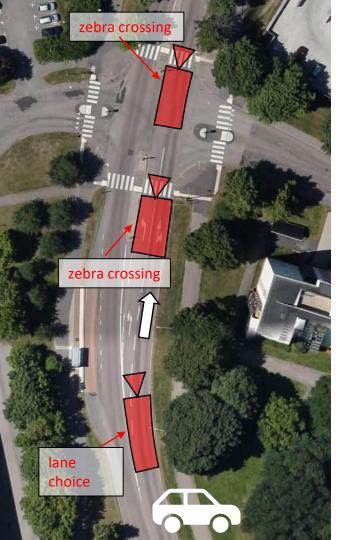
DIFFERENT WORLDS ...

- maintenance
- surface quality
- connectedness
- "straightness"
- efficiency
- forgivingness
- logic
- ...

- mass
- normal speed
- within-group variation
- ...

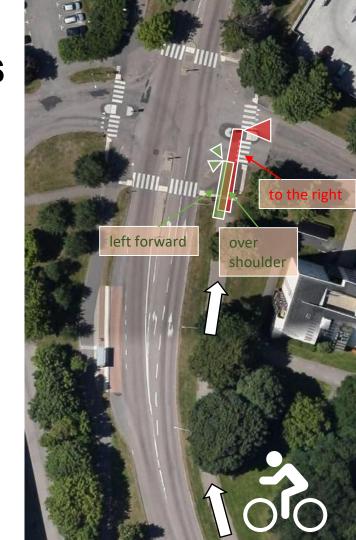
and also requirements on attention





(MINIMUM) REQUIREMENTS ON ATTENTION

necessary vs. useful
explicit or implicit
size
overlapping or not
sampling directions



REQUIREMENTS ON ATTENTION



zebra crossing

lane choice

yes	unclear
1	22
6	0
18	0
18	0
(78.3 %)	
7	22
(15.2 %)	(47.8 %)
	1 6 18 18 (78.3 %)

left forward

no

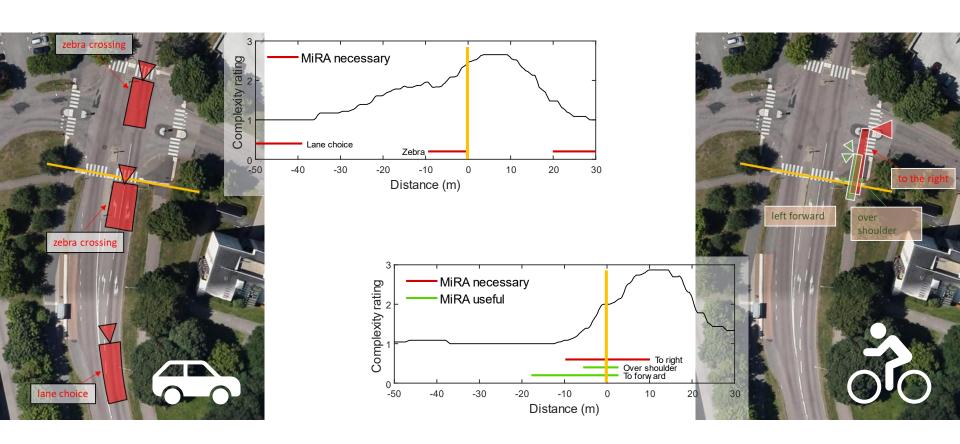
17

17

(21.7 %)

shoulder

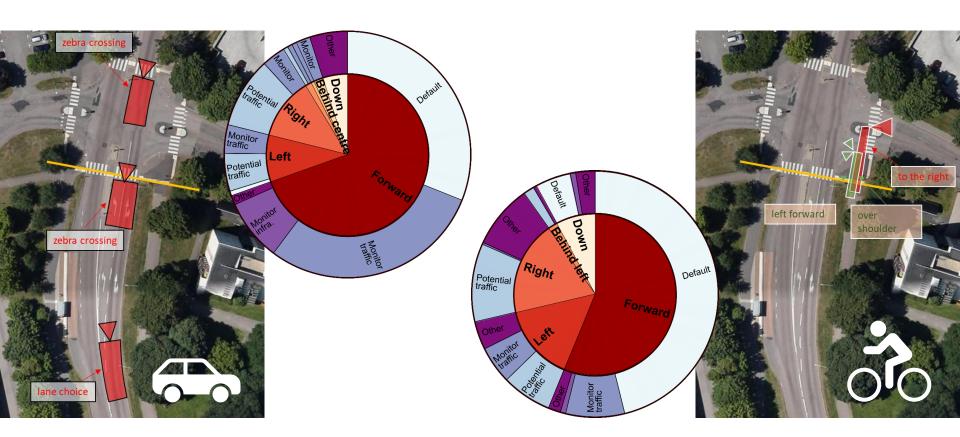
COMPLEXITY



GLANCE DISTRIBUTION

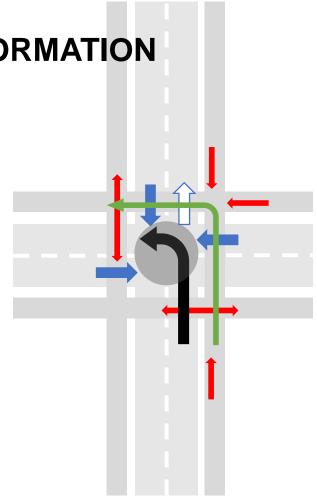


Default
Potential traffic
Monitor traffic
Monitor infrastructure
Other



RELEVANT INFORMATION

- requirements on drivers
- requirements on cyclists
- positioning and peripheral vision





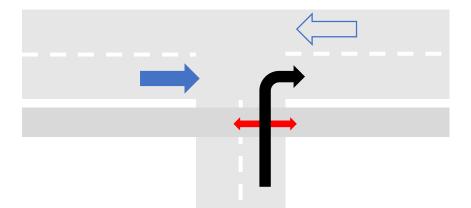
VISIBILTY, CONSPICUITY AND EXPECTATIONS

- visible and conspicuous = good, but not enough
- expectation is at least as important





DRIVERS' GAZE BEHAVIOUR



- more cyclists hit by cars turning right than by cars turning left
- less visual scanning to the right therefore lower chance to be detected





HOW TO IMPROVE THE SITUATION?

- Become aware of the issues
- Acknowledge them as actual issues
- Study and understand the issues and develop possible solutions
- Act accordingly





CHILDREN'S ACTIVE TRAVEL

(Project funded by Länsförsäkringars Forskningsfond)

Can we create an environment that is usercentred around children's needs?

- Where do children travel?
- Which attentional demands are put on them?
- How do children of different ages meet those demands when
 - cycling
 - walking





THANK YOU!

Katja Kircher VTI

katja.kircher@vti.se

