

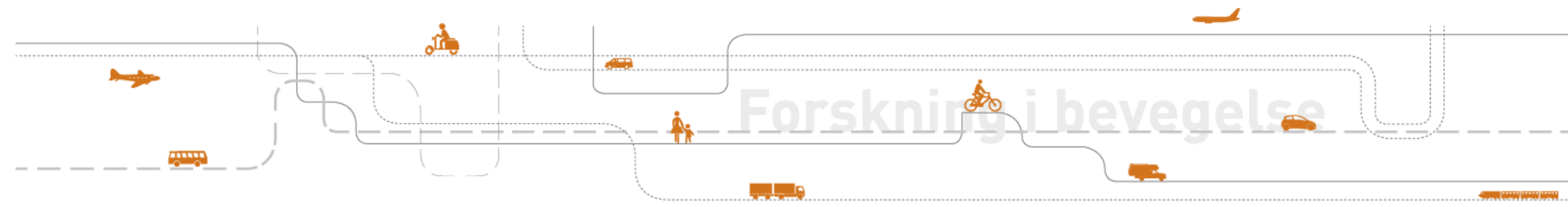
Video- og konfliktregistreringer i byområder

Nye muligheter for å kartlegge sikkerheten for fotgjengere og syklister

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Transportøkonomisk institutt,

Nettverk for Transportsikkerhet 30. mars, 2017



Hvorfor konfliktregistreringer?

- Få registrerte ulykker -> konfliktstudier et alternativ
- Konflikter = nestenulykker
- «Gammel» teknikk:
 - *Swedish conflict technique* (validert mot faktiske ulykker)
 - *DOCTOR* (Nederland)
- Stort potensial med video og automatisk deteksjon av konflikter









2013-10-29 15:40:44.480



Konfliktanalyse med T-Analyst

Norge_1a

Project Data Record Display Help

Detections

ID 128
Time 2013-04-19 09:30:54
Status OK
Type Other
Comment car not yielding

Video

Add New
Delete

14 of 18 (249)

Trajectories

Road user 1
Road user 2

Type

Length, m
Width, m
Height, m
Weight, kg

Key 1 Key 2

User-defined fields

Road user 1 cyclist
Road user 2 car
CA DB
Conflict? ☒ demo ☐
Relevant RU Motor vehicle
Evasive action sverving
TA, sec 1,4
Speed, km/h 26
Severity 25

00035 x1 show graphs

2013-04-19 09:30:56.440

TTC = 1,50s

0:00:02 0:00:14

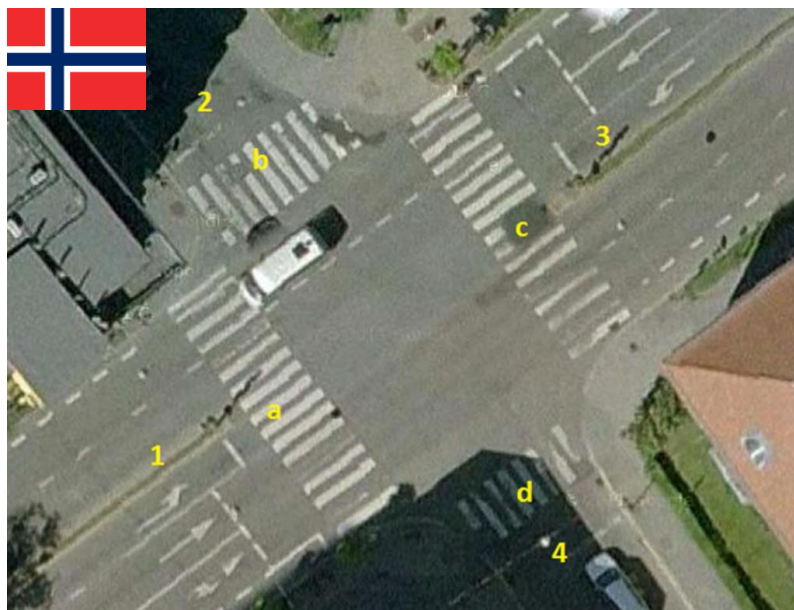
X: 2,4 m, Y: -9,8 m | X: 355 pxl, Y: 366 pxl | 1 pixel = 0,04 m

Konflikter i norsk og dansk rundkjørings

		Norway	Denmark
Exposure	Hours	75	75
	Cyclists (C)	11719	3158
	Motor vehicles (MV)	128792	54123
	$\Sigma(C/h \cdot MV/h) / 10^6$	22.93	2.93
Conflicts	All types	8	8
Risk	Conflicts $\cdot 10^3$ / cyclists	0.68	2.53
	Conflicts $\cdot 10^6$ / $\Sigma(C/h \cdot MV/h)$	0.35	2.73

Konflikter mellom syklister og biler i typisk norsk og dansk kryss

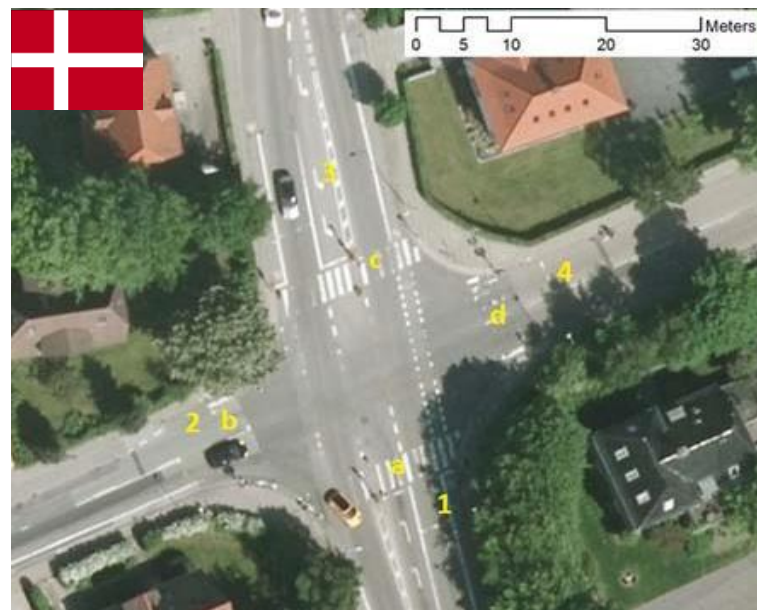
Kirkeveien – Suhms gate



Against red lights: June 2013: 6,9 %
April 2014: 3,4 %

Conflict share: June 2013: 0,3 %
April 2014: 0,3 %

Kong Christian allé - Hasserisvej



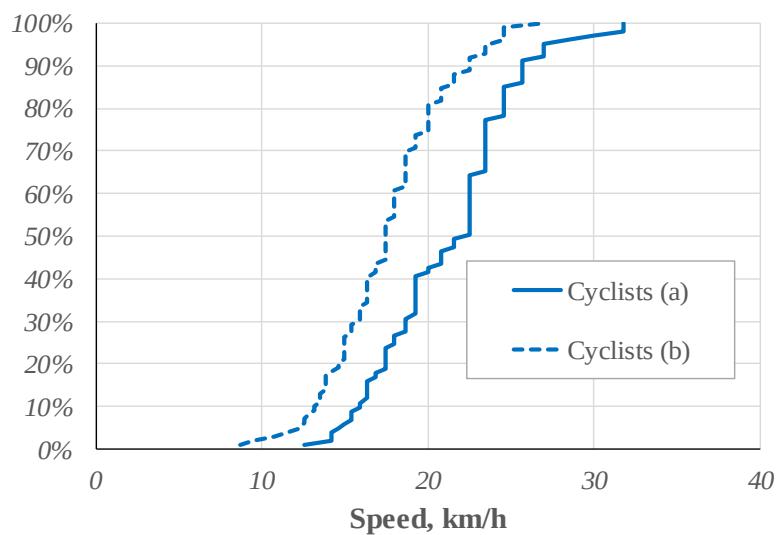
Against red lights: Sept. 2013: 2,8 %

Conflict share: Sept. 2013: 0,1 %

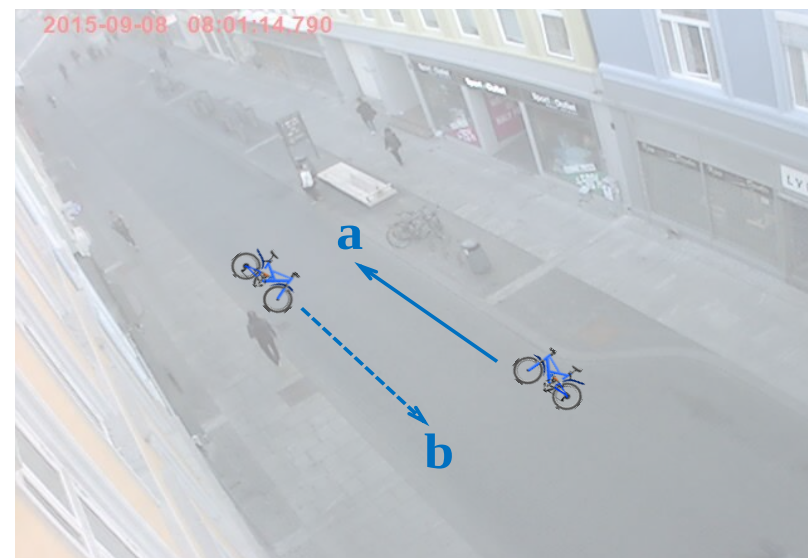
Torggata



Fart Torggata



Type (direction)	Speed, km/h		Count
	Average	85%	
Cyclists (a)	21,3	24,5	101
Cyclists (b)	17,6	21,0	99



Konflikt 1 - Torggata



Konflikt 2 – Torggata



Konflikt 3 - Torggata



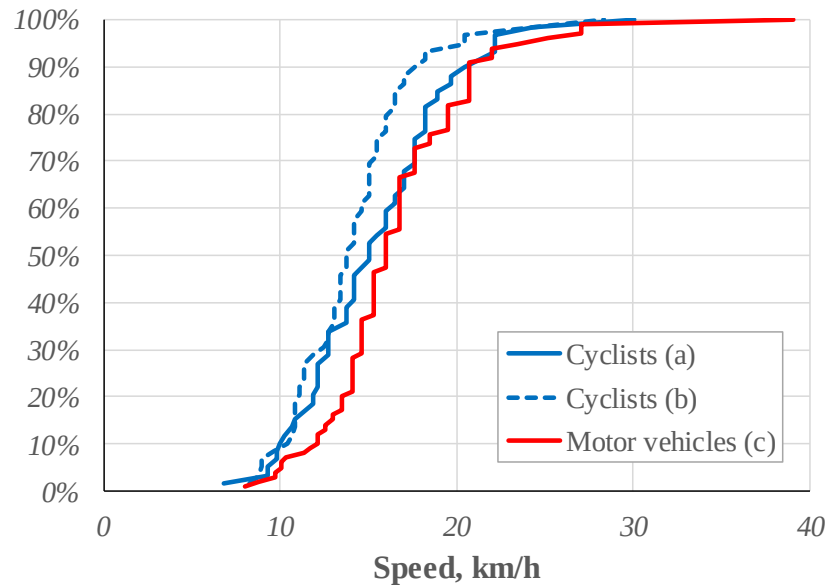
Konflikt 4 - Torggata



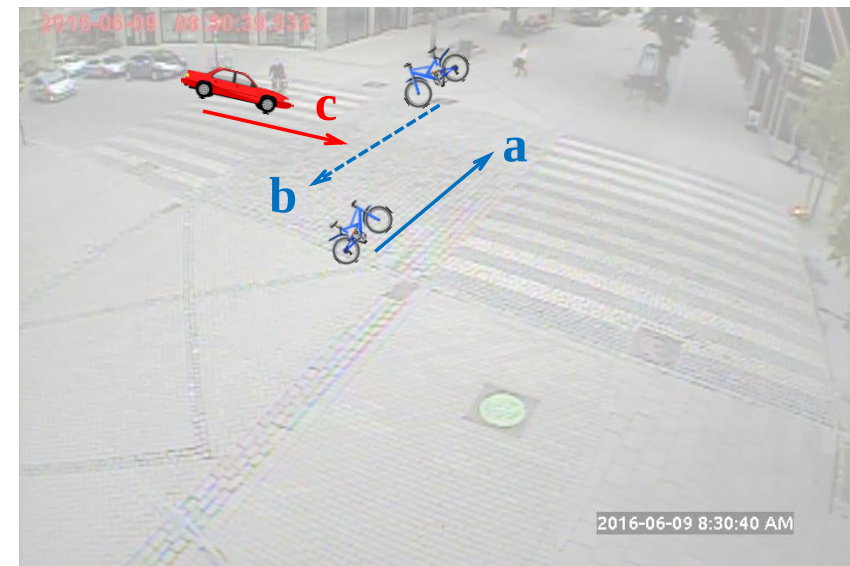
Nordre gt./Dronningens gt. Trondheim



Fart Trondheim



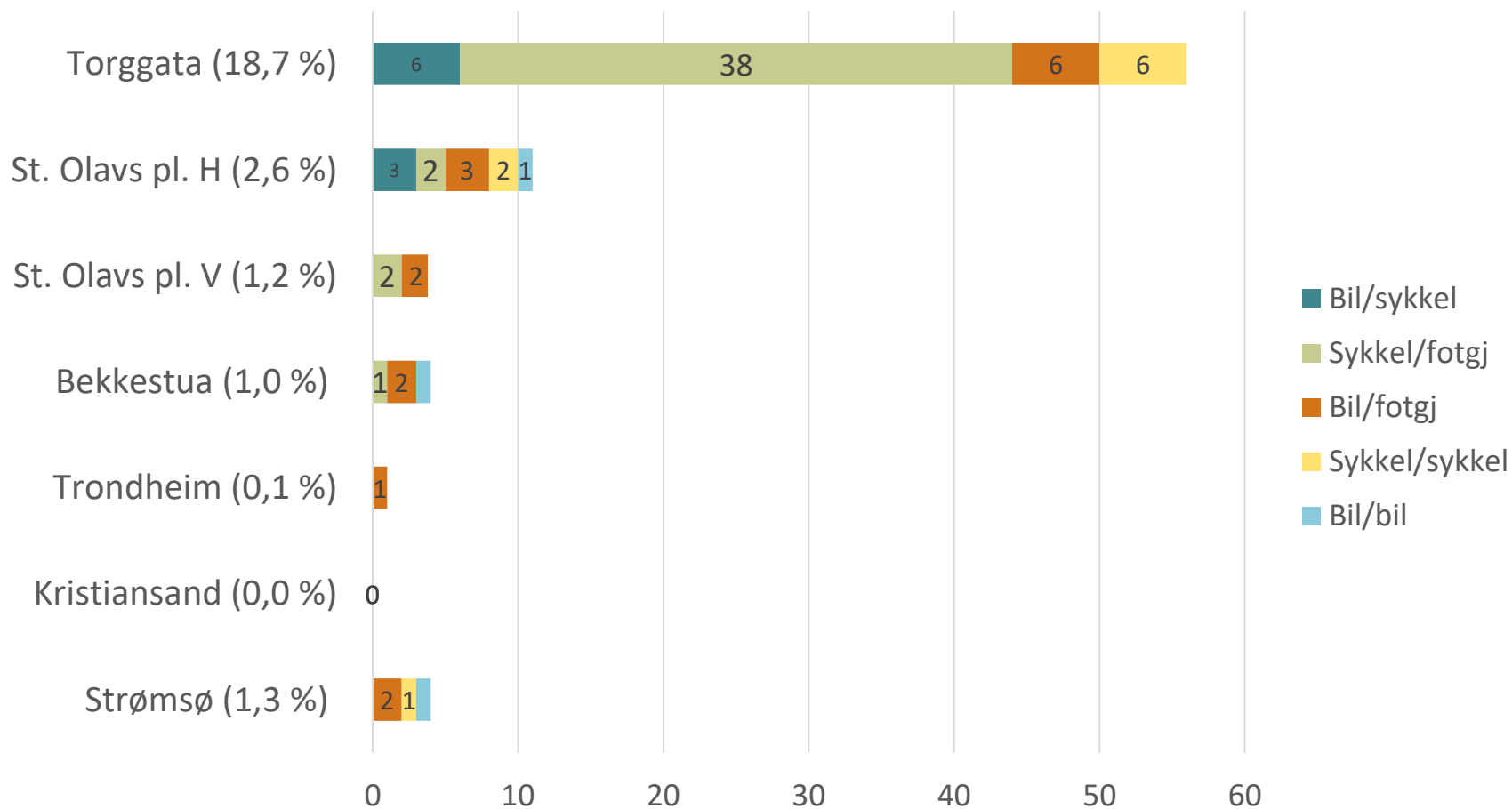
Type (direction)	Speed, km/h		Count
	Average	85%	
Cyclists (a)	15,4	19,1	59
Cyclists (b)	14,2	16,6	59
Motor vehicles (c)	16,6	20,7	99



Konflikt - Trondheim



Konflikter etter type (andel)



Takk for oppmerksomheten!

