





Cycling cities – e-bikes included! Experiences and strategies of smart (e-)cyclists

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- Growing number of cyclists and e-cyclists in cities
- Challenge for road users and for policy makers
- Risk potential of e-cycling
- Coping with potential risks





Some impressions











Team: AIT, BOKU, KfV, Carinthia, strombike

Project funded by the Austrian Road Safety Fund

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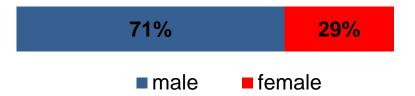


- Two field studies (Vienna and Klosterneuburg/A):
 - (1) test rides
 - (2) interviews with cyclists and e-cyclists
- Cycling expertise and experiences
- Interactions with other road users
- Strategies to ride safely in road traffic
- Acceptance of measures



Social demographics

Gender (n = 141 persons)



Age distribution





Conflicts when cycling

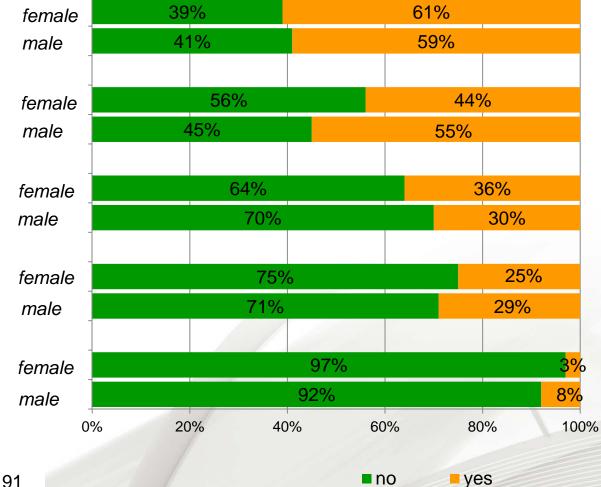


... car drivers

... cyclists

... pedestrians

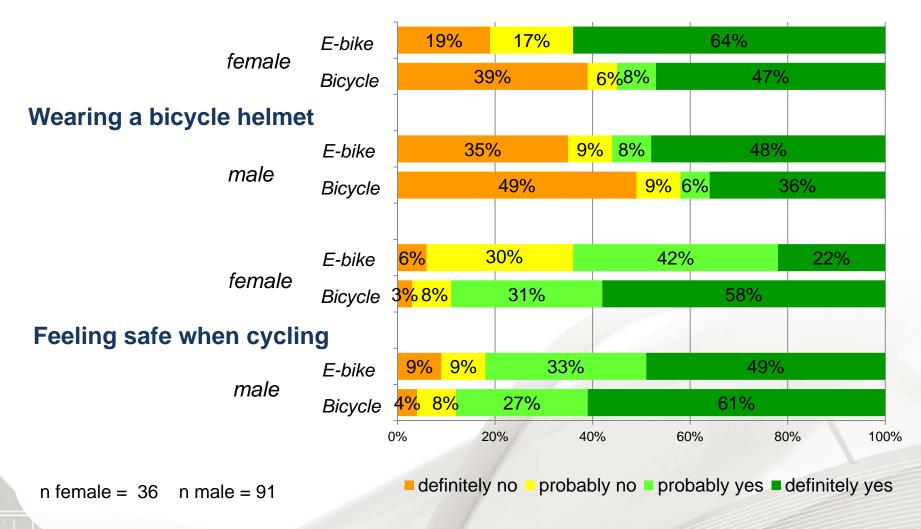
... others



n female = 36 n male = 91









Safety Strategies for e-cycling

Dismount in crowded pedestrian areas.

Sometimes cycling on pavement.

Always cycling on bike facilities.

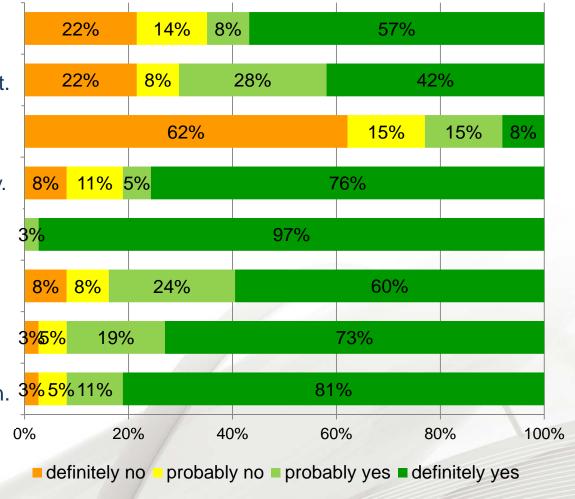
I give way to cars when necessary.

I respect pedestrians.

I bike defensively.

I break in good time.

I adapt my speed to the situation.

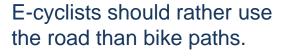


n = 34 active e-cyclists



Acceptance of measures I

Rating of bike infrastructure and e-bike policies ...

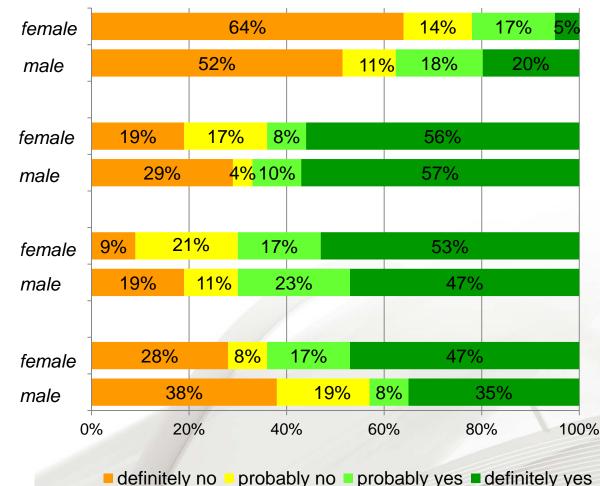


The use of bike paths should be compulsory.

Bike infrastructure is too narrow for e-bikes.

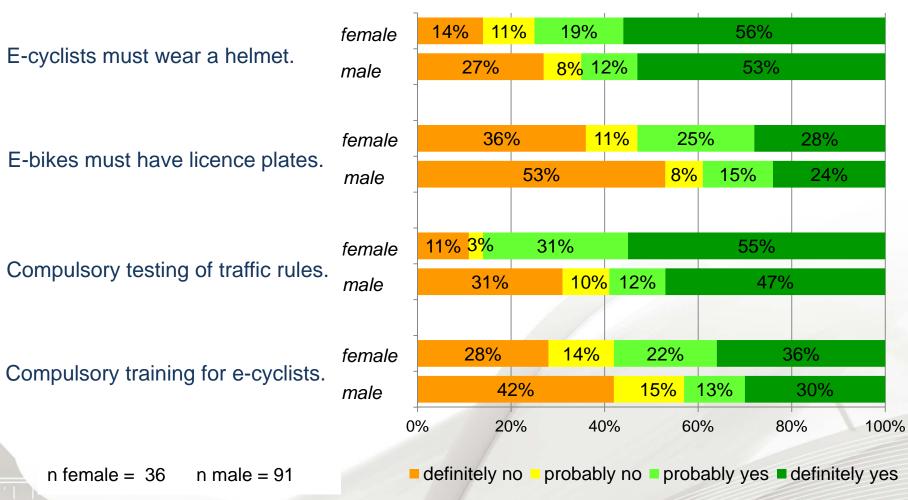
E-bike speed limited to 25 kph.







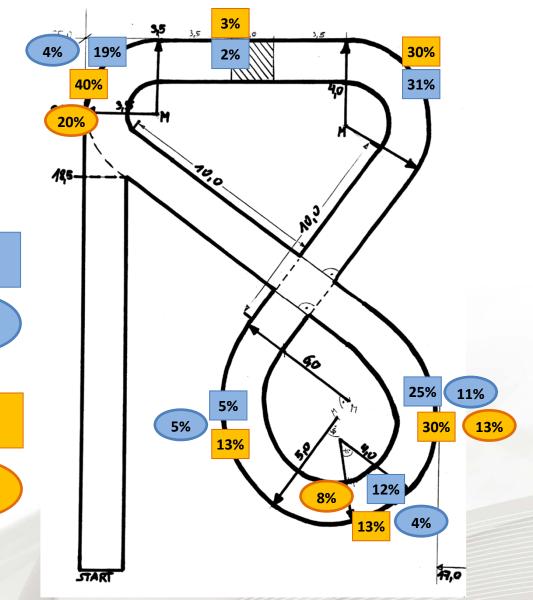
Regulations and policies for e-cycling ...







Problem spots experienced by test persons ...



E-BIKE

male

male BICYCLE

> female E-BIKE

female BICYCLE

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- Most test rides problem-free
- High awareness of road risks
- Seniors as typical e-bike users
- ➤ Riding an e-bike easy for experienced cyclists
- Policy measures needed

Velo-City 2013 Vienna



- Exact legal specifications of e-bike categories
- Recommendation for wearing a bicycle helmet
- Cycling infrastructure:e-cyclists permitted to ride on cycle paths ...
- ... BUT construction standards should be adapted!
- Trainings & courses

Velo-City 2013 Vienna









Thank you for your attention!

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E-bike interviews and test rides: 141 test persons

100 male (71%)

28 male (28%) active e-cyclists * 72 male (72%) no e-bike experience

91 male (91%) active cyclists* 9 male (9%) occasional/ (non-)cyclists 41 female (29%)

6 female (15%) active e-cyclists * 35 female (85%) no e-bike experience

36 female (88%) active cyclists* 5 female (12%) occasional/ (non-)cyclists

^{*} Kilometres travelled by bicycle or by e-bike last year > 10 km