





Have CIVITAS measures change the mobility mindsets of car drivers; the case of carrots and sticks in Perugia

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Perugia in a nutshell











- 168.000 inhabitants
- Height above sea level: 450 m (up to 493 m)
- Municipality territory extent: 449.9 Km²
- Modal shift:
- o cars 71,9%
- o PT 13,8%
- walking 10,0%
- o cars/1000 inhab.: 687,3











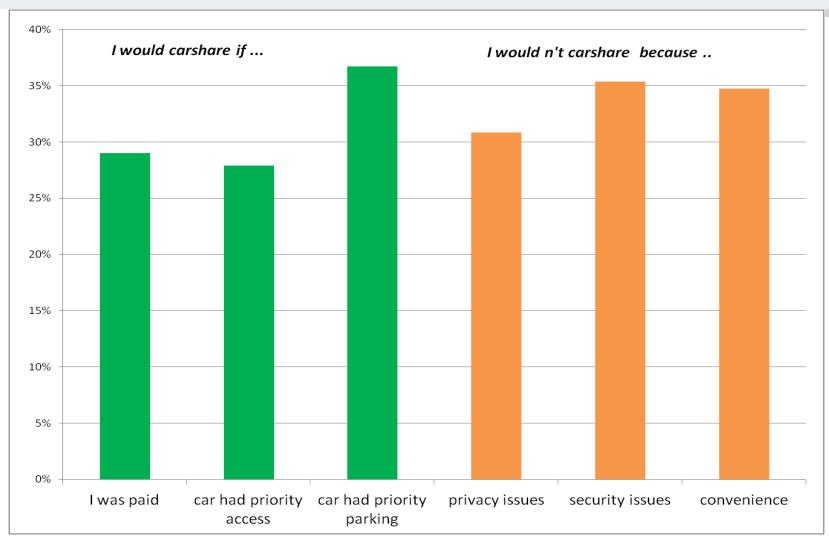
Survey & analysis methods



- Before survey N = 1899 car drivers
- After survey N = 2000 car drivers
- 20 attitude questions that were repeated in the before/ after surveys
- Many additional attitudinal questions
- Statistical tests of significance are any observed changes more than could occur by chance?
- Cluster analysis to identify likeminded groups of individuals ('Mobility Mindsets')

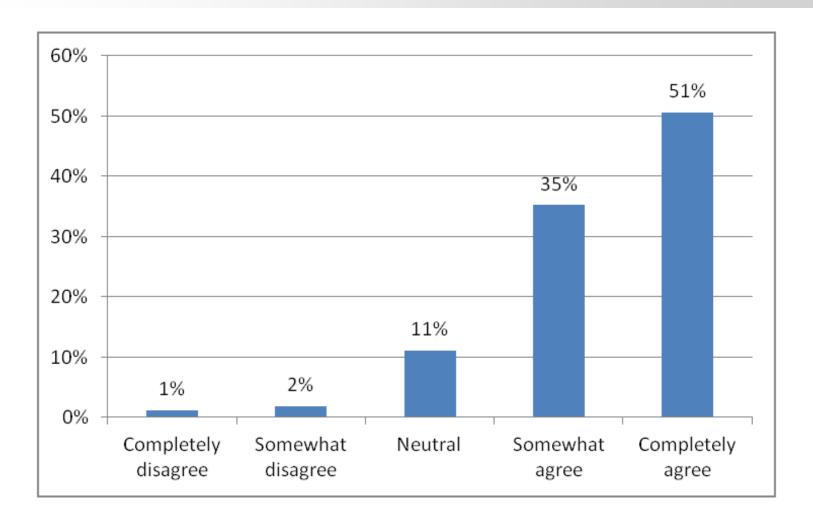
Before: Car pooling





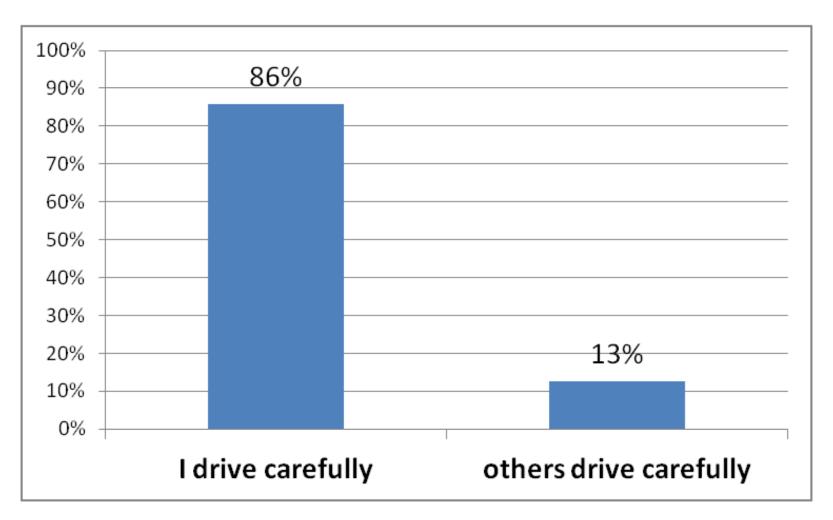
Before: "I would like the opportunity to travel greener"





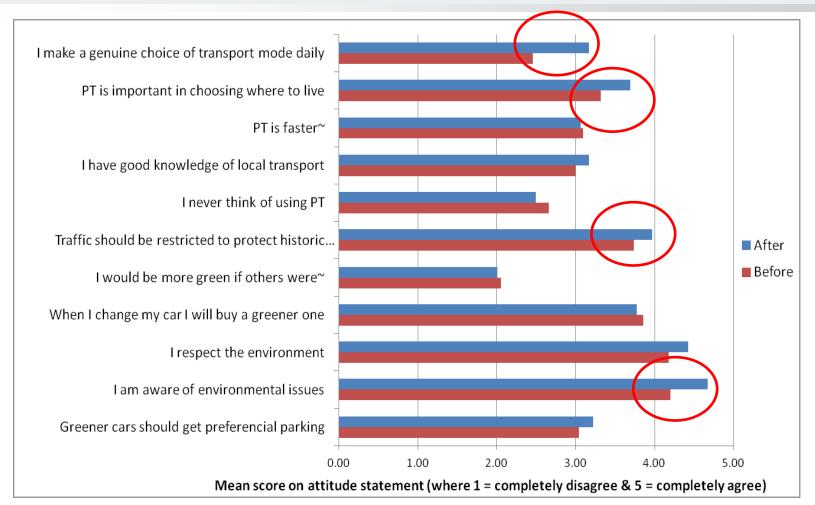
Before: beliefs about safe driving





Some key attitudes before/after (mean difference)



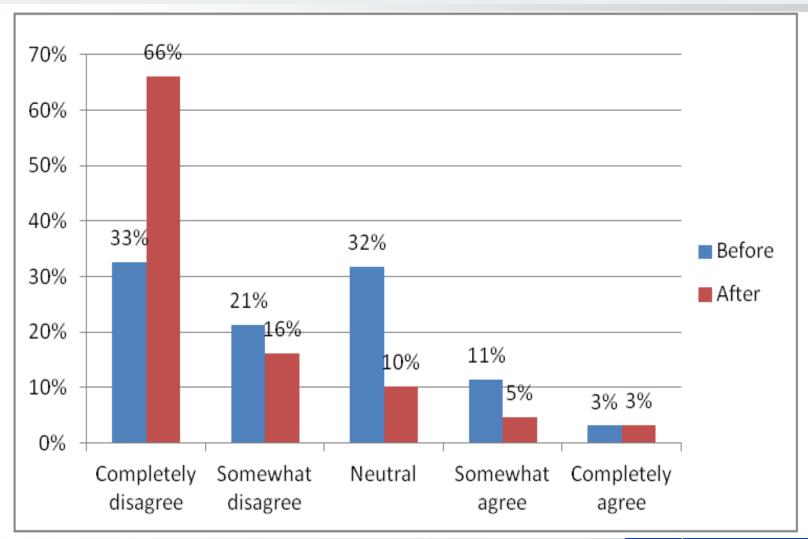


~ difference between before/ after is non statistically significant at P<0.05



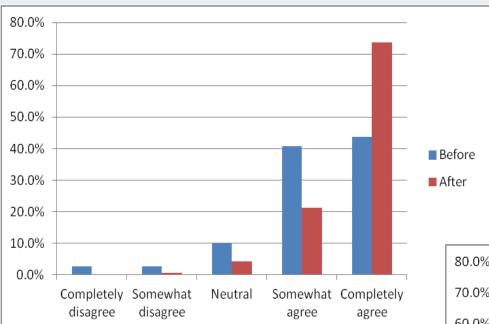
"Parking charges are reasonable"



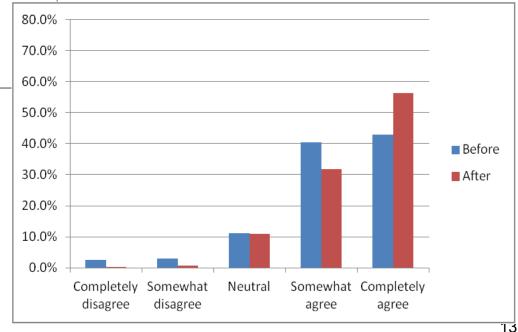


"Generally, I am aware of the importance of environmental issues"



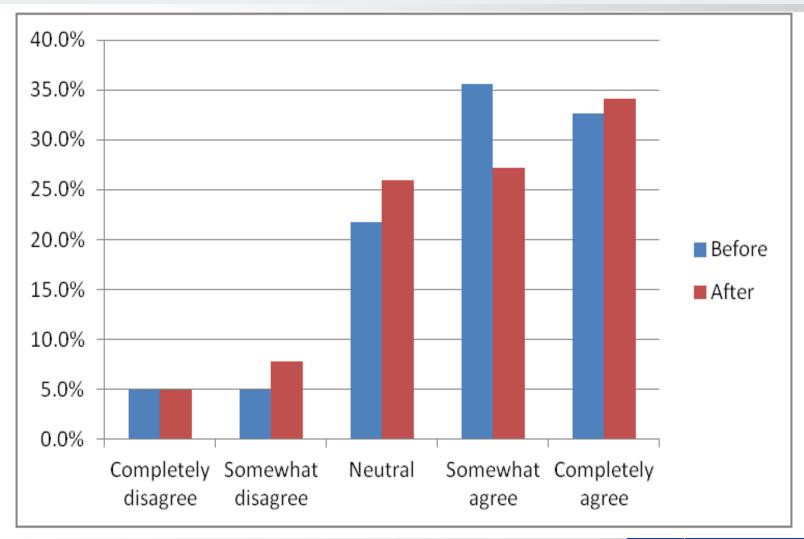


"I generally behave in an environmentally friendly way"



"When I change my car I will buy a greener one"





INITIATIVE IS CO-FINANCED BY

4 x 'Mobility Mindsets'



'I 'd never use "I really like PT, except driving, but PT maybe if I saw can be better others using it sometimes" **Unconvinced Pragmatists** Die-hard Converted **Drivers** "PT is faster, "I love driving. I greener, cheaper. Car just don't want traffic should to use PT." be restricted.."



Pragmatists

They like driving BUT see the benefits of other modes too

Believe PT can be faster and want to live near good PT

Unconvinced

Sceptical about the benefits of PT

Low environmental awareness

Image conscious

Converted

They see the benefits of PT

They want priority for greener cars to park

Environmentally

aware

Die-hard Drivers

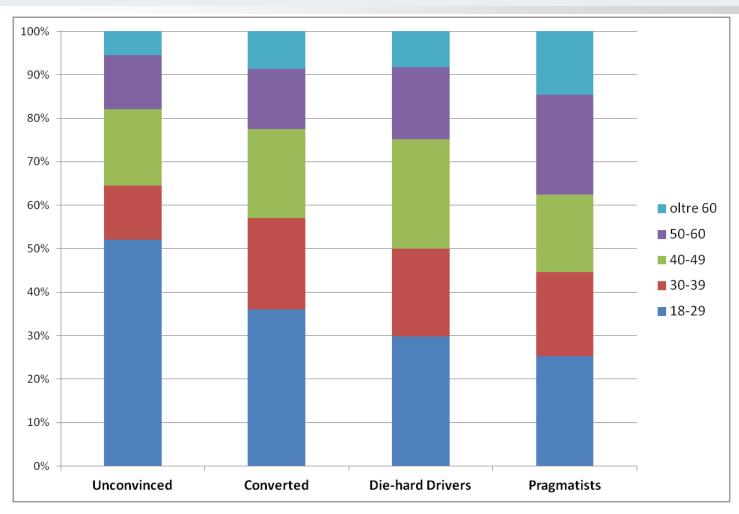
Love the car

Do not want to use PT even if they acknowledge some benefits



Age profile of segments

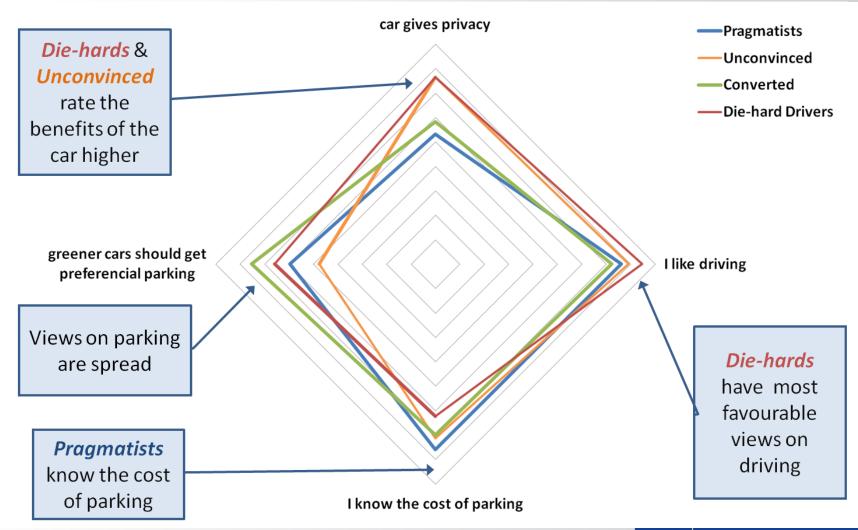




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Segment attitudes – driving/parking





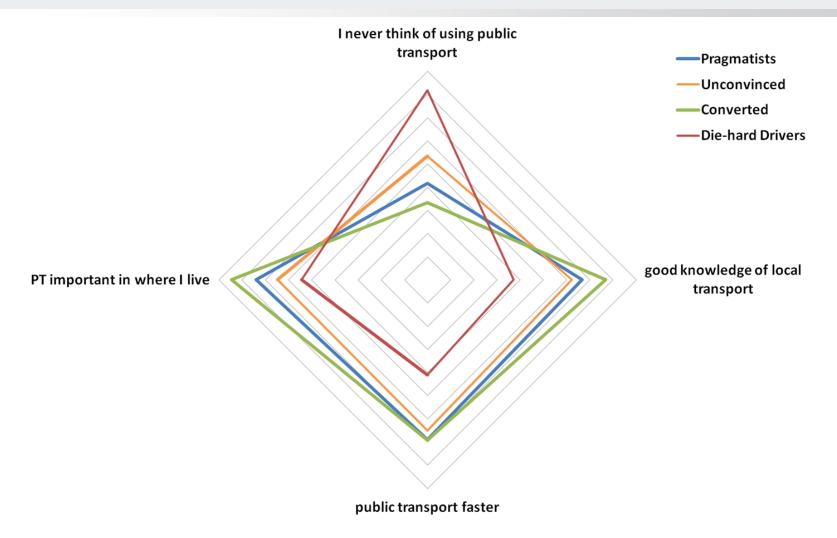
Segment attitudes – environment





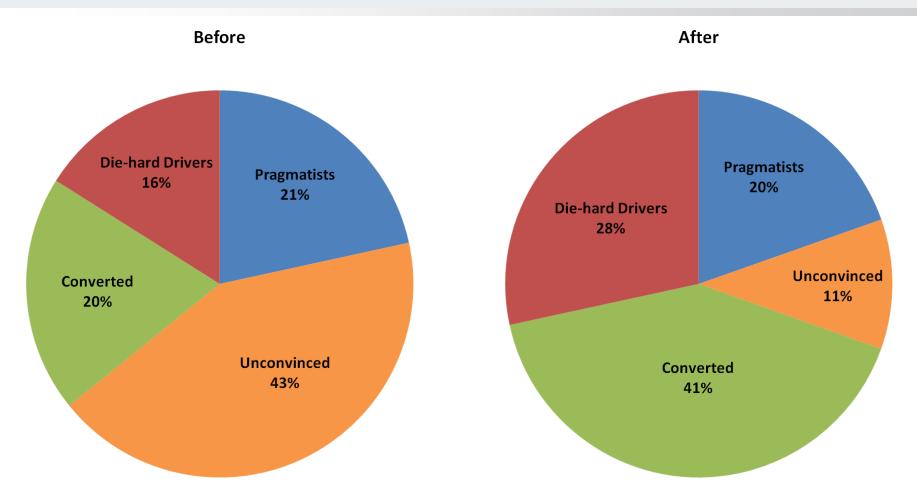
Segment attitudes – Public Transport





Mobility Mindsets – before & after





Key observations (1)



Converted up 100% (21%-points) *Unconvinced* down 75% (32%-points)

- This is significant because the Unconvinced were the ones most likely to say:
 - -"I am not aware of environmental issues"
 - -"I would be more green if others were"
- So it seems that <u>making them more aware and</u> changing the social norms around public transport had an **impact**.

Key observations (2)



Die-hard Drivers up 75% (12%-points)

•Some people will not be convinced by the new investment and views may become more polarised.

Pragmatists stayed the same

•This group are open to all kinds of transport. They are likely to have increased their use of PT after the investment.

Conclusions



- Mobility Mindset segments are a useful way of grouping the population according to propensity to use (and switch) to PT
- They can be used to monitor impact of investment in PT and Mobility Management investment
- The Unconvinced can be convinced!

Thank you!

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