



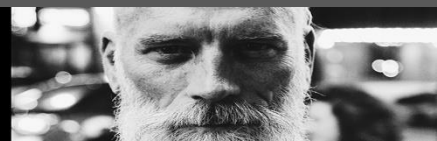
**WELCOME TO SAFER
WE RESEARCH TO SAVE LIVES,
PREVENT INJURIES AND ENABLE SAFE
MOBILITY. TOGETHER.**



Road User Behaviour



SAFER
VEHICLE AND TRAFFIC SAFETY CENTRE AT CHALMERS





SCOPE



MINSKA ANTALET
DÖDSFALL OCH SKADOR
I VÄGTRAFIKEN



Reference Projects



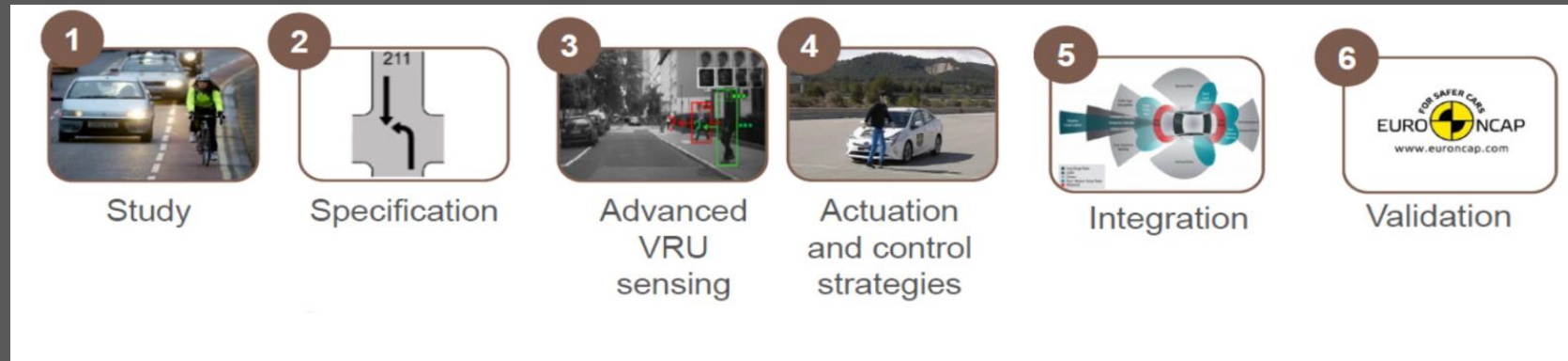
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Prospect www.prospect-project.eu

Improve the effectiveness of active VRU safety systems by:

- ✓ Expand scope of VRU scenarios addressed
- ✓ Improve overall system performance



PROSPECT systems are estimated to save 79-95 lives in 2025 and 280-336 lives in 2030 in EU28.



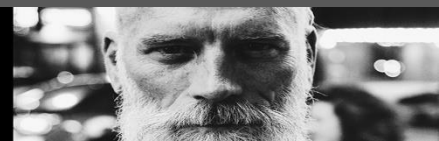
Cycle safety



Cycle Sim: Method development to study cycle safety

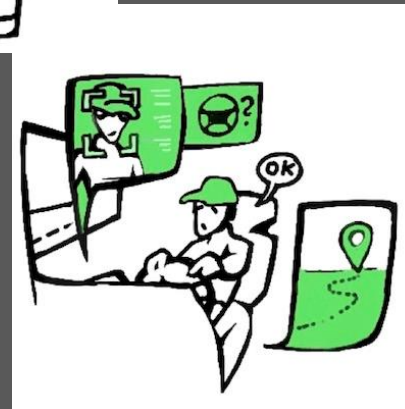
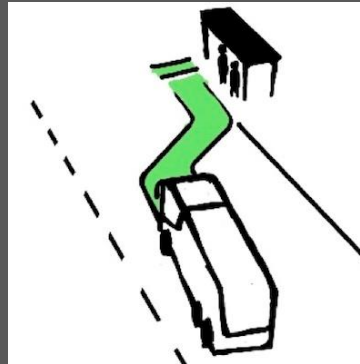


Sneaker: new bike design for improved comfort, stability and safety. New project “Safe mobility for a sustainable ageing”



ADAS&ME www.adasandme.com

ADAS to support incapacitated drivers Mitigate Effectively risks through tailor made HMI under automation



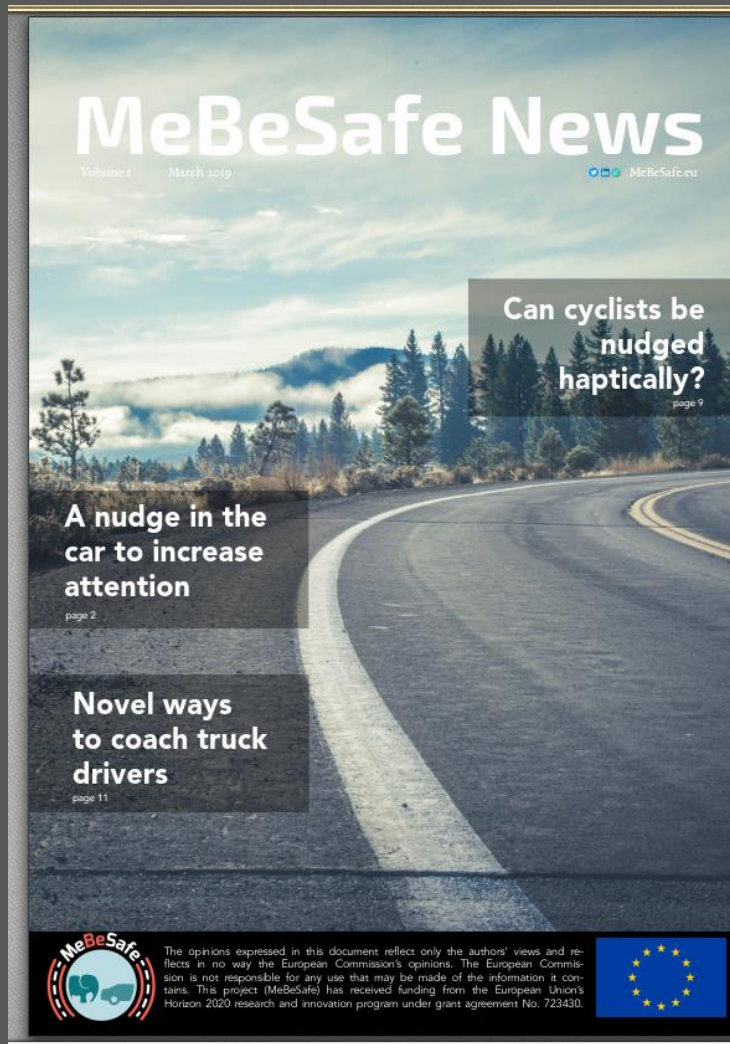
How Automation can support impaired drivers?



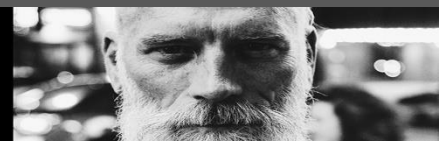
MeBeSafe www.mebesafe.eu

Measures for Behaving Safely in Traffic:

How to make cyclists behave in a safe way without forbidden them anything? Design a nudge!

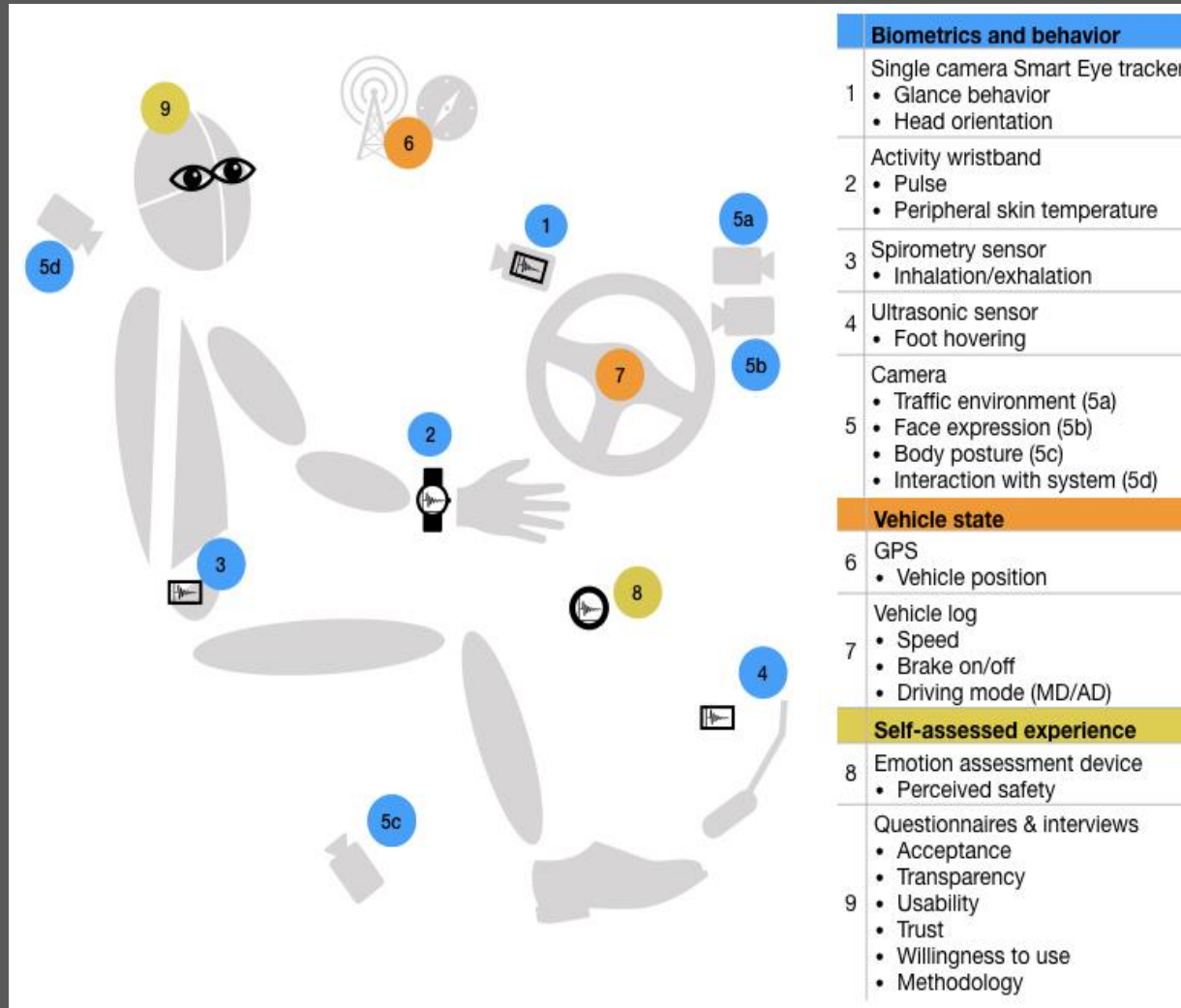


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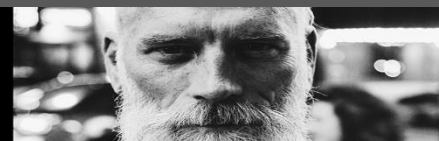


Methods@AstaZero

<https://azopenresearch.fluidreview.com/res/p/A0018/>



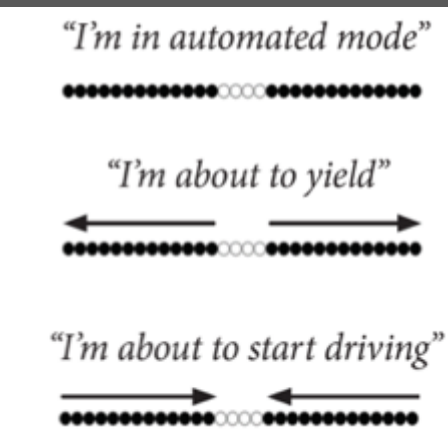
Mix of subjective and objective methods measuring driver behavior in automated vehicles.



- Establishment of **interaction principles**
- Design of **external vehicle interfaces**
- Development of **evaluation methods**

Interactions between automated vehicles and Vulnerable Road Users

<https://www.viktorias.se/projects/avip-automated-vehicle-interaction-principles>





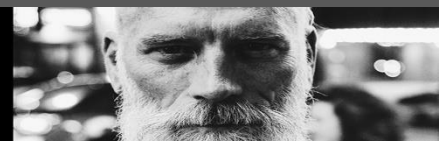
SAFER Ageing

How to maintain safe mobility as a car drivers as age increase?







- ✓ Several methods to identify conflicts and solutions
- ✓ Competence within simulations, ADAS, behavioral science, traffic medicine, driving education
- ✓ Collaboration between countries



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Our Goals to 2024

-  We can study road user behaviour in their door to door travels
-  We can monitor the driver state during the whole trip in-vehicle
-  We can diagnose a fit driver based on monitoring data
-  We can insure a safe interaction between automated vehicle and vulnerable road users
-  We have developed several nudge solutions and evaluated them
-  We can define and measure several user experience indicators to contribute to safety.

