



Day 1

B06 - Human Factors & User awareness

Moderators:

Anna Schieben

Research Team Leader for
Human-Machine Integration,
DLR, Germany.



Emma Johansson

Human Factors specialist,
Volvo Group Trucks
Technology, Sweden.





Session outline

- Intro
- 4 presenters with
 - 1-2 questions after each presenter
- Statements
 - Vote from audience & Speaker discussion
- Research needs



Speakers

- **Natasha Merat**

- Professor, Research Group Leader for Human Factors and Safety, ITS Leeds, UK



- **Satoshi Kitazaki**

- Director, AIST Automotive Human Factors Research Center, Japan



- **Trent Victor**

- Senior Technical Leader Crash Avoidance, Volvo Cars, Sweden.



- **Andreas Keinath**

- Head of Usability, BMW Group, Germany.





Humans will over-trust automation!

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Vehicles with any form of automation should be possible to operate without special driver training!

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Controlled simulator studies on automation effects are generalizable to real world conditions!

(e.g. hand-over time, trust & skill degradation)



Automation in vehicles will only be accepted if users are completely freed from the driving- & monitoring task & can do other on-board tasks!



If a vehicle is in a highly automated mode – this should be clearly communicated to other road users!



**People will change their
behaviour after becoming
accustomed to high level of
automation in vehicles &
this will change the
complete traffic system!**



Research Needs

- User centric design approach incl. interaction design for
 - in-vehicle environment
 - interaction with other road users
- User awareness and trust
- New HF methodologies for design, evaluation and testing
- User acceptability and costs
- Driver training
- Ethics, liability and data protection

From the CARTRE themes of Interest on 'User awareness' & 'Human Factors'

CONFERENCE

Connected and Automated Driving

TOGETHER, SHAPING THE FUTURE



Thank you!

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