

When Training Can Make The Difference

An evidence based overview

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SWOV

ITS can only be effective, if...

- It is used in the correct manner
- It is not used for the wrong reasons
- It is used in the right conditions (e.g type of road)
- It is not used in situations where it can't work
- It is used by the users for which it was designed
- Users don't rely too much on the system

Are all these preconditions met?

- What are the users actually doing?
- Have they read the manual?
- Have they understood all the details?
- Were the manuals complete?
- Is only providing information enough?

What can go seriously wrong ?

- Too high workload
- Boredom and inattention
- Loss of skill because of too infrequent use of skill
- Slower in actions, decisions and actions
- Reduced predictability of driver actions
- Too high a reliance on the system

What can go wrong in the traffic culture

- Reduced communications
- unpredictable behaviour for others
- Too abrupt reactions

All leading to unsafety in the adaption period

- Errors
- Violations
- Poor interactions
- Accidents?

What can training do?

- Increase knowledge
- Sensitize and stimulate awareness
- Develop and improve skills

Will any training be effective?

NO!

Better no training than bad training!

Will one training fits all?

Type and content is dependent on driver group

- Experienced (Standard) drivers
- Novice drivers
- Elderly drivers
- Professional drivers
- Drivers with special needs (disabled)

Are training modules available?

- many advanced driving courses but few special modules directed at ITS use.
- ITS and ADAS is not a part of the current driver training
- There are only few special courses available for ITS/ADAS
- No evaluations

Are training tools available?

- There are many tools (hardware like simulators)
- Only few curricula (software: what is exactly taught)

Conclusions

- ADAS/ITS effectiveness is on dependent system use
- Several potential problems
- Training programs limited available
- Effectiveness is not known
- Better no training than

- **Do you find training on ITS useful and why?**
- **Do you think training on ITS should be mandatory for drivers**
- **Do you think that ADAS manufacturers should provide training on ITS to the drivers?**
- **Do you think that the currently available manuals for ITS products installed in vehicles are sufficient?**
- **Would you support supplementary training methods (driving simulator, multimedia training tools, etc) for ITS training?**
- **Who is to be responsible for implementing such training?**