

Psychological aspects to be considered in driver training identified with PROMETHEUS Checklist

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Overview

- Prometheus Checklist
- General and technical questions
- Functional and behavioural aspects
- Impacts of new IST

Overview

- Overview of psychological aspects
 - 3 learning mechanisms
 - Problems connected to the transfer of information
 - Side effects

Checklist

General/
Technical

Functional/
Behavioural

Impacts

Psychological
Aspects


Learning

Info-transfer

Side effects

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Prometheus Checklist

- 
- Prometheus Safety Group
 - HOPES
 - SAVE

Prometheus Checklist

Checklist

General/
Technical

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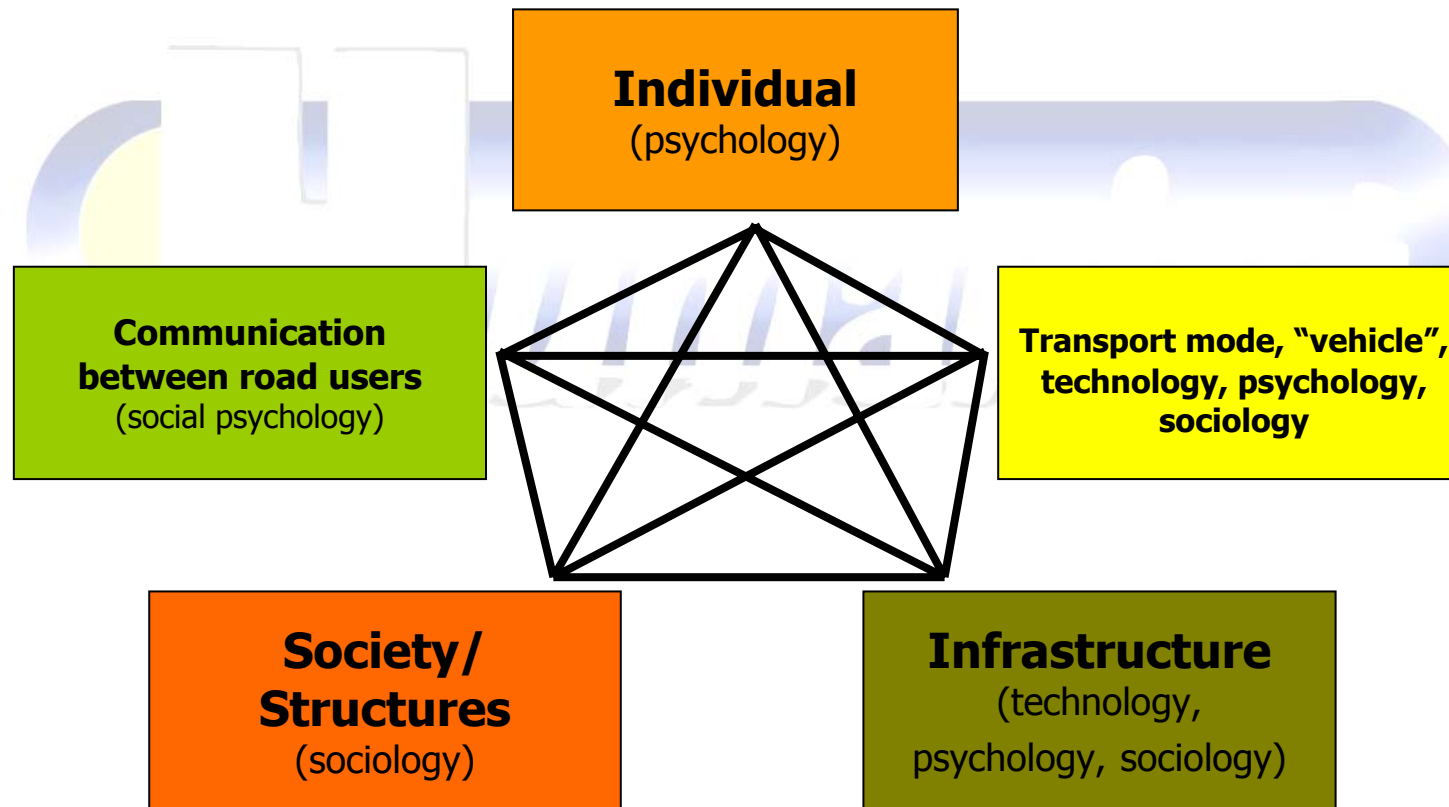
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Prometheus Checklist

- Characteristics of the equipment are to be checked
- General and technical questions
- Functional and behavioural aspects
- Impacts of new IST

General and technical questions

- Aim of the equipment?
- What should it do?
- Is equipment advisory?
- Information in-car or road side?

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Functional and behavioural aspects

- Whom does system inform/
warn/assist?
- Could safety decrease?
- Is abuse likely?
- Warnings/advises irrelevant?
- Equipment failure?
- New behaviour possible?
-

checklist

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Impacts of new ITS

- Effects/influence on
 - Perceptions and decisions
 - Behaviour
 - Interpersonal communication

Overview of psychological aspects

- 3 learning mechanisms
 - Connection to consequences
 - Social feedback
 - Generalisation of behaviour

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- problems connected to the transfer of information

- Ambiguity of signals
- Instruction problems
- Communication/Imitation

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Side effects

- Side effects
 - Different needs
 - Risky behaviour
 - Objective/subjective risk
 - Delegation of responsibility
 - Interpersonal communication

Overview of psychological aspects

- Side effects

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In-car equipment

- How will equipped car drivers ' perceptions and decisions be influenced?
 - Are systems identifiable from outside the car?
- How will unequipped car drivers ' perceptions and decisions be influenced?

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In-car equipment

- How will equipped car drivers ' behaviour be influenced?
- How will unequipped car drivers ' behaviour be influenced?
- Is there an influence on traffic quality/climate?
- Is there an influence on specific driver groups?

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All kinds of IST in traffic

- Are there any consequences for different groups of road users?
- How much attention does the new system take?
- May an unrealistic impression of safety arise?
- What emotional aspects reflected by the equipment are conceivable?

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Thank you!