



# Welcome & Introduction Supplementary studies

L3Pilot Final Event

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# Background

For a safe and successful market introduction

- not only the automated vehicle needs to be ready and technically mature,
- also the driver needs to be ready and able to use the system.

For this, drivers' needs and abilities with regard to highly automated driving functions need to be understood.



## Challenge and solution

Focus in L3Pilot was on testing prototype automated driving functions on public roads.

However, safety regulations for prototype vehicles make user studies challenging.

**Solution:**

Additional supplementary studies to address user topics.

# Supplementary studies – Methods

Wizard of Oz on public roads



Online survey

Driving simulator



Wizard of Oz on test track



## Supplementary studies – Main Topics

Behavioural  
adaptation  
Long-term





Takeover  
reactions

Driver  
impairment

Behavioural  
adaptation  
Short-term

Non-driving  
related activities

## Supplementary studies - overview

Partner	Methods	Main topics	Detailed topics
	Driving simulator	Behavioural adaptation – long term Takeover reactions  Driver impairment	Impact of repeated system usage on acceptance & system handling Comparison of L3 and L4 ADF Impact of driver fatigue on acceptance & usage
	Wizard of Oz Online survey	Behavioural adaptation – long term  Non-driving related activities	Impact of repeated system usage on acceptance & system handling Secondary task engagement
	Driving simulator	Behavioural adaptation – short term	Impact of ADF design on manual driving behaviour
	Wizard of Oz Test track study	Behavioural adaptation – short term Takeover reactions Driver impairment	Impact of ADF design on takeover reaction  Impact of driver state (fatigue, intoxication)

Detailed results on supplementary studies in D7.2



Thank you for your kind attention.

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