

ADAS&ME NEWSLETTER

October 2017



EDITORIAL

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ADAS&Me is the acronym for “Adaptive ADAS to support incapacitated drivers Mitigate Effectively risks through tailor made HMI under automation”. In ADAS&Me, we are aware of driving behaviour that occurs in every driving which may lead to critical situations and crashes. We are sure that the use of Cooperative Intelligent Transportation Systems (C-ITS) and automated safety functions, together with unobstrusive driver monitoring, can compensate for human errors and enhance safety and driving comfort.

Therefore, in order to reach this goal, in ADAS&Me a holistic approach is taken, that considers automated driving in conjunction with information on driver state. We will base our work around 7 Use Cases aiming to cover a large number of critical driving scenarios.

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IN THE SPOTLIGHT

Over an intense 24-day test period, ten [Scania](#) test drivers have taken turns driving a new generation Scania S 500 truck, travelling 460 kilometres a day over a five and a half to six-hour time span. Each driver has been scheduled for two consecutive days of tests. As a baseline, the participants initially take the wheel of a driving simulator as a cognitive pre-test. Then, on day one of the test, they drive the truck half the distance while taking the passenger seat for the remainder of the trip. During that time, another driver is in command, simulating autonomous driving conditions. The following day, the driver is alone in the cab for the entire journey. When the drivers return they are again tested on a simulator. “We hope to determine the positive effects of rest in a measurable way. At present, we only define rest as not working and not as a physical and mental state”, says Expert Cognitive Engineer Stas Krupenia, who heads the research project at Scania. Overall, this will generate a tremendous amount of data – approximately three terabytes per test day – that will be analysed to determine driver rest, stress, drowsiness and emotional state. In doing so, the project hope to play an important role in the ongoing effort to improve driver and road safety.



ADAS&Me Consortium meets in Greece 28-30 June, Thessaloniki – Halkidiki (Greece).

ADAS&Me has held its 4th plenary meeting in Greece, kindly hosted by local partner [CERTH](#). On the first day technical workshops have been conducted at CERTH premises in Thessaloniki. On the following two days the consortium partners have gathered in beautiful Halkidiki, where the plenary meeting has taken place, including an extensive review on the work that has been carried out, since the last plenary meeting, on the different Work Packages.



ADAS&Me participates in [ITS European Congress Strasbourg 2017](#) ADAS&Me participated in the Automated Driving session at the INEA/EC booth within the 12th ITS European Congress in Strasbourg, joining other fellow [#H2020Transport](#) projects [AutomateEu](#) and VI-DAS. Our project coordinator, Dr Anna Anund, acted as the facilitator, introducing pitches from the projects' representatives, with our Innovation Manager, Stella Nikolau, presenting the ADAS&Me vision and 7 use cases being developed.

ADAS&Me holds technical workshops @CERTH 28 June 2017, CERTH premises, Thessaloniki (Greece).

Kindly hosted by [CERTH](#), ADAS&Me partners held some intensive and fruitful discussions on WP4 (data collection per Use Case, indicators and sensors per driver state), WP5 (went into detail on specifications and capabilities of the HMI elements and planned usage in the use case), WP7.



Use Cases workshop with external stakeholders a success!

ADAS&Me held its first international workshop with external stakeholders on the 6th of April '17, kindly hosted by [ERTICO ITS Europe](#) at its premises in Brussels. This was a [side event](#) of the extremely successful [1st European Conference on Connected and Automated Driving](#), which was held at the European Commission at the beginning of the week, 3-4 April, also with the [participation of ADAS&Me in the exhibition area](#). The project coordinator, Dr Anna Anund, gave a warm welcome to the participants and provided some background and key facts about ADAS&Me. The Innovation Manager, Mrs Stella Nikolau, presented some results and findings from the previously conducted stakeholders survey, with WP1 leader, Ms Tania Dukic presenting the results from the end-users survey. Use Case leaders briefed the participants on the assumptions and characteristics of the [Use Cases](#) which

had been preliminary defined in the project. Dr Evangelos Bekiaris, ADAS&Me Technical Manager, presented the methodology for UCs prioritization and Multi-Criteria Analysis, which was followed by an intensive and fruitful debate and collaborative work with the invited experts, lots of extremely interesting insights and fresh inputs.

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