

# SAFESPOT INTEGRATED PROJECT - IST-4-026963-IP

## DELIVERABLE



### SP1 – SAFEPROBE

#### Platform prototype and test bed architecture details

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<b>Workpackage No.</b>	WP4	<b>Workpackage Title</b>	Implementation and Prototypes
<b>Task No.</b>	T1.4.1	<b>Task Title</b>	In-vehicle HW Platform Development
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## EXECUTIVE SUMMARY

This report provides a top-level, more abstract overview of test beds which will be used in SAFEPROBE to verify and validate the purposive function and performance of firstly platform components and secondly various integrated platforms for trucks, passenger cars and motorcycles. The platform components include those developed within SAFEPROBE as well as SINTECH.

Very few details about platform and test bed components, test tools, ground-truth systems, test sites and test cases can be found in this report. They are provided in D1.4.2 "HW and SW specifications of platform and test bed components", test cases and planning can be found in D1.5.1 "Test plan design".

The intention of this report is to familiarize the reader with the general testing methodologies as well as communalities and varieties of platform configurations and setups to test its data fusion algorithms, stand-alone and integrated components in-lab and in-vehicle.

Thanks to the modular platform architecture and the use of COTS components - all processing devices, including gateways and hosts for data fusion, local dynamic map server and WLAN router are PCs communicating by Ethernet only – many off-the-shelf test tools are applicable. This holds e.g. for data logging, database inspection and spatial data rendering.

Nevertheless, several special purpose testing tools have been developed in SAFEPROBE, e.g. for object and situation refinement testing, gateway validation or laserscanner and co-operative pre-data fusion validation.

It is anticipated that these tools and test beds will be found indispensable not only during testing and validation in SAFEPROBE, but also during application development and testing as part of follow-up activities in the application and test sites subprojects as well as for demonstration events.