Driver training, trial & error, or RTFM for automated driving?

Problem description
Today’s automotive consumer market features a plethora of advanced driver assistance systems (ADAS), such as Adaptive Cruise Control (ACC), Lane Keeping Assist (LKA), and (various forms of) Autopilot. Traditional driver training usually does not entail teaching you how to drive with such systems, nor does the company that sells you a car with such a system inform you of its functions. This leaves the driver often confused, and misusing, disusing, or even abusing the novelty system, with sometimes dangerous consequences. Whether and to what extent driver training should incorporate driving with such systems is however currently unknown. Will simply reading the manual suffice, or would extensive training be indispensable for safe driving?

Objectives & Assignment
The objective of this project is to assess the extent to which drivers need to be informed on ADAS in order for them to be able to safely and appropriately use them. This entails assessing driver performance with several ADAS, and assessing the effects of several types of intervention to driver skill and performance under various circumstances.
The project is related to the Meaningful Human Control over Automated Driving Systems project. External support by relevant partnering organisations, such as SWOV, RDW, ANWB, etc. may also be available.
This Master thesis may be able to include an internship at one of the partnering organisations.

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External support
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