Mobility of the Future and Open Collaboration – A Good Idea?

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Abstract—This paper proposes a list of potential benefits of better usability and user experience adapted to automated driving and autonomous mobility. These benefits could be useful for understanding and communicating the importance of usability and user experience for the success of automated driving to be accepted by the non-technical public and becoming mainstream and successful. In this paper, the focus is on identifying usability and user experience benefits of human-machine interaction (HMI) in automated driving context. The goal of the paper is to legitimize the usability and the user experience activities in the eyes of the management of automated driving application and HMI development organizations. The user-centered design process focuses on users, their needs and requirements. This paper shows that the benefits of better usability and user experience through user-centered design can be identified in use context as well as application development context through competitive advantage, reduced risks, and reduced development costs.

Brief biography—Since end of 2016, Andreas Riexinger is driving the Bosch autonomous driving solutions as a product manager automated driving for the Robert Bosch GmbH. He worked in different areas for the Robert Bosch GmbH for over 20 years, in which he has collected experience in the development of embedded software and management of IT projects. Since the foundation of the OpenADx Eclipse Working Group in June 2019, he is also their speaker. Andreas Riexinger will give an overview about future mobility and the role of open source software.