

Author and speaker: Armin Kaltenegger
Contact data: armin.kalternegger@kfv.at; phone number: 0043 1 577 0 77 1200
Institution: KFV - Austrian Road Safety Board (Schleiergasse 18, 1100 Vienna, Austria)
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Safe implementation of modern technologies into the road traffic:

KFV's Code of Conduct

Modern technologies (will) completely transform our mobility and are thus one of the central aspects of transport policy. No one can estimate all possible effects from today's perspective, but it is already necessary to create the foundations and framework conditions for future development. Especially it is also very important that drivers can operate the new vehicle systems correctly and safely. The KFV generally welcomes the process of modern technologies and sees great potential in them for accident-free road traffic. But at the same time, the KFV is convinced that effective accident prevention can only come through the interaction of coordinated measures in various areas – from driver's education and testing, infrastructure, legislation to personal awareness-raising. Based on this conviction, the KFV created ten principles for the safe implementation of modern vehicle technologies into the road traffic. The aim is to define framework conditions for future progress and to promote the cooperation between various interest groups. This Code of Conduct was presented to the EU Transport Minister during the Austrian EU Presidency in 2018. In the following paragraph the keypoints of three principles are outlined as an example:

1st principle: Traffic safety is the number one priority for everyone involved!

Modern technologies will have to fulfil many requirements. Topics such as economic and technical progress, well-being, comfort, ecology, and safety compete to take the top position in the stakeholders' plans. However, highest priority should be given to the safety of the system and therewith the reduction of fatalities and injuries. Next to drivers and passengers all other

road users such as pedestrians and cyclists should be also considered. Therefore, if in doubt due to competing parameters preference should be given to traffic safety, even at the expense of other factors.

9th principle: The revolutionary changes of motorised mobility can only be successfully overcome together with the users!

Transparency and comprehensibility are going to be the success factors for an accomplished process towards driving with modern systems. Without the user's basic understanding and acceptance of the advantages of modern technologies there won't be any sensibility for the challenges. Slowed down progress and frictional loss can occur. Therefore, awareness building and participation should become permanent companions of the development.

10th principle: Training and testing systems must be continuously adapted to the new developments!

Driver training and further education, training of multipliers (driving examiners, driving instructors, etc.), but also new professions (test drivers, control room employees, etc.) need new curriculum, examination catalogues, contents and methods. Rather than oil changes, software updates must be taught, instead of parking – how to calibrate the assistance system. An appropriate and well-designed education can become a catalyst for the high expectations towards automated driving. Therefore, publishers, psychologists, educators, etc. are an integral part of the extensive team which is pioneering driving with modern technologies.

Other important principles of the Code of Conduct include (i) “The responsibility during driving with modern technologies must be dedicated!”, (ii) “Technical algorithms must be predictable and must be in line with our values!”, (iii) “It must be determined when human decision-making ends and when safe automation becomes a priority!”, (iv) “Existing data privacy standards must remain unchanged!”, (v) “Data security is the prerequisite for market entry of any systems and components”, (vi) “Anonymous data should be made available to anyone who can ensure the most social benefit” and (vii) “Revolution rather than Evolution – SAE Level 3 must be skipped!”.