			Non Safety functions	Safety functions			
	Al Application		e.g. Infotainment Out of Scope of type approval	Driving Function			Non Driving Functions
_				Perception	Planning	Actuation	
Conventional Software	Artifical Intelligence (AI)	Artificial Intelligence is a set of methods or automated entities that together build, optimize and apply a model so that the system can, for a given set of predefined tasks, compute predictions, recommendations, or decisions		Out of Scope [Non-AI]	Out of Scope		Out of Scope
			Natural language processing	Detection of other road users for AEBS, ACC Detection of road infrastructure for LDW, LKAS	Activation of FCW and AEBS based on ego vehicle position and other road users	Not Applicable	Detection of driver's face for ID (under conditions ensuring privacy)
Artificial Intelligence	Supervised Learning (SL)	Supervised learning is a type of machine learning that makes use of labelled data during training	Gesture control Voice Recognition	Detection of other road users for AEBS, ACC Detection of passive road infrastructure for LDW, LKAS	Trajectory prediction using drivable path prediction from labelled data (e.g. HD maps)	Not Applicable	Detection of drivers eye gaze / state for DMS Fault detection, Predictive Maintenance
	Unsupervised Learning (UL)	Unsupervised learning is a type of machine learning that makes use of unlabelled data during training		Streamlining data labelling process for less safety critical systems like ISA. Extracting scenarios from real world data to suport validation Generation of synthetic data for supervised learning / distortion of real world data	Trajectory prediction using Kalman filters, KalmanNet or Gaussian Process architectures, or other architectures	Not Applicable	[?]
	Semi Supervised Learning (SSL)	Semi supervised learning is a technique that "learns" from a mix of labelled data and data that is both unlabelled and unstructured. They build on a small set of known exemplars and then use this information to guide unsupervised learning.		Streamlining data labelling process for less safety critical systems like ISA.	Shadow mode' used in development for training control algorithms	Not Applicable	[?]
	Reinforcement Learning (RL)	Reinforcement learning is a type of machine learning utilizing a reward function to optimize a machine learning model by sequential interaction with an environment		Some manufacturers are starting to use RL for perception, could potentionally be used in cooperative perception in the future.	Lane Centering or ACC systems may use RL due to the reduction in cost / data required to train the system	Not Applicable	Predictive Maintenance