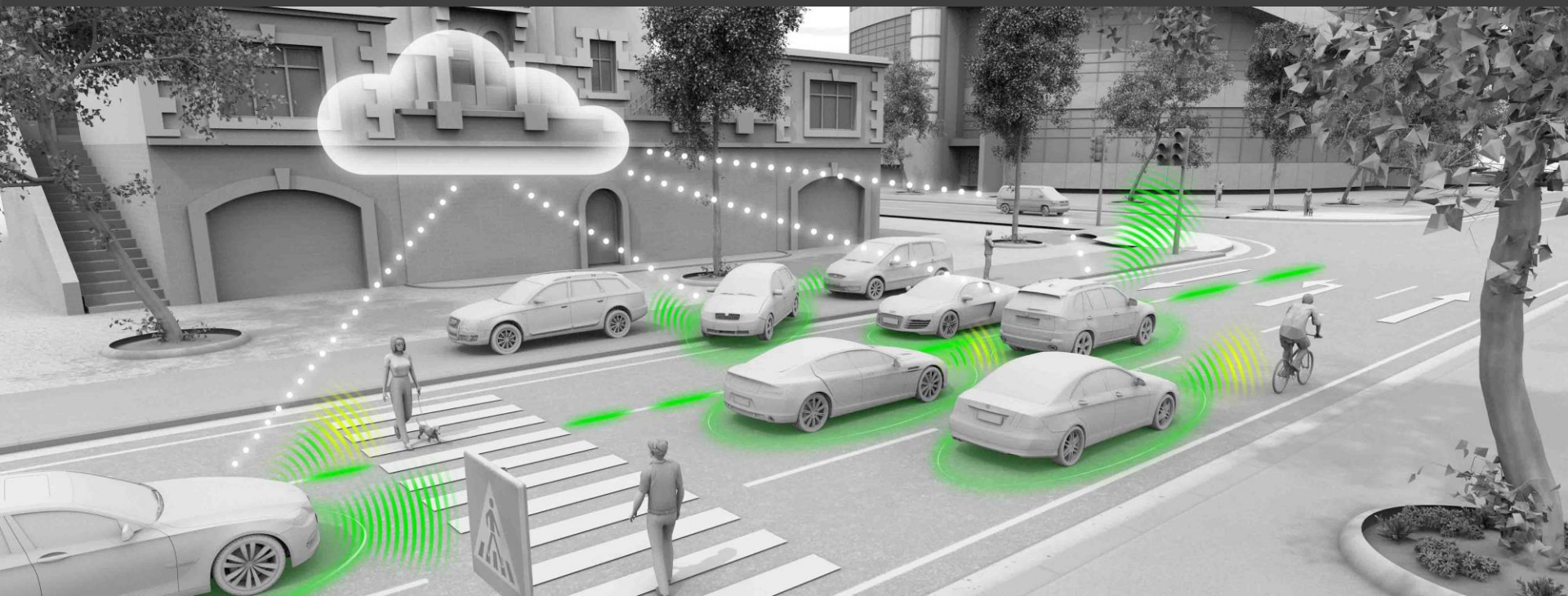


Car-as-a-sensor: cooperative perception and learning for automated driving



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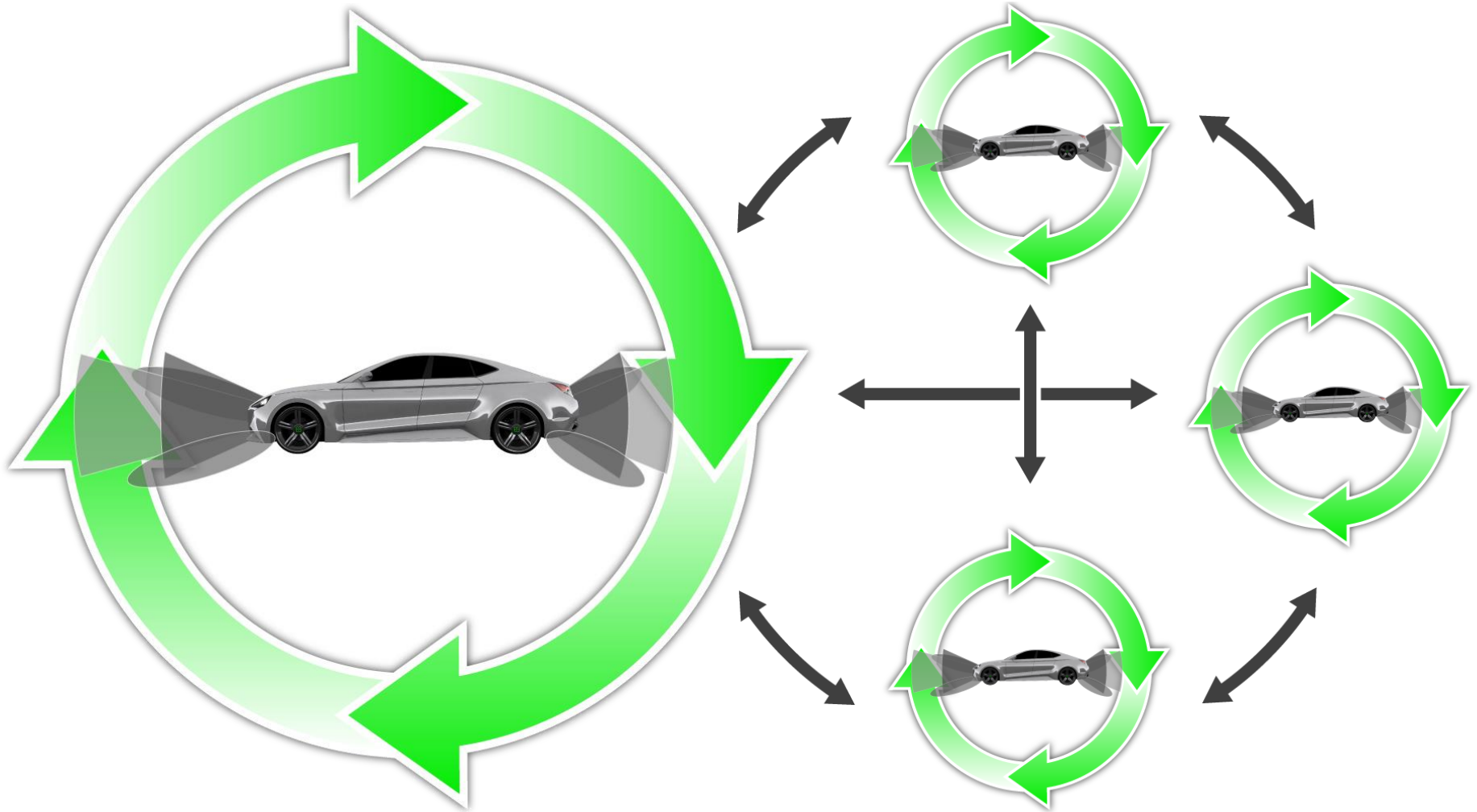
Dr. Rainer Holve
April 28th 2015



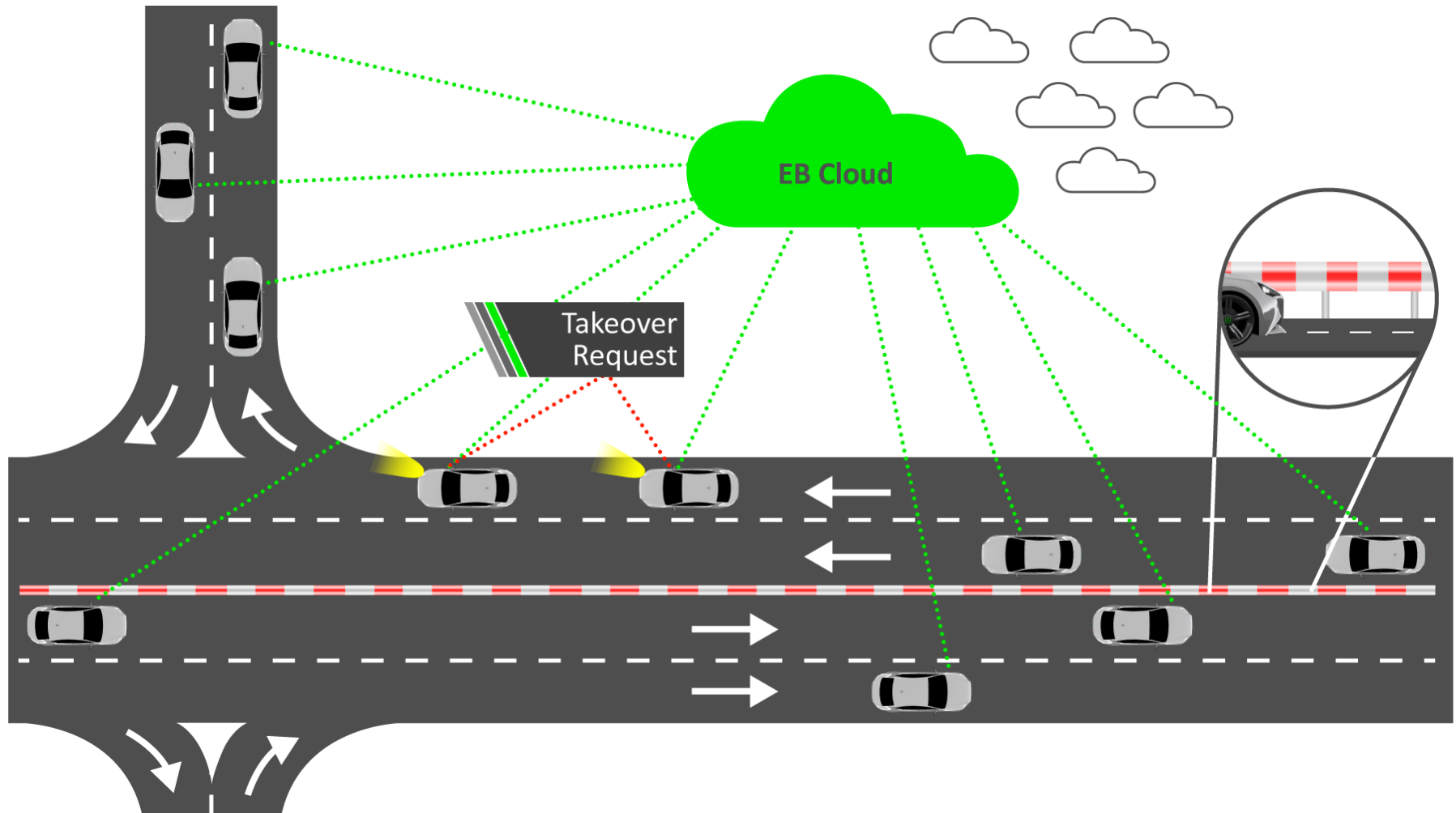
**How reliable
are ADAS?**



Current and future use of sensor data



“Crowd sensing” and the sheer volume of data provide a far more precise picture of the road network

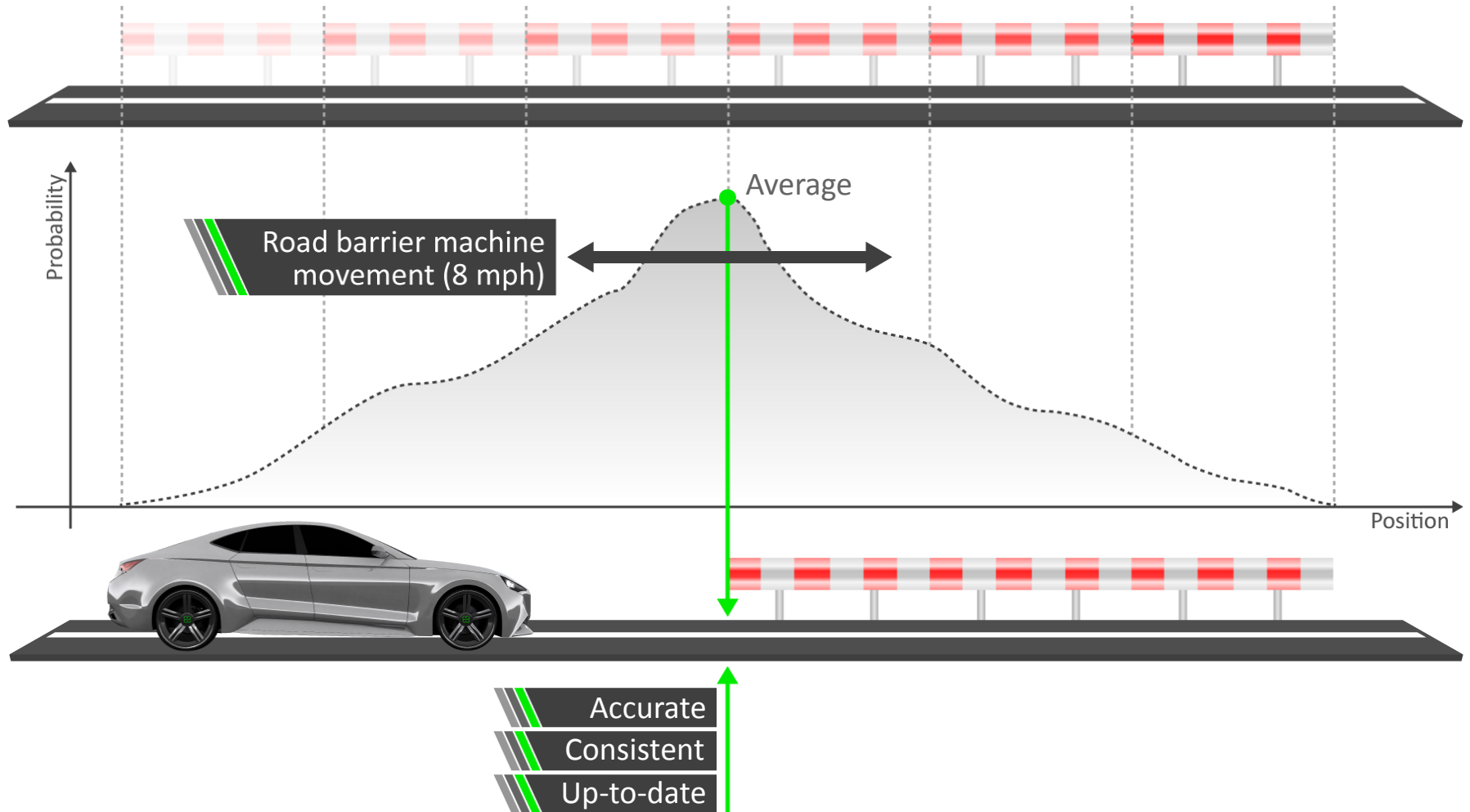


Information generated by an ageing model is essential for automated driving vehicles

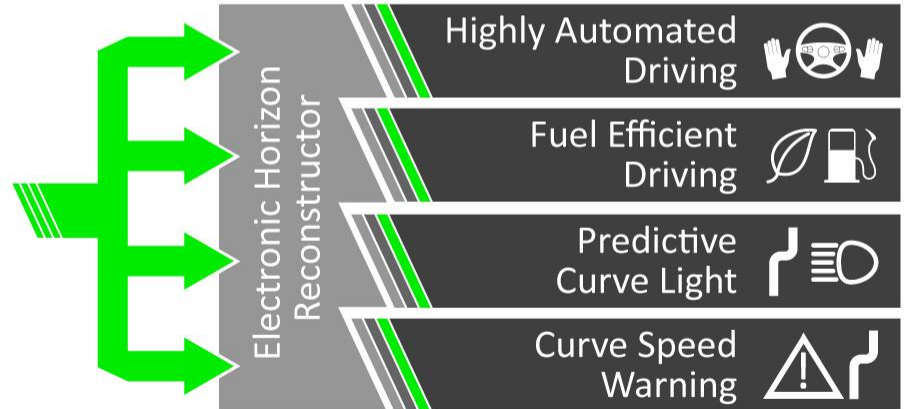
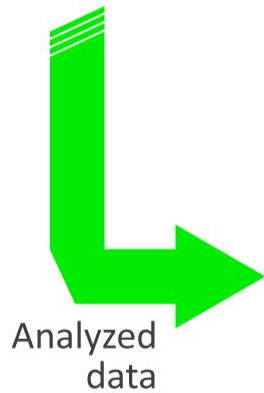


Source: ABC 10 News www.10news.com, 24.03.2015

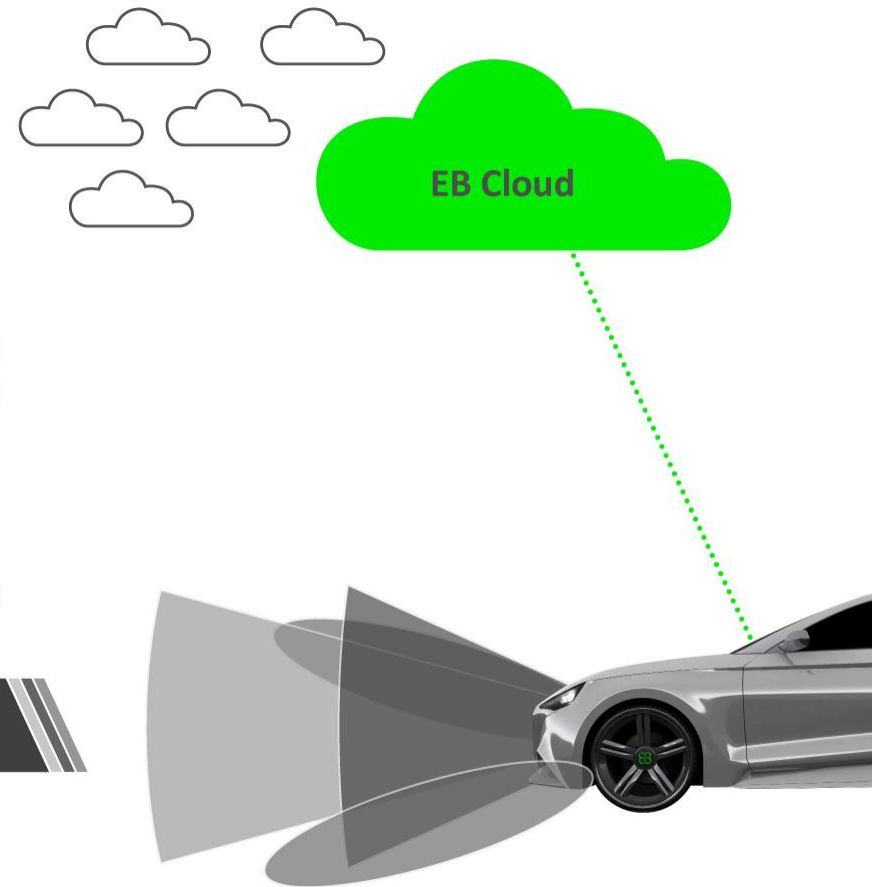
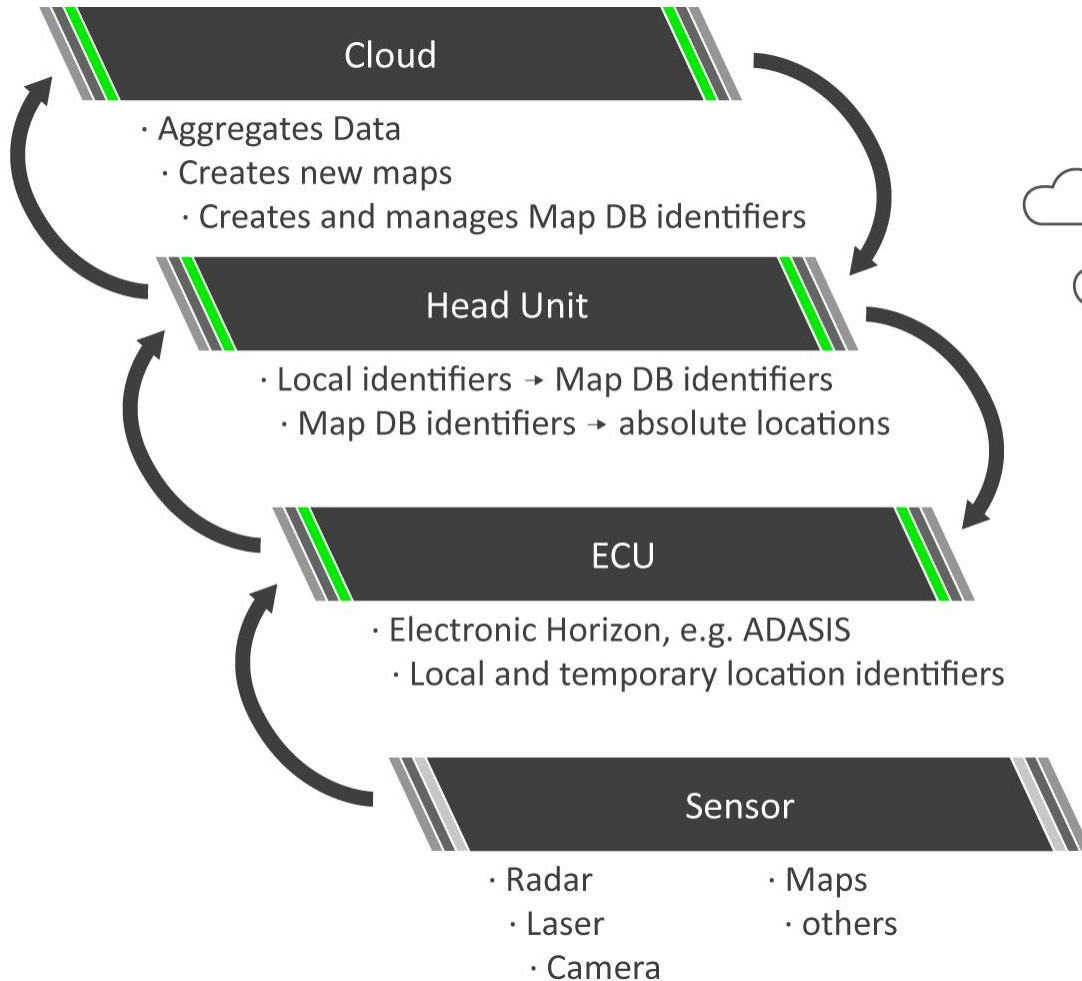
Data Mining ensures reliable map data



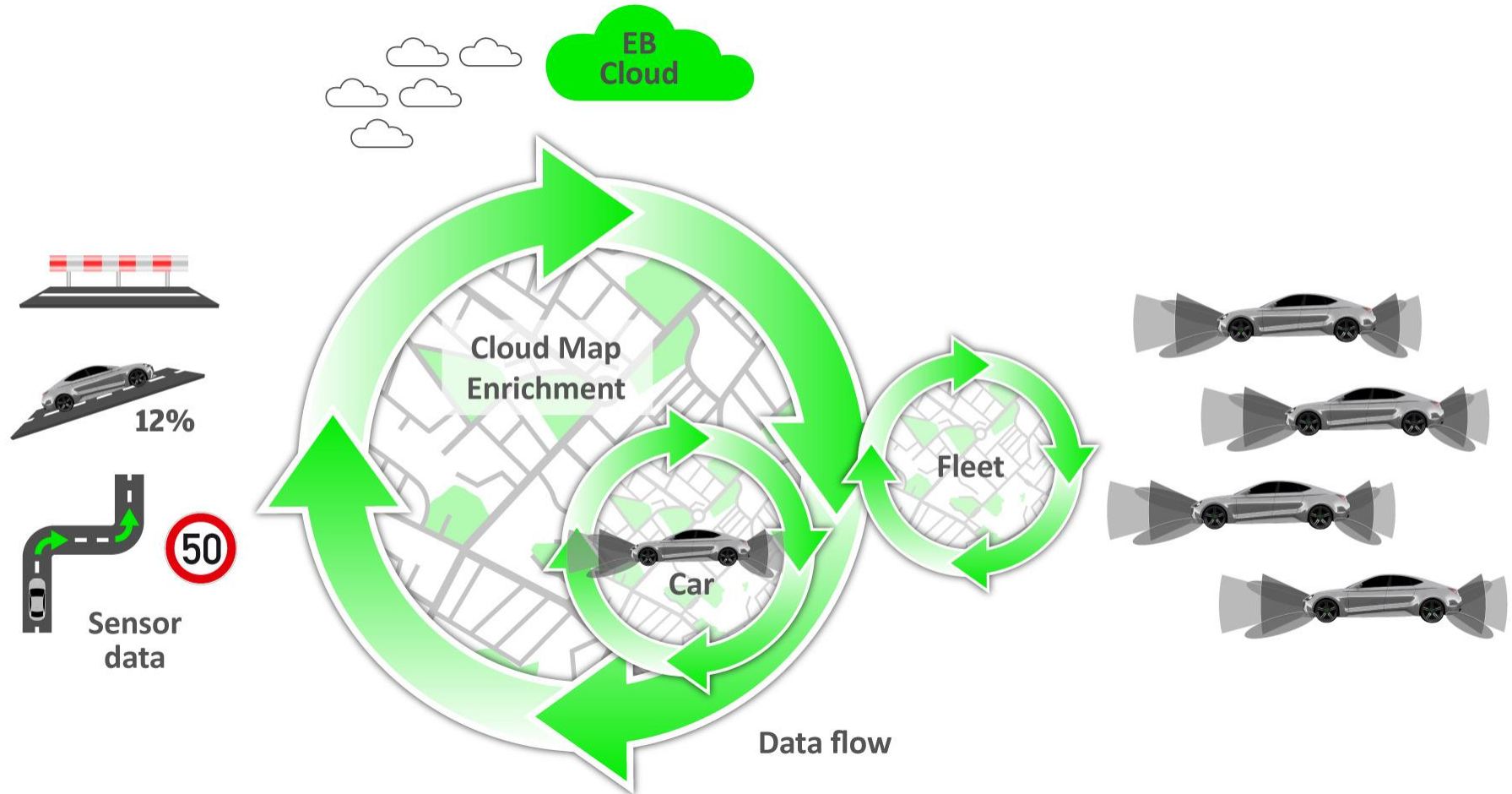
ADAS benefit from cloud map data



Overall architecture as basis



Self-learning systems: Higher degree of automation of the data processing system enables to exploit the full potential of sensor data



Cloud map enrichment is a strong contributor for automated driving



- Cloud map enriched data benefits from ADAS

- Cloud map enriched data contributes to ADAS

- Cloud map enrichment raises the quality of ADAS and supports driver's acceptance and trust in technology, ADAS and automated driving

Thank you! Questions?

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