

Automation is no barrier to light vehicle electrification

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Is electrification compatible with autonomy?



“...hybrids help provide the significant amount of electrical power required for self-driving sensors and computing...”

**Jim Farley, Executive Vice
President and President, Global
Markets, Ford Motor Company**

Farley, J., 2017. Optimizing Our Self-Driving Vehicle to Better Serve You. Medium.

Is electrification compatible with autonomy?

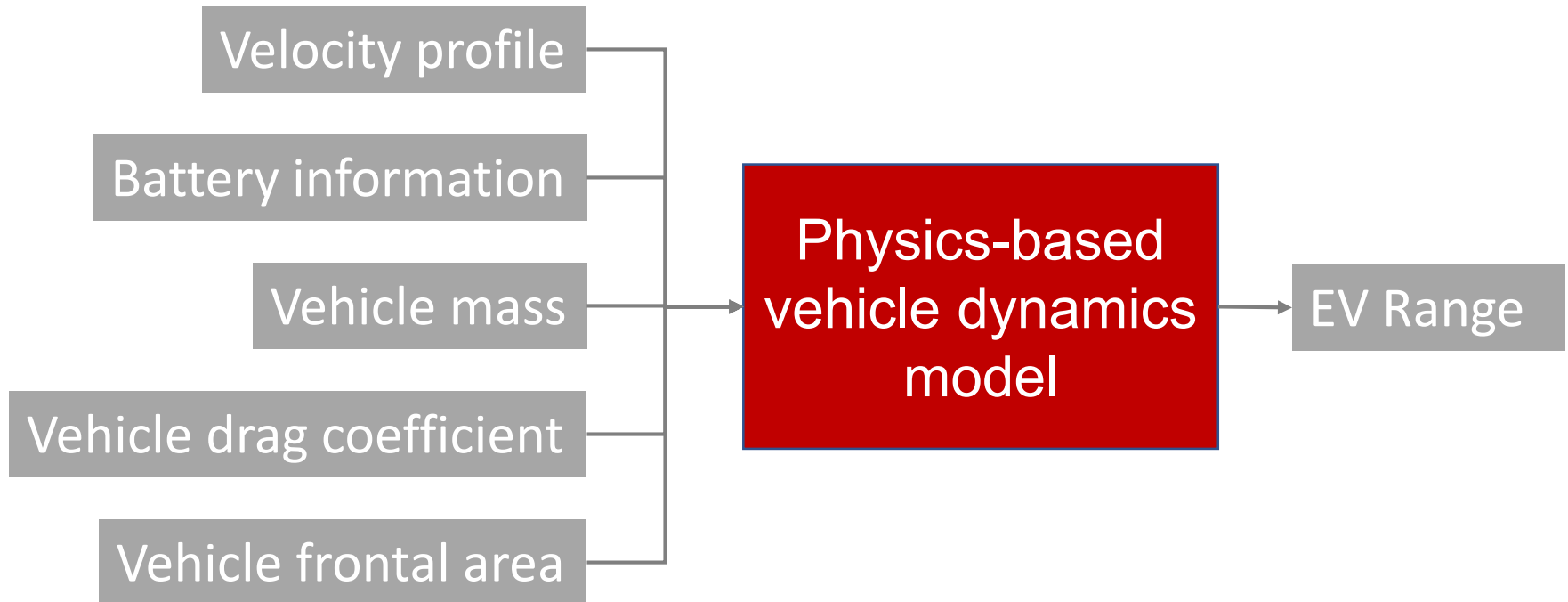


“At GM, we believe that **autonomous vehicles should be electric vehicles...**”

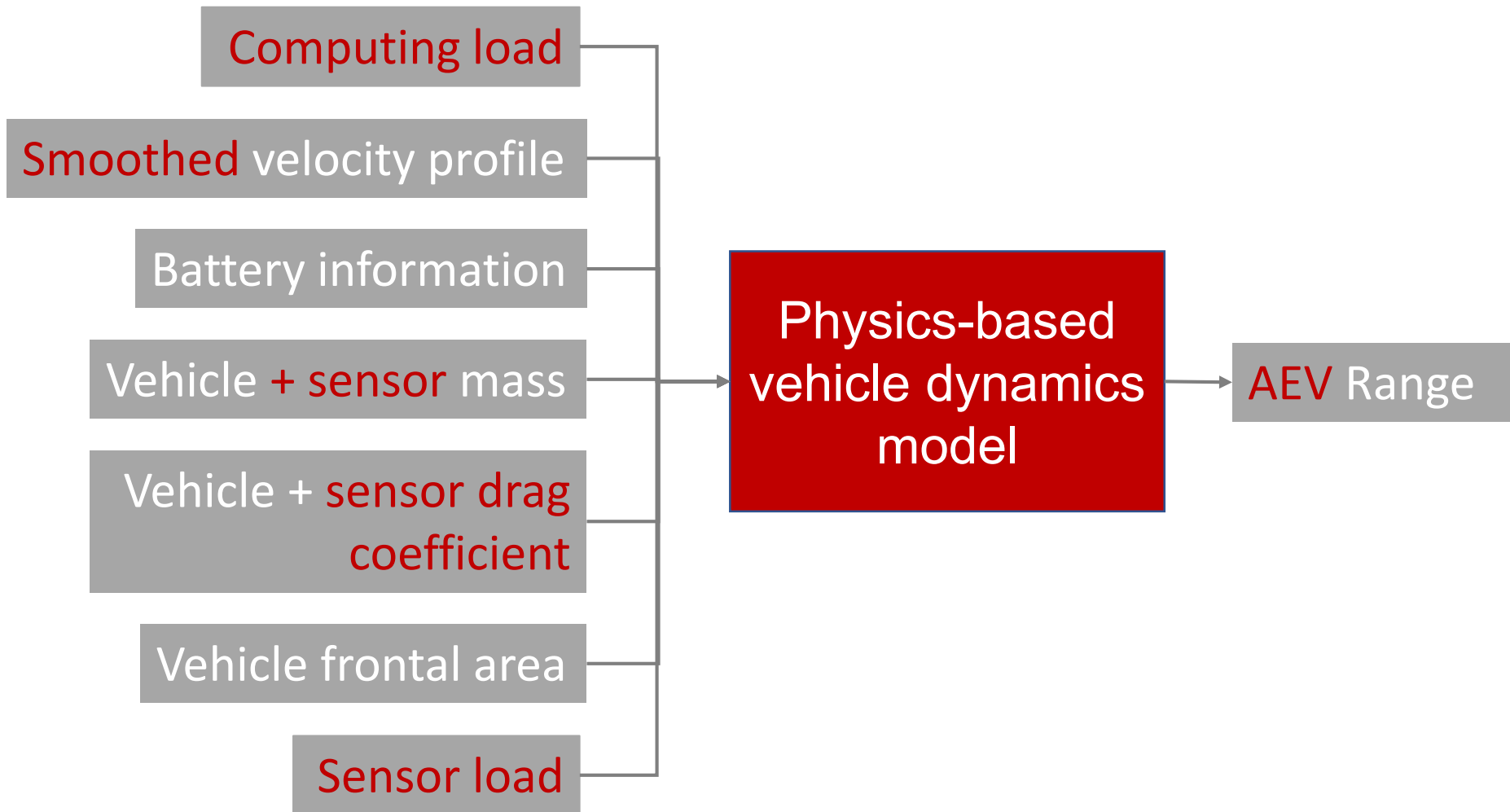
Mandi Damman, GM's chief engineer of autonomous vehicles

Darrin Kelley, Ryan Robinson, Steve Schmith, 2019. Building a driverless future: An executive interview with GM's Mandi Damman (Deloitte Insights). Deloitte.

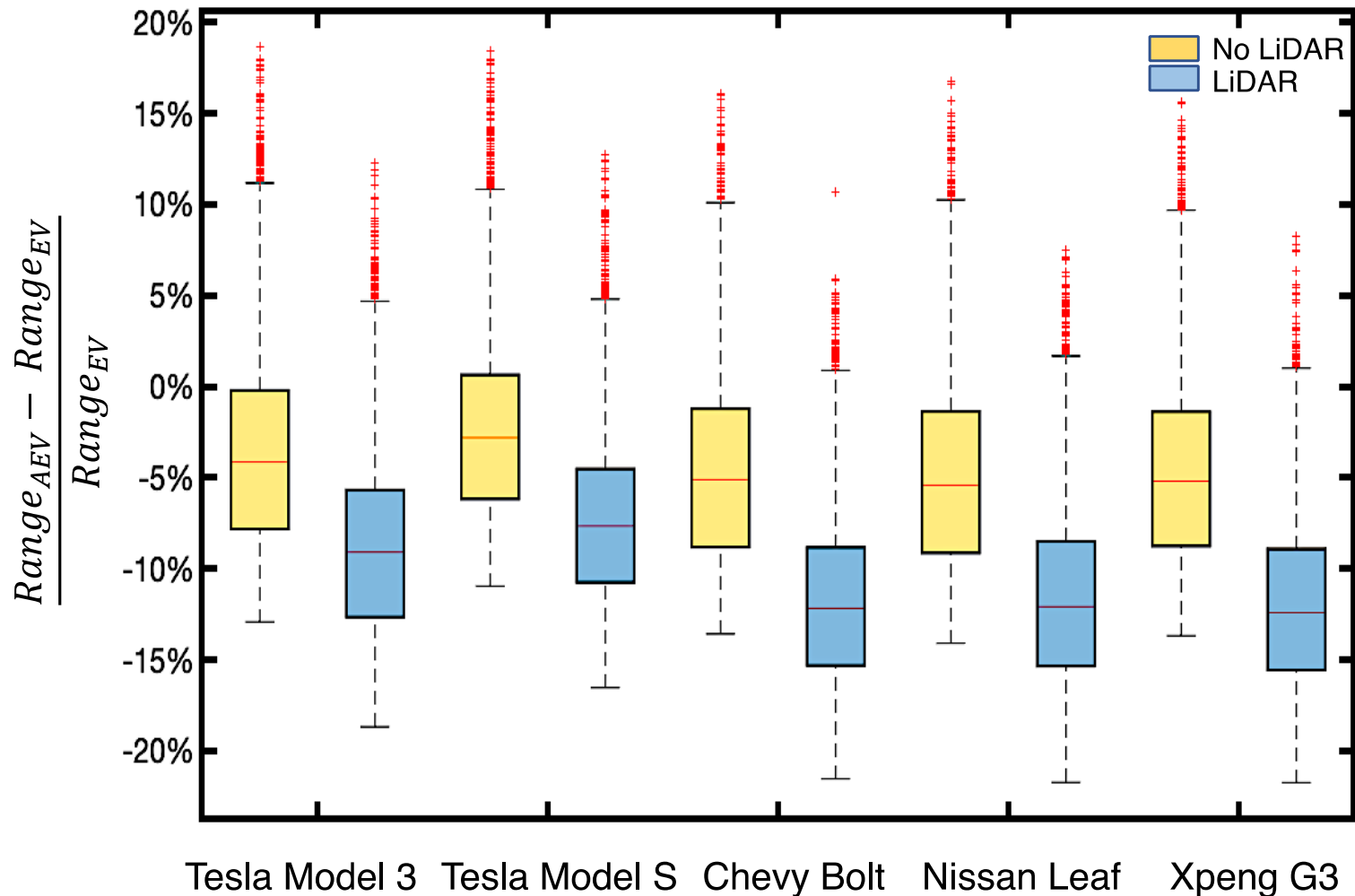
Is electrification compatible with autonomy? How much range do EVs lose if they are autonomous?



Is electrification compatible with autonomy? How much range do EVs lose if they are autonomous?



To keep the same battery, a most vehicles would give up 5-10% in range



Battery health would decline to 80% about six months sooner for an AEV than an AV

