

Simulation-based Development and Validation of Automated Driving Functions

SOLUTIONS FOR VIRTUAL TEST DRIVING

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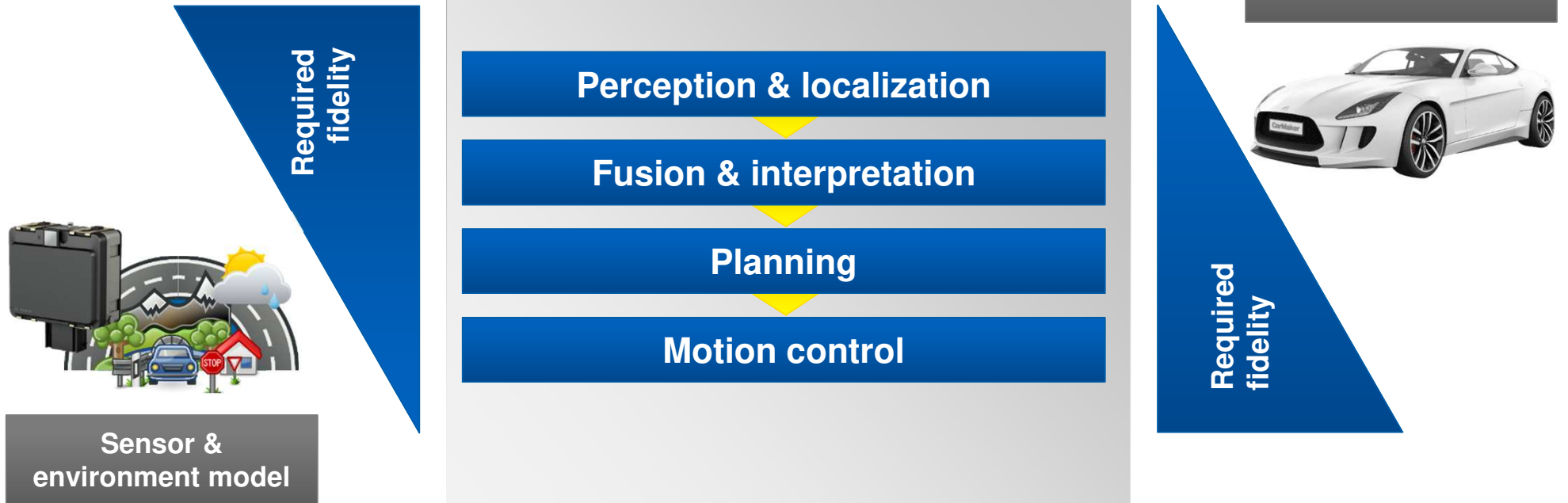
Maximum Realism to Test & Validate AD required?

How much effort for modelling the world?



Automated Driving: Multiple Domain Challenge

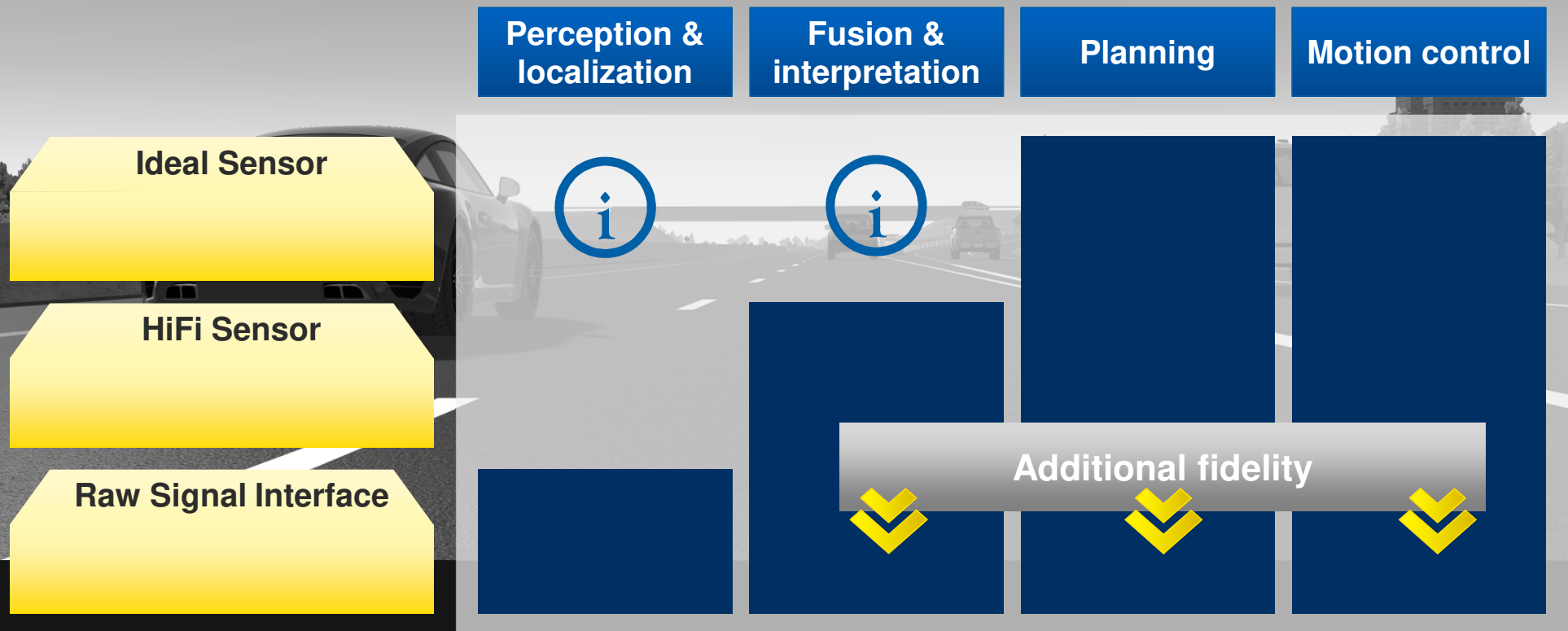
Purpose Driven Fidelity



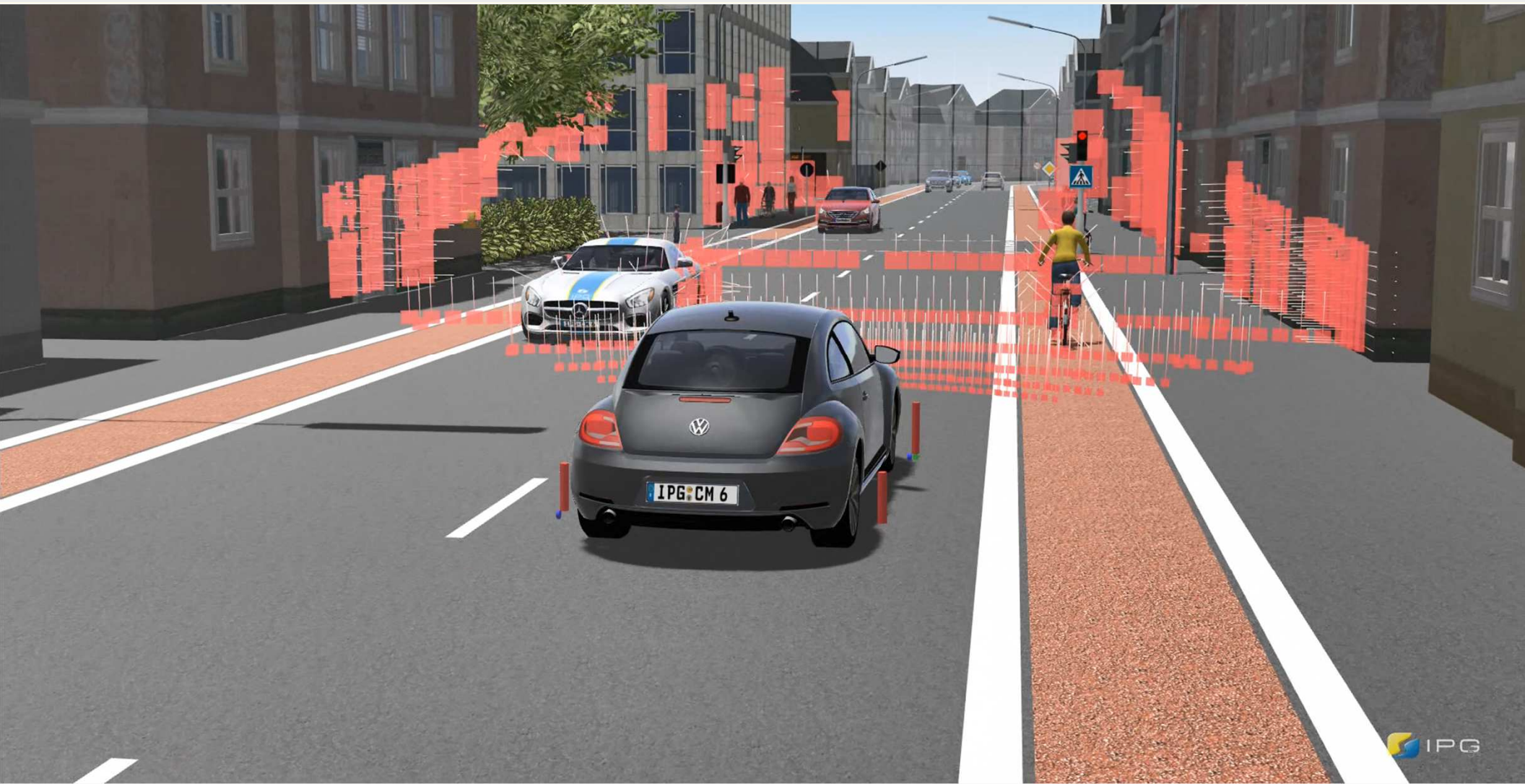
Validated vehicle dynamics model closes the loop
Essential in critical scenarios

CarMaker by IPG Automotive

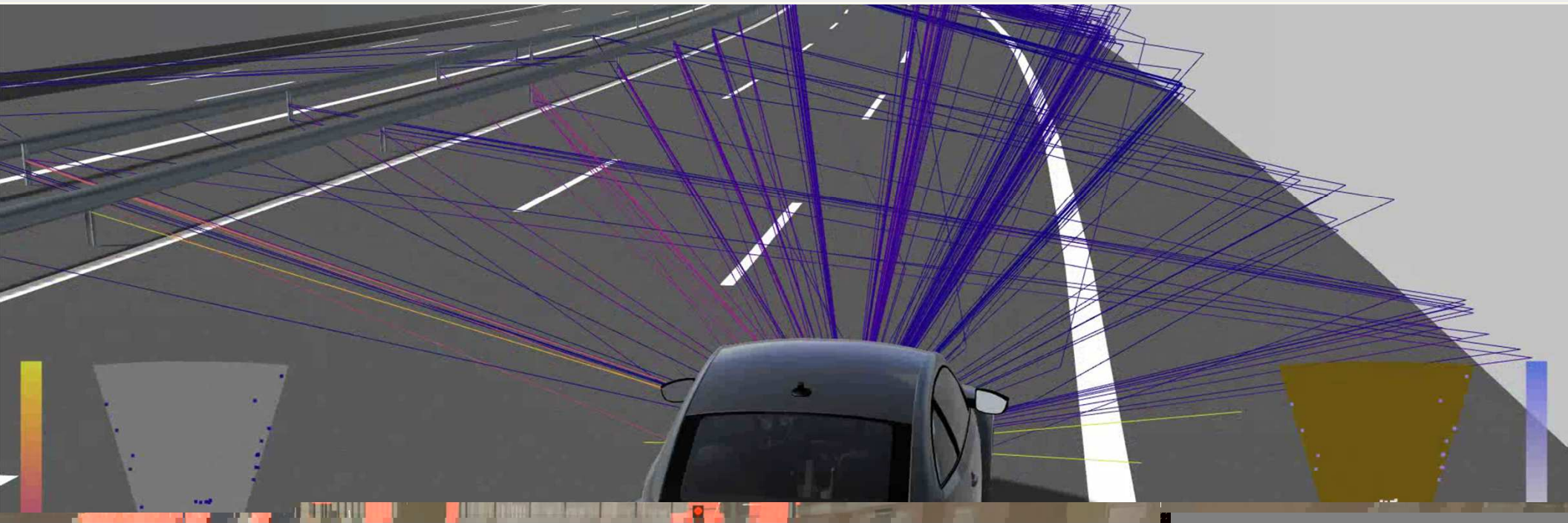
Suitable Sensor Models for Every Use Case



Ideal Lidar

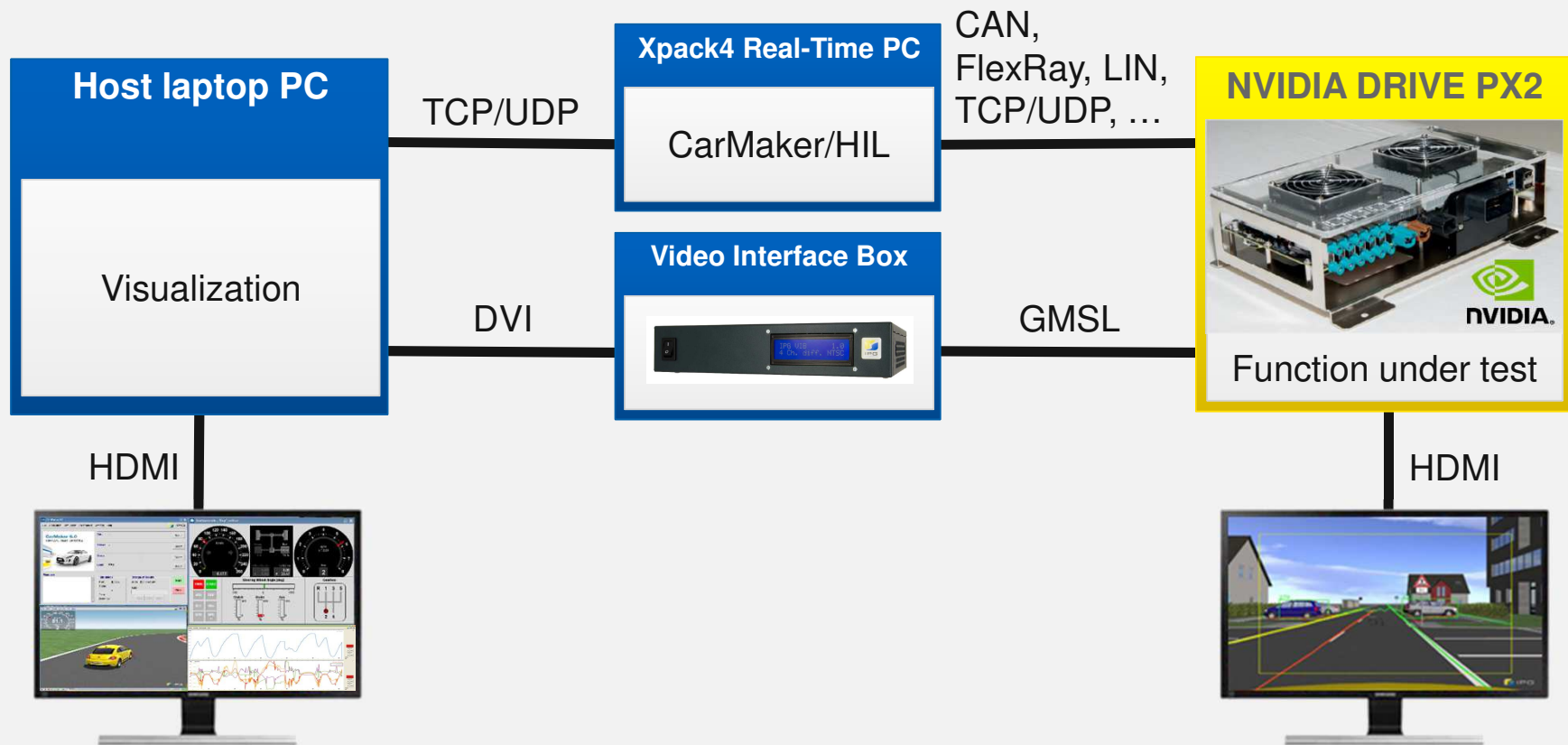


Radar Raw Signal Interface



Exemplary Test System Layout

Testing Function on the NVIDIA DRIVE PX2



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