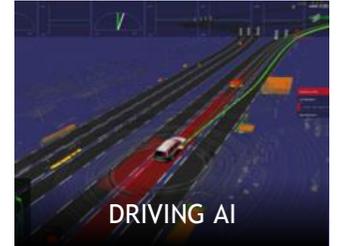
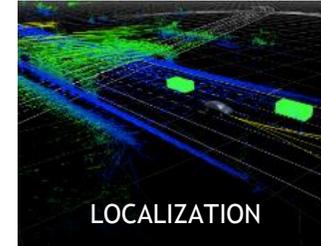
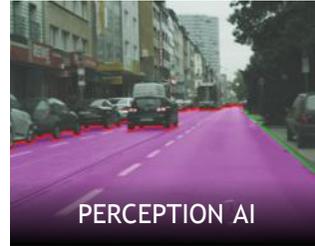




ACCELERATING THE RACE TO SELF-DRIVING CARS

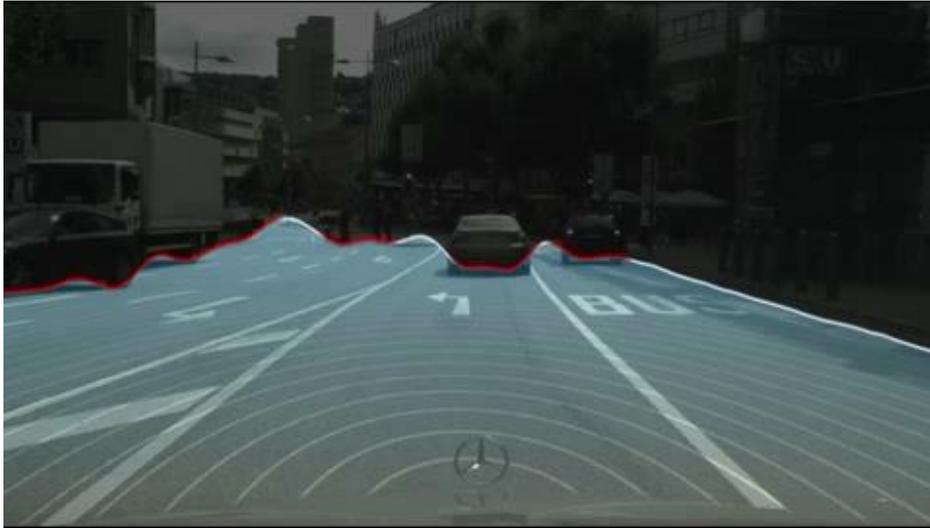
September 13, 2016

SELF-DRIVING CARS ARE AN AI CHALLENGE



DEEP LEARNING

AI FOR SELF-DRIVING CARS



FREE SPACE DETECTION

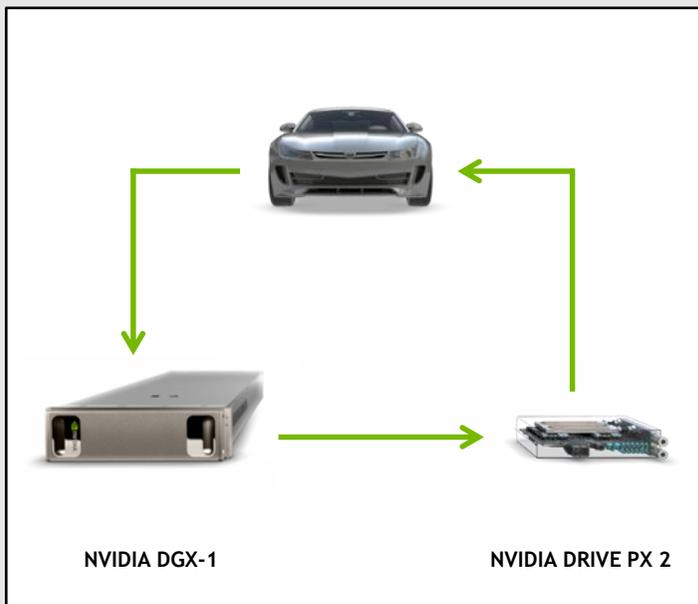


CAR 3D DETECTION

END-TO-END AI

Caffe
CNTK
KALDI
TensorFlow
theano
torch

Training on
DGX-1

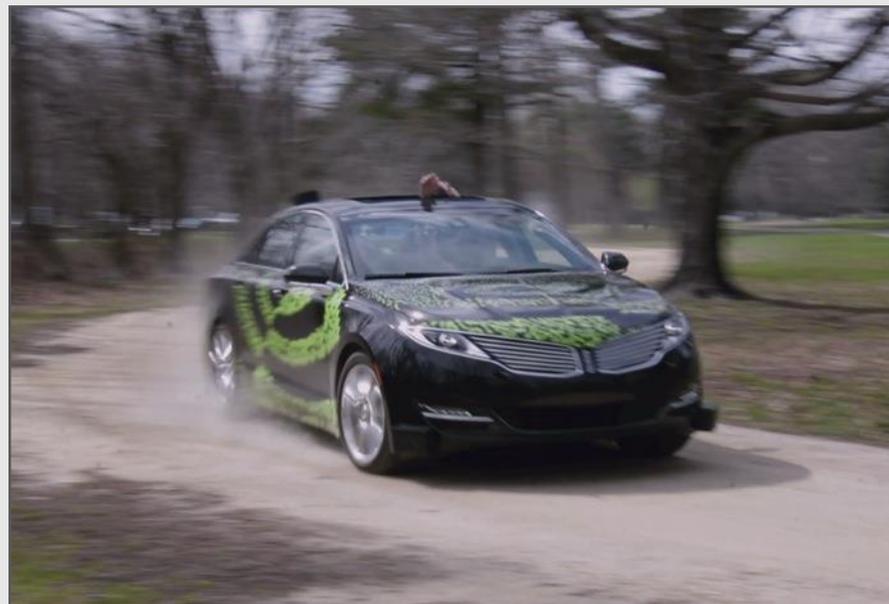


MAPPING

LOCALIZATION

DRIVENET

Driving with
DriveWorks





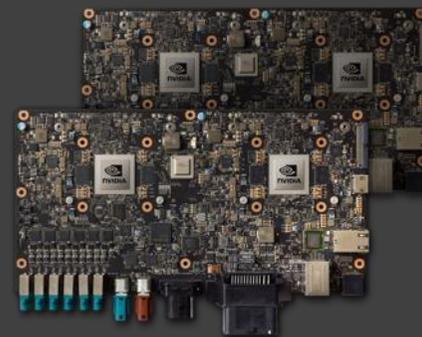
NVIDIA DRIVE PX 2



AutoCruise

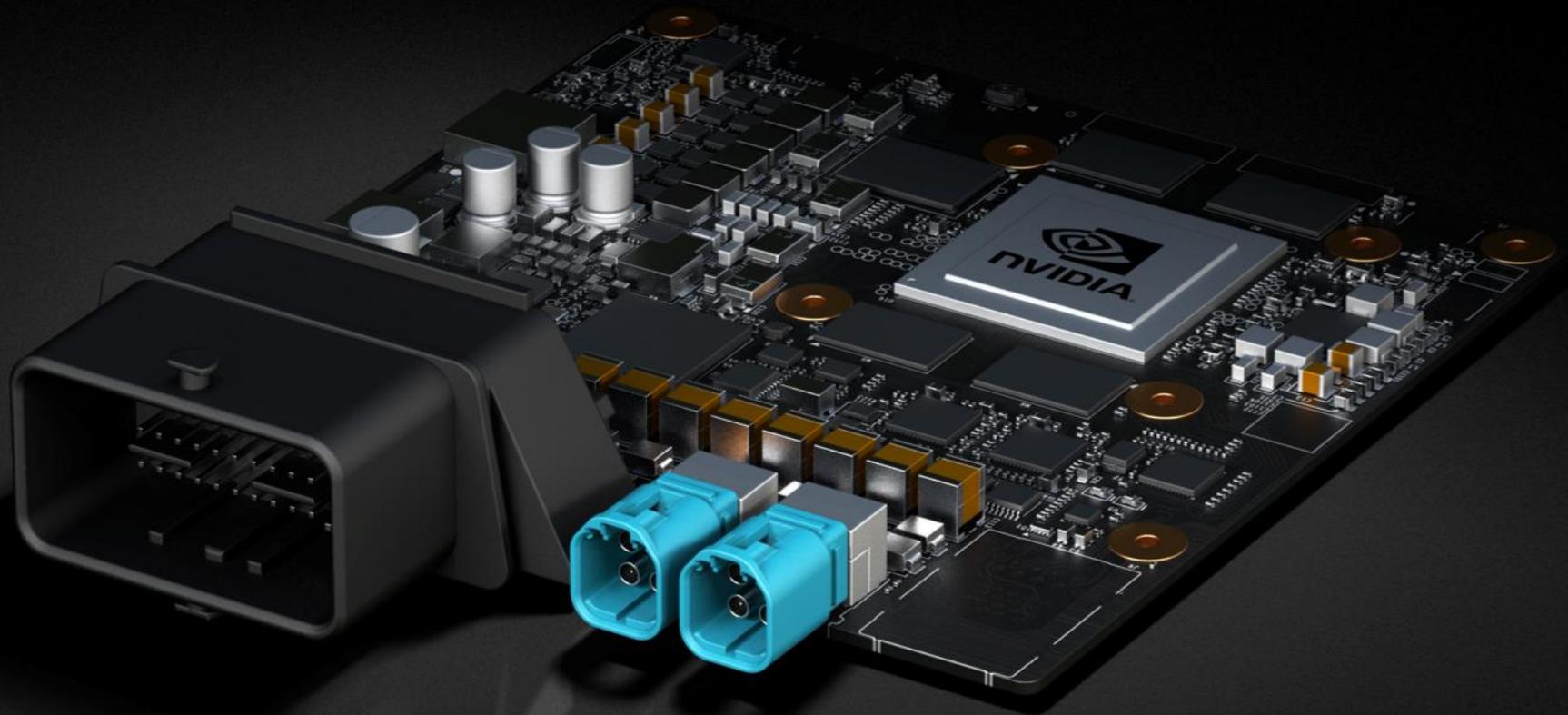


AutoChauffeur



Full Autonomy

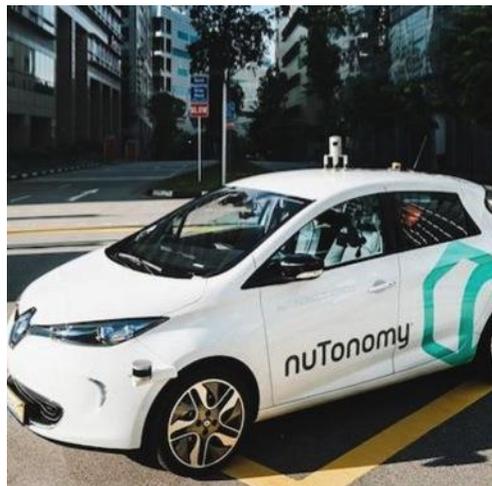
NVIDIA DRIVE PX 2 AUTOCRUISE



NVIDIA AI VEHICLES



Baidu



nuTonomy



Volvo



WEpods

NVIDIA DRIVEWORKS SDK

Autonomous Mapping & Driving Applications

NVIDIA DRIVEWORKS SDK

PERCEPTION

Sensor Fusion

Objects (NVDRIVENet)

Segmentation

LOCALIZATION

Map Fusion

Landmarks (NVDRIVENet)

GPS Trilateration

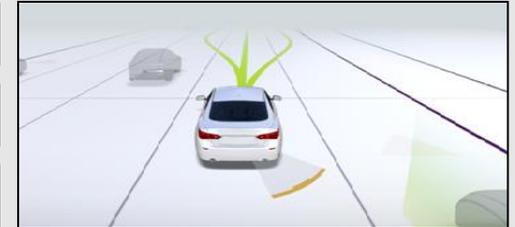
PLANNING

Trajectory

Behavior (NVDRIVENet)

Mission

VISUALIZATION



NVIDIA System Software



THANK YOU!