

AI PLATFORM FOR AUTONOMOUS VEHICLES

Romain Kuntz - Senior Solutions Architect

Meetup Autonomous Driving Munich - March 14th 2017



AMAZING ACHIEVEMENTS IN AI



Play Go



Play Doom



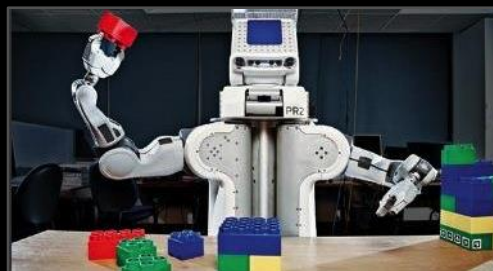
Learn Paint Style



Synthesize Voice



Write Captions



Learn Motor Skills



Learn to Walk



Drive



nvidia.

BB8: NVIDIA AUTONOMOUS VEHICLE

Video available at <https://blogs.nvidia.com/blog/2017/01/04/bb8-ces/>



SELF-DRIVING IS HARD



NEW AI DRIVING

Caffe

CNTK

KALDI

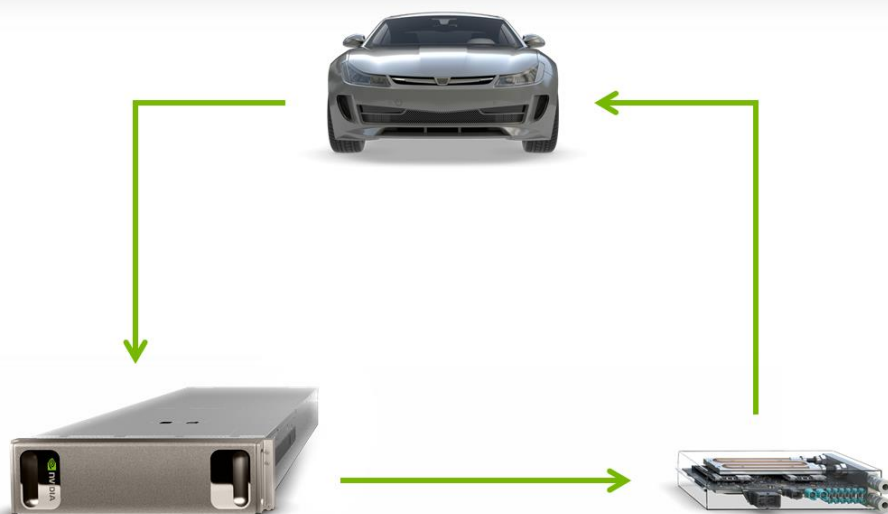


TensorFlow

theano

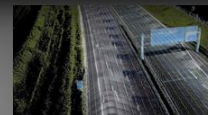


Training on
DGX-1

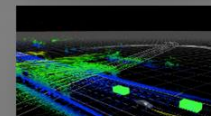


NVIDIA DGX-1

NVIDIA DRIVE PX



MAPPING



LOCALIZATION



DRIVENET

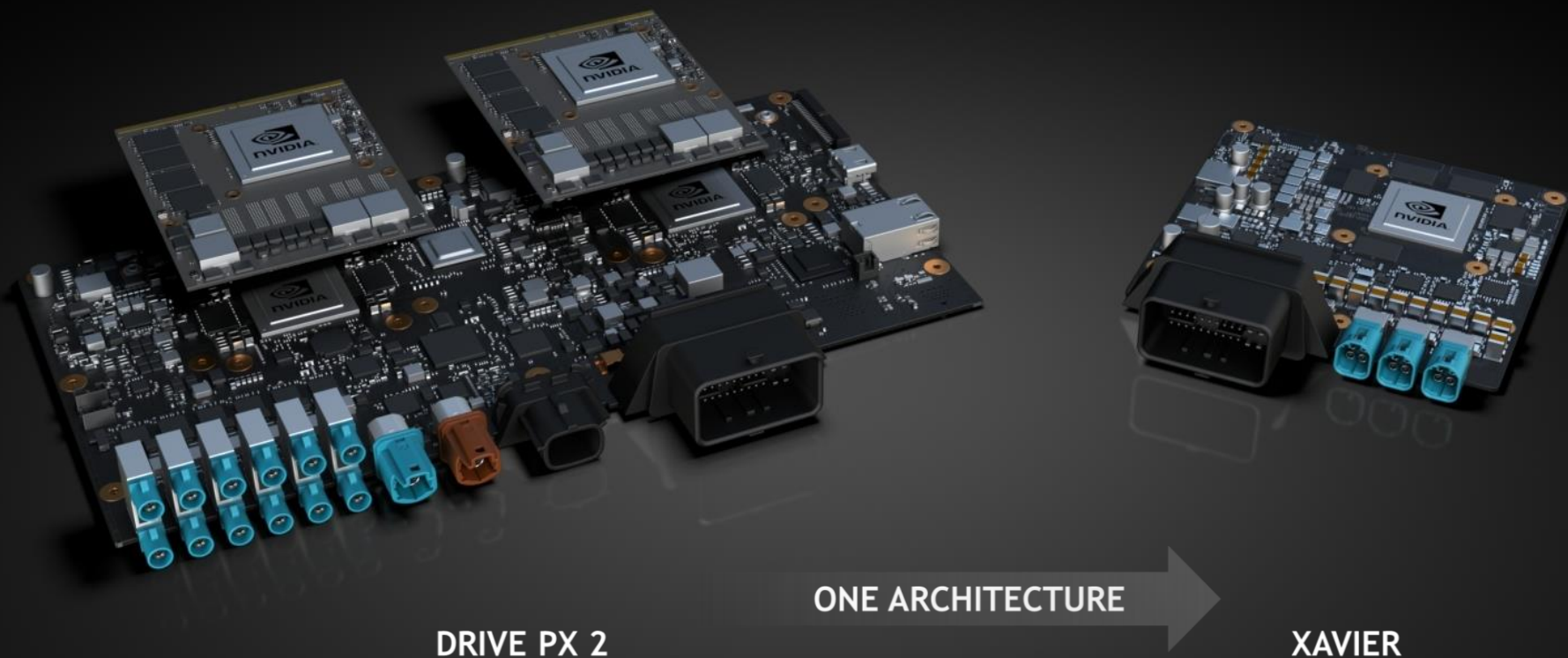


DAVENET

Driving with
DriveWorks

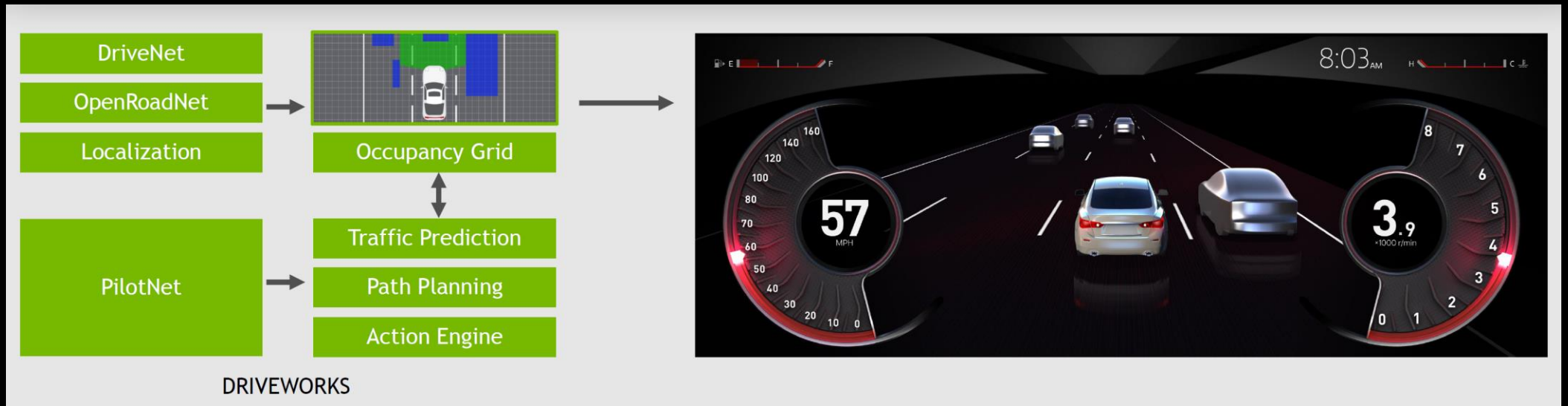
FROM RESEARCH TO PRODUCTION

AI Supercomputer SoC



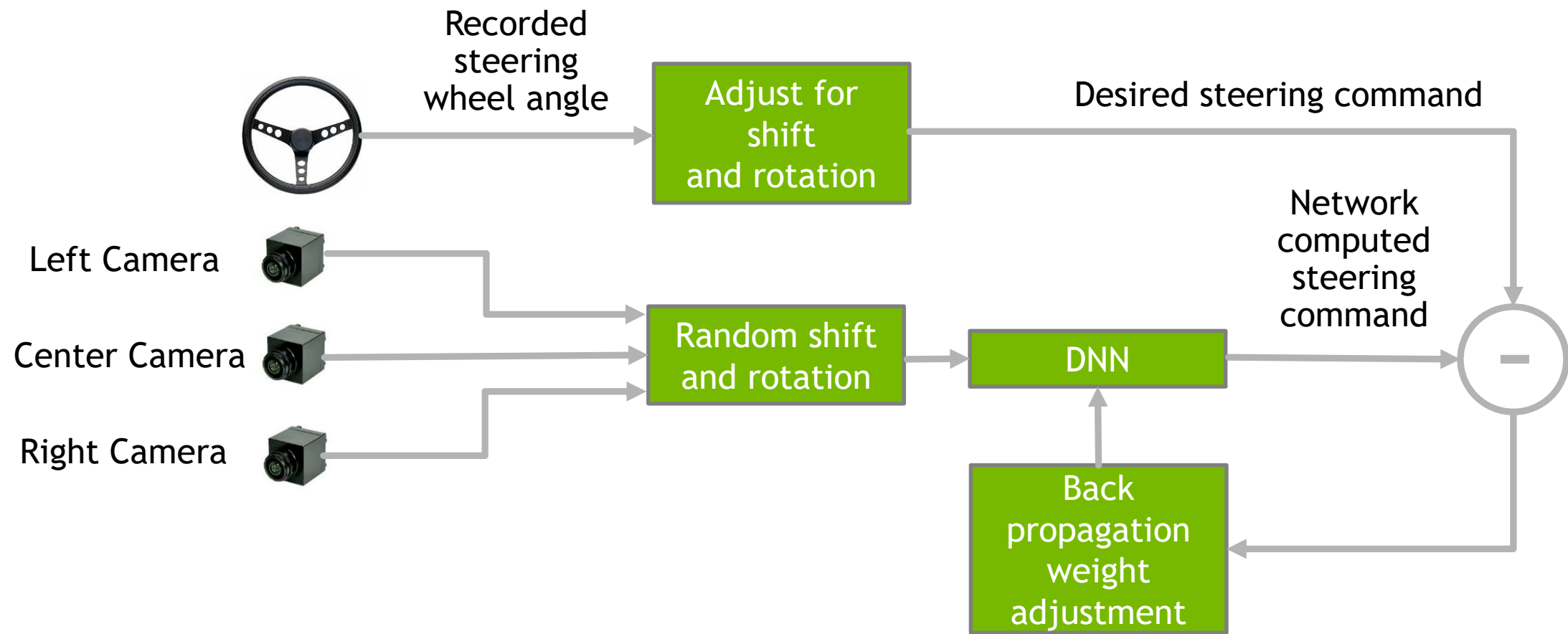
DRIVEWORKS

Software Development Kit for Autonomous Driving



NVIDIA PILOTNET

Teaching a DNN to Drive



NVIDIA AI CARS



Audi



Tesla



Mercedes-Benz



Baidu



Volvo



nuTonomy



WEpods



NVIDIA

GPU TECHNOLOGY CONFERENCE

GPU TECHNOLOGY
CONFERENCE

SILICON VALLEY 8-11 MAY 2017

“[GTC is] one of the premier events in the world where the highest performance GPU technologies and research are discussed.”

– Forbes

GPU TECHNOLOGY
CONFERENCE

MUNICH 10-12 OCT 2017

GTC EUROPE 2017

MUNICH

GTC Europe is the must-attend event of the year in Europe for developers, data scientists and senior decision makers. The 3-day conference will feature over a hundred new sessions on AI and deep learning, self-driving cars, big data analytics, virtual reality, and much more.

