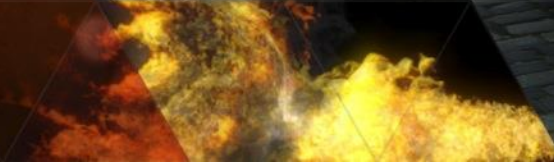
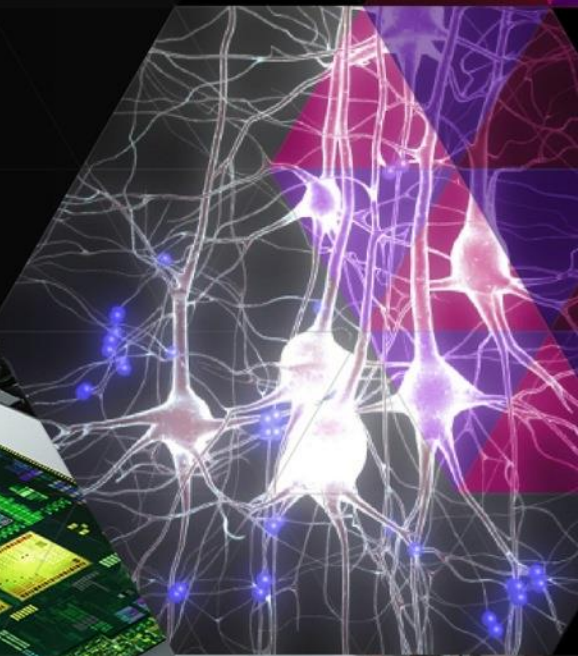




COMPUTING POWER
IS THE NEW HORSEPOWER

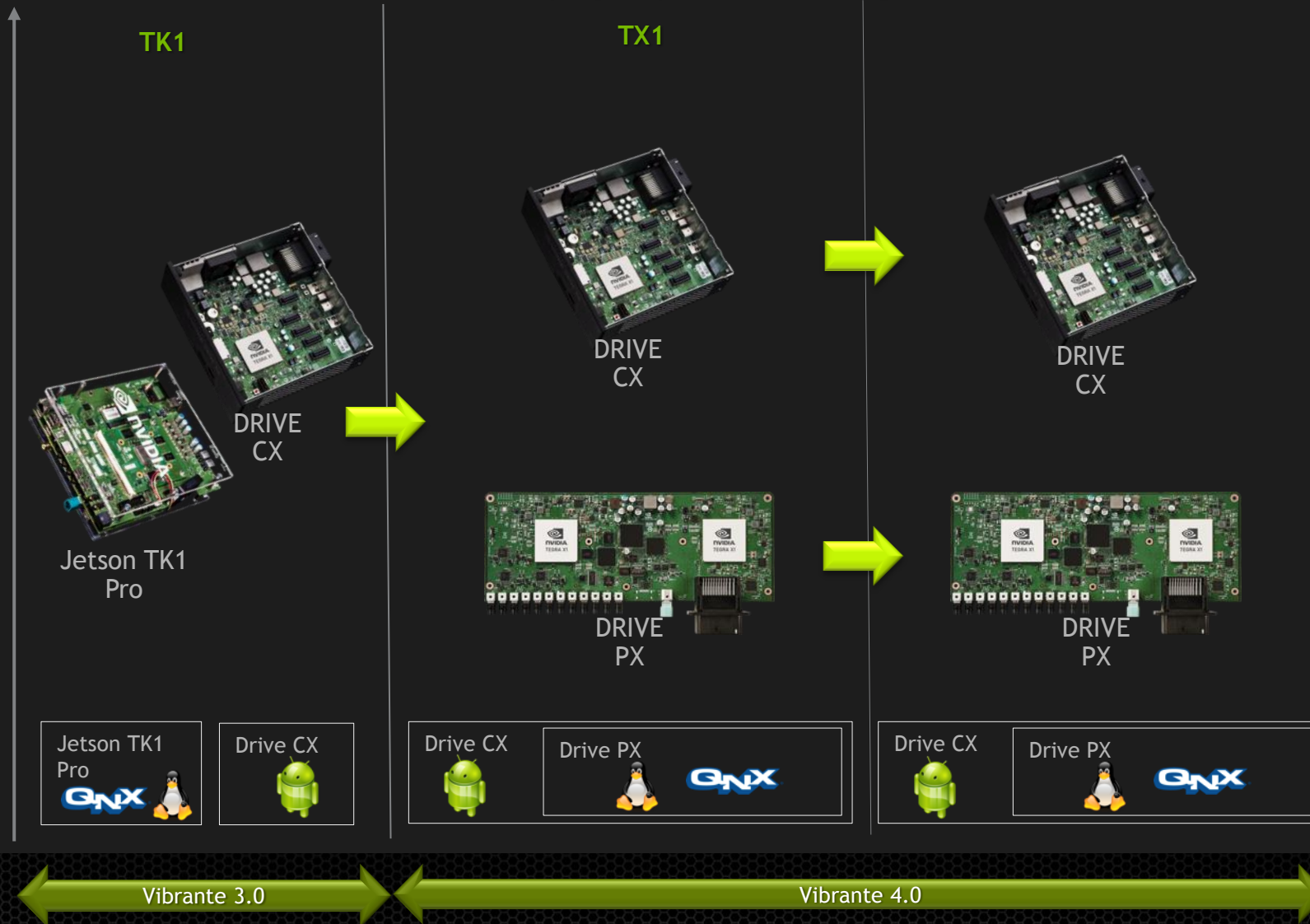


AUTOMOTIVE COMPUTING PLATFORM



Tegra Visual Computing Module

Platform ROADMAP





VIRTUAL COCKPIT





quattro



NVIDIA Automotive

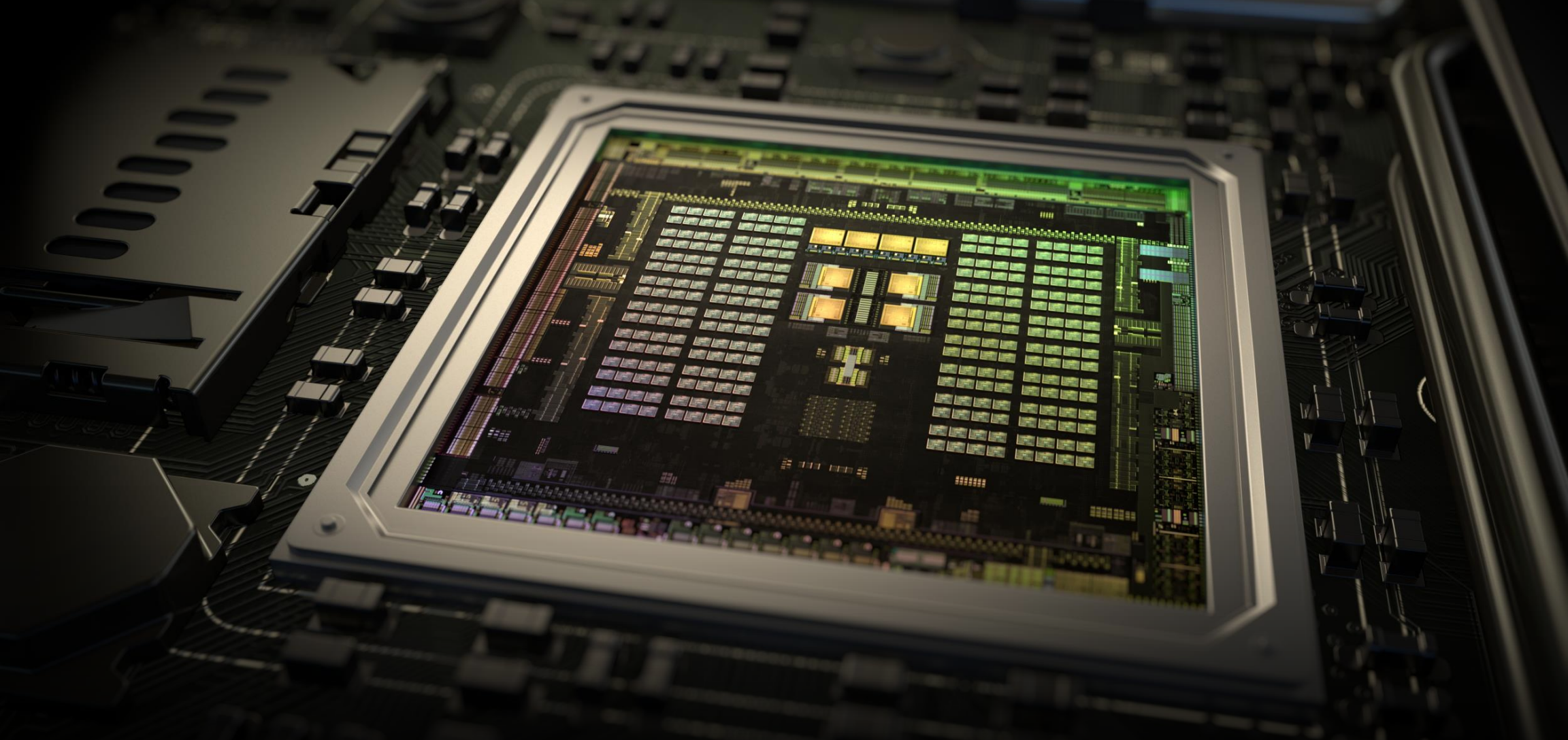
CARS ON THE ROAD

7.5M

MANY MORE COMING...

20⁺ Brands | 100⁺ Models





TEGRA X1 MOBILE SUPERCHIP

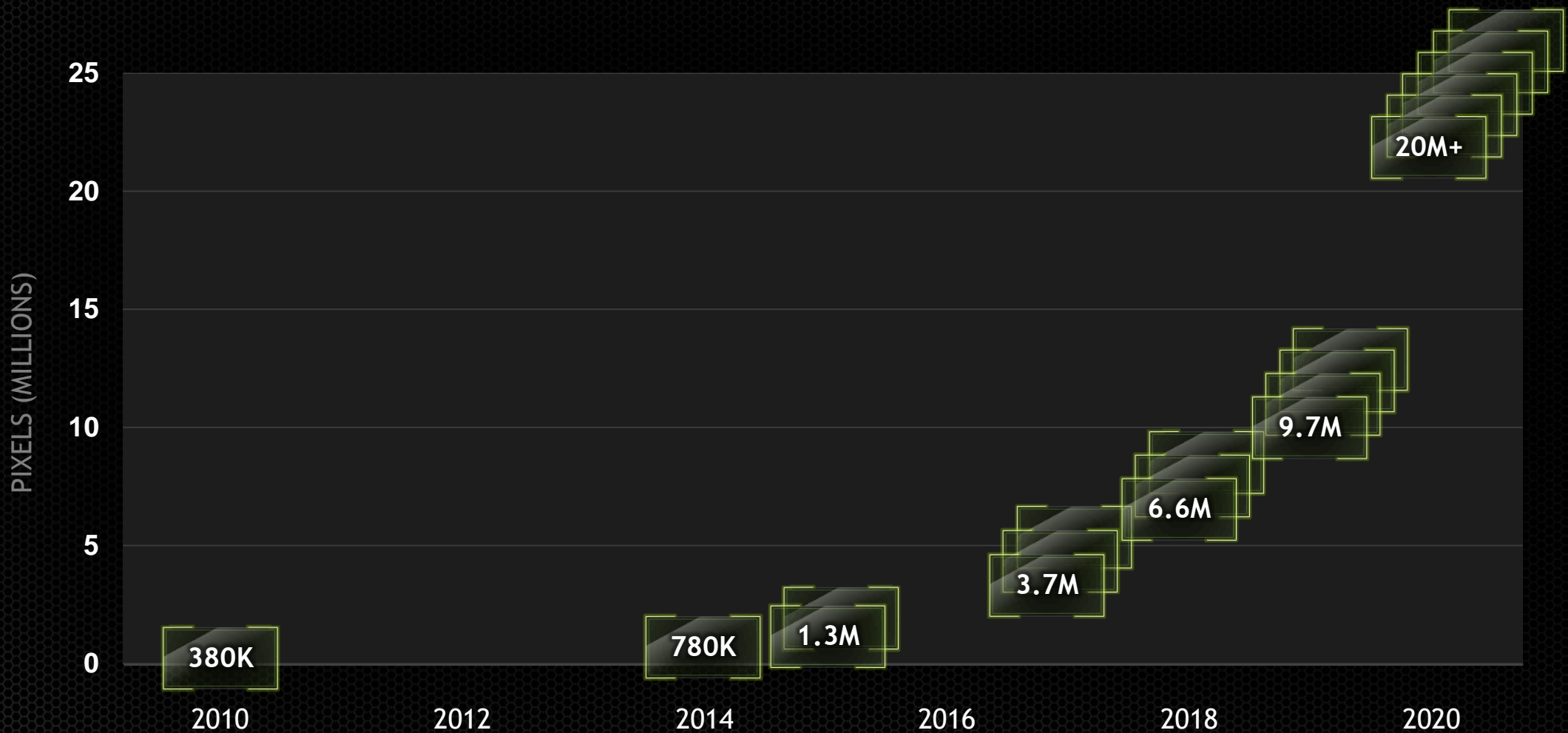
256-core Maxwell GPU | 8-core 64-bit CPU | 4Kp60 10-bit H.265/VP9

WORLD'S 1st TERAFLOPS MOBILE PROCESSOR





PIXELS IN AUTO DISPLAYS



NVIDIA DRIVE™ CX

DIGITAL COCKPIT COMPUTER

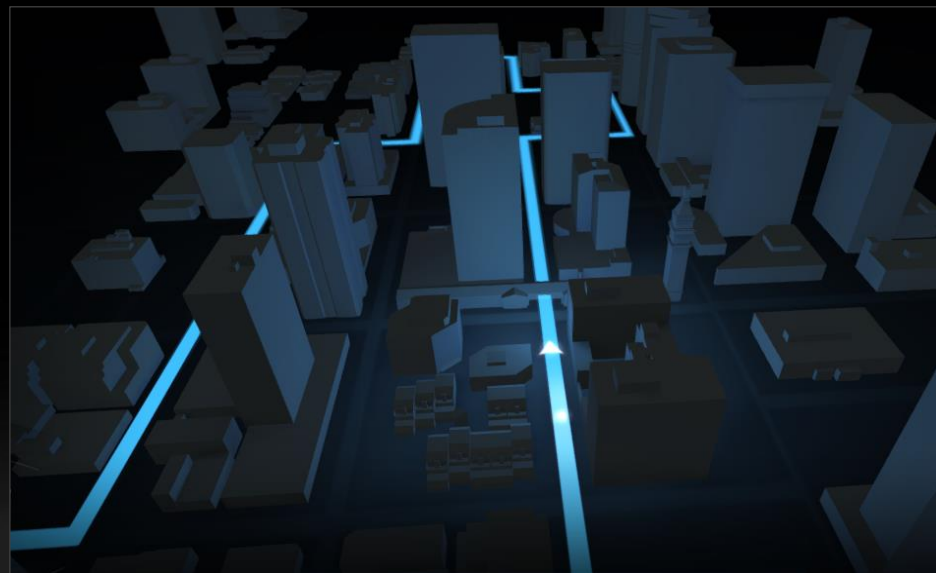
16.6M pixels maximum resolution

- ▶ Industry's most advanced visual computing platform
- ▶ Maxwell — NVIDIA's newest GPU architecture
- ▶ NVIDIA DRIVE Studio





TODAY

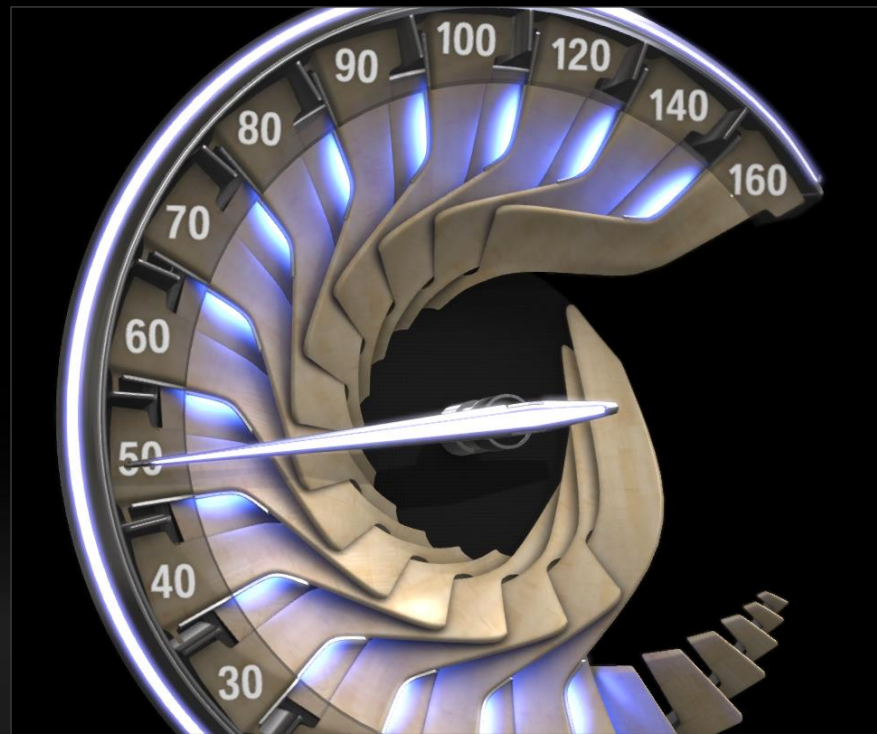


DRIVE CX

NVIDIA DRIVE™ CX NAVIGATION



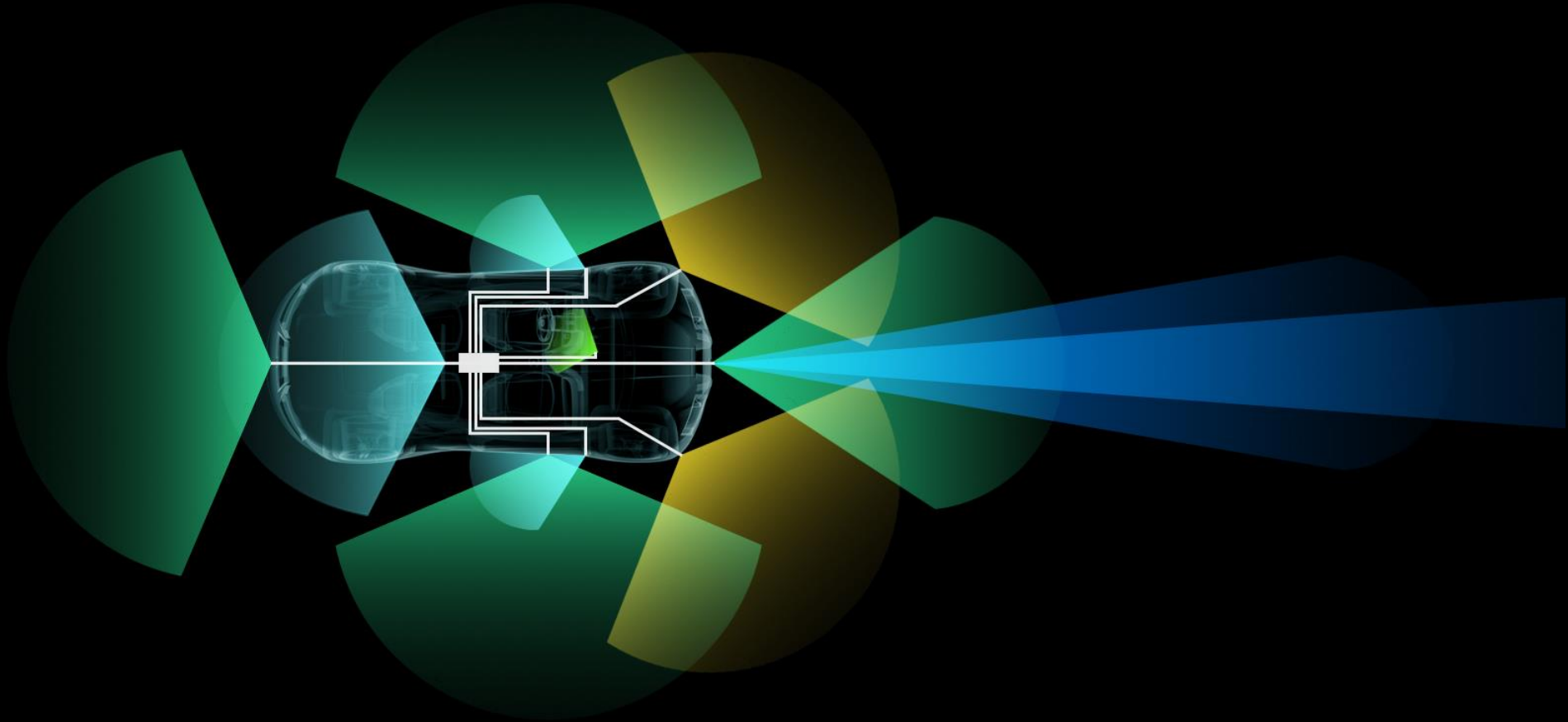
TODAY



DRIVE CX

NVIDIA DRIVE™ CX CLUSTER

THE ROAD TO AUTO-PILOT CARS



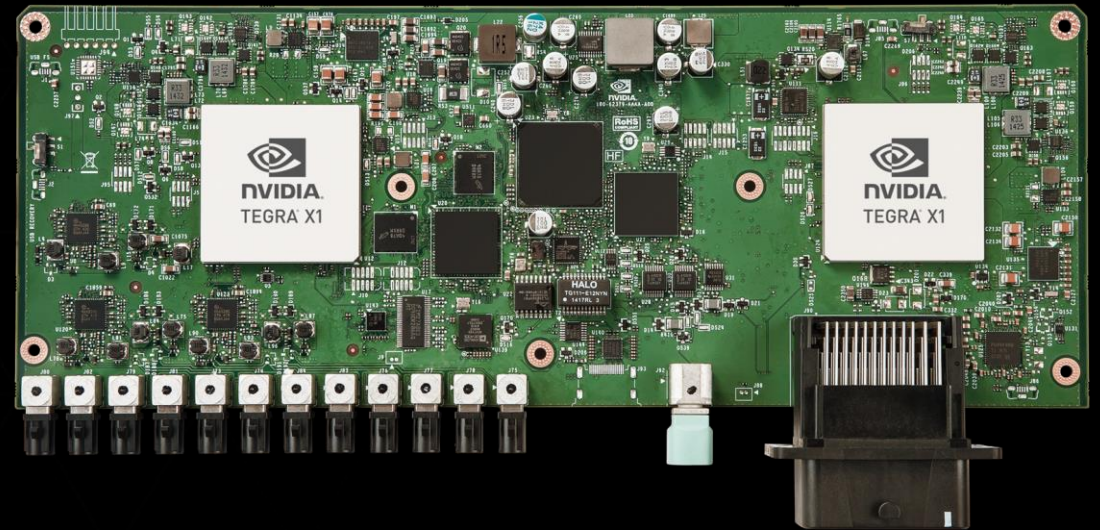
Environment Model • Situation Awareness • Path Finding • Learning

NVIDIA DRIVE™ PX

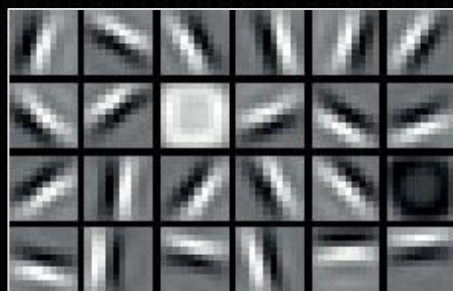
AUTO-PILOT CAR COMPUTER

Dual Tegra X1 • 12 camera inputs • 1.3 GPix/sec

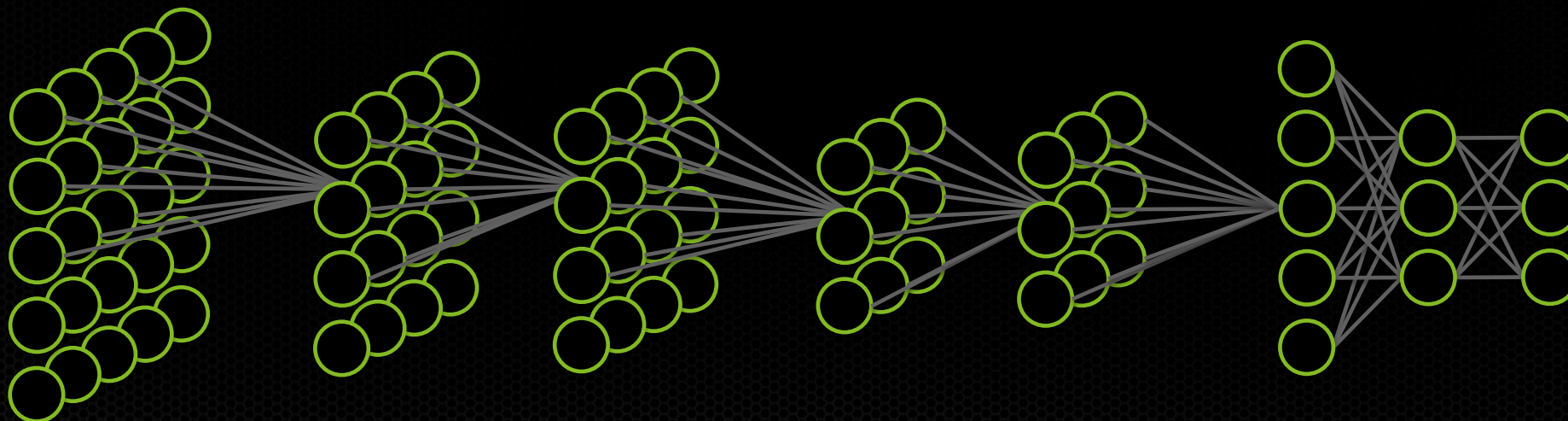
- ▶ 2.3 Teraflops mobile supercomputer
- ▶ CUDA programmability
- ▶ Deep Neural Network Computer Vision
- ▶ Surround Vision



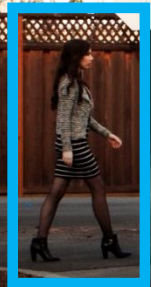
HOW A DEEP NEURAL NETWORK SEES



Image



"Audi A7"

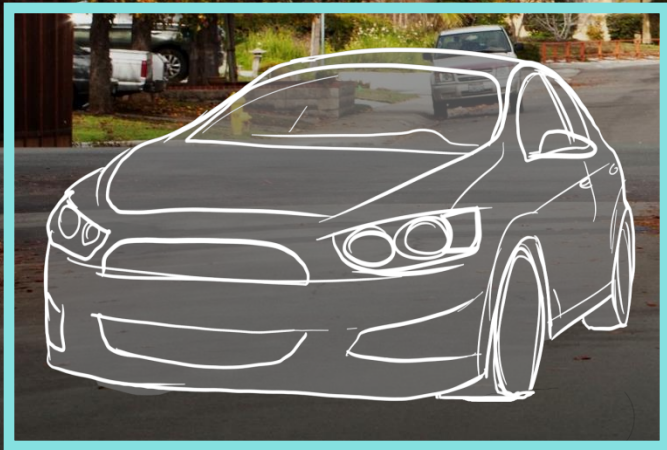


pedestrian





occluded
pedestrian



vehicle



school bus



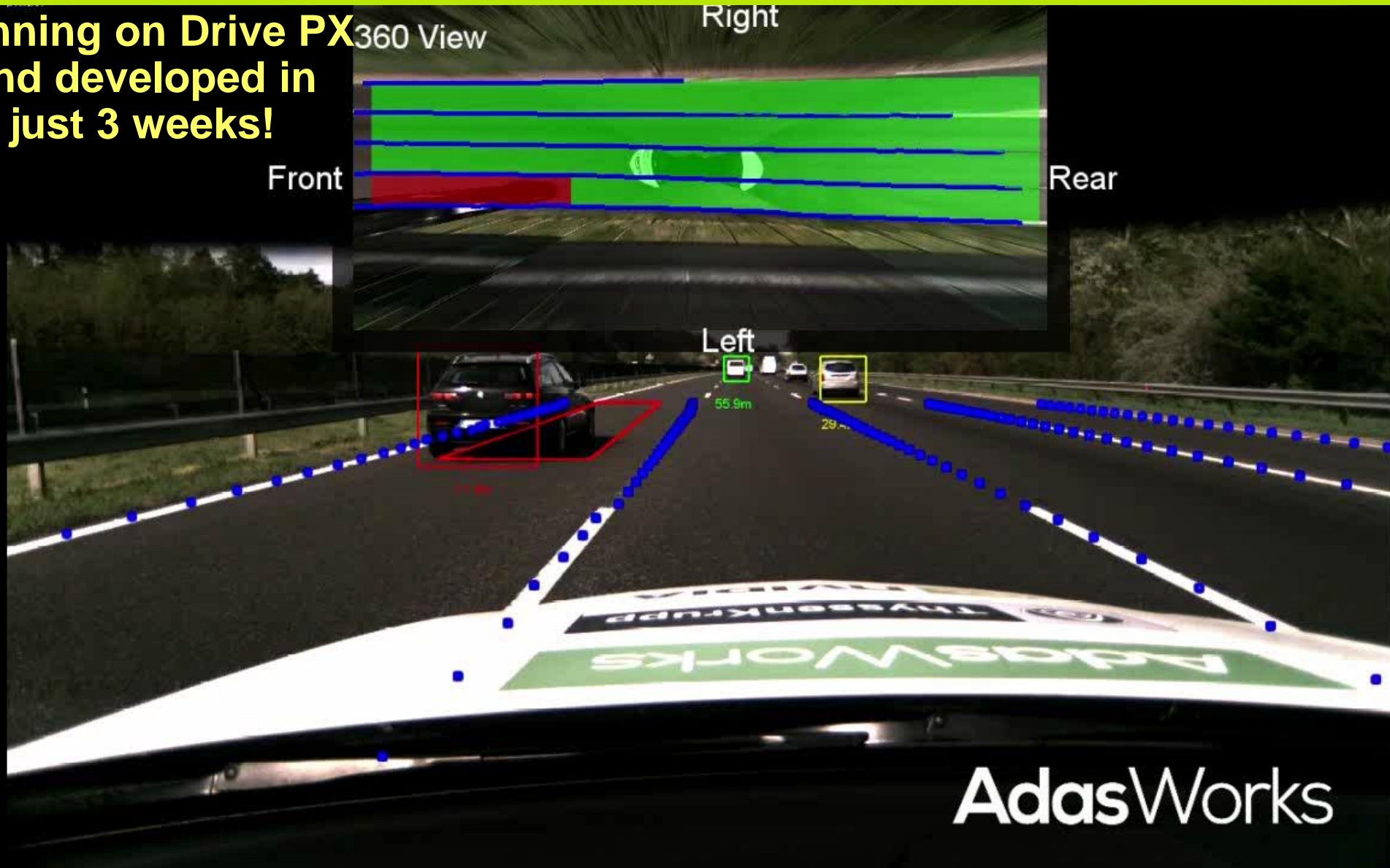
ambulance



CV for Vehicle Detection, DNN for Vehicle Classification



**Running on Drive PX
and developed in
just 3 weeks!**





NVIDIA DRIVE™ PX DEEP NEURAL NETWORK COMPUTER VISION

NVIDIA DRIVE™ PX SURROUND VISION





Simulator



NVIDIA



NEW MODEL FOR INNOVATION

