SUPERCOMPUTERS TO SUPERCARS

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Driven to the Valley

Many automotive companies are opening Silicon Valley research labs and offices as car technology, including self-driving systems, grows tantamount to the industry’s future.
THE WORLD LEADER IN VISUAL COMPUTING
PARALLEL PROCESSING IS THE KEY

CPU

GPU
IN THE BEGINNING
GAMING EVOLUTION
STUNNING VISUAL EFFECTS
SIMULATION
SIMULATION MEANS BETTER PRODUCTS, FASTER

ACTUAL CRASH

SIMULATED CRASH
INTERACTIVE POINT OF SALE
VIRTUAL COCKPIT
VIRTUAL COCKPIT
EVOLUTION OF THE CAR

TODAY

Hardware 90%
Software 10%

TOMORROW

Hardware 40%
Software 40%
Content 20%

Source: Morgan Stanley Research
NVIDIA AUTOMOTIVE

CARS ON THE ROAD
8+ M

MANY MORE COMING...
20+ Brands | 100+ Models
MORE AND MORE PIXELS
PHYSICAL CRAFTSMANSHIP

Upholstery  Headlights  Body Styling
VISUAL CRAFTSMANSHIP
CONFIGURABLE CLUSTER
DRIVE CX

TODAY
TEGRA X1 MOBILE SUPERCHIP
256-core Maxwell GPU | 8-core 64-bit CPU | 4K 60
WORLD’S 1st TERAFLOPS MOBILE PROCESSOR

Tegra 2
Tegra 3
Tegra 4
Tegra K1
Tegra X1 (FP16)

ASCI Red
1st Teraflops Supercomputer

GFLOPS

TIME
THANK YOU!