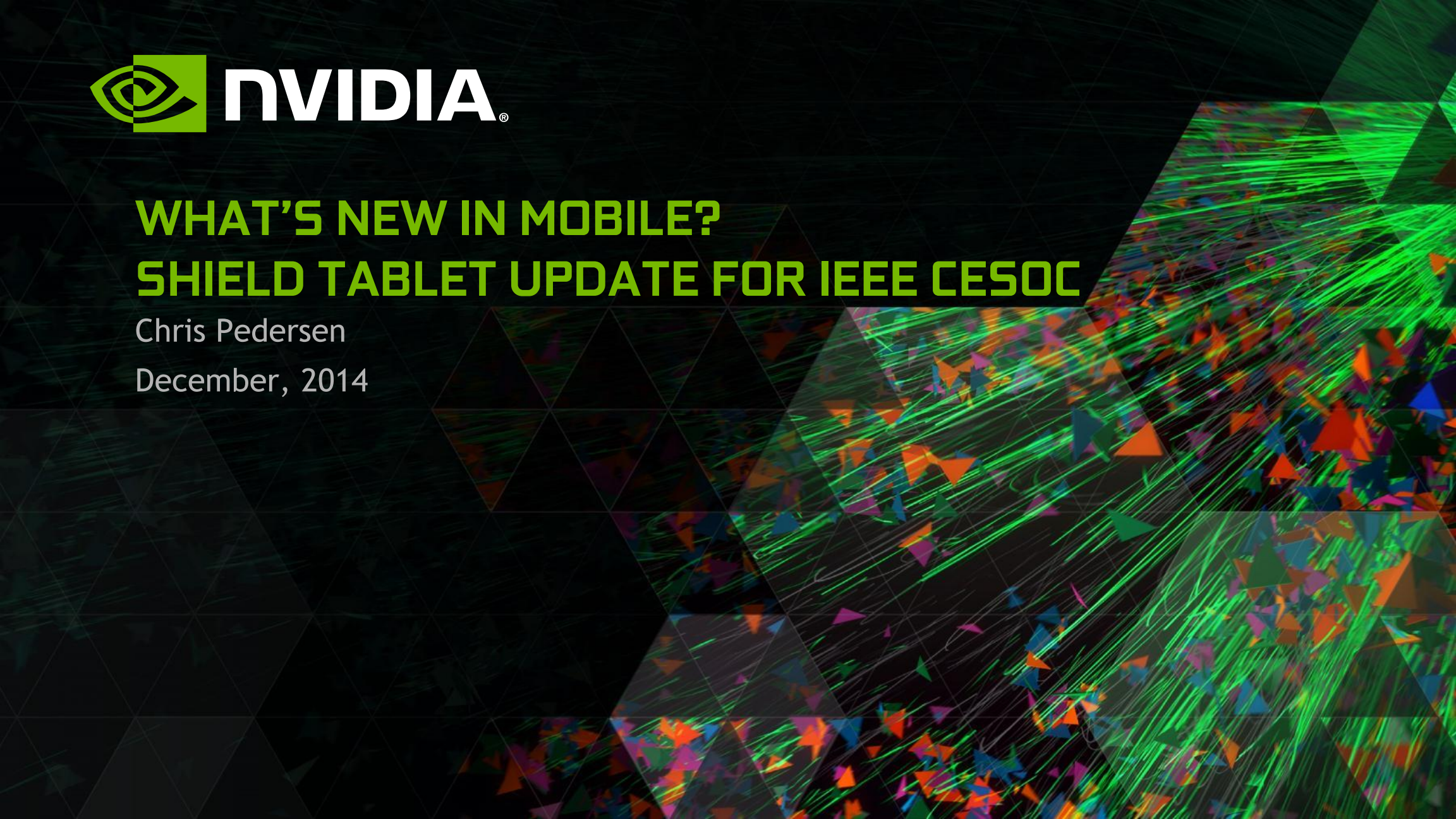
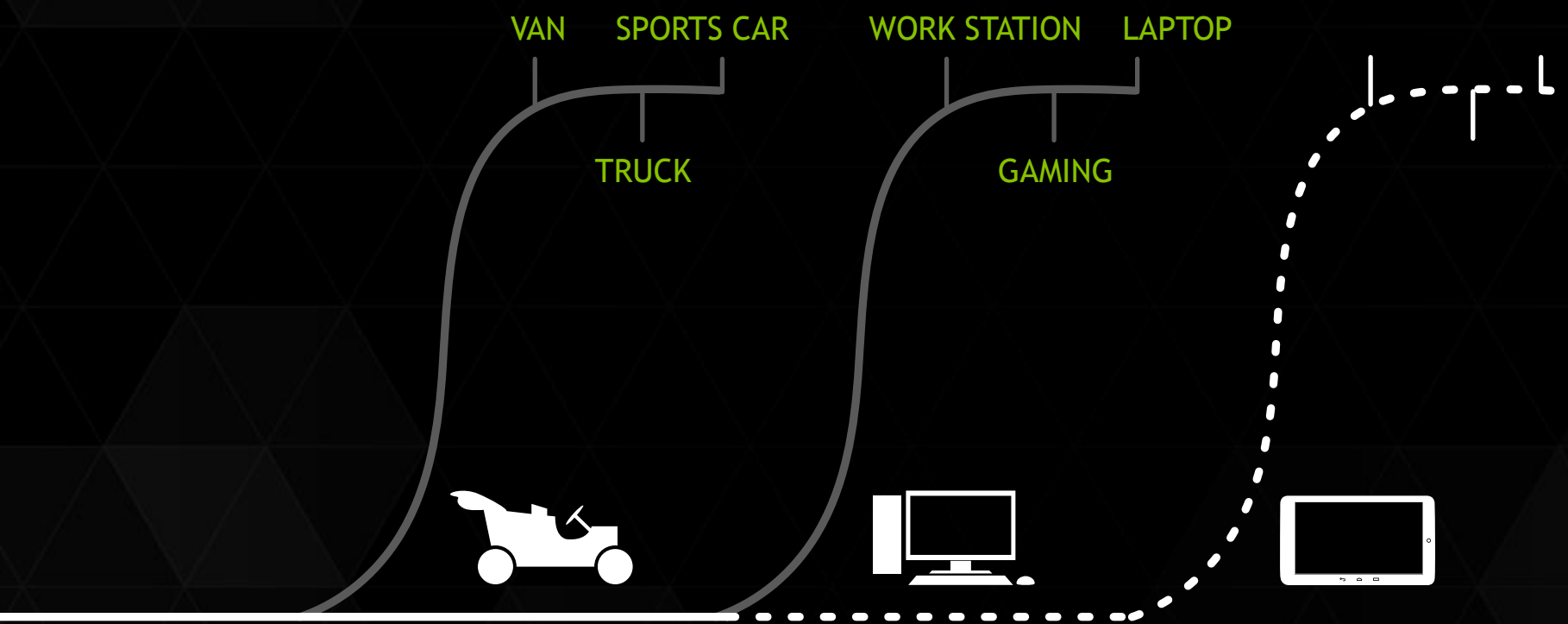


WHAT'S NEW IN MOBILE?
SHIELD TABLET UPDATE FOR IEEE CESOC

Chris Pedersen

December, 2014

MOBILE READY FOR DIFFERENTIATION

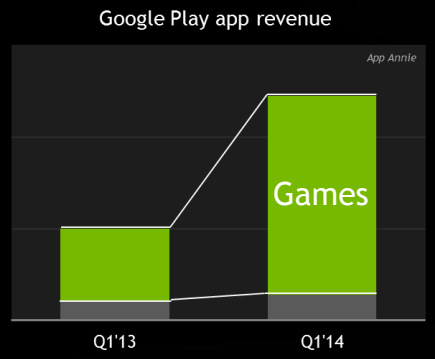


DIFFERENTIATION TWO WAYS

Product

Platform

ULTIMATE ANDROID GAMING



"NVIDIA's Shield Just Became The Best Handheld Gaming Console Available"
— Forbes

"Even if you don't take advantage of its gaming prowess, the Nvidia Shield Tablet is one of the most versatile -- and affordable -- high-performance 8-inch Android slates you can buy"
— CNET

SHIELD PORTABLE

SHIELD TABLET

SHIELD CONTROLLER

ULTIMATE ANDROID GAMER EXPERIENCES

PLAY GAMES ANYWHERE

TURN TABLET INTO CONSOLE

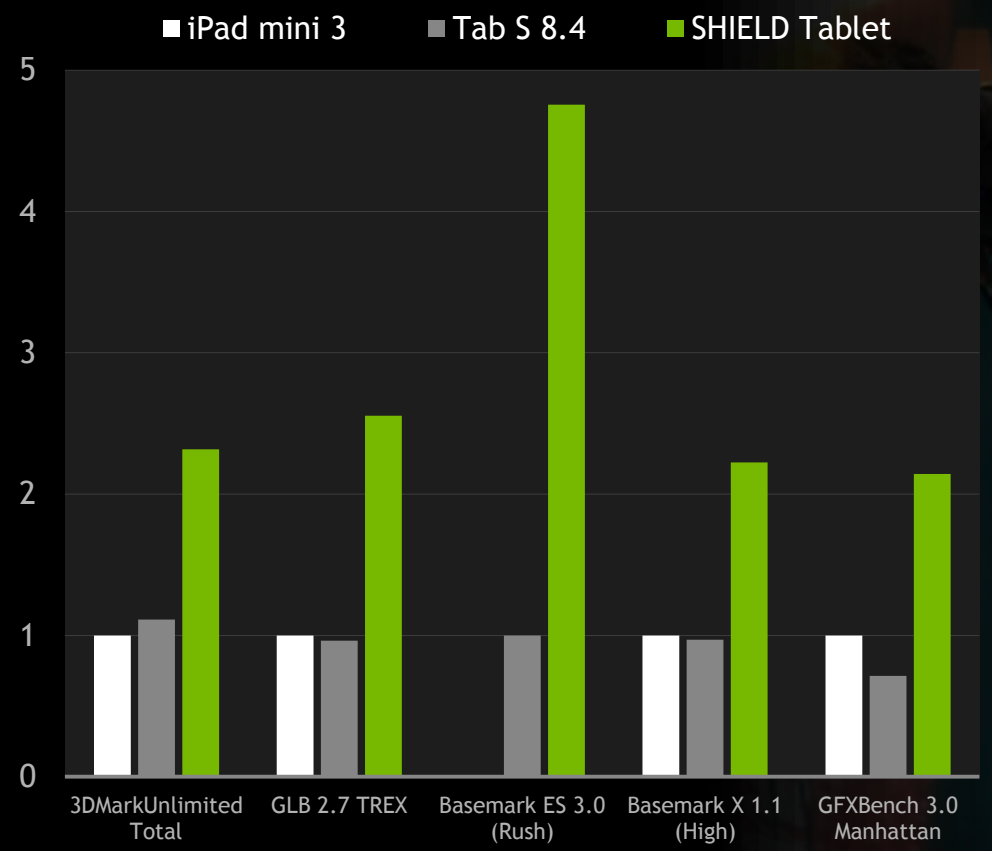
PLAY PC GAMES ANYWHERE

STREAM TO TWITCH

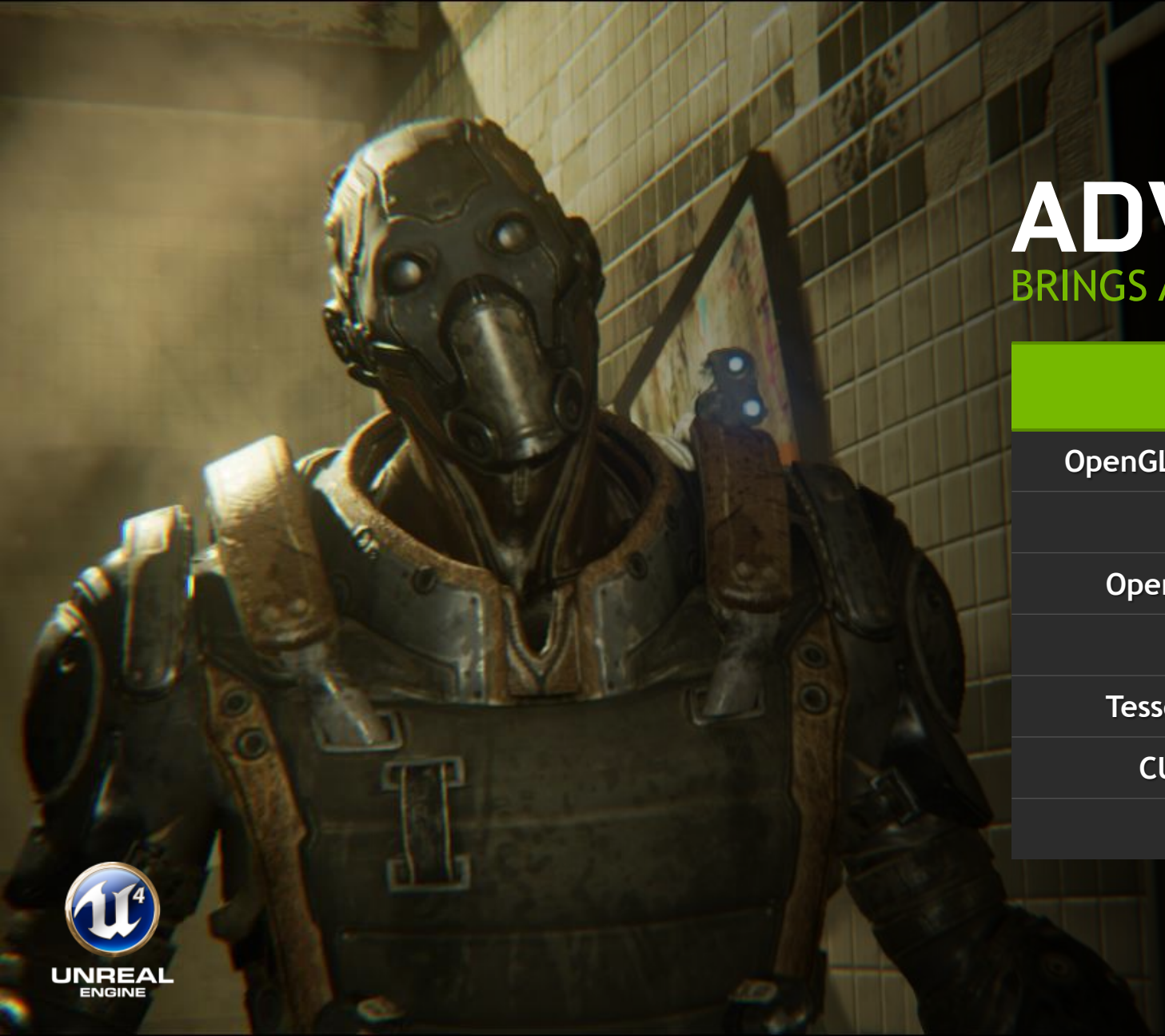
STREAM PC GAMES FROM CLOUD

PAINT IN 3D

FAST AP – TK1



Tab S – Exynos 5 Octa; iPad mini 3 – A7 64bit

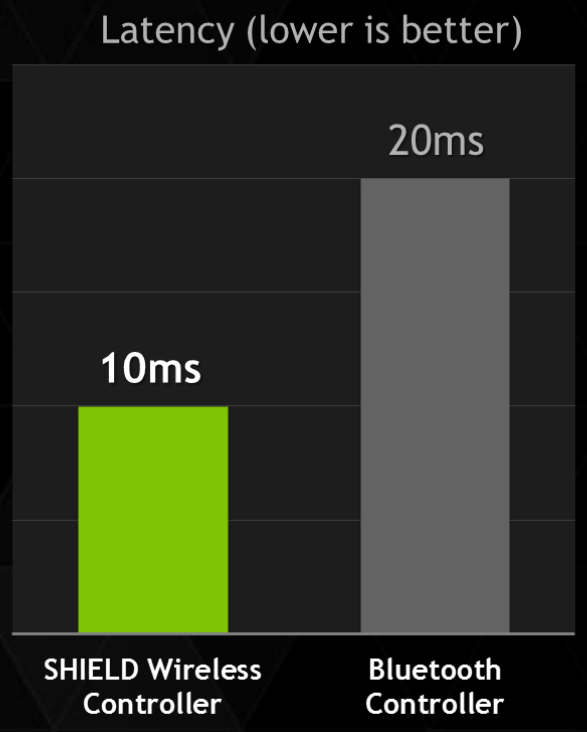


ADVANCED GPU

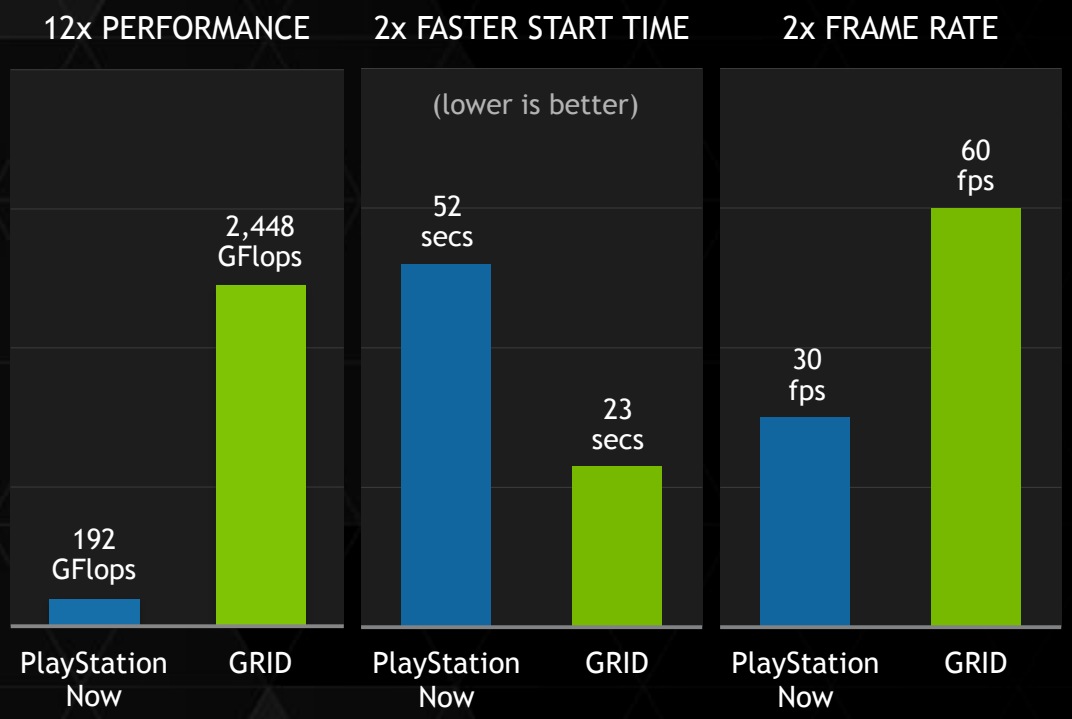
BRINGS AMAZING VISUALS TO MOBILE

	TEGRA K1 Kepler Graphics	GEFORCE TITAN
OpenGL ES 3.1	✓	✓
AEP	✓	✓
OpenGL 4.4	✓	✓
DX12	✓	✓
Tessellation	✓	✓
CUDA 6.0	✓	✓
Power	<2W	250W

DESIGNED FOR ANDROID AND STREAMED PC GAMES



GEFORCE GAMING FROM THE CLOUD

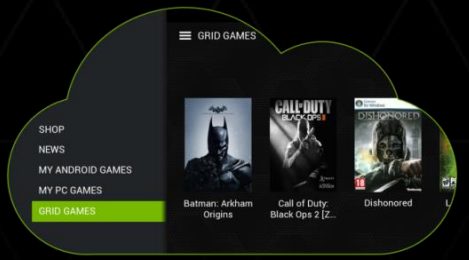


NVIDIA

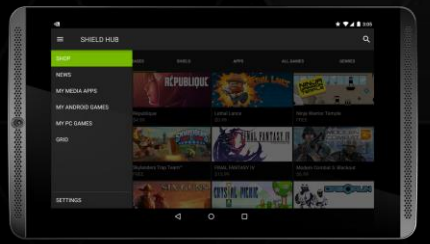
SHIELD TABLET SOFTWARE UPGRADE

ANDROID 5.0 LOLLIPOP

DABBLER 2.0

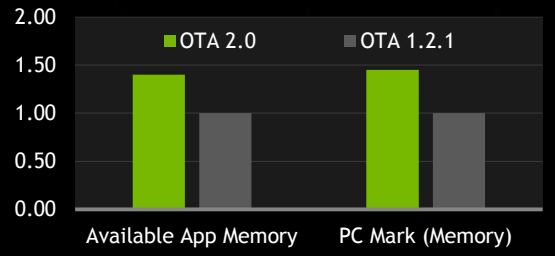


GRID



SHIELD HUB

Y-CABLE SUPPORT



MEMORY & PERF OPTIMIZATIONS

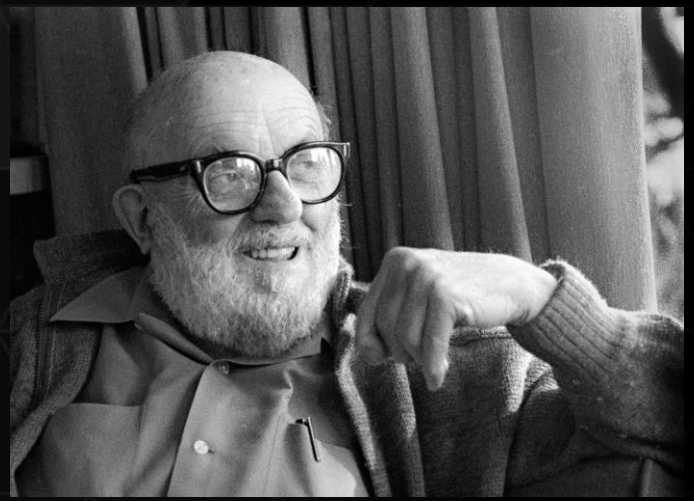
4K VIDEO CONSOLE MODE

NVIDIA

SHIELD VIDEO DEMO

Click to Play

COMPUTATIONAL PHOTOGRAPHY



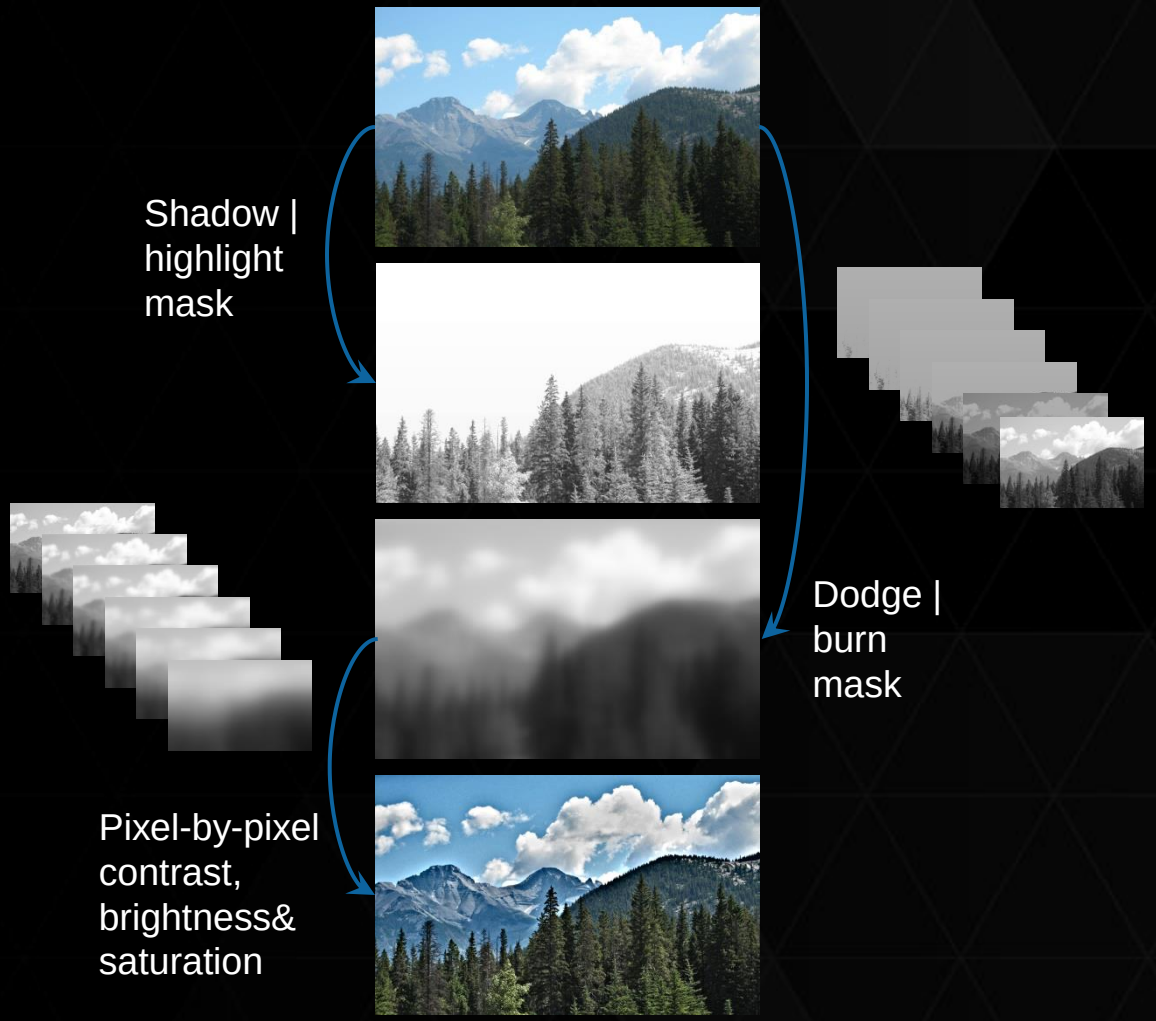
YOU DON'T TAKE A PHOTOGRAPH, YOU MAKE IT.

ANSEL ADAMS

LOCAL TONE MAPPING ON TK1 GPU

- High throughput for HD pixel-by-pixel processing at video rates
- Flexibility to control LTM settings for creative looks
- 5+ GFLOPS for HD @ 30 FPS

  200 FLOPS/pixel x 1280x720/F x 30 F/s = 5.5 GFLOPS



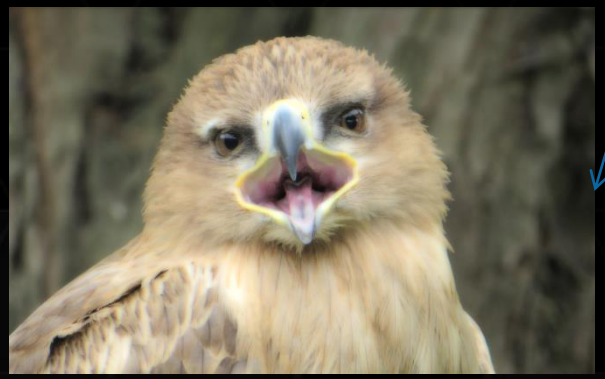
NVIDIA.

LTM HD EFFECTS STYLES

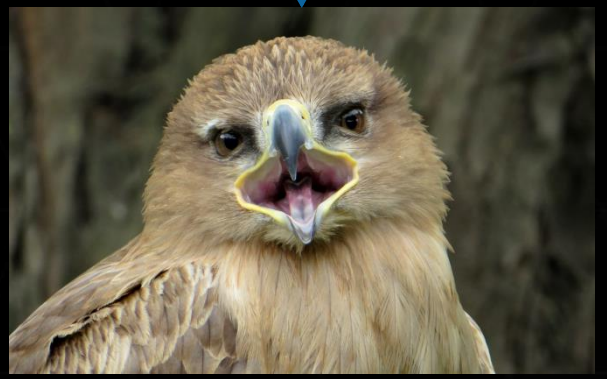
Enhanced

Original

Dramatic



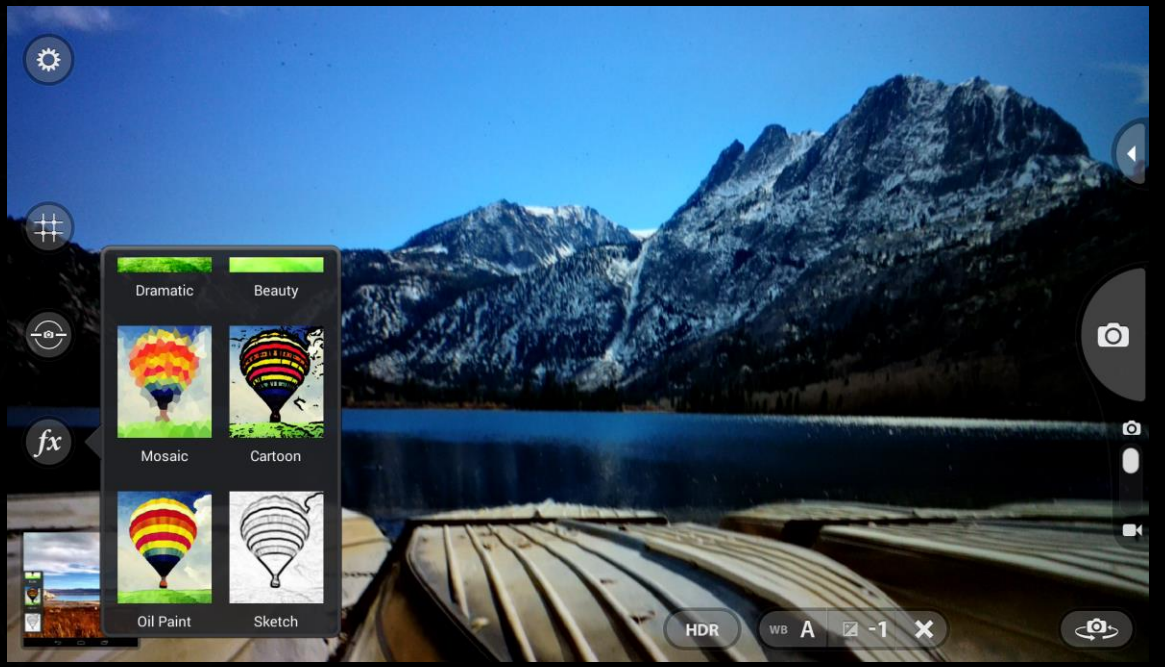
Beauty



Natural

Vivid

NVIDIA.

HAVING FUN WITH A PLAYFUL CAMERA

SHIPPING SHORTLY --
LIVE-PREVIEW HD &
LTM EFFECTS