



2019 INVESTOR MEETING

THE TRANSFORMATION OF THE PC SECTOR

GREGORY BRYANT

SENIOR VICE PRESIDENT
GENERAL MANAGER, CLIENT COMPUTING GROUP

DISCLOSURES

Statements in this presentation that refer to business outlook, future plans and expectations are forward-looking statements that involve a number of risks and uncertainties. Words such as "anticipates," "expects," "intends," "goals," "plans," "believes," "seeks," "estimates," "continues," "may," "will," "would," "should," "could," and variations of such words and similar expressions are intended to identify such forward-looking statements. Statements that refer to or are based on estimates, forecasts, projections, uncertain events or assumptions, including statements relating to total addressable market (TAM) or market opportunity, future products and the expected availability and benefits of such products, and anticipated trends in our businesses or the markets relevant to them, also identify forward-looking statements. Such statements are based on management's expectations as of May 8, 2019, unless an earlier date is indicated, and involve many risks and uncertainties that could cause actual results to differ materially from those expressed or implied in these forward-looking statements. Important factors that could cause actual results to differ materially from the company's expectations are set forth in Intel's earnings release dated April 25, 2019, which is included as an exhibit to Intel's Form 8-K furnished to the SEC on such date. Additional information regarding these and other factors that could affect Intel's results is included in Intel's SEC filings, including the company's most recent reports on Forms 10-K and 10-Q. Copies of Intel's Form 10-K, 10-Q and 8-K reports may be obtained by visiting our Investor Relations website at www.intc.com or the SEC's website at www.sec.gov.

All information in this presentation reflects management's views as of May 8, 2019, unless an earlier date is indicated. Intel does not undertake, and expressly disclaims any duty, to update any statement made in this presentation, whether as a result of new information, new developments or otherwise, except to the extent that disclosure may be required by law.

KEY MESSAGES

ACCELERATING THE PACE OF INNOVATION

UNMATCHED PORTFOLIO OF LEADERSHIP PRODUCTS

PURSUING EXPANDED TAM OF \$68B

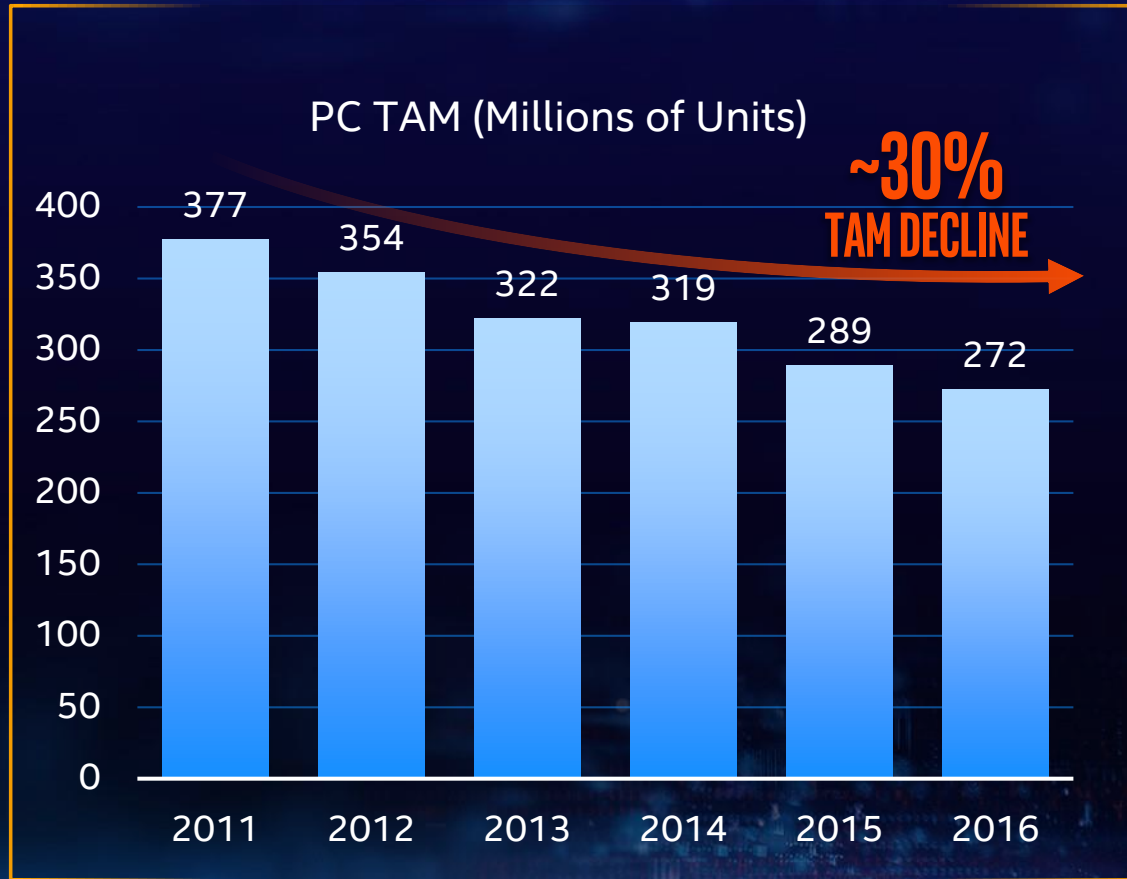
DRIVING THE INTEL ADVANTAGE THROUGH PLATFORMS



2019 INVESTOR MEETING

2016: AN INFLECTION POINT

PC TAM



The Register®

**“The PC is dead.
Gartner wishes you luck,
vendors”**

– May 2016



2019 INVESTOR MEETING

Source: MS&F and IDC

EVOLVING PC MARKET

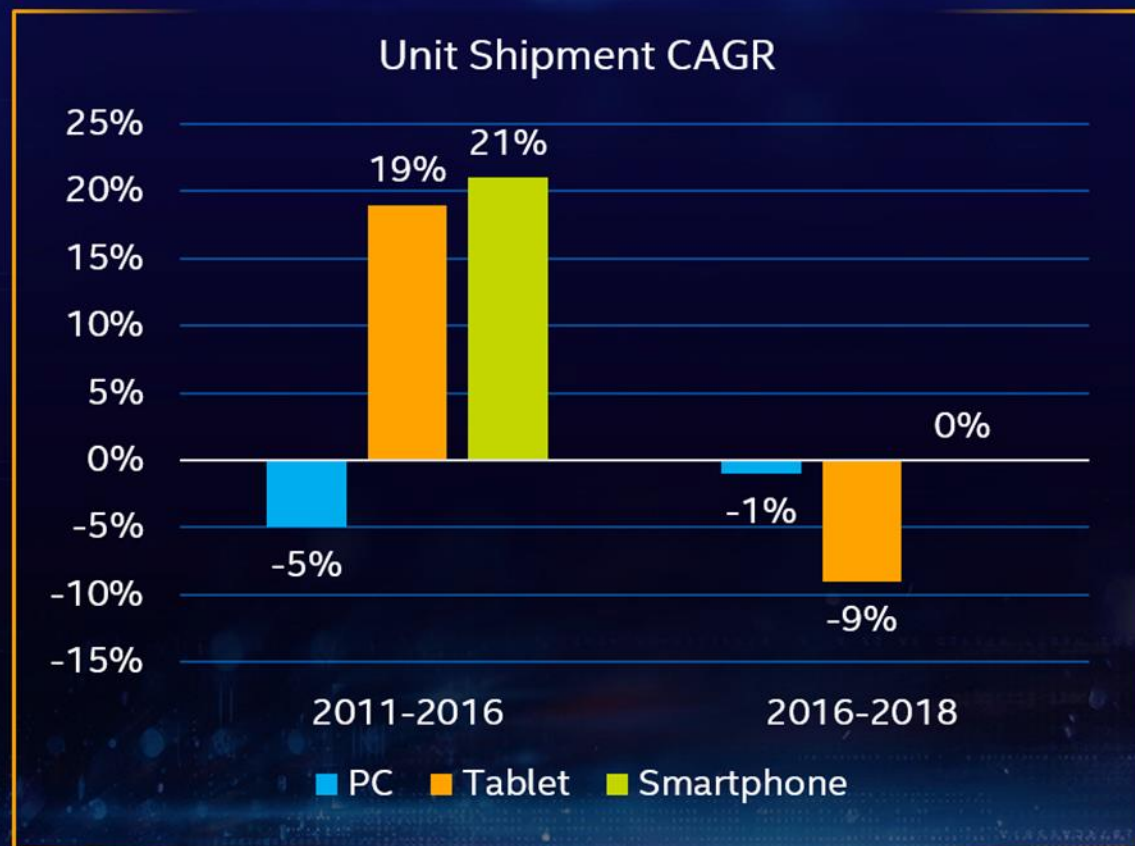
OUR BELIEFS

PC HAS LOYALISTS & CORE USAGES

SHIFT TO PREMIUM FORM FACTORS

INNOVATION REQUIRED

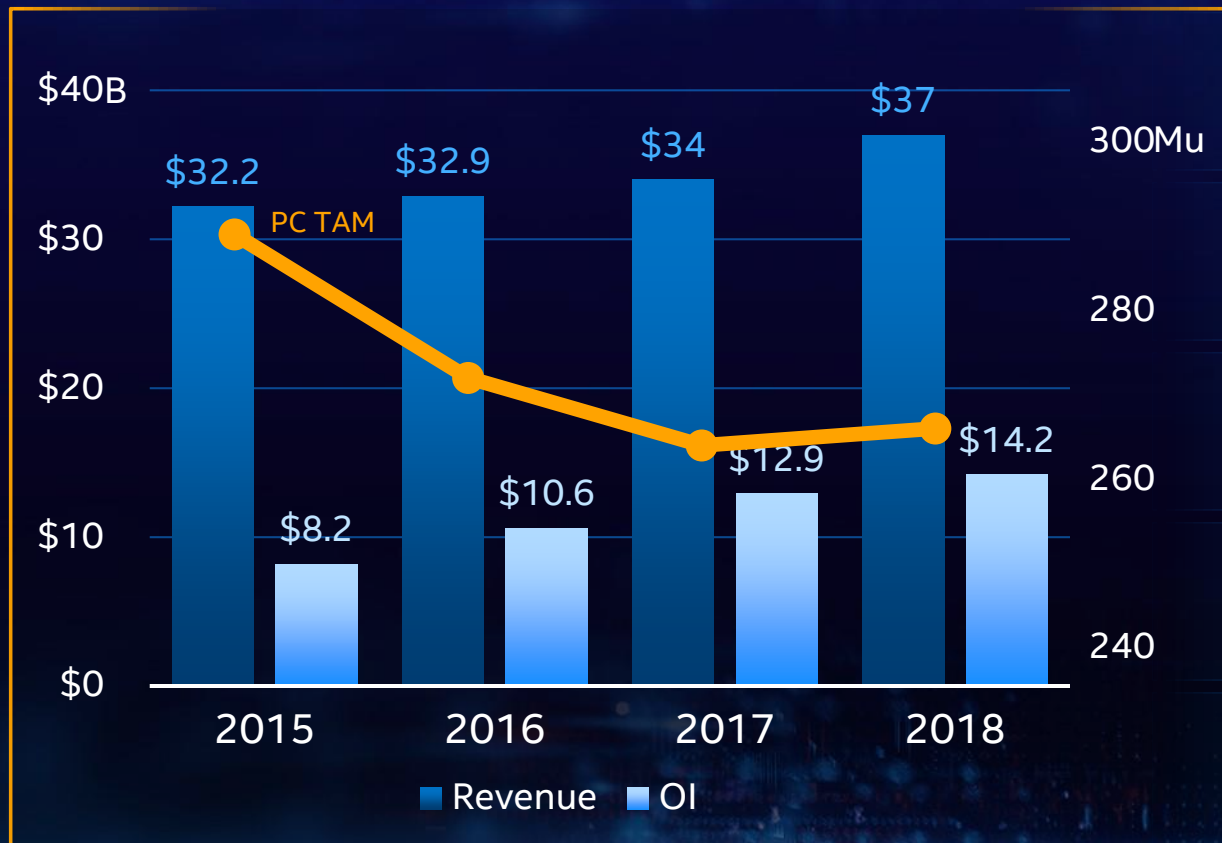
RESULTS



2019 INVESTOR MEETING

Source: Q1'19 IDC Trackers, Q1'19 Gartner Forecasts

OUR RESULTS



MARKET STABILIZING

DELIVERED 3 YEARS
OF TOP & BOTTOM LINE GROWTH

MANUFACTURING AND IP R&D SCALE

2019 PC-CENTRIC REVENUE
DOWN LOW SINGLE DIGITS YOY

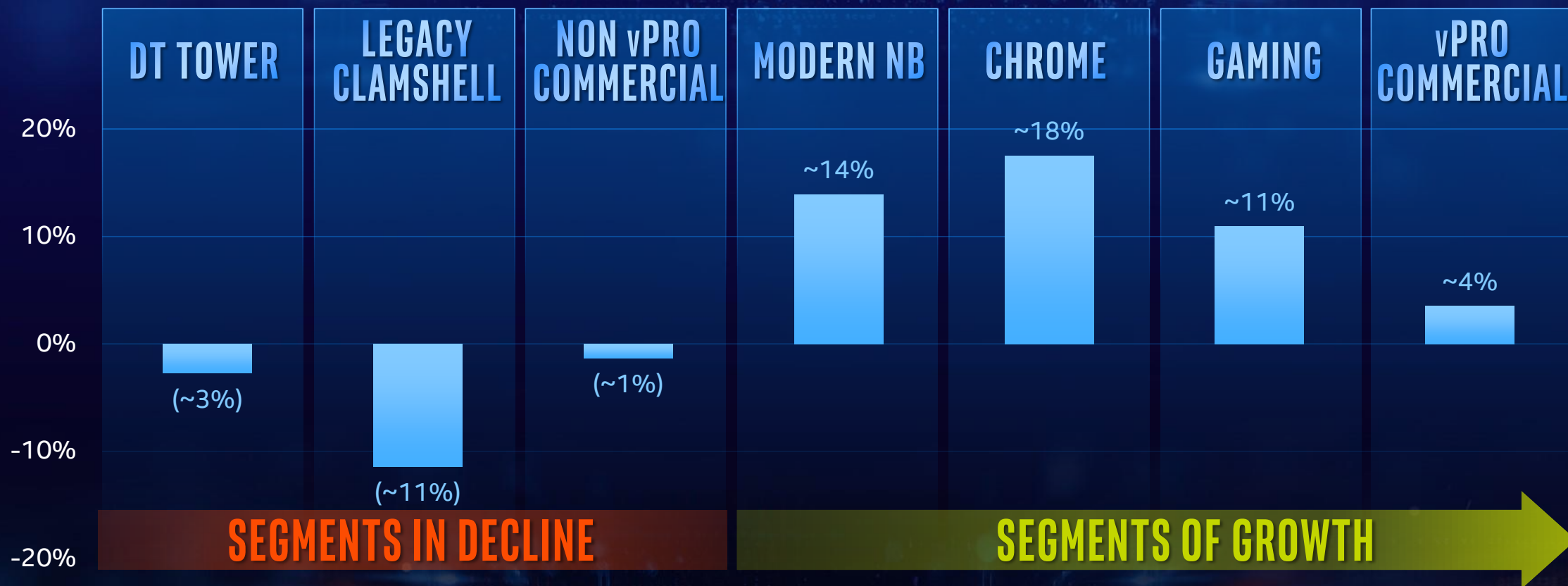
CONSTRAINED SUPPLY
& COMPETITIVE ENVIRONMENT



2019 INVESTOR MEETING

Source: PC TAM MS&F and IDC

WE CHANGED THE GAME



SHIFTED FOCUS: PREMIUM, PURPOSE-BUILT PRODUCTS



2019 INVESTOR MEETING

Source: 2018-'23 Intel Revenue CAGR based on Intel Internal forecast

CLIENT COMPUTING GROUP IMPERATIVES

1.

ACCELERATE THE PACE OF INNOVATION

2.

WIN IN AN EXPANDED TAM

3.

INTEL ADVANTAGE THROUGH PLATFORMATION



2019 INVESTOR MEETING

1.

ACCELERATING THE PACE OF INNOVATION

MODERN NB



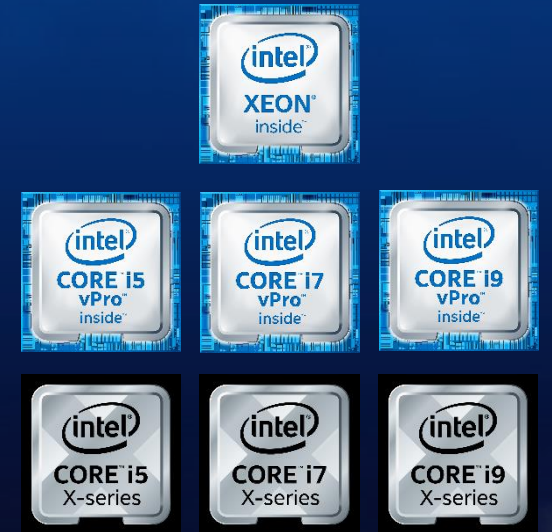
CHROME



GAMING



COMMERCIAL



UNMATCHED LEADERSHIP PORTFOLIO



2019 INVESTOR MEETING

1.

ACCELERATING THE PACE OF INNOVATION

2019

ICE LAKE

NEW CPU CORE ARCHITECTURE

NEW GEN 11 GRAPHICS ENGINE

1ST INTEGRATED WIFI6 (11AX) /
THUNDERBOLT™ 3

OpenVINO / DL BOOST

**A NEW LEVEL OF
INTEGRATION**

2019

LAKEFIELD

HYBRID CPU ARCHITECTURE

3D FOVEROS PACKAGING

NEW GEN 11 GRAPHICS ENGINE

IMPROVED STANDBY SOC POWER

**ENABLING REVOLUTIONARY
NEW FORM FACTORS**

2020

TIGER LAKE

NEW CPU CORE ARCHITECTURE

NEW X^e GRAPHICS ENGINE

LATEST DISPLAY TECHNOLOGY

NEXT GEN I/O TECHNOLOGY

**MOBILITY
REDEFINED**



2019 INVESTOR MEETING

1.

ACCELERATING THE PACE OF INNOVATION



3X* WIRELESS SPEEDS¹



4X* GRAPHICS PERFORMANCE²



2.5-3X* AI PERFORMANCE³



2X* PRODUCTIVITY IN SLIM FORM FACTORS⁴



4X* ENCODE PERFORMANCE⁵

Disclaimer: Results are approximate and have been estimated or simulated as of April 2019 using Intel internal analysis or architecture simulation or modeling

* Approximate

1) Intel's Wi-Fi 6 (GIG+) vs typical competitive 11AC design

2) 15W WHL to 25W TGL (projections)

3) AIXPRT Community 2 Preview; OpenVINO 2018.R5, Max Throughput 15W WHL to 15W ICL projection

4) 5W AML 2+2 vs 9W TGL 4+2 projections

5) WHL 4K60 to TGL 8K60 projections



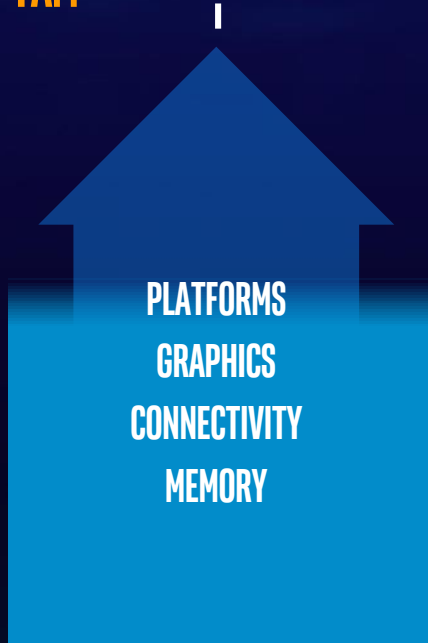
2019 INVESTOR MEETING

For more complete information about performance and benchmark results, visit www.intel.com/benchmarks. Performance results are based on testing as of date specified and may not reflect all publicly available security updates. See configuration disclosure for details. No product or component can be absolutely secure.

2.

WIN IN AN EXPANDED TAM

2023
TAM ~\$68B



PC & ADJACENCIES

\$39

TAM

INTEL SHARE

CPU

\$7

MEMORY

\$6

DGFX

\$10

CONNECTIVITY

\$6

GATEWAY

OPPORTUNITY TO GROW BEYOND THE CPU TAM



2019 INVESTOR MEETING

Source: Intel calculated 2023 TAM derived from industry analyst reports/internal estimates and 2018 Intel revenue

2.

WIN IN AN EXPANDED TAM

MEMORY (\$7B TAM)

INTEL® OPTANE™ MEMORY
SHIPPED IN 2018

INTEL® OPTANE™ MEMORY
H10 WITH SOLID-STATE
STORAGE LAUNCHED APRIL

PERSISTENT MEMORY ON
WORKSTATIONS 2H'19

**LAUNCH GAMES
UP TO 60% FASTER¹**

CONNECTIVITY (\$10B TAM)

FIRST TO PC MARKET
WITH WI-FI6
(Discrete & Integrated)

NEW INDUSTRY STANDARD
WITH THUNDERBOLT™ 3

ACPC/LTE MARKET LEADER

**NEARLY 3X
FASTER SPEEDS²**

GRAPHICS (\$6B TAM)

LEADER IN INTEGRATED GFX

GEN 11 LAUNCHING IN 2019

NEW Xe ARCHITECTURE
IN 2020

**ACCELERATING GRAPHICS
PERFORMANCE**

1) Optane – based on 8th Gen Intel U with Optane Memory H10

2) Wireless- Intel's Wi-Fi 6 (Gig+) vs. typical 11AC design

For more complete information about performance and benchmark results, visit www.intel.com/benchmarks. Performance results are based on testing as of date specified and may not reflect all publicly available security updates. See configuration disclosure for details. No product or component can be absolutely secure.

3.

INTEL ADVANTAGE THROUGH PLATFORMATION

PROJECT ATHENA

MOBILE INNOVATION ROOTED IN HUMAN UNDERSTANDING



2019 INVESTOR MEETING

3.

INTEL ADVANTAGE THROUGH PLATFORMATION

ECOSYSTEM & ENABLEMENT

HARDWARE TUNING & VENDOR LIST

ADJACENT SI

WI-FI

COMPUTE
SOC

GRAPHICS

BATTERY

DISPLAY

MODEM

OPTANE™

BIOS

NEW USAGE MODELS

NEW EXPERIENCES

NEW FORM FACTORS

acer

ASUS

BOE

COMPAL



EDO

Google



HQ
HUAQIN

INNOLUX

Lenovo



PEGATRON



Quanta Computer

SHARP

SAMSUNG

wlstron



2019 INVESTOR MEETING

SUMMARY

ACCELERATING THE PACE OF INNOVATION

UNMATCHED PORTFOLIO OF LEADERSHIP PRODUCTS

PURSUING EXPANDED TAM OF \$68B

DRIVING THE INTEL ADVANTAGE THROUGH PLATFORMS



2019 INVESTOR MEETING

CONFIGURATION DISCLOSURE

Performance results are based on testing as of dates shown in configuration and may not reflect all publicly available security updates. See configuration disclosure for details. No product or component can be absolutely secure. Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products. For more complete information visit www.intel.com/benchmarks.

Approx. 3x Wireless Speeds: 802.11ax 2x2 160MHz enables 2402Mbps maximum theoretical data rates, ~3X (2.8X) faster than standard 802.11ac 2x2 80MHz (867Mbps) as documented in IEEE 802.11 wireless standard specifications, and require the use of similarly configured 802.11ax wireless network routers.

Approx. 4x Graphics Performance: Estimated by Intel as of April 2019, based on the 3DMark 11 and Firestrike scores of TGL U42 25W as compared to WHL U42 15W.

Approx. 2.5x-3x AI Performance: Workload: images per second using AIXPRT Community Preview 2 with Int8 precision on ResNet-50 and SSD-Mobilenet-v1 models. Intel preproduction system, ICL-U, PL1 15w, 4C/8T, Turbo TBD, Intel Gen11 Graphics, GFX driver preproduction, Memory 8GB LPDDR4X-3733, Storage Intel SSD Pro 760P 256GB, OS Microsoft Windows 10, RS5 Build 475, preprod bios. Vs. Config – HP spectre x360 13t 13-ap0038nr, Intel® Core™ i7-8565U, PL1 20w, 4C/8T, Turbo up to 4.6Ghz, Intel UHD Graphics 620, Gfx driver 26.20.100.6709, Memory 16GB DDR4-2400, Storage Intel SSD 760p 512GB, OS – Microsoft Windows 10 RS5 Build 475 Bios F.26. Estimated as of April 2019.

Approx. 2x Productivity in Slim Form Factors: Estimated by Intel as of April 2019, based on SYSmark 2014 (overall score) of AML Y-5W 2+2 SKL 14nm i7-8500Y as compared to TGL Y-9W 4+2 WLC 10nm.

Approx. 4x Encode Performance: Estimated by Intel as of April 2019 between WHL 4K60 and TGL 8K60.

Launch Games up to 60% Faster: Testing by Intel as of March 22nd, 2019. As measured by Path of Exile* Game Launch with Background Activity (e.g. 18GB Video File Copy), comparing 8th Gen Intel® Core™ i7-8565U (512GB TLC SSD) vs. 8th Gen Intel® Core™ i7-8565U (32GB+512GB Intel® Optane™ memory H10 with solid state storage)

DISCLAIMERS

Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products. For more information go to www.intel.com/benchmarks.

Performance results are based on testing as of date specified in the Configuration Disclosure and may not reflect all publicly available security updates. See configuration disclosure for details. No product or component can be absolutely secure.

Optimization Notice: Intel's compilers may or may not optimize to the same degree for non-Intel microprocessors for optimizations that are not unique to Intel microprocessors. These optimizations include SSE2, SSE3, and SSSE3 instruction sets and other optimizations. Intel does not guarantee the availability, functionality, or effectiveness of any optimization on microprocessors not manufactured by Intel. Microprocessor-dependent optimizations in this product are intended for use with Intel microprocessors. Certain optimizations not specific to Intel microarchitecture are reserved for Intel microprocessors. Please refer to the applicable product User and Reference Guides for more information regarding the specific instruction sets covered by this notice.

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. Check with your system manufacturer or retailer or learn more at intel.com.

Intel, the Intel logo, Celeron, Intel Core, Intel Optane, Intel vPro, OpenVINO, Pentium, and Thunderbolt are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries.

*Other names and brands may be claimed as the property of others.
© Intel Corporation.

