INNOVATION THROUGH INTELLIGENCE
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UNLEASHING THE POTENTIAL OF DATA
EXponential growth of data


50% data created by IoT devices

<1% processed by AI models today
5G NETWORK TRANSFORMATION
ARTIFICIAL INTELLIGENCE
INTELLIGENT EDGE

TECHNOLOGY INFLECTIONS
EMBEDDING INTELLIGENCE ACROSS OUR PRODUCT PORTFOLIO
PROFOUND IMPACT OF INTELLIGENCE
PROFOUND IMPACT OF INTELLIGENCE
WORLD-CHANGING TECHNOLOGY THAT ENRICHES THE LIVES OF EVERY PERSON ON EARTH
INNOVATION THROUGH INTELLIGENCE

NAVIN SHENOY
EXECUTIVE VICE PRESIDENT AND GENERAL MANAGER
DATA PLATFORMS GROUP
INTELLIGENCE
TRANSFORMING ENTERTAINMENT
VIDEO
80% OF INTERNET TRAFFIC

Source: Cisco VNI Global IP Traffic Forecast, 2017–2022
INTEL AND NETFLIX TO DELIVER AV1 CODEC
NETFLIX

ANNE AARON
DIRECTOR OF ENCODING TECHNOLOGIES
AI OPPORTUNITY

>$25B IN 2024

Source: Amalgamation of analyst data and trend analysis
AI COMPUTE FOR EVERY NEED FROM EDGE TO CLOUD

- CPU | SCALAR
  - Intel Xeon Scalable Processor Family
- GPU | VECTOR
  - Intel Discrete Graphics
- FPGA | SPATIAL
  - Intel FPGA
- ASIC | MATRIX
  - Intel Nervana NNP
  - Intel Movidius Myriad
  - Intel Mobileye EyeQ

$3.5B
2019 INTEL AI REVENUE
Projections based on Intel internal measurements using pre-production hardware/software as of January 2020. All products, computer systems, dates, and figures are preliminary based on current expectations, and are subject to change without notice.

AI COMPUTE FOR EVERY NEED FROM EDGE TO CLOUD

habana
INTEL® XEON® SCALABLE PROCESSORS

2017

1ST GEN
AVX-512
FIRST BUILT-IN AI ACCELERATION

2019

2ND GEN
INTEL® DEEP LEARNING BOOST
FASTEST RAMPING XEON PROCESSOR IN HISTORY

Up to 30X AI performance improvement with Intel® Deep Learning Boost (Intel DL Boost) compared to Intel Xeon Platinum processor (April 2019). See configuration disclosure for details.

No product or component can be absolutely secure. For more complete information about performance and benchmark results, visit www.intel.com/benchmarks.
Up to 14X AI performance improvement with Intel® Deep Learning Boost (Intel DL Boost) compared to Intel Xeon Platinum processor (April 2019). See configuration disclosure for details. Up to 60% performance improvement with Intel® Deep Learning Boost (Intel DL Boost) is a projection based on Intel internal measurements using pre-production hardware/software as of December 2019. All products, computer systems, dates, and figures are preliminary based on current expectations, and are subject to change without notice. No product or component can be absolutely secure. For more complete information about performance and benchmark results, visit www.intel.com/benchmarks.
3D ATHLETE TRACKING

100 METRE

AND OTHER SPRINT EVENTS
INTELLIGENCE TRANSFORMING HUMAN PERFORMANCE
ASHTON EATON
TWO-TIME OLYMPIC DECATHLON GOLD MEDALIST
INTELLIGENCE TRANSFORMING SPORTS EXPERIENCE
JAMES CARWANA
VICE PRESIDENT, INTEL CAPITAL
GENERAL MANAGER, INTEL SPORTS
FAN DEMAND

FREEDOM TO CHOOSE YOUR PERSPECTIVE
SEE ANYTIME, ANYWHERE, ON ANY DEVICE
CREATE AND SHARE PERSONALIZED STORY
IMMERSIVE MEDIA EXPERIENCES THROUGH VOLUMETRIC VIDEO
GOAL

SPEED

3 MIN/FRAME

QUALITY

MEDIUM

COMPUTE LOCATION

IN STADIUM ONLY

2017

GOAL

60 FRAMES/SECOND

HIGH

DISTRIBUTED
INNOVATION THROUGH INTELLIGENCE

GREGORY BRYANT
EXECUTIVE VICE PRESIDENT AND GENERAL MANAGER
CLIENT COMPUTING GROUP
INTELLIGENT PLATFORMS
THAT POWER EVERY PERSON'S
GREATEST CONTRIBUTION
PROJECT ATHENA
A MULTI YEAR INNOVATION PROGRAM
Lightning fast connectivity

Intelligence built into all levels of the platform

Incredible performance and responsiveness

Instant resume

Battery life for the real world

Focus

Always ready

Lightning fast connectivity

Intelligence built into all levels of the platform

Innovative and engaging form factors

Adaptable

Battery life for the real world
~50 New Devices in 2020
ADVANCING PC EXPERIENCES FROM THE INSIDE OUT
EXPANDING CONNECTIVITY

WI-FI  LTE  5G
NEW PROJECT ATHENA
DUAL SCREEN SPECIFICATION
Lenovo

ThinkPad X1 Fold

The world's first foldable PC
* Devices shown are illustrative of concept designs and are not currently available for purchase
A NEW CATEGORY OF FOLDABLES
“HORSESHOE BEND”
ACCELERATING INNOVATION AT THE CPU LEVEL
JASON LEVINE
PRINCIPAL WORLDWIDE EVANGELIST FOR ADOBE
LISA PEARCE
VICE PRESIDENT OF INTEL ARCHITECTURE, GRAPHICS AND SOFTWARE
TIGER LAKE
MOBILITY REDEFINED
WITH NEW 10NM+ CPU CORE ARCHITECTURE

WITH NEW GRAPHICS ARCHITECTURE

WITH NEW INTEGRATED THUNDERBOLT 4

BASED ON INTEL TESTING AND CONFIGURATIONS. FOR MORE COMPLETE INFORMATION ABOUT PERFORMANCE AND BENCHMARK RESULTS, VISIT INTEL.COM/BENCHMARKS.
NEW Xe GRAPHICS ARCHITECTURE
POWERFUL MEDIA AND DISPLAY ENGINES
DG1
DESIGNED FOR POWER OPTIMIZED PLATFORMS
CONTENT CREATION AND GAMING OPTIMIZED
INTEL'S FIRST DISCRETE GPU FOR THE CLIENT
INTEL'S FIRST DISCRETE GPU FOR THE CLIENT

DG1

INTEL'S FIRST DISCRETE GPU FOR THE CLIENT
TIGER LAKE & DG1
COMING 2020