intel
INNOVATION THROUGH INTELLIGENCE

LEGAL DISCLAIMERS

Statements 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 projections, uncertain events or assumptions also identify forward-looking statements. Such statements are based on management's current expectations, 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 October 24, 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 provided here is subject to change without notice. More information on these announcements is available on the Intel newsroom at https://intel.ly/2ER0G5u.

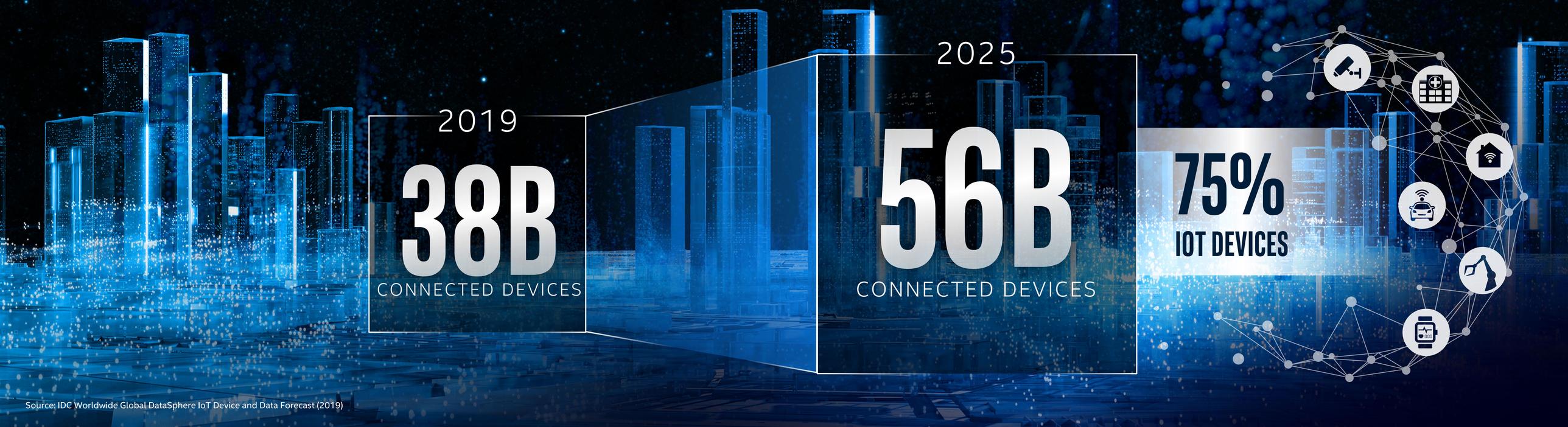
For more complete information about performance and benchmark results, visit www.intel.com/benchmarks.

Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available security updates. See configuration disclosure for details. No product or component can be absolutely secure. Intel technologies may require enabled hardware, software or service activation. Your costs and results may vary.

© Intel Corporation. Intel, the Intel logo, and other Intel marks are trademarks of Intel Corporation or its subsidiaries. Other names and brands may be claimed as the property of others.

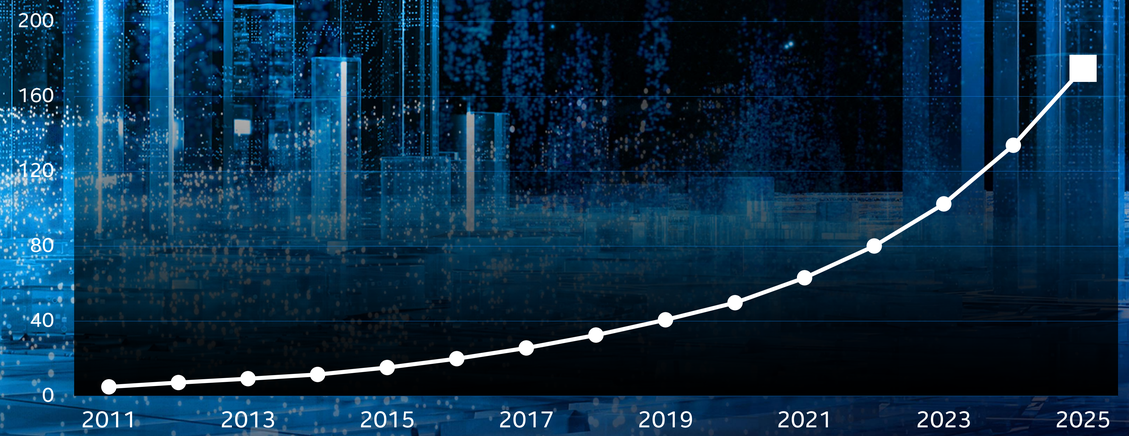
INNOVATION THROUGH INTELLIGENCE
BOB SWAN
CHIEF EXECUTIVE OFFICER

UNLEASHING THE
POTENTIAL OF DATA
5G



Source: IDC Worldwide Global DataSphere IoT Device and Data Forecast (2019)

EXPONENTIAL GROWTH OF DATA



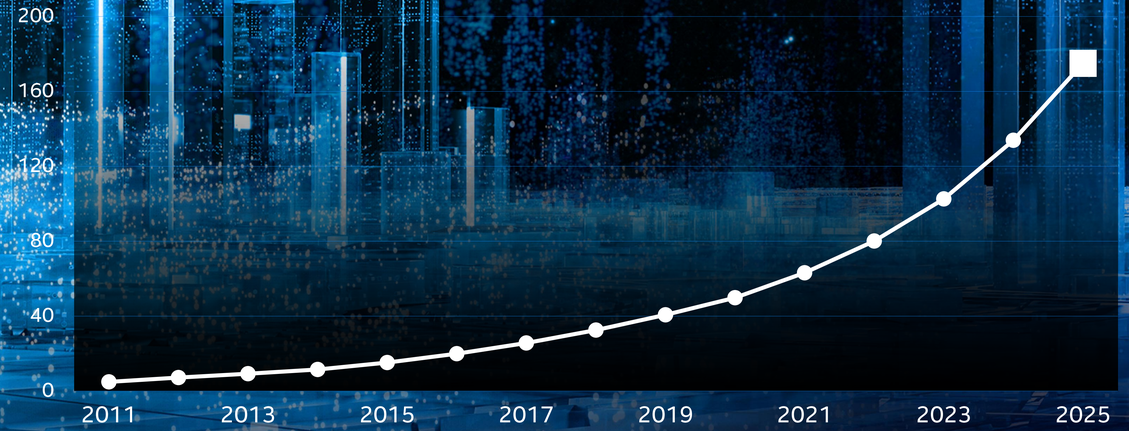
Source: IDC Data Age 2025, sponsored by Seagate (2018)"

2025

175ZB

DATA VOLUME

EXPONENTIAL GROWTH OF DATA



Source: IDC Data Age 2025, sponsored by Seagate (2018) and IDC's Revelations in the Global DataSphere (2019)

2025

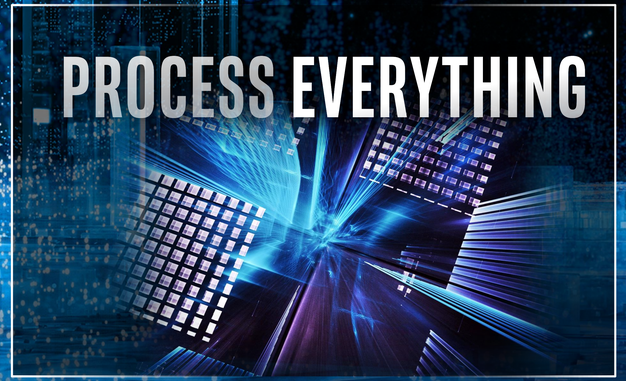
50%

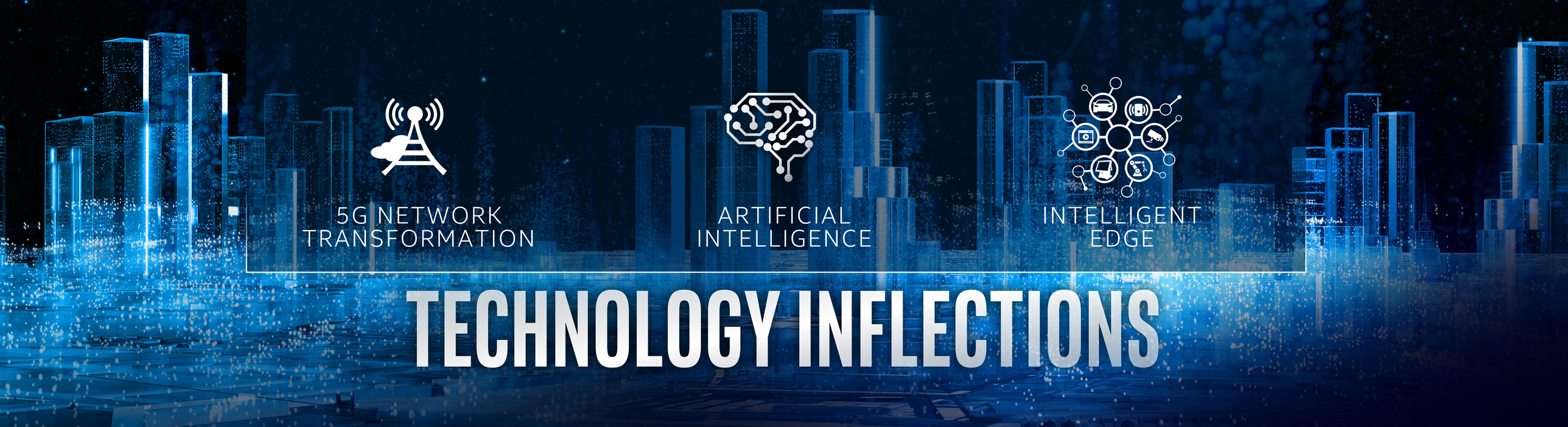
DATA CREATED BY
IOT DEVICES

<1%

PROCESSED BY AI MODELS TODAY

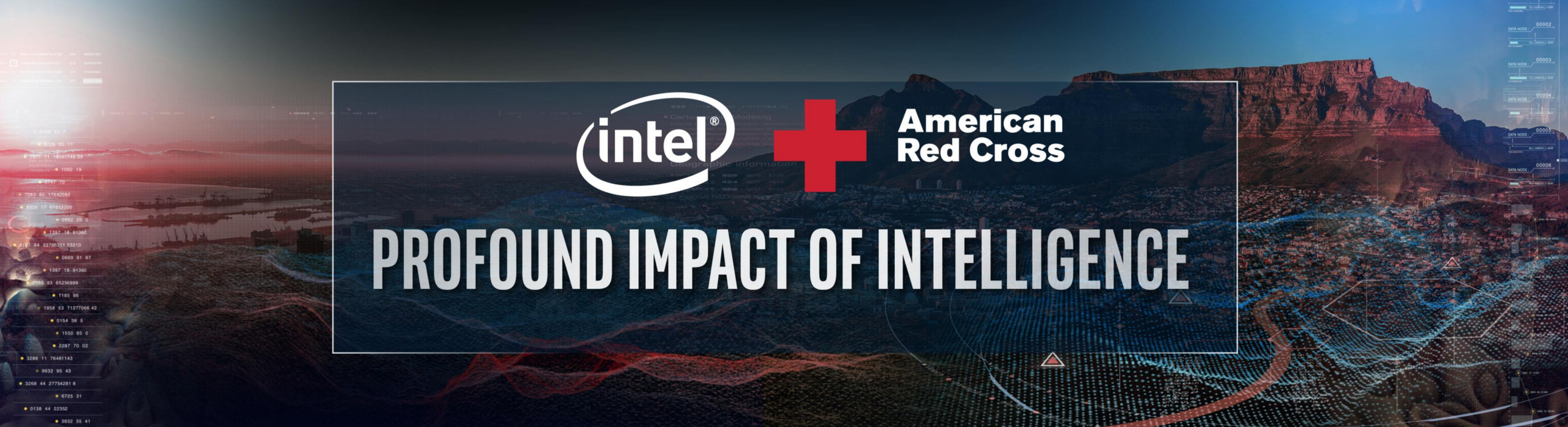
UNLEASHING THE POTENTIAL OF DATA




5G NETWORK TRANSFORMATION
ARTIFICIAL INTELLIGENCE
INTELLIGENT EDGE
TECHNOLOGY INFLECTIONS

intel
intel
intel
EMBEDDING INTELLIGENCE
ACROSS OUR PRODUCT PORTFOLIO

MOBILEYE
An Intel Company
PROFOUND IMPACT OF INTELLIGENCE
WARNING

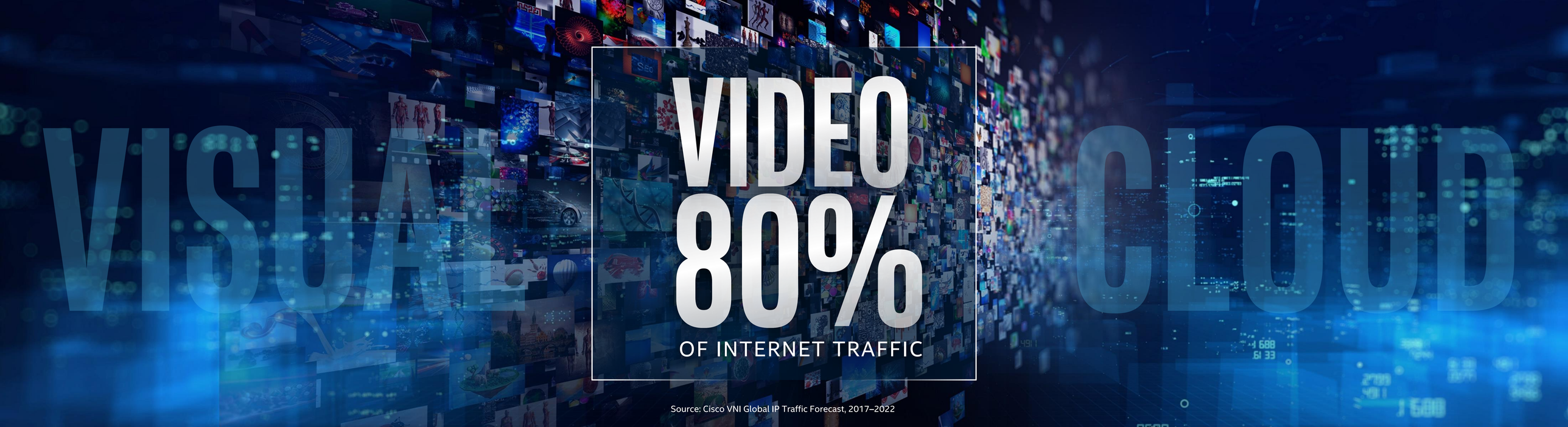

intel
American
Red Cross
PROFOUND IMPACT OF INTELLIGENCE

WORLD-CHANGING TECHNOLOGY
THAT ENRICHES THE LIVES
OF EVERY PERSON ON EARTH
SOCIETY
BUSINESS
PEOPLE

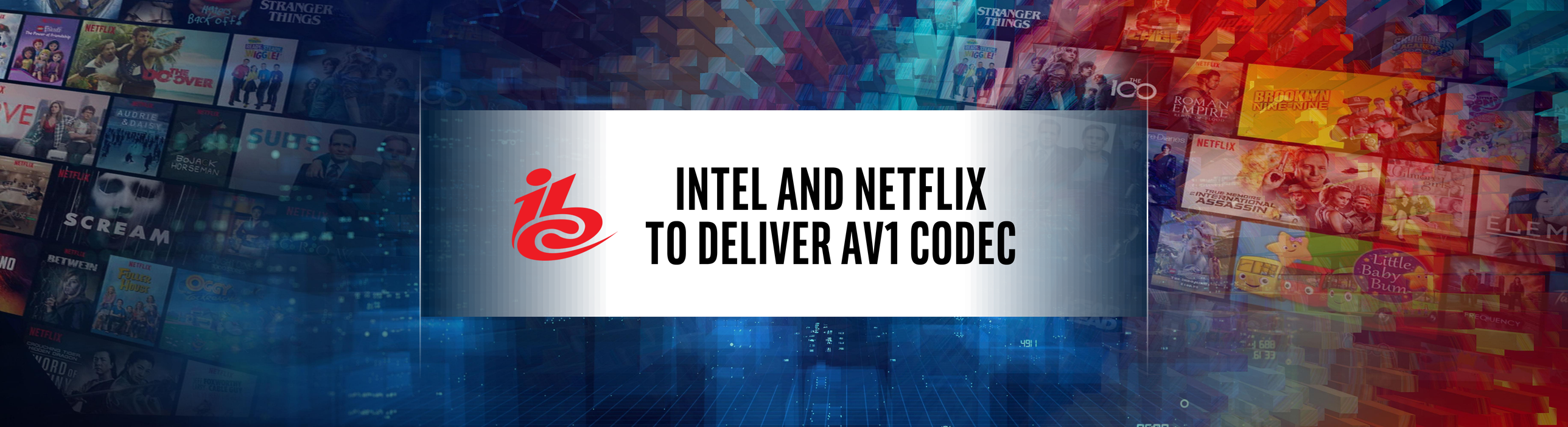
intel
INNOVATION THROUGH INTELLIGENCE
NAVIN SHENOY
EXECUTIVE VICE PRESIDENT AND GENERAL MANAGER
DATA PLATFORMS GROUP

INTELLIGENCE
TRANSFORMING BUSINESS

INTELLIGENCE
TRANSFORMING ENTERTAINMENT
STRANGER THINGS
DAREDEVIL
BROOKLYN NINE-NINE
SUITS
NETFLIX
Little Baby Bum

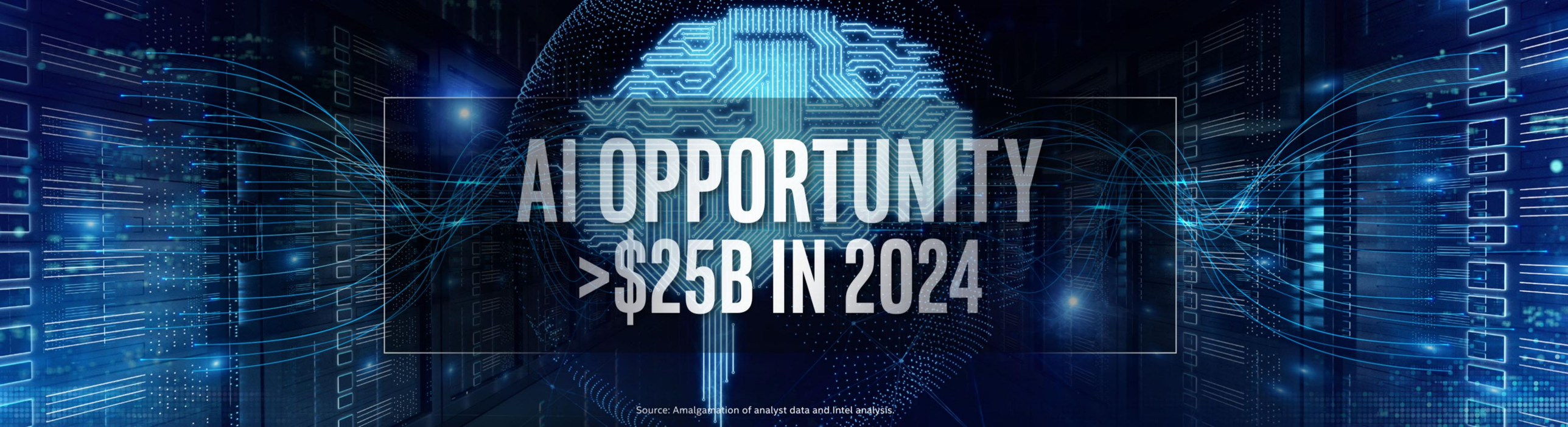


Source: Cisco VNI Global IP Traffic Forecast, 2017–2022


INTEL AND NETFLIX
TO DELIVER AV1 CODEC

NETFLIX
ANNE AARON
DIRECTOR OF ENCODING TECHNOLOGIES

intel
NETFLIX



Source: Amalgamation of analyst data and Intel 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

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

INTEL NERVANA NNP-I
AI INFERENCE PROCESSOR

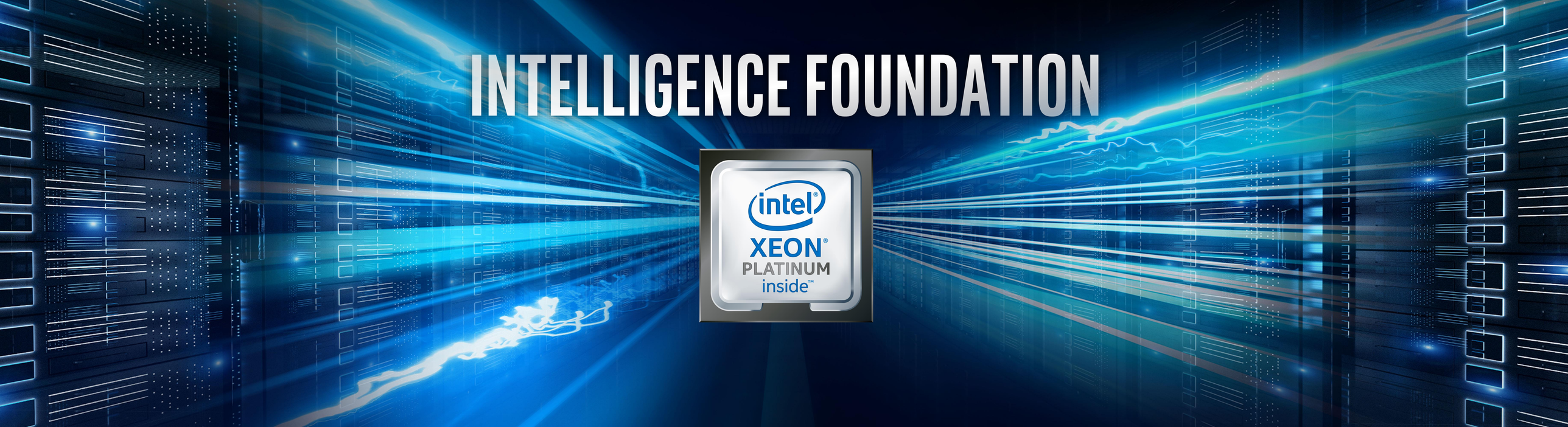
UP TO **3.7X** COMPUTE DENSITY VS NVIDIA T4 SYSTEM

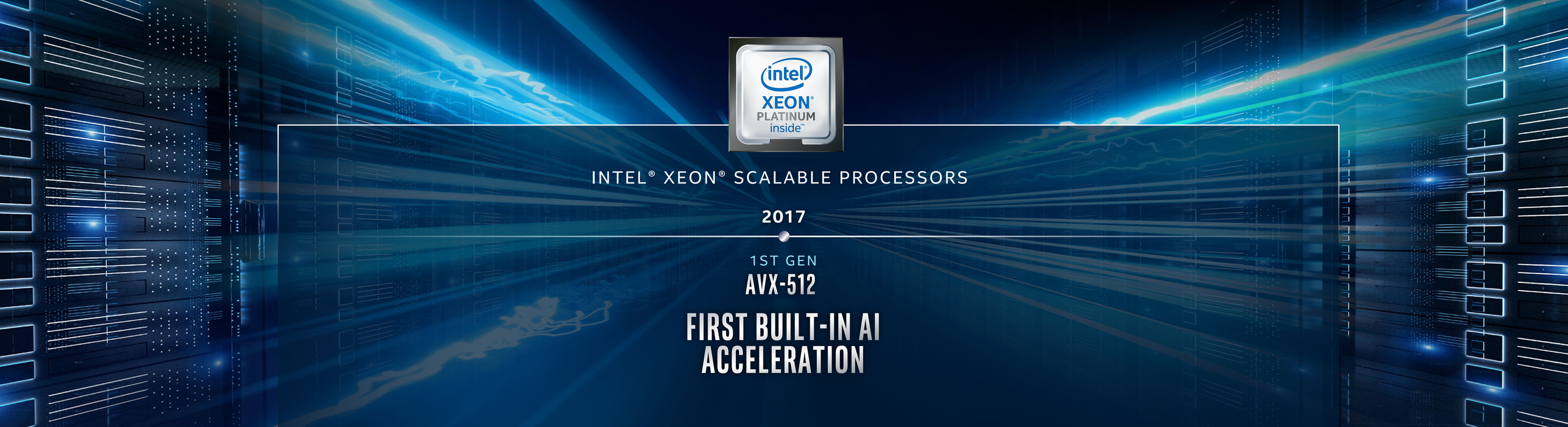
UP TO **1.6X** BERT-BASE THROUGHPUT VS NVIDIA T4

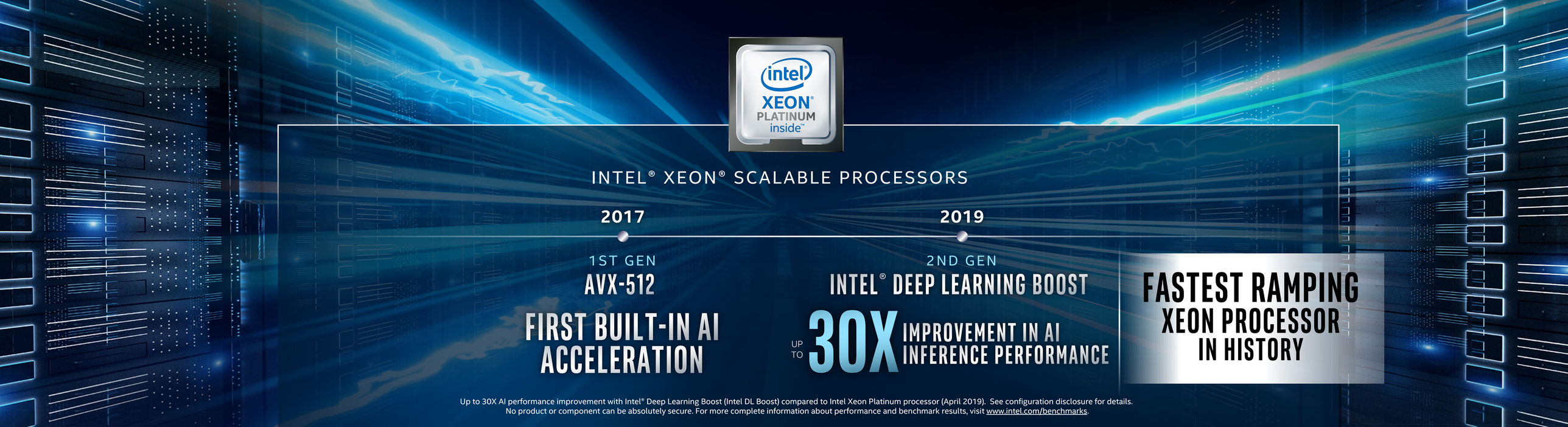
Projections based on Intel internal measurements using pre-production hardware/software as of January 2020. All products, computer systems, dates, and figures are preliminary based on current expectations, and are subject to change without notice. Nvidia T4 measurements: https://developer.nvidia.com/deep-learning-performance-training-inference as of January 5, 2020. Batch size 8 was selected because it depicts Nvidia's best performance for comparison purposes. For more complete information about performance results, visit www.intel.ai/benchmarks.

AI COMPUTE FOR EVERY NEED FROM EDGE TO CLOUD

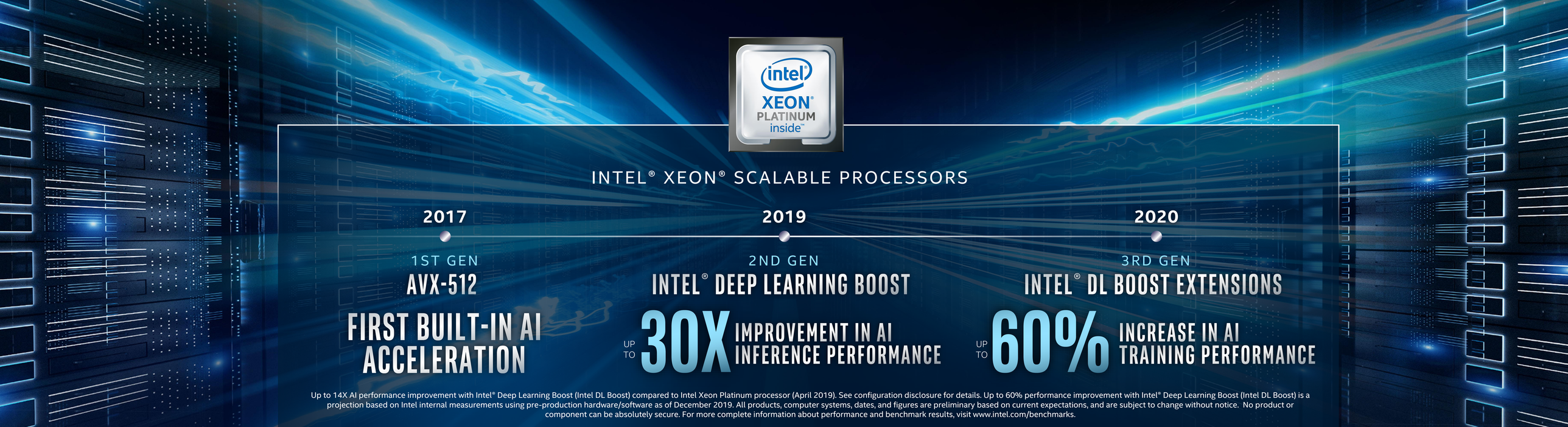
habana


INTELLIGENCE FOUNDATION
intel
XEON®
PLATINUM
inside™


intel
XEON
PLATINUM
inside™
INTEL® XEON® SCALABLE PROCESSORS
2017
1ST GEN
AVX-512
FIRST BUILT-IN AI
ACCELERATION



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.

TOKYO 2020
intel
WORLDWIDE PARTNER

JAN 8 2019
INTEL AND ALIBABA BRING AI-POWERED 3D ATHLETE-TRACKING TECHNOLOGY TO TOKYO OLYMPICS
Forbes
TOKYO 2020
intel
WORLDWIDE PARTNER
JAN 7 2019
INTEL DEVELOPING 3D ATHLETE TRACKING FOR TOKYO 2020 OLYMPICS
c|net

3D ATHLETE TRACKING

100 METRE

AND OTHER SPRINT EVENTS

TOKYO 2020

intel

WORLDWIDE PARTNER

INTELLIGENCE TRANSFORMING
HUMAN PERFORMANCE

ASHTON EATON
TWO-TIME OLYMPIC
DECATHLON GOLD MEDALIST
EATON
USA
73%
42.8947
92%
52.3871
55.2741
DATA_01
BASE_01 - 78 K
U - 09 - A7 - 675 - 8943
28.392
29.093

INTELLIGENCE TRANSFORMING
SPORTS EXPERIENCE

intel Sports
JAMES CARWANA
VICE PRESIDENT, INTEL CAPITAL
GENERAL MANAGER, INTEL SPORTS

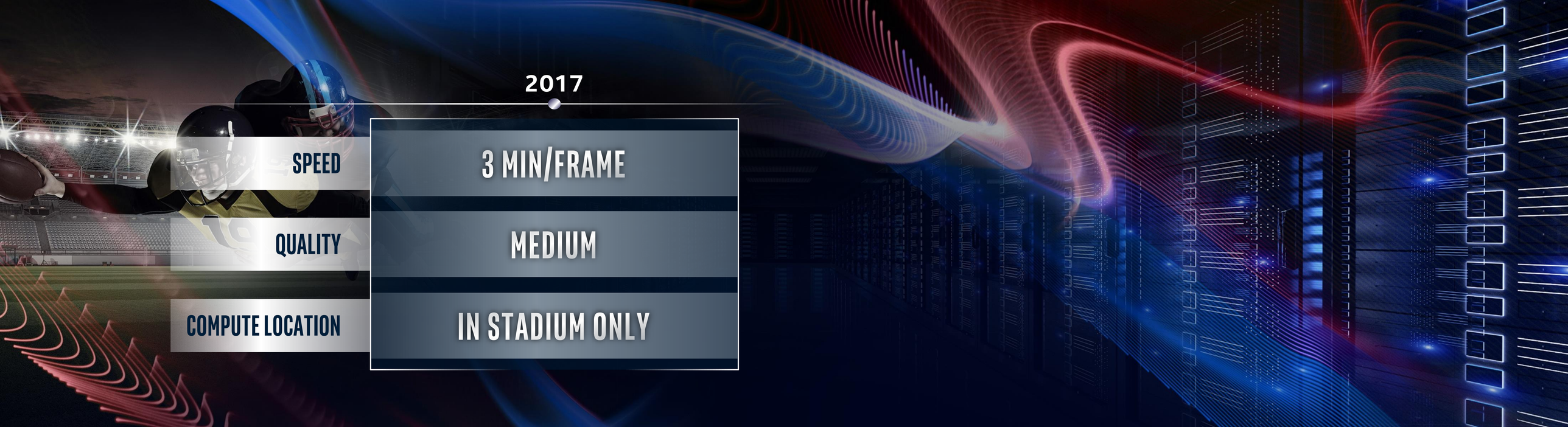
FAN DEMAND

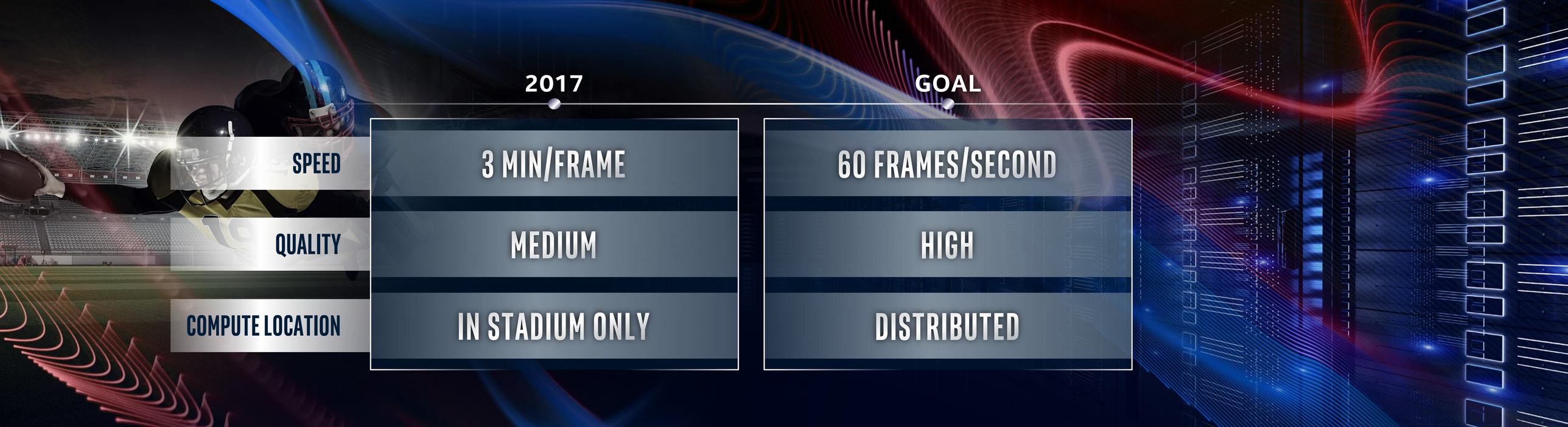
FREEDOM TO CHOOSE YOUR PERSPECTIVE

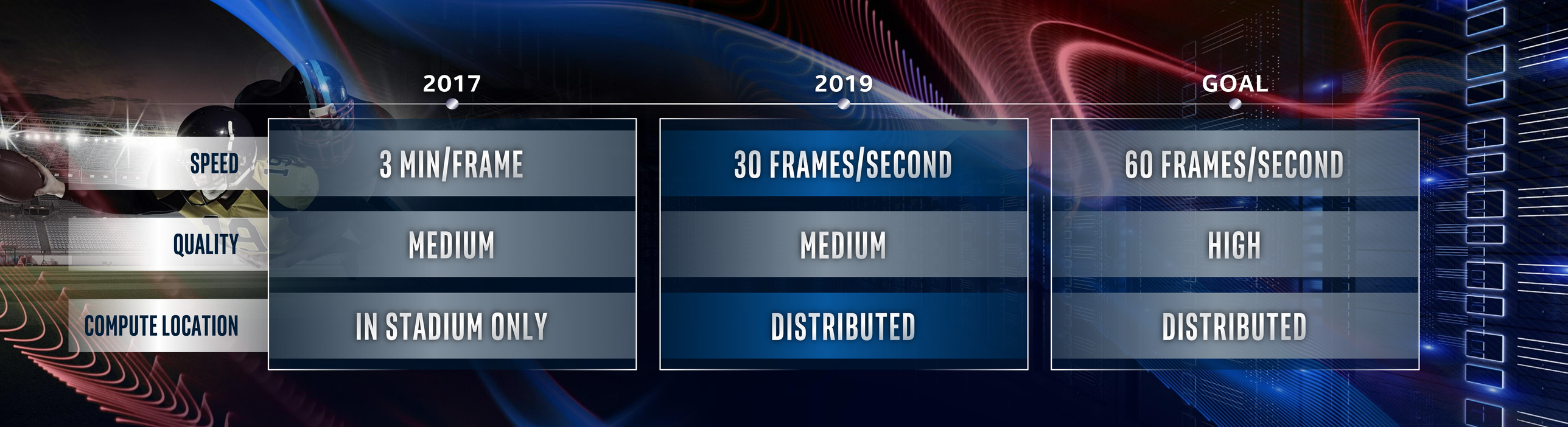
SEE ANYTIME, ANYWHERE, ON ANY DEVICE

CREATE AND SHARE PERSONALIZED STORY

intel TRUE VIEW
IMMERSIVE MEDIA EXPERIENCES
THROUGH VOLUMETRIC VIDEO


2017
SPEED
3 MIN/FRAME
QUALITY
MEDIUM
COMPUTE LOCATION
IN STADIUM ONLY


2017
GOAL
SPEED
3 MIN/FRAME
60 FRAMES/SECOND
QUALITY
MEDIUM
HIGH
COMPUTE LOCATION
IN STADIUM ONLY
DISTRIBUTED


2017
2019
GOAL
SPEED
QUALITY
COMPUTE LOCATION
3 MIN/FRAME
MEDIUM
IN STADIUM ONLY
30 FRAMES/SECOND
MEDIUM
DISTRIBUTED
60 FRAMES/SECOND
HIGH
DISTRIBUTED

intel Sports
NEAR REAL-TIME HIGH QUALITY
STREAMING VOLUMETRIC VIDEO COMING SOON

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

INCREDIBLE PERFORMANCE AND RESPONSIVENESS
INSTANT RESUME
BATTERY LIFE FOR THE REAL WORLD
FOCUS
ALWAYS READY
ADAPTABLE
LIGHTNING FAST CONNECTIVITY
INTELLIGENCE BUILT INTO ALL LEVELS OF THE PLATFORM
INNOVATIVE AND ENGAGING FORM FACTORS

~50
NEW DEVICES IN 2020
acer
aito
ALLION
ami
power • manage • secure
amu
ams.com
analogix
Bring Vision to Life
ASUS
AUO
BOE
BOSCH
Invented for life
CerebrEX
COMPAL
华星光电
CSOT
DELL
DOLBY
EDO
ELAN
emza
visual sense
gcuc
Google
GOODIX
汇顶科技
Himax
hp
HQ
HUAQIN
HUAWEI
infineon
INNOLUX
群創光電
insyde
Inventec
ITE
聯陽半導體
ITE Tech. Inc.
IVO
兆利科技工業股份有限公司
JARLLYTEC CO., LTD.
JON DE TECH
国显科技
中国通材
K&D Technology
KIOXIA
knowles
Lenovo
LISHEN
LG Display
MEMSIC
Microsoft
mirametrix
MiraMEMS
NICHIA
NOVATEK
PEGATRON
phoenix
technologies
PANDA
中国电子熊猫集团
Quanta Computer
QUEST
BORN TO ENGINEER
瑞儀光電
Radiant Opto-Electronics Corporation
REALTEK
ROHM
SEMICONDUCTOR
SAMSUNG
SAMSUNG DISPLAY
sensortek
SHARP
SEMTECH
SK hynix
Synaptics
TEXAS INSTRUMENTS
tobii
TPK
touching tomorrow, today
VISHAY
Visionox 维信诺
wacom
WAVES
Western Digital
wistron

intel Google

PROJECT ATHENA BASED CHROME DESIGNS LAUNCHING TODAY

ADVANCING PC EXPERIENCES
FROM THE INSIDE OUT

EXPANDING CONNECTIVITY
WI-FI
Lte
5G

NEW PROJECT ATHENA
DUAL SCREEN SPECIFICATION

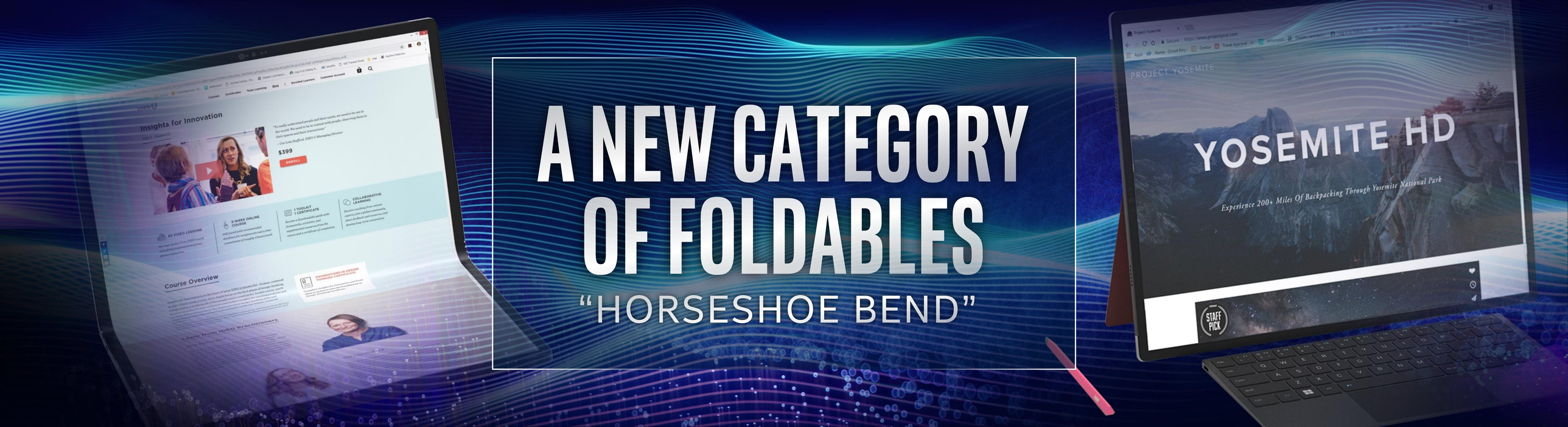
Lenovo
CHRISTIAN TEISMANN
PRESIDENT
COMMERCIAL PC AND SMART DEVICE BUSINESS

Lenovo

ThinkPad X1 FOLD

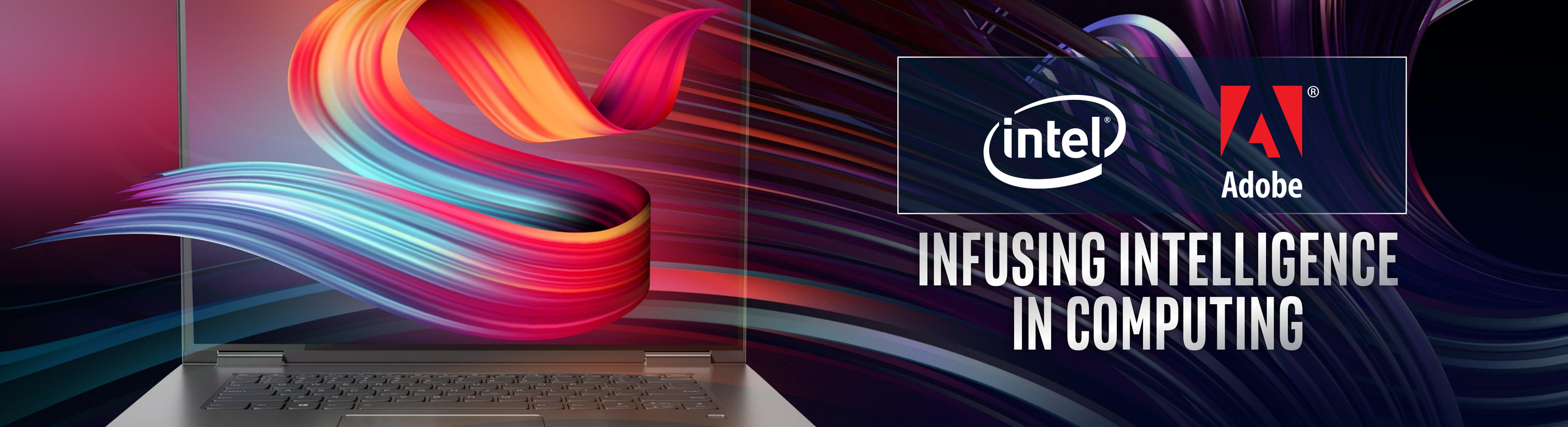
THE WORLD'S FIRST
FOLDABLE PC

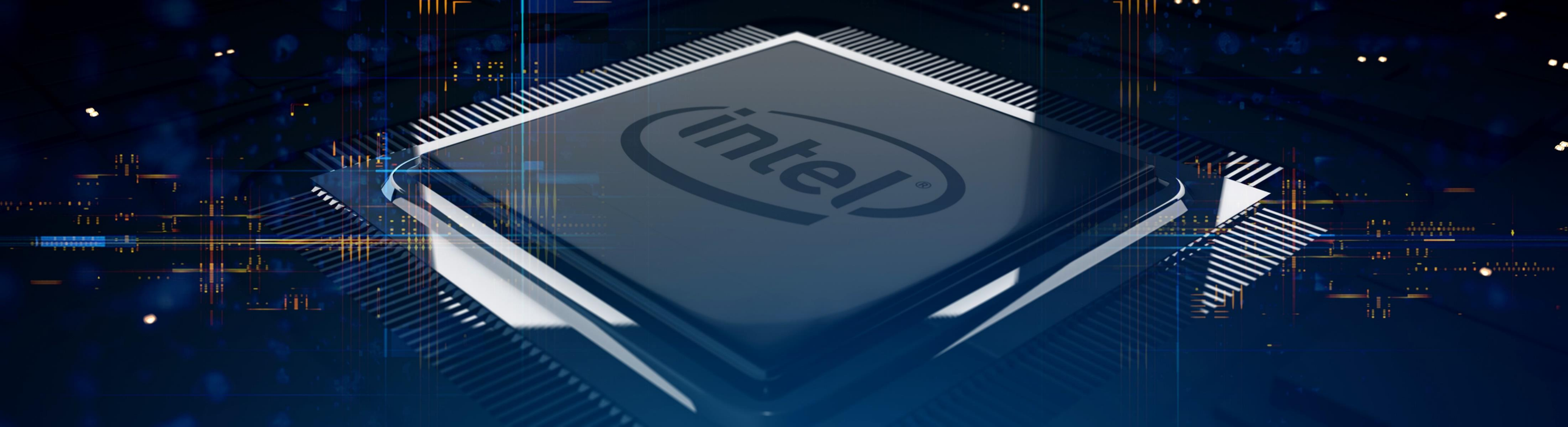
* Devices shown are illustrative of concept designs and are not currently available for purchase


A NEW CATEGORY OF FOLDABLES
“HORSESHOE BEND”
Insights for Innovation
$399
ENROLL
Course Overview
PROJECT YOSEMITE
YOSEMITE HD
Experience 200+ Miles Of Backpacking Through Yosemite National Park
STAFF PICK

ACCELERATING INNOVATION AT THE CPU LEVEL

Adobe
JASON LEVINE
PRINCIPAL WORLDWIDE EVANGELIST FOR ADOBE


intel
Adobe
INFUSING INTELLIGENCE
IN COMPUTING

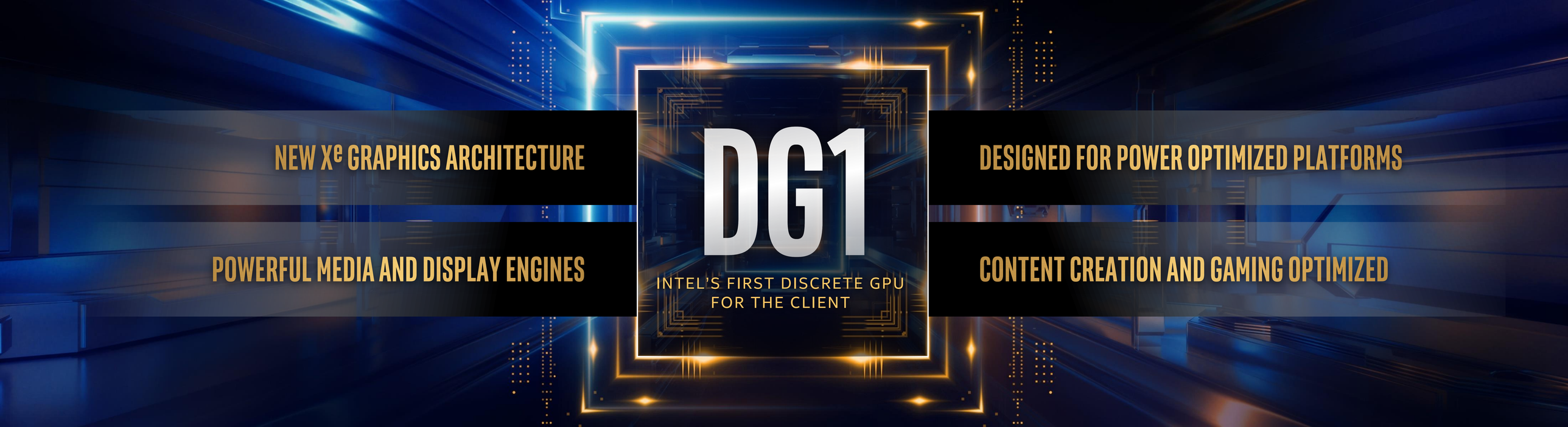

intel

TIGER LAKE
MOBILITY REDEFINED

intel
LISA PEARCE
VICE PRESIDENT OF INTEL ARCHITECTURE, GRAPHICS AND SOFTWARE

TIGER LAKE
MOBILITY REDEFINED

Based on Intel testing and configurations. For more complete information about performance and benchmark results, visit intel.com/benchmarks.


NEW Xe GRAPHICS ARCHITECTURE
DESIGNED FOR POWER OPTIMIZED PLATFORMS
DG1
INTEL'S FIRST DISCRETE GPU
FOR THE CLIENT
POWERFUL MEDIA AND DISPLAY ENGINES
CONTENT CREATION AND GAMING OPTIMIZED

DG1
INTEL'S FIRST DISCRETE GPU
FOR THE CLIENT

TIGER LAKE & DG1
COMING 2020

intel
INNOVATION THROUGH INTELLIGENCE