Forward-Looking Statements

Statements in this press release that refer to future plans and expectations, including with respect to Intel’s manufacturing expansion and investment plans in the European Union (EU), 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,” “on track,” “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 the anticipated benefits of Intel’s planned EU investments, including with respect to meeting future demand and future capacity expansion; anticipated supplier, ecosystem, community, and government support and approval for Intel’s planned EU investments and anticipated benefits related to such support; the proposed transaction between Intel and Tower Semiconductor (Tower), including statements regarding the benefits and the timing of the transaction, as well as statements regarding the companies’ products, customers, and markets; additional future site investments and the timing of such investments; anticipated construction and production timing for Intel’s planned factories; future products and technology and the availability and benefits of such products and technology, including future transistor technology; environmental plans for and benefits from Intel’s factories and technologies, including regarding energy use, water use, and waste; future external foundry business; plans and goals related to Intel’s foundry business; foundry service offerings; market opportunity; 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 the date they were first made and involve risks and uncertainties that could cause our actual results to differ materially from those expressed or implied in our forward-looking statements. Important factors that could cause actual results to differ materially include, among others, Intel’s failure to realize the anticipated benefits of its strategy, plans, and proposed transactions; construction delays or changes in plans due to business, economic, or other factors; increases in capital requirements and changes in capital investment plans; adverse changes in anticipated government incentives and associated approval related to Intel’s planned EU investments; adverse legislative or other government actions; insufficient ecosystem support; the risk that the proposed transaction with Tower may not be completed in a timely manner or at all; uncertainties as to the timing of the consummation of the Tower transaction and the potential failure to satisfy the conditions to the consummation of the transaction, including the receipt of certain governmental and regulatory approvals; demands in Tower customer end markets and for Tower foundry services and/or products that exceed Tower’s capacity; the impact of macroeconomic and geopolitical trends and events; and the factors set forth in Intel’s Securities and Exchange Commission (SEC) filings, including the company’s most recent reports on Forms 10-K and 10-Q, which may be obtained by visiting our Investor Relations website at www.intc.com or the SEC’s website at www.sec.gov. Intel does not undertake, and expressly disclaims any duty, to update any statement made in this press release, whether as a result of new information, new developments or otherwise, except to the extent that disclosure may be required by law.
Pat Gelsinger
CEO, Intel
Building blocks for YOUR Digital Transformation
Globally Interconnected

Industry Evolution
1st smartphone in 1994
by mid 2021 **50%**
of the world’s population
owned a smartphone

Today 62%
by 2030 **90%**
of the world’s population can
access the internet
Driving Systemic Change
Digital transformation powered by semiconductors
Delivering 5G Solutions that can transform lives
Intel’s FlexRAN software

Hundreds Mb/Second of throughput

For workloads and configurations visit www.Intel.com/PerformanceIndex. Click on the Events tab and Vision Event Claims. Results may vary.
Superpowers

- Ubiquitous Compute
- Cloud-to-Edge Infrastructure
- Pervasive Connectivity
- Artificial Intelligence
Everyone and everything is Connected

Pervasive Connectivity
Human/Technology Interaction Point
Across existing devices and emerging form factors
Scale and Capacity of the Cloud through Intelligent Edge
Intelligence Everywhere

Turning infinite data into actionable insight

Artificial Intelligence
Superpowers

Ubiquitous Compute

Cloud-to-Edge Infrastructure

Pervasive Connectivity

Artificial Intelligence
Torrid Pace
Moving rapidly with decisiveness
Transformation is 

Inevitable
Transforming Challenges
into solvable problems

- Supply Chain Disruption
- Impacts of the Pandemic
- Geopolitical Uncertainty
Connecting Ecosystems
helping our customers transform by designing complete platforms and solutions
Unprecedented Demand
For Chips
Michelle Johnston-Holthaus
Executive Vice President, General Manager
Client Computing Group, Intel
Future of Work

Rapid acceleration in technology adoption
PC is the Foundation
Enabling the future of work
Hybrid Environment
Evolution that starts with PC
Strong Demand for Commercial PCs

~140M

Commercial devices more than four years old being used globally

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Healthcare Transformation
Integrating technology to improve delivery of care, not just advance medical research
Technology is at the Forefront of Healthcare

- 80% Telehealth used by physicians
- 2X Growth of remote patient monitoring
- >2X Increase in Videoconferencing Use

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Digital Transformation
Fueling the future of healthcare
Built for Business
Meeting the strict security standards
12th Gen Intel® Core™ HX Processors

World’s Best Mobile Workstation Platform

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Sandra Rivera
Executive Vice President, General Manager Datacenter and AI Group, Intel
>2X increase by 2025
in creation and replication of data

Source: IDC

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Data Center Solutions
Easy to deploy and easy to manage
Transition business applications
Intel-powered servers on the Google Cloud Platform

64%
performance increase running database workloads while lowering licensing costs

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Increases Compute Efficiency

Unveiling IPU Roadmap Extending Through 2026

Co-Developed with Google

400G IPU version by 2024

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Software Unlocks The Value of Hardware

gen-on-gen throughput gain of 53%

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Real-time Optimization Software

up to 60% Performance Improvement
20-30% Cost Reductions

For workloads and configurations visit www.Intel.com/PerformanceIndex. Click on the Events tab and Vision Event Claims. Results may vary.
35% Lower Compute Spend with Granulate

For workloads and configurations visit www.Intel.com/PerformanceIndex. Click on the Events tab and Vision Event Claims. Results may vary.
4th Gen Intel® Xeon™ Scalable Processor

Optimized performance across the fastest-growing workload types

Shipping Initial SKUs Today
4th Gen Intel® Xeon™ Scalable Processor

- AI accelerator
- Crypto Accelerator
- Network Accelerator
- Database Accelerators
>50% enterprise-generated data outside of central data centers by 2025

Gartner, Predicts 2022: The Distributed Enterprise Drives Computing to the Edge, Thomas Bittman, Bob Gill, Tim Zimmerman, Ted Friedman, Neil MacDonald, Karen Brown, 20 October 2021
Every customer is feeling the impact of the Rapid Growth in Edge Computing.
300+
Market ready solutions

45,000
Deployments across 160+ countries
87% of consumers prefer to shop in stores with touchless or self-checkout options.

The future of grocery shopping
The future of grocery shopping

More Efficient & Profitable Stores

The future of grocery shopping
Data Privacy
Confidential Compute

36% respondents have adopted hardware-assisted security solutions.

85% hardware and/or firmware-based security is a high or very high priority in their organization.

64% say it is important for a vendor to offer both hardware- and software-assisted security capabilities.

For workloads and configurations visit www.Intel.com/PerformanceIndex. Click on the Events tab and Vision Event Claims. Results may vary.
Data Privacy
Confidential Compute

10% YoY - $4.2M
average total cost of a data breach to a corporation

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Provide Customers with a Trusted Choice

Protecting the Entire Compute Stack, from the PC to the Data Center
Tim Frasier
Regional President, Cross Domaine Computing Solutions for Bosch Mobility Sector
Keep Data Sets Confidential During Training Process
Confidential Computing Proof-of-Concept System
Dr. Stefan Gehrer, Bosch Research
1:45 p.m. today in the security track
Raja Koduri
Executive Vice President, General Manager, Accelerated Computing Systems and Graphics Group, Intel
Global IP Traffic

in Exabytes / Month

2017 2018 2019 2020 2021 2022

Online Gaming File Sharing Web & Mail Internet Video

>80% video

Visual Cloud Gold Standard
Cloud Gaming
Media Processing & Delivery
Virtual Desktop Infrastructure
Inference
Intel's data center GPU
codenamed

Arctic Sound
Super Flexible Data Center GPU

Cloud Gaming
Media Processing & Delivery
Virtual Desktop Infrastructure
Inference
Arctic Sound M
Open & Full Stack Approach

Media Streaming
- FFmpeg
- Open Source

Virtual Desktop Infra
- Citrix XenApp
- VMware Horizon View

Media AI Analytics
- PyTorch
- OpenVINO
- DL Streamer

Cloud Gaming
- FFmpeg
- Unreal Engine
- Unity

Intel Bridge Technology
- Intel QSV Capture
- Stream SDK

1. oneAPI
   - oneVPL
   - oneDNN
   - cDNN
   - XMPP

OS
- Android
- CentOS
- Debian
- Red Hat Enterprise Linux
- Windows
- KVM
- VMware

Virtualization

4th Gen Intel Xeon Scalable Processor
Previously Codenamed "Sapphire Rapids"

Intel Data Center GPU
Codenamed Arctic Sound
Arctic Sound M
Super Flexible Data Center GPU for Visual Cloud, Media & Inference

<table>
<thead>
<tr>
<th>Function</th>
<th>Video Transcode</th>
<th>Cloud Gaming</th>
<th>Virtual Desktop Infrastructure</th>
<th>Inference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1080p Streams</td>
<td>30+</td>
<td>40+</td>
<td>Up to 62 Virtualized Functions</td>
<td>Up to 150 AI TOPS</td>
</tr>
<tr>
<td>32 Xe Media Engines</td>
<td>Up to 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ray Tracing Units</td>
<td>32</td>
<td></td>
<td>Industry First AV1</td>
<td>XMX</td>
</tr>
<tr>
<td>HW Encode &amp; Decode</td>
<td></td>
<td></td>
<td>AI Acceleration Built in</td>
<td></td>
</tr>
</tbody>
</table>

Maximum Peak Performance

150W

High Density Multipurpose

75W

PCle Gen 4 Cards - Available Q3’22
Metaverse
Plumbing

Intelligence

Software Infrastructure

Compute
project endgame
continual compute for the immersive web
1,000,000,000,000,000,000,000,000,000 FLOPs
Aurora
≥2 Exaflop Supercomputer
oneAPI

Open & Standards-Based

HPC & AI Applications

Low Level Libraries
Languages
Tools

CPU
GPU
Exascale for Everyone

Taking Reservations Now!

For Academic & Industry Usage
Artificial Intelligence
A requirement for businesses in every market segment
Innovate Faster with Open Source and Prebuilt AI

>30 AI Reference Kits

accenture + intel

Project Apollo
AI at the Edge
Making businesses more competitive

OpenVINO™
Optimized for Intel Hardware
Customers Get the AI They Need, on the CPU They Have
Intel’s AI technology
Identifying welding defects in the welding manufacturing process
Multiple AI & 5G Solutions
Autonomy and Reliable Connectivity
Multiple AI & 5G Solutions
Autonomy and Reliable Connectivity
Gaudi
Efficient deep learning training

Up to 40% better price/performance

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Train More & Pay Less

Live training run of a popular computer vision model on a single Gaudi2 processor
GAUDI²

~2X
vs A100 on popular Vision & NLP models

ResNet50 Training Throughput

<table>
<thead>
<tr>
<th>Workload</th>
<th>Throughput</th>
</tr>
</thead>
<tbody>
<tr>
<td>A100-80GB</td>
<td>2,930 Images/Second</td>
</tr>
<tr>
<td>Gaudi 2</td>
<td>5,425 Images/Second</td>
</tr>
</tbody>
</table>

BERT Training Throughput

<table>
<thead>
<tr>
<th>Workload</th>
<th>Throughput</th>
</tr>
</thead>
<tbody>
<tr>
<td>A100-80GB</td>
<td>348 Sequences/Second</td>
</tr>
<tr>
<td>Gaudi 2</td>
<td>685 Sequences/Second</td>
</tr>
</tbody>
</table>

For workloads and configurations visit www.Intel.com/PerformanceIndex. Click on the Events tab and Vision Event Claims. Results may vary.
Accelerating time to train is a Benefit to All Customers
Going beyond just the technologies

Ensuring the Brightest Future
Marcus Kennedy
General Manager, Gaming, Creator and Esports Segment, Intel
ensuring the next generation has the right skills & access
AI Global Impact Festival Winners

Arnav Bawa - 20 years old
Maksymilian Paczynski - 17 years old
Niharika Haridas - 18 years old
Thank you
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