Intel Corporation

Bridging From Commercial Technology to DoD Needs

August 28, 2023

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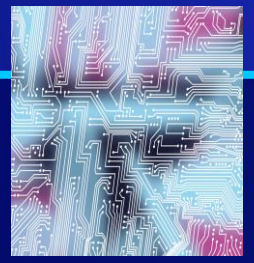
President & General Manager
Intel Federal LLC
Vice President, Intel Corporation

Commercial Technology for Mission Capabilities

RAMP

(2020)

Rapid Assured Microelectronics Prototype Program



Design

Secure design flows in the cloud

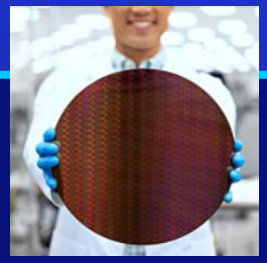
Enables cloud-based chip design and demonstration of Microelectronics Quantitative Assurance.

Microsoft, intel, BAE SYSTEMS, Raytheon Technologies

RAMP-C

(2021)

RAMP - Commercial



Foundry

Domestic foundry technology

Enables leading-edge US Foundry for commercial customers.

Microsoft, IBM, NVIDIA, NORTHROP GRUMMAN, BOEING, cadence, intel, SYNOPSYS

SHIP

(2019)

SOTA Heterogeneous Integrated Packaging Prototype Program

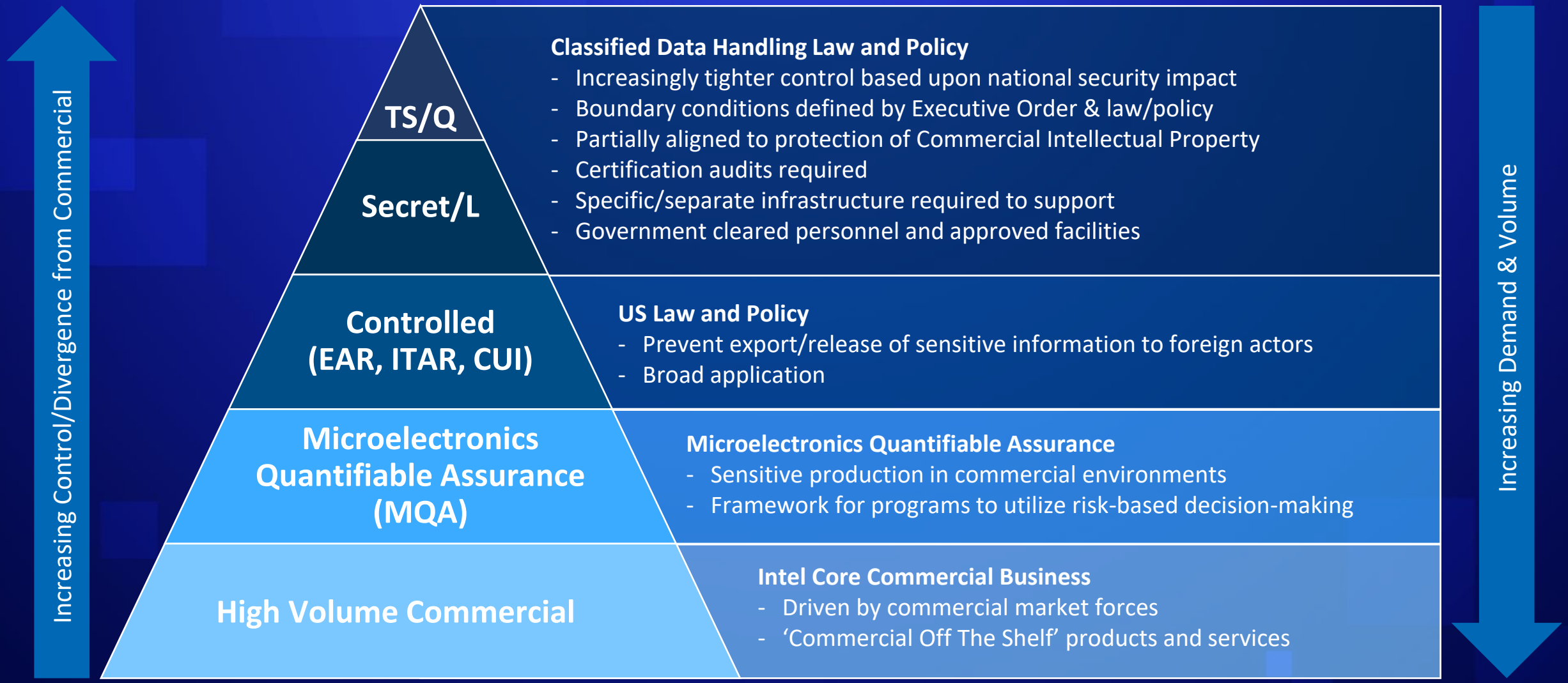
Advanced Packaging

2D and 3D heterogeneous packaging

Enable unclassified SOTA heterogeneously integrated package design and manufacturing for defense-specific packages.

intel, BAE SYSTEMS, Raytheon Technologies, LOCKHEED MARTIN

Government Unique Requirements



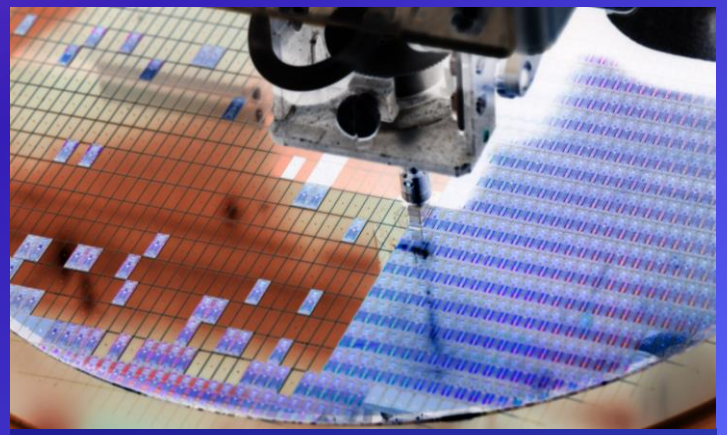
Delivering Leadership Manufacturing: IDM 2.0

Product Leadership, Supply Resilience, Superior Cost

Internal Factory Network

Intel's global, internal factory network for at-scale manufacturing

External Foundries



Expanded use of third-party foundry capacity

Intel Foundry

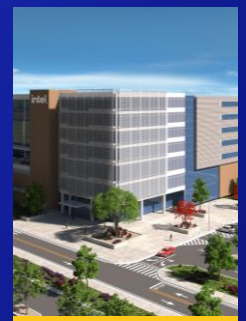
Building a world-class foundry business, Intel Foundry Services

Leveraging Intel's leading-edge packaging & process technology & world-class IP portfolio

US-based Manufacturing Capacity and Software Development

Oregon

Arizona

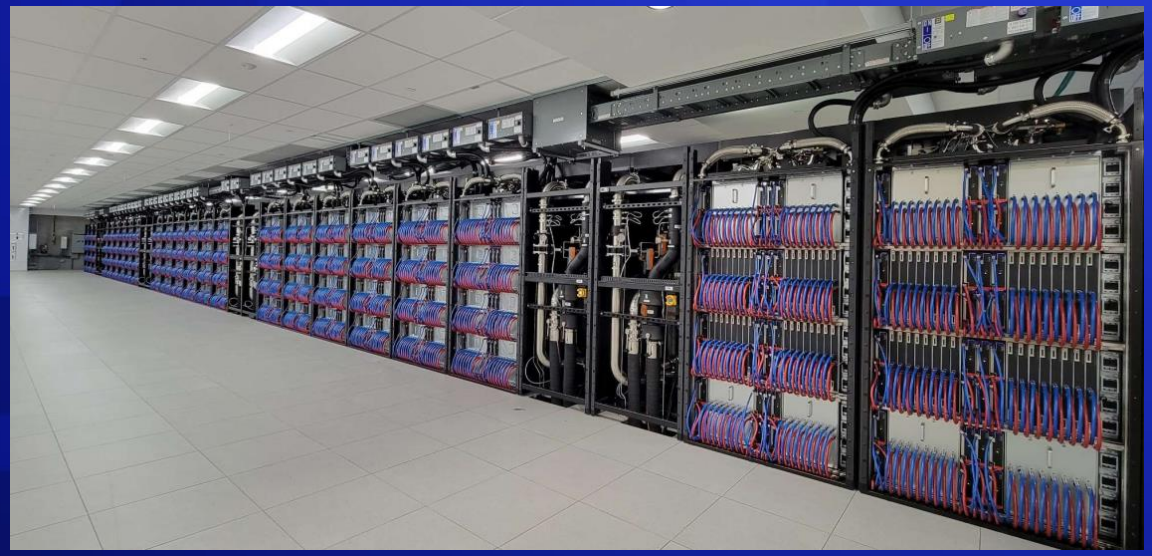


Ohio

New Mexico

Wafer Fabs Future Site

Aurora – Argonne National Labs



Artificial Intelligence

Analytics

HPC Simulation

Researching Our Universe on Aurora Exascale

Research Scientist Jimmy Proudfoot talks about the impact Exascale supercomputing will have on his work researching our universe.

Watch the video

Neuroscience Research on Aurora Exascale

Senior Computer Scientist Nicola Ferrier explains how neuroscience research will process exabytes of data on the Aurora Exascale Supercomputer.

Watch the video

Propelling Aerospace Research on Aurora Exascale

Aerospace Professor Ken Jansen explains how engineers will create faster and more complex models and simulations on Exascale supercomputers.

Watch the video

CANDLE Taps Deep Learning to Identify Effective Cancer Treatments

CANcer Distributed Learning Environment (CANDLE) taps deep learning to explore the biology of cancer, and identify highly effective treatments.

Watch the video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