Intel Labs

The Future Begins Here

Legal Information

This presentation contains the general insights and opinions of Intel Corporation ("Intel"). The information in this presentation is provided for information only and is not to be relied upon for any other purpose than educational. Use at your own risk! Intel makes no representations or warranties regarding the accuracy or completeness of the information in this presentation. Intel accepts no duty to update this presentation based on more current information. Intel is not liable for any damages, direct or indirect, consequential or otherwise, that may arise, directly or indirectly, from the use or misuse of the information in this presentation.

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Learn more at intel.com, or from the OEM or retailer.

No license (express or implied, by estoppel or otherwise) to any intellectual property rights is granted by this document.

Intel®, the Intel® logo, Xeon, and Xeon Phi are trademarks of Intel Corporation in the U.S. and/or other countries.

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

intel® labs

700+
RESEARCHERS

500
PHDS

100+
PRINCIPAL ENGINEERS & FELLOWS

30+
TECHNICAL DISCIPLINES

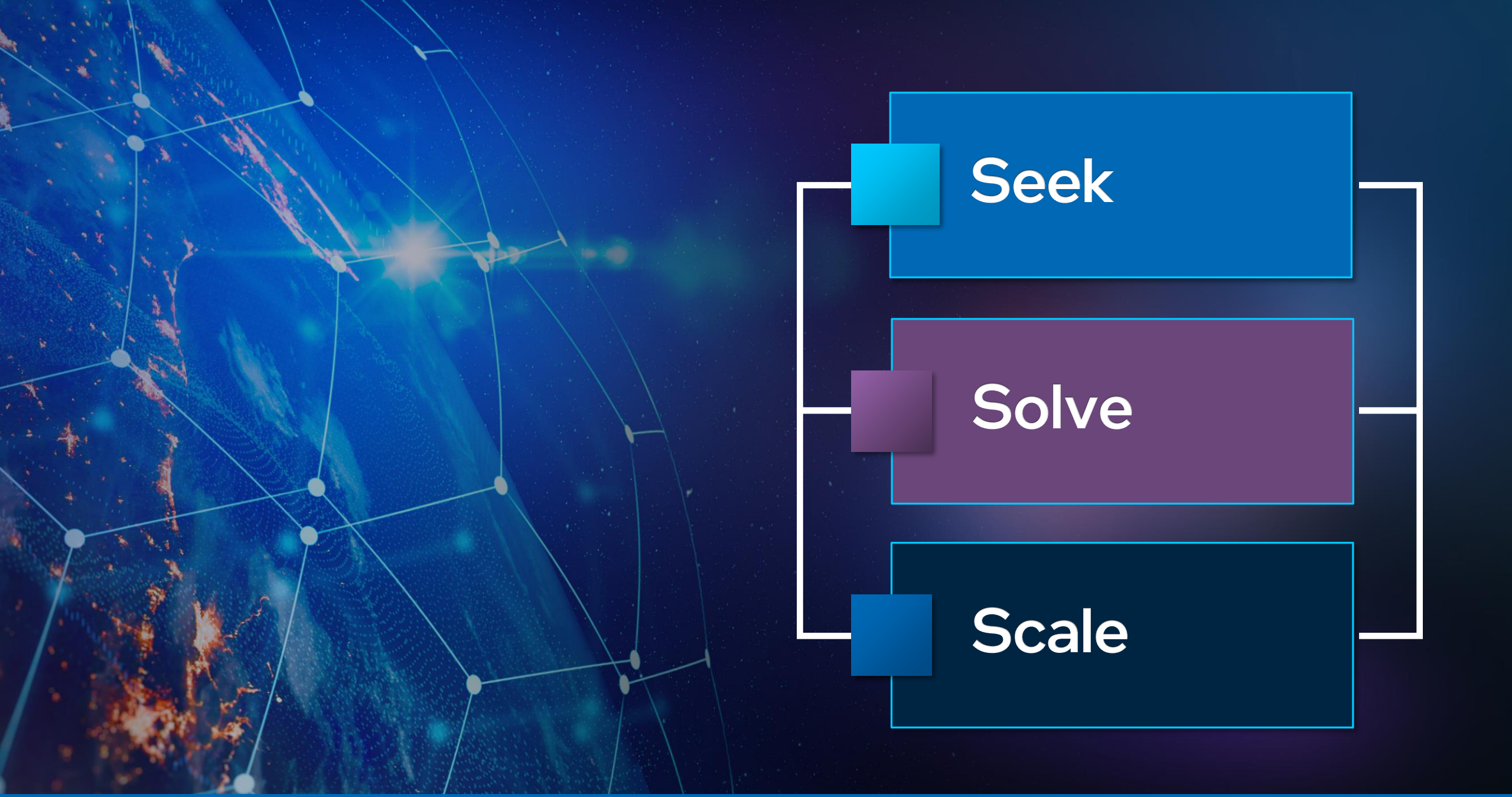
- Neuroscientists
- AI Researchers
- Ethnographers
- Software Architects
- Physicists
- Circuit Technology Researchers
- Computer Scientists





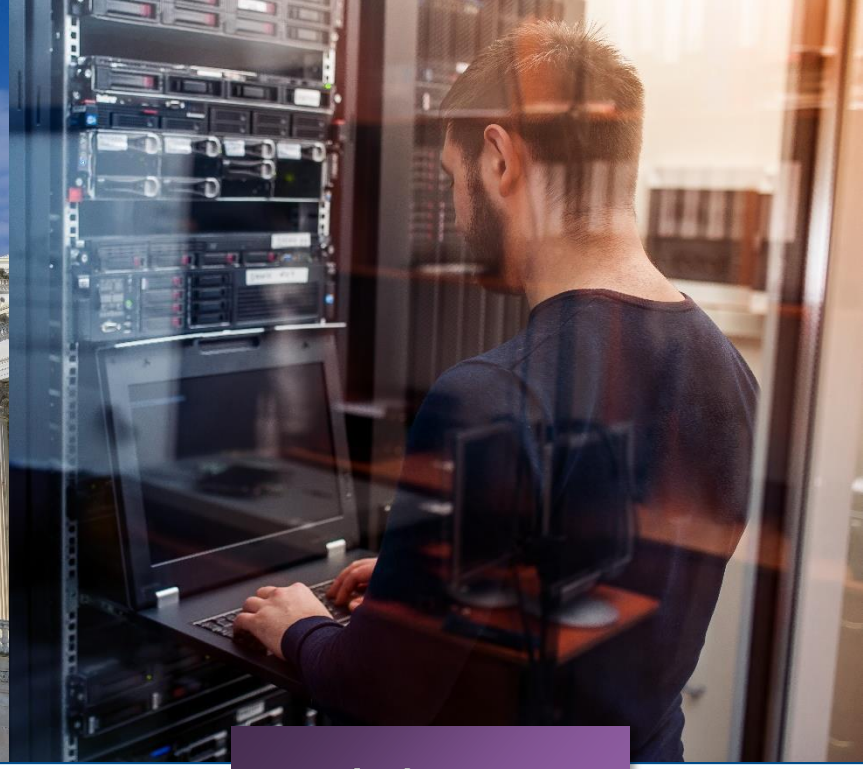

Our passion for research and optimism comes from a simple belief –
that data will have a transformative impact on the future of all humankind

OUR INVENTIONS


Seek
Solve
Scale

Academia

Governments



Industry

We Seek

Working With Leading Academic, Industry And Government Research Institutions

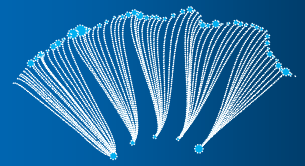
We Seek

2019 Intel Academic Network

~$90M/Year Investment

Trust, Security, & Privacy

Emerging Workloads



Future of Software

Next-gen Connectivity, 5G & Beyond

Advanced Memory & Storage

We Solve

Key Research Focus Areas

New Compute Models

Next Wave of AI

Efficient Design & Programming

Novel Sensing Technologies

We Scale

Investments

Startup Pathfinding Program
With Intel Capital

Intel Business Units

200+

Technology Transfers
In Past 5 Years

Standards Bodies

100+

Contributions
In Past 5 Years

Developers

Open-source Contributions

Research Communities

We Scale

Intel Neuromorphic Research Community

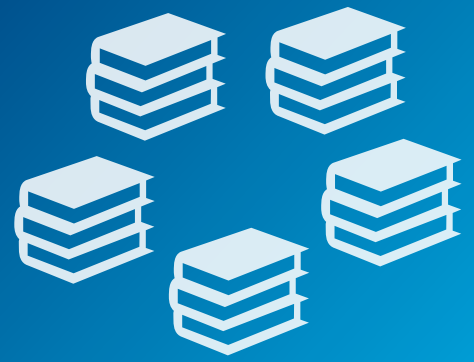
Research Communities

101
Engaged Groups

103
Active Projects

11
Workshops Reaching Over

500
Researchers



48
Publications By Community Members

Intel Labs Workstream

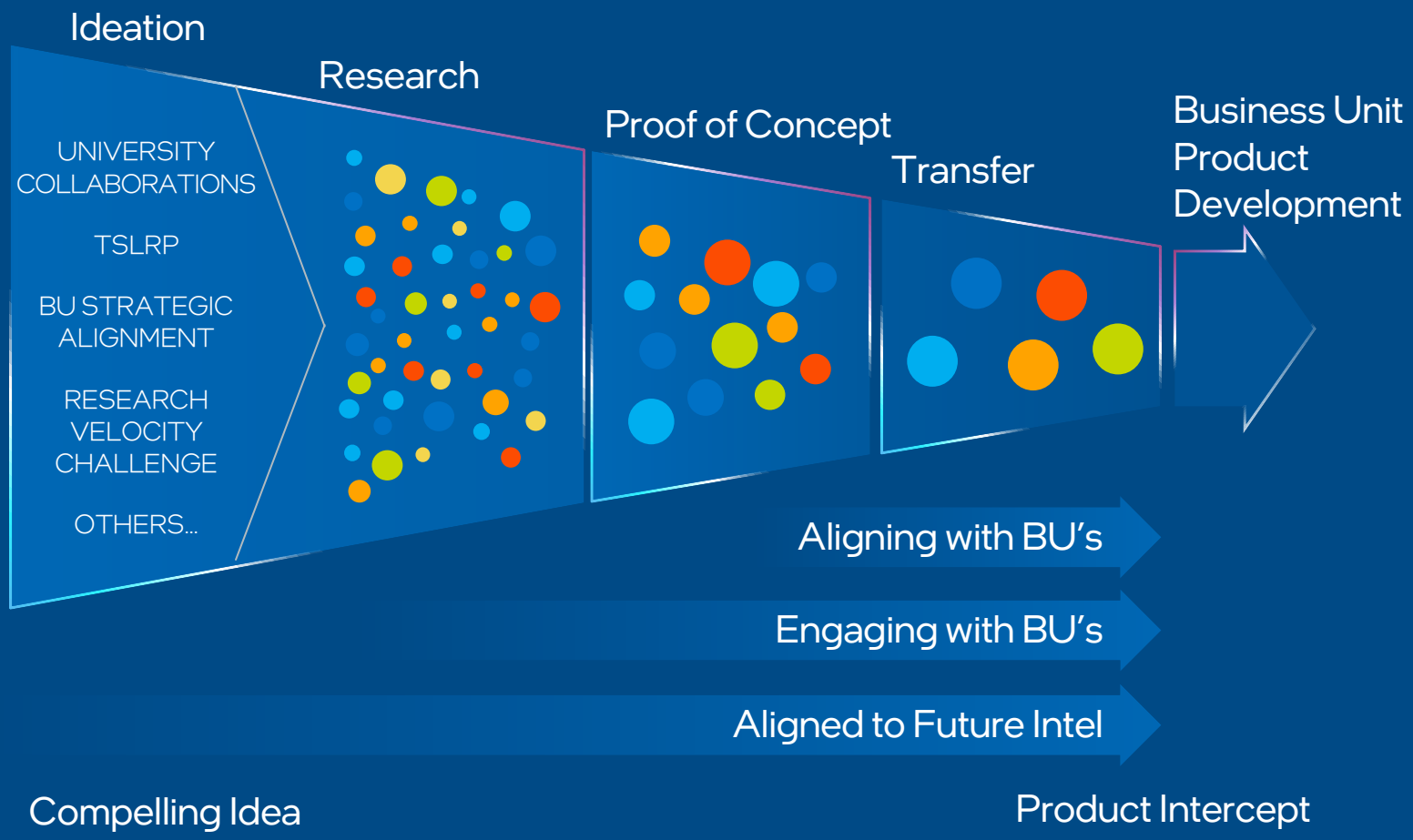
Principles

Ideation & Exploration
Focused Efforts To Develop Research Proposals

Documented Research Plans
Establish Goals and Basis for Milestone Tracking

Alignment With Business Units
Aligned Transfer Plans Ensure Smooth Handoff of Technology From Labs To Product Teams

Business Value Capture Tracking
Tech Transfers, Open Source, Publications, Patents, Standards, ...



Inventors of world-changing Intel technologies

Silicon Photonics

Created The Foundation For Industry's Only Silicon Photonics Solution With On-die Integrated Lasers To Pave The Way For Next-generation Data Centers.

PC Peripherals Connectivity

Developed Industry-leading Platform Innovations For Ease Of Peripherals Connectivity, Including Pcie, USB-C, And Thunderbolt Technologies.

Intel Virtualization Technology

Designed The Industry's First Hardware-assisted Virtualization Of Intel Cpus And Platforms, Now Widely Used Across Cloud Data Centers And Communications Networks.

Accelerating Genomic Research

Collaborated With The Broad Institute To Help Scientists Integrate, Process, And Analyze Next-generation Genomic Sequencing Data.

Keep Hawking Talking

Rebuilt The Assistive Computer System That Enabled Stephen Hawking To Interact With The World And Released It As An Open-source Platform.

Together, we can reimagine how people and data can change our world for the better

Learn more at: intel.com/labs

Follow us at: linkedin.com/company/intel-labs/