
GOOD
Afternoon!

Logistics

Restrooms are down the hall to the left

Quiet Room is S001 and **Prayer Room** is S003

Food cannot be eaten in the auditoriums

No photos, no problem. Grab a **different lanyard**

Wanna watch it again? We are recording

Code of Conduct reports to Jaime, Dori, and Huston (neon green lanyards) or online at:

Openondemand.org/good/#CoC

Evening Plans/Networking

Tuesday - Idea Marketplace

6-8 pm

Posters and sponsor booths

Share thoughts with the GOODLUCK Team

Food and Beverages

Wednesday - Fenway Social

6-9:30 pm

Backstage tour

Ballpark-themed food and beverages

Buses leave from CGIS (here) at 6pm sharp and return starting at 8:45pm

Up Next

Alan Chalker

OPEN OnDemand

A GOOD START

Open OnDemand's Past, Present, and Future

Alan Chalker

Ohio Supercomputer Center | University at Buffalo Center for Computational Research | Texas A&M University | MGHPCC Massachusetts Green High Performance Computing Center | Virginia Tech | University of Colorado Boulder | University of Maryland

This work is supported by the National Science Foundation of the United States under the awards 1534949, 1835725, 2138286, 2303692, and 2411375-7

openondemand.org/goodstart

GOOD TO SEE YOU

Thank GOODness

Conference Committee

Support Staff

Presenters

Ohio Colleagues

Collaborators

Developers

NSF

Attendees

Sponsors

OPEN OnDemand

GOOD Support

GOOD Representation

170 Attendees

(+20 waitlisted)

10 Countries

Australia
Canada
Finland
France
Italy
Malawi
Mexico
Spain
Uganda
United States

All Sectors

Academia
Entrepreneurial
Government
Industry
Non-profit

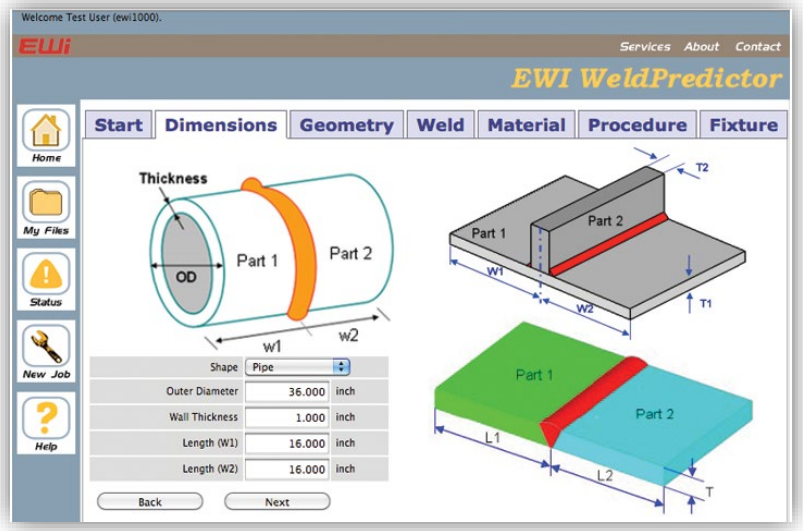
Many Fields

Chemistry
Climatology
Education
Energy
Finance
IT
Manufacturing
Medicine
Social Science

OPEN OnDemand

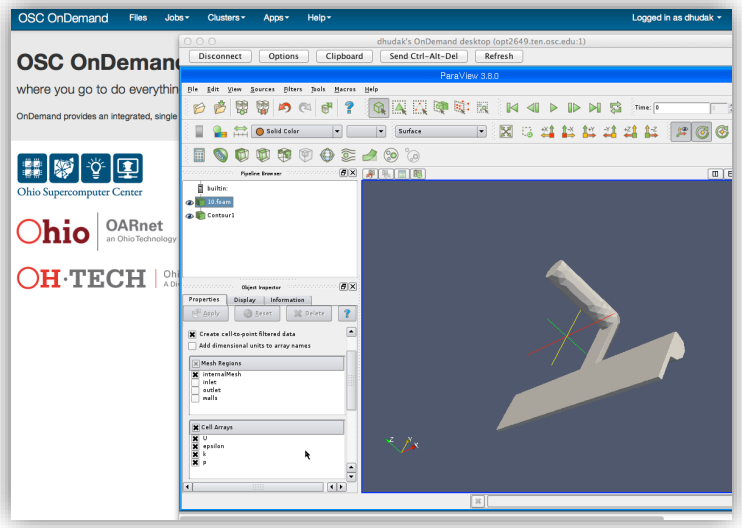
GOOD GRIEF!

GOOD Foundations



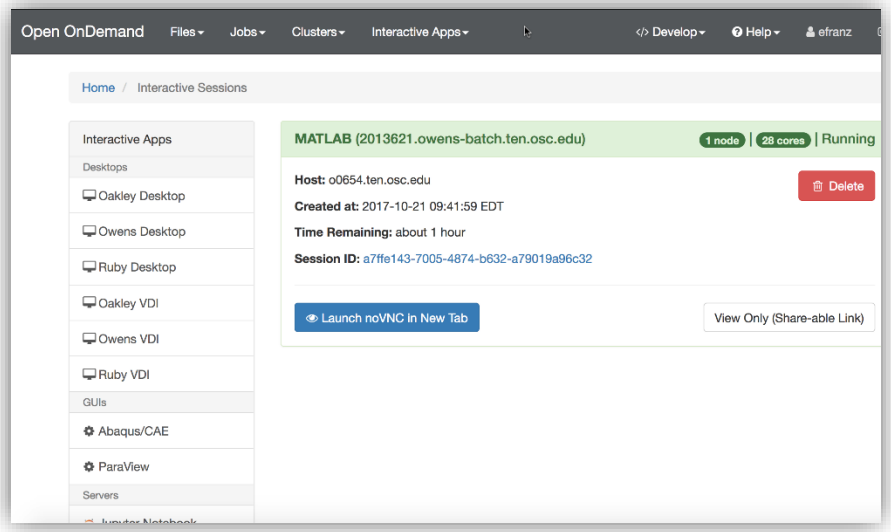
2007

(Weld Predictor)



2013

(OSC OnDemand)



2017

(Open OnDemand)

GOOD Friends

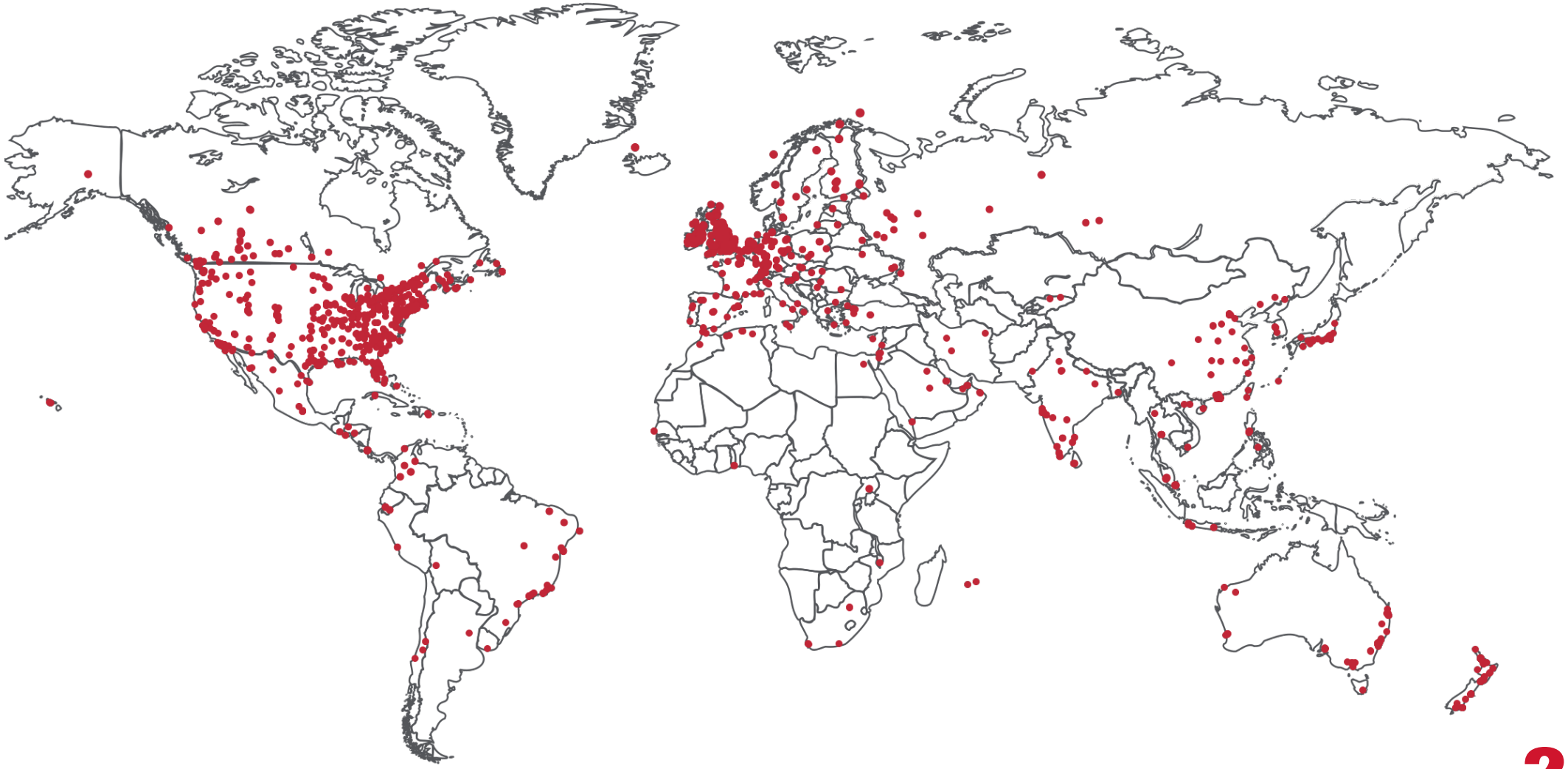
2018

GOOD Friends

2021

GOOD Friends

100+ Countries | 2,100+ Organizations



2024

GOOD News

ACCESS Enhances Bioscience Exploration: Introducing CryoSPARC on Anvil's HPC Resources

October 9, 2023

Oct. 9, 2023 — In the last couple of years, you may have seen some extremely detailed models of microscopically tiny things. Read more…

LUMI Supercomputer Sheds Light on Quantum Mechanics, Solar Subsurface Physics, and More

June 23, 2023

June 23, 2023 — The European scientific community has been able to utilize LUMI, Europe's fastest supercomputer, in full scale since December last year. Read more…

Deploying Open OnDemand with AWS ParallelCluster

February 21, 2023

Open OnDemand is an open-source High Performance Compute (HPC) portal that provides an easy way for system administrators to provide web-based access to HPC resources. Read more…

By Amazon Web Services

Accelerating Scientific Discovery at the University of Melbourne

January 16, 2023

4,500 researchers with ~1,500 different projects leverage HPC at the University of Melbourne, translating discovery into meaningful, practical impact to benefit all of us. Read more…

Sharing the wealth of HPC-driven apps with flexible as-a-service models

October 4, 2021

Growing numbers of IT shops are delivering high performance computing systems and the applications they support as on-demand services accessed via cloud connections. Read more…

HPC Open Source Web Portals now Offered to Enterprise by Nor-Tech

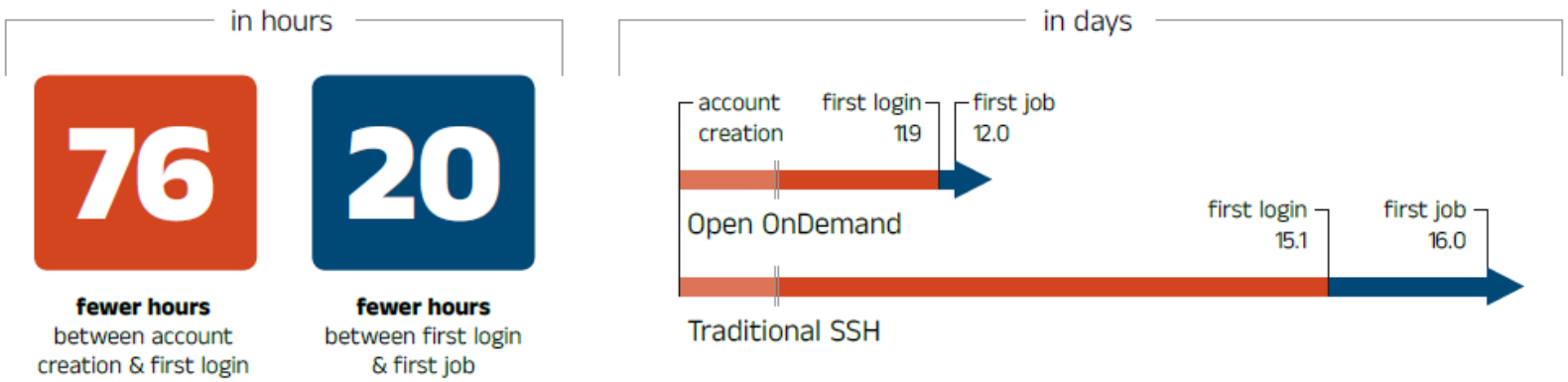
December 12, 2019

MINNEAPOLIS, Dec. 12, 2019 — Nor-Tech, experts on complete Open Source HPC technology solutions, just announced the first two enterprise deployments of Open OnDemand, which enables even those without HPC expertise to take advantage of the significant cost-savings of open source.

Read more…

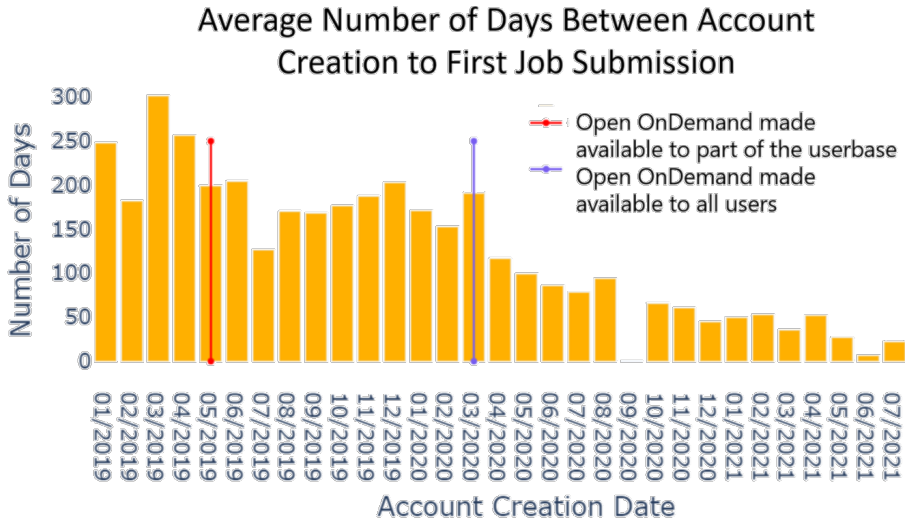
GOOD Time

Faster time to science Using OnDemand vs. traditional SSH access*



2017

19x faster time to science*



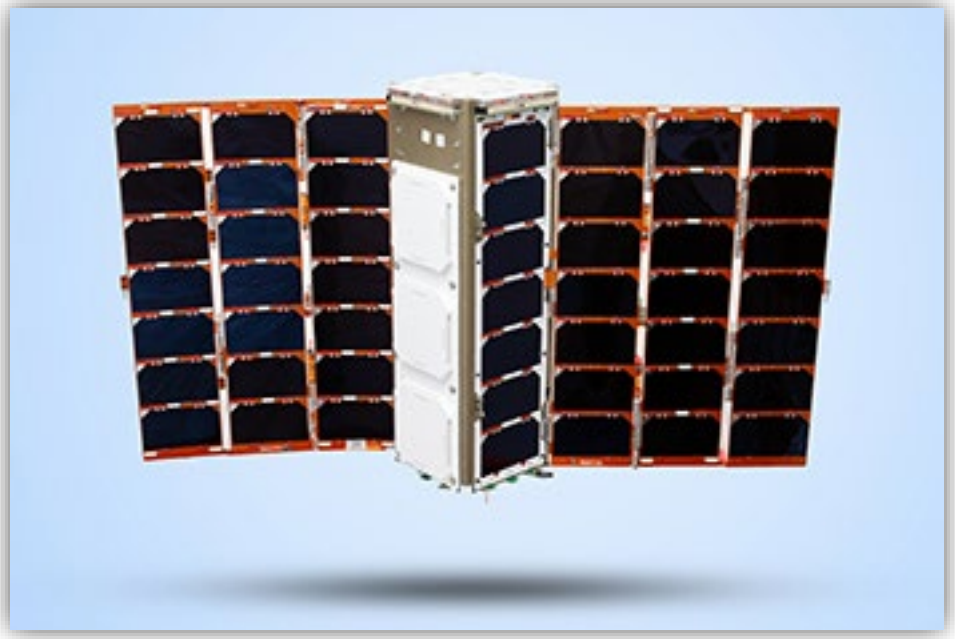
2021

GOOD Results (Fast to Slow)

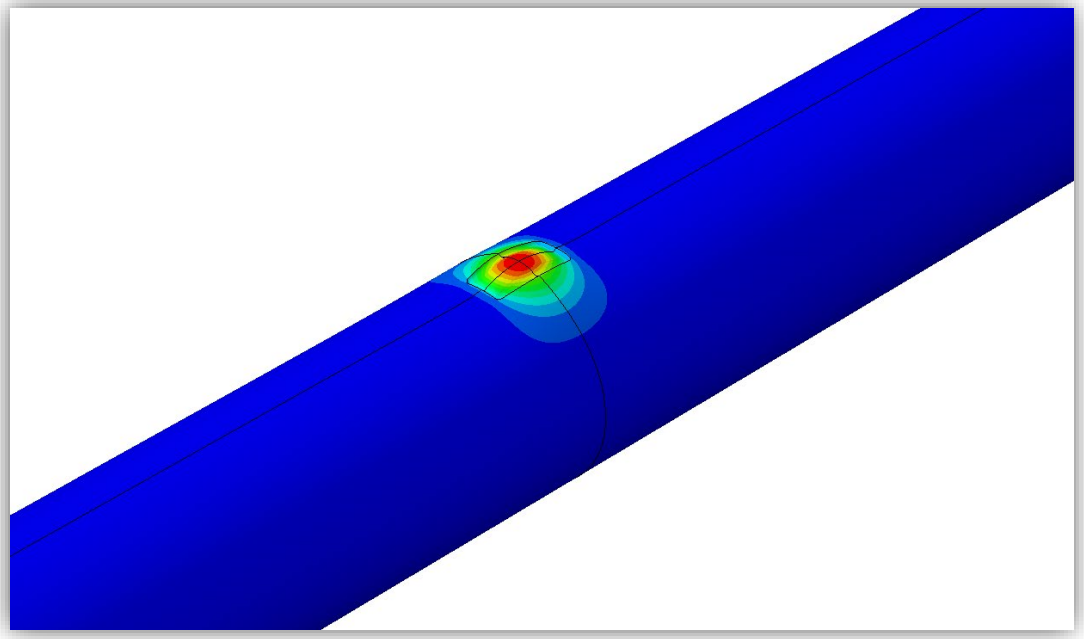
Racing

Farming

GOOD Results (High to Low)

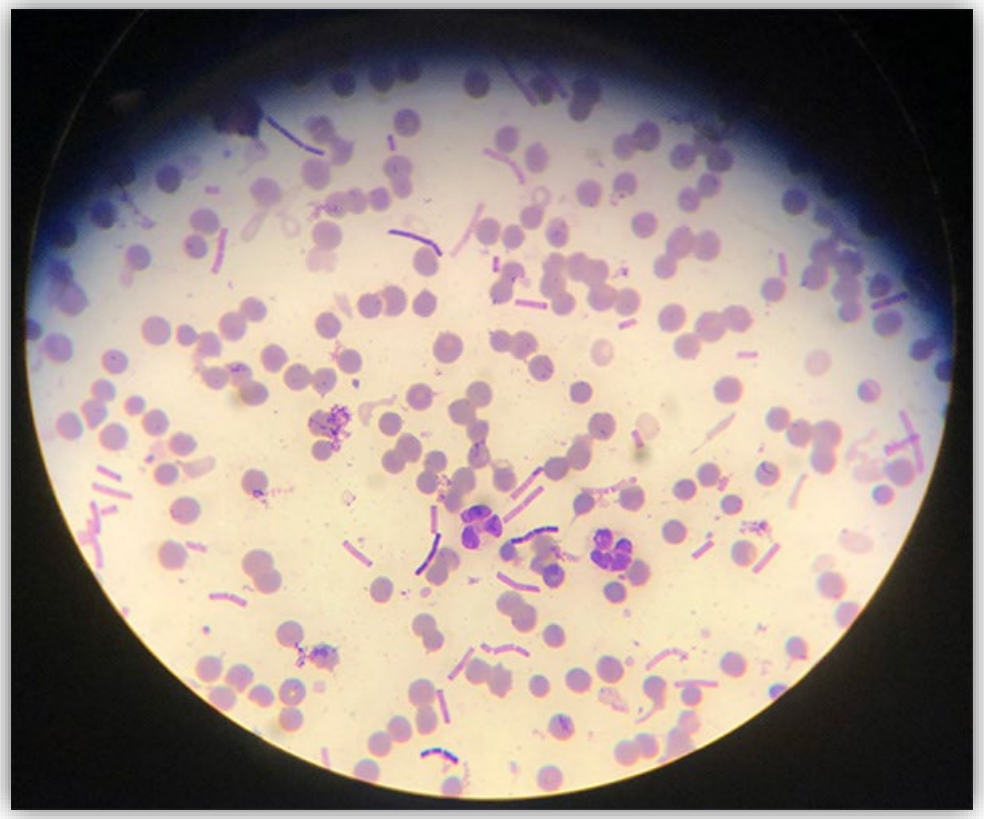


Satellites



Pipelines

GOOD Results (A to Z)



Anthrax

Zebras

GOOD Results (Old to New)

Astrophysics

Gen AI

GOOD Timing

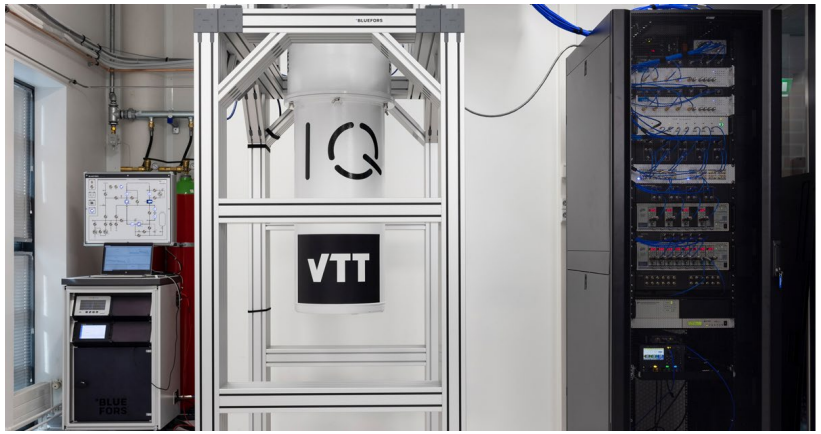
NAIRR Pilot National Artificial Intelligence Research Resource Pilot

- Indiana Jetstream2 GPU
- NCSA Delta GPU
- NCSA DeltaAI
- PSC Bridges-2 Extreme Memory (PSC Bridges-2 EM)
- PSC Bridges-2 GPU (PSC Bridges-2 GPU)
- PSC Bridges-2 Regular Memory (PSC Bridges-2 RM)
- Purdue Anvil AI
- Purdue Anvil CPU
- Purdue Anvil GPU
- SDSC Expanse CPU
- SDSC Expanse GPU
- PSC Neocortex CS-2
- SDSC Voyager (Habana Training and Inference Processor based AI System)
- TAMU ACES
- Amazon Web Services
- Cerebras Wafer-Scale Engine 2 (CS-2) AI Accelerator
- DOE Argonne National Laboratory AI Testbed
- Google Cloud Platform
- Groq LPU Inference Engine
- Microsoft Azure
- NVIDIA DGX Cloud
- SambaNova Cloud (API Services for Llama, DeepSeek, Tulu, Qwen, etc.)
- SambaNova Suite (LLMOps platform, fine-tuning, inference and app dev kits)
- TACC Frontera
- TACC Frontera GPU
- TACC Lonestar6
- TACC Lonestar6-GPU
- TACC Vista (NVIDIA GH100 Grace Hopper Superchip)

GOOD Plans (Hardware)

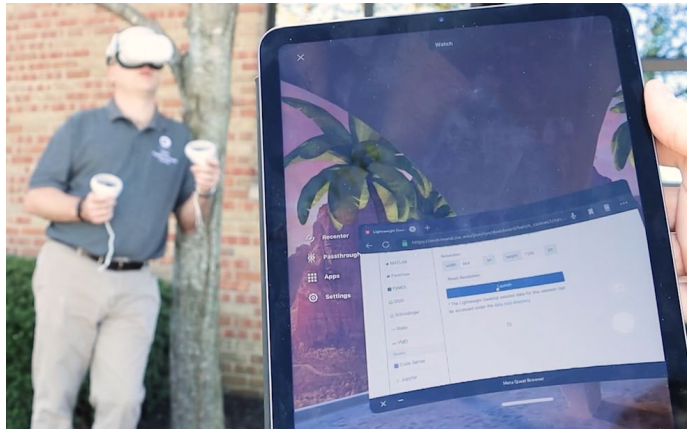
Instruments

(e.g. CryoEM)



Computers

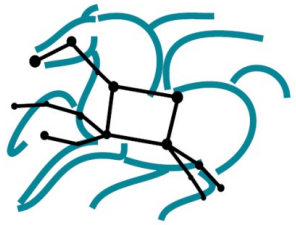
(e.g quantum)

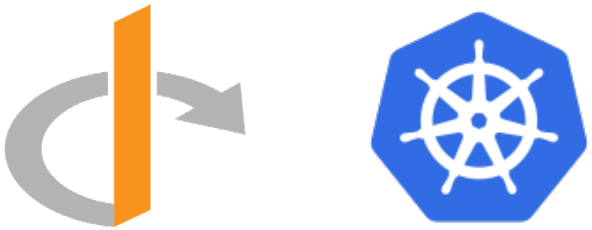


Interfaces

(e.g VR)

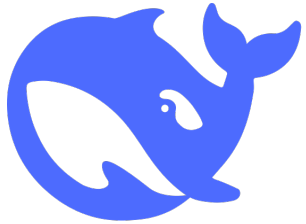
GOOD Plans (Software)





Integration

(e.g. Federation)



Applications

(e.g LLMs)

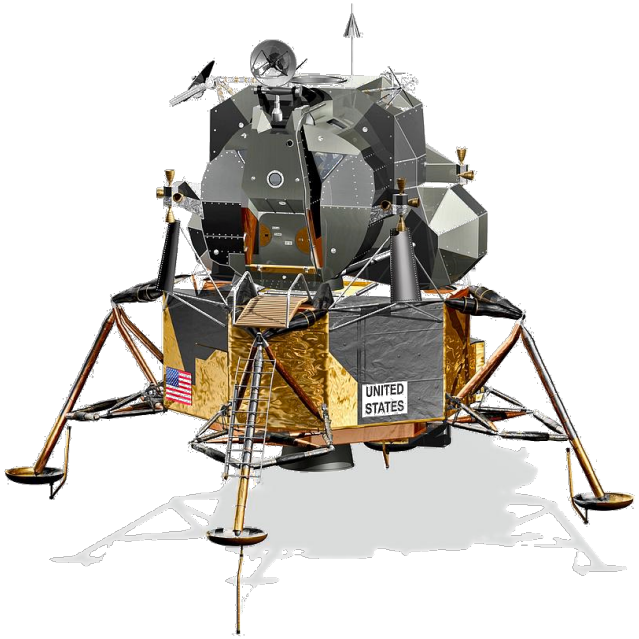
Discoverability

(e.g App Store)

GOOD Perspective

What is a Supercomputer?

$20	Cost	$200,000,000
8 KB	Memory	4 KB
128 KB	Storage	72 KB
50,000 KFLOPS	Speed	80 KFLOPS



2020 Smartphone Charger

1970 Apollo Lunar Module

OPEN OnDemand

Connecting Computing Power with Powerful Minds

for the GOOD of everyone!