

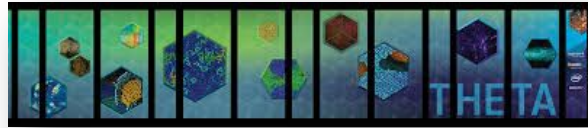
# Introduction to the Oak Ridge Leadership Computing Facility (OLCF)

ORNL is managed by UT-Battelle LLC for the US Department of Energy



U.S. DEPARTMENT OF  
**ENERGY**

# We are one of the DOE's Office of Science computation user facilities



- DOE is leader in open high-performance computing
- Provide the world's most powerful computational tools for open science
- Access is free to researchers who publish
- Boost US competitiveness
- Attract the best and brightest researchers



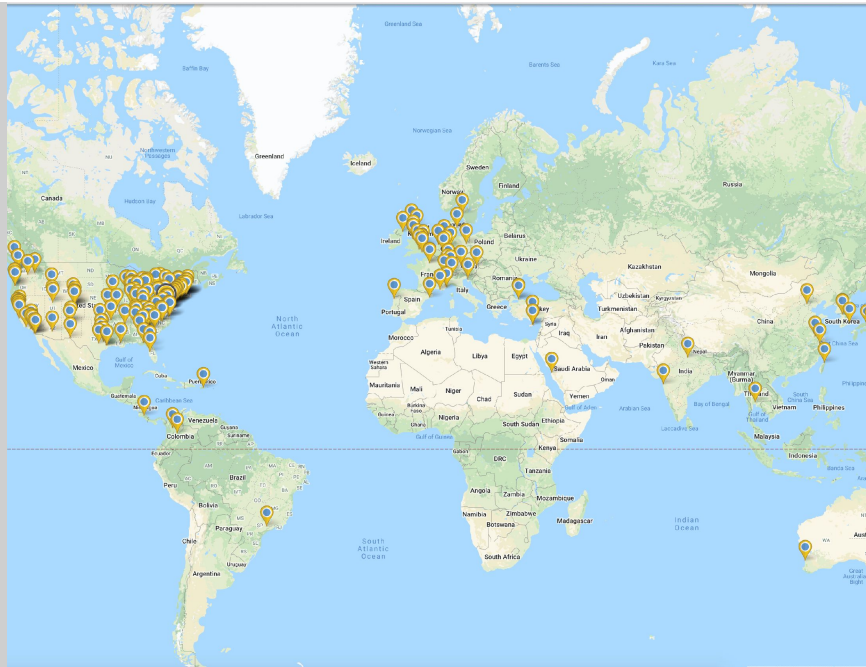
# What is a Leadership Computing Facility (LCF)?

- Collaborative, multi-lab DOE initiative (2 centers / 2 architectures)
- Mission: Provide an ecosystem that enables capability computing opportunities to solve the most challenging problems.
- Administer and support two highly competitive user allocation programs
  - Innovative and Novel Computational Impact on Theory and Experiment (INCITE)
  - ASCR Leadership Computing Challenge (ALCC)
  - Computational allocations typically 100x larger than generally available in university, laboratory, and industrial (scientific and engineering) environments.



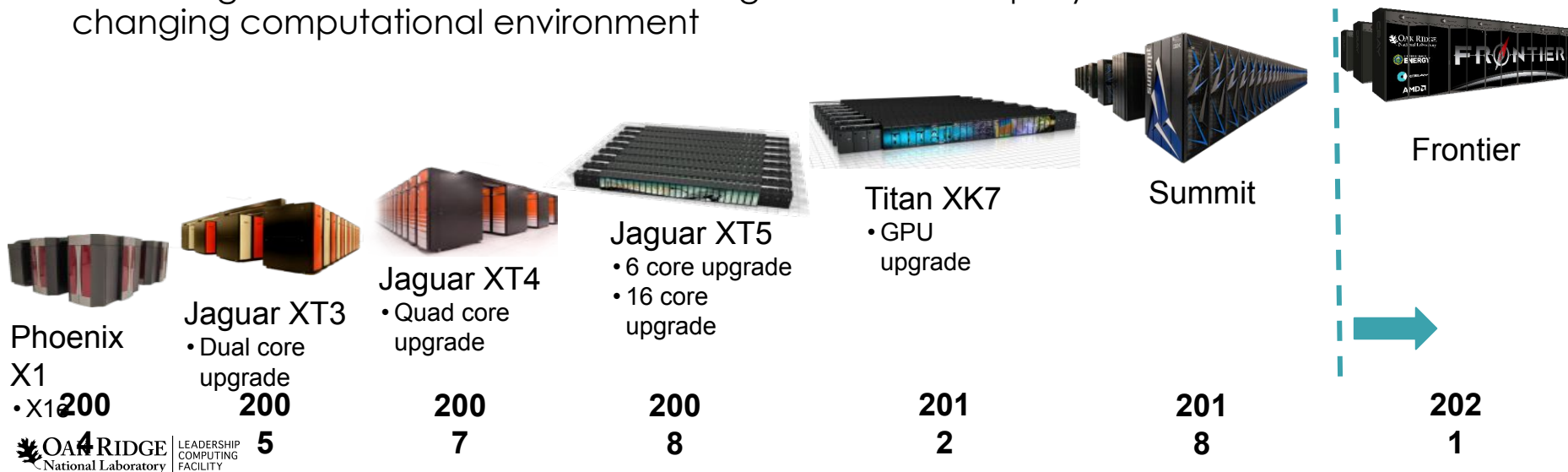
# OLCF Users

- The OLCF averages about 1,500 unique users who are located around the world
- OLCF users come from academia, industry, and govt institutions
- Users are attached to projects which run up to 3 years in duration. We average about 250 research projects per year.
- OLCF resources are allocated through three highly competitive allocation programs requiring peer reviewed proposals



# The OLCF has Successfully Delivered Six Systems Since 2004

- Frontier will be system number seven and will provide an increased capability of over 80,000x
- Large part of success has been strong user partnerships to scale & refactor codes/methods
- Partnering has been essential to delivering science in a rapidly changing computational environment



# Opportunities at ORNL

Oak Ridge National Laboratory has numerous scientific and technical positions available in HPC, AI, Computational Science and Mathematics

- For a complete listing of positions available in Computing and Computational Sciences visit, <https://jobs.ornl.gov/go/Computational-Sciences-Jobs/4534300/>
- Internship Opportunities at ORNL: <https://education.ornl.gov/>
- Pathways 10-week summer program that provides undergraduate students with learning opportunities in computer science, computational science, and mathematics. <https://www.zintellect.com/Opportunity/Details/ORNL-PCIP-2022>





Questions?