

MANAG IN A HI

Carol Jones,
Sandia Natio
October 05, 2017
Society for Inform

Sandia National Laboratories is a multi-miss
subsidiary of Honeywell International, Inc. ©

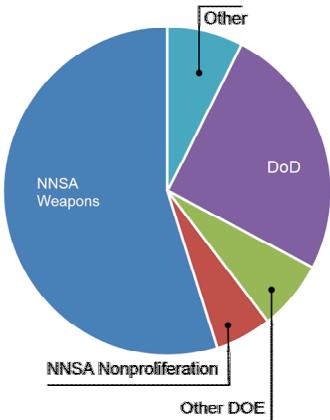
MANAGIN G INFORMATION TECHNOLOGY IN A HI-TECH, HIGH-SECURITY LAB

Information Officer and Director of IT Services
Sandia Laboratories
Management's IT Procurement Working Group

Managed and operated by National Technology & Engineering Solutions of Sandia, LLC, a wholly owned
subsidiary of Honeywell International, Inc. © 2017. This work was performed under a contract with the U.S. Department of Energy's National Nuclear Security Administration under contract DE-NA0003525.

SAND2017-10663C

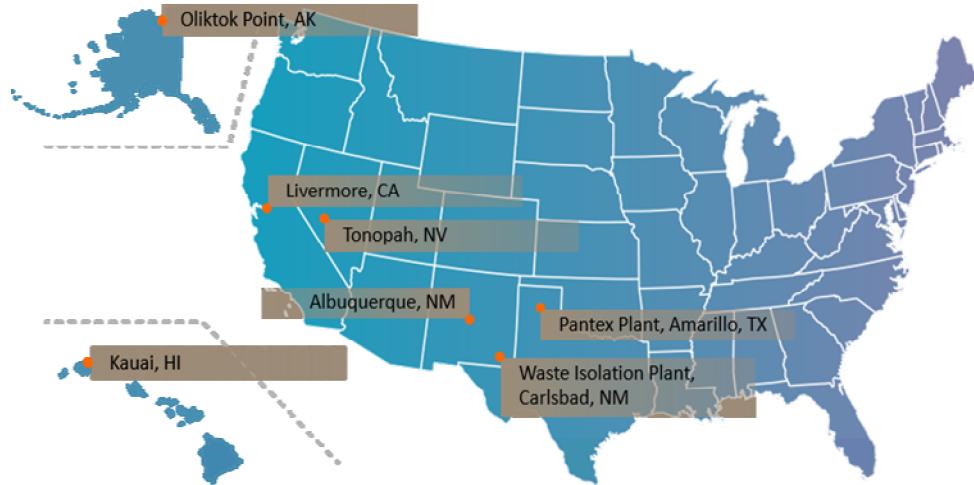
Sandia National Laboratories at a glance



\$3B
total FY16
budget



12,000
employees



- Sandia is one of three DOE National Nuclear Security Administration laboratories entrusted with responsibility for stockpile stewardship and annual assessment of the nation's nuclear deterrent
- We use the deep scientific and engineering knowledge gained through our nuclear deterrence mission to anticipate and solve the most challenging problems that threaten security in the 21st century

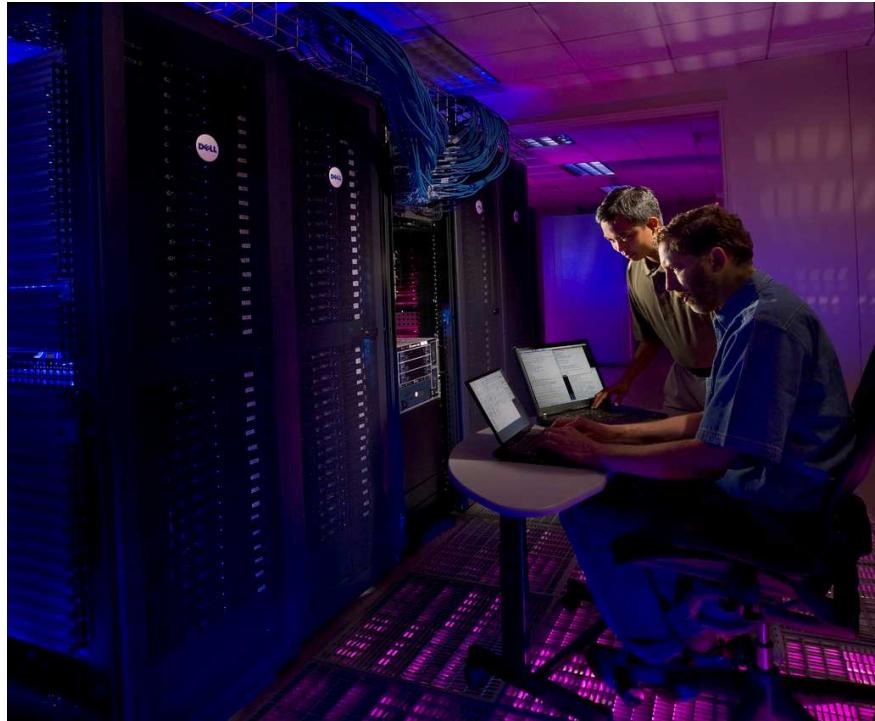
Our purpose

Sandia develops advanced technologies to ensure global peace



How does IT fit in?

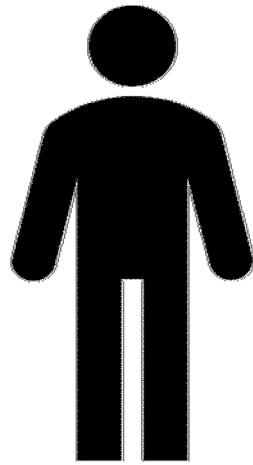
IT Services facilitate the secure flow of information that drives Sandia's mission. We support IT infrastructure, enterprise applications, mission-enabling services, information management, and enterprise-level IT policy.



How does IT fit in?

- Embedded video

Sandia's IT footprint



>12,000

customers located in
cities across the U.S.

Albuquerque, Carlsbad,
Livermore, Tonopah,
Las Vegas, Washington D.C.,
St. Paul, Amarillo, Waimea



70,000 devices
152,000 cyber accounts

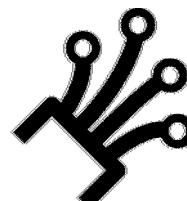


250,000
emails received by
Sandians per day

150,000
tickets per
130,000
calls per



buildings in NM and CA

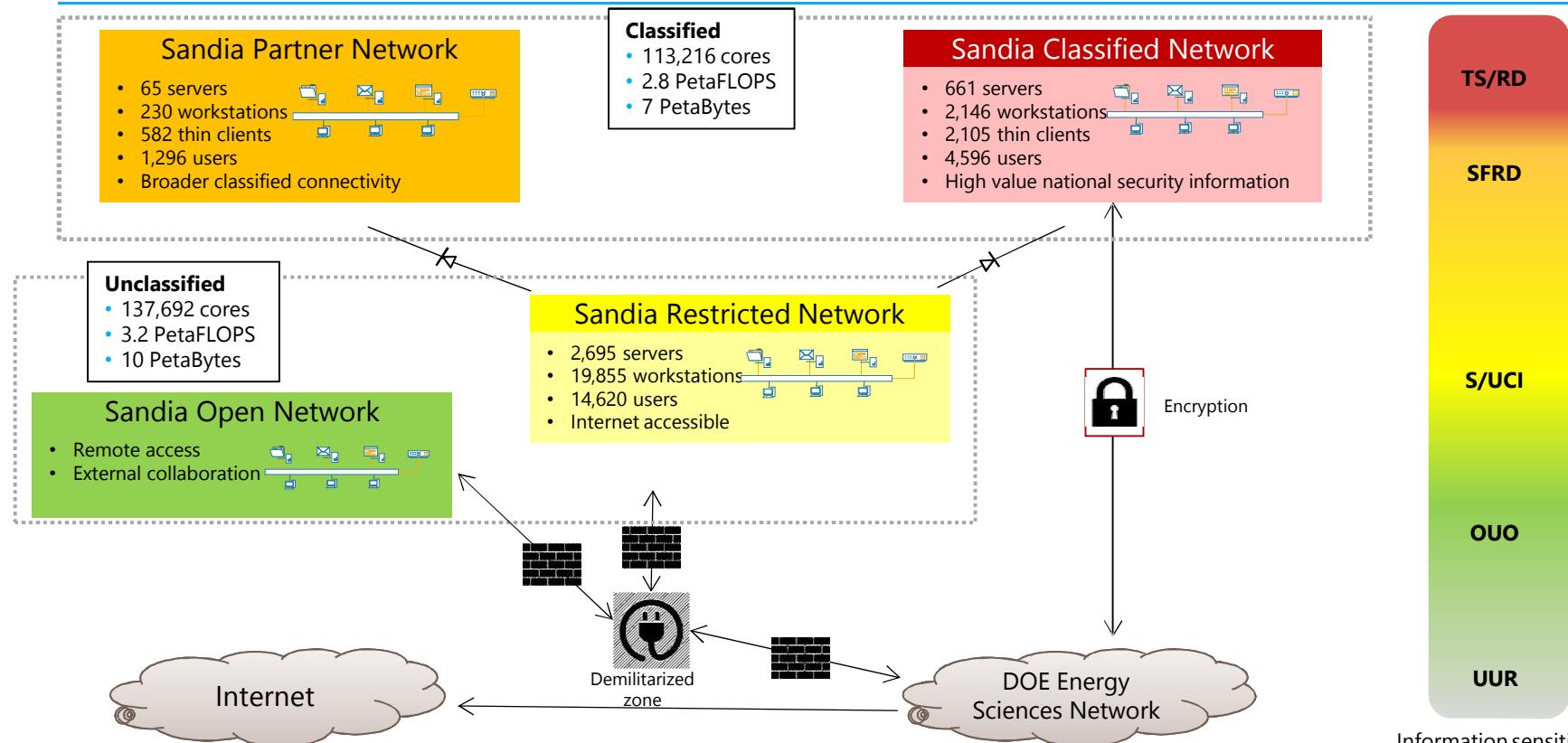


6,000
miles of fiber optic
and copper cable



33,000
software licenses
managed

Our diverse and complex computing infrastructure

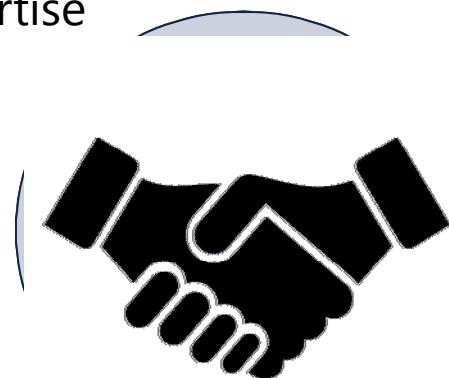


Information sensitivity

IT and Cyber go hand-in-hand

The close, trusted partnership between the two organizations **creates a stronger infrastructure and defense** for Sandia

- Embeds cyber defense technologies in IT infrastructure from inception
- Instills deeper cross-functional understanding and expertise
- Allows faster incident response and real-time aggregation of information
- Creates mutual benefit from shared diagnostic information and log aggregation



Our IT challenges

- Understanding the total cost of IT
- Strategically licensing and purchasing software and hardware
- Leveraging cloud technologies in a secure environment



Sandia cloud strategy



Enables Sandia to securely leverage the innovative capability of cloud computing for mission and enterprise use.

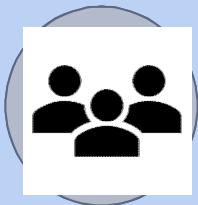
FOCUS AREAS

- Managing vendor contracts
- Demonstrating managed use of Commercial Cloud which includes logging, monitoring, integrated billing, and proper reviewable authorization
- Incorporating contract clauses
- Verifying and validating cloud environments
- Delivering self-service use of common IT services on shareable infrastructure internal to Sandia
- Releasing Cloud Computing Use Policies to understand when and how to use Internal and external cloud capabilities
- Communicating return on investment and multiyear cloud strategy

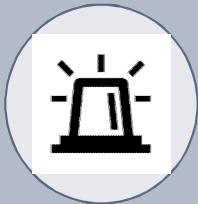
Managing CIO risks



Cyber

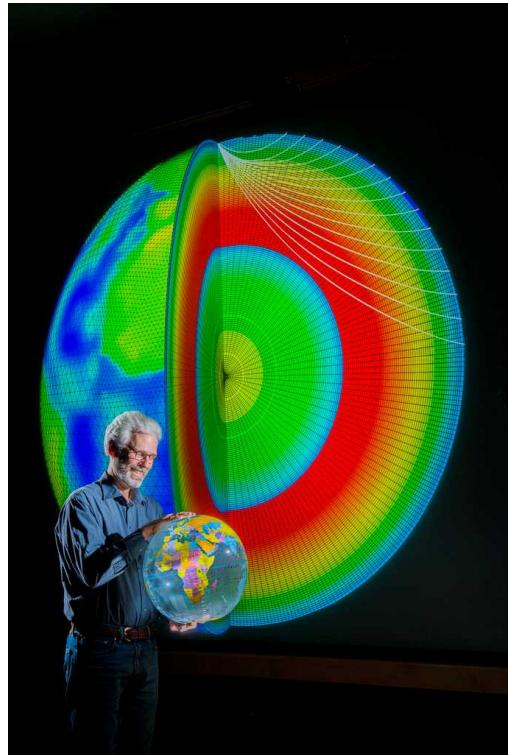


Talent



Obsolete Software

What tomorrow holds



- Surveying the industry landscape
- Benchmarking
- Engaging in continuous learning
- Investing in transformative technology

THAN

YOU

