

MANAGING INFORMATION TECHNOLOGY IN A HIGH-TECH, HIGH-SECURITY LAB

Carol Jones, Chief Information Officer and Director of IT Services

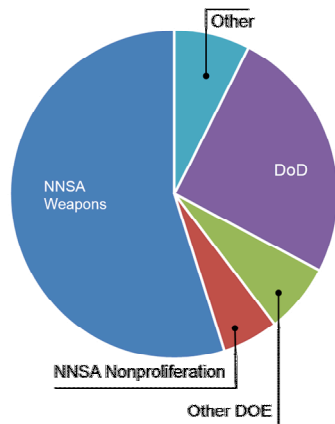
Sandia National Laboratories

October 05, 2017

Society for Information Management's IT Procurement Working Group

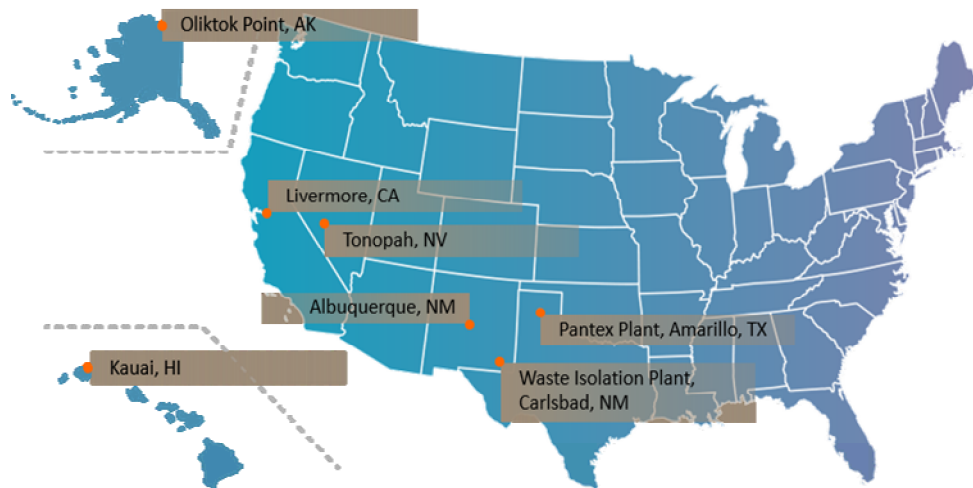
Sandia National Laboratories is a multi-mission laboratory managed and operated by National Technology & Engineering Solutions of Sandia, LLC, a wholly owned subsidiary of Honeywell International, Inc., for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-NA0003525.

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?

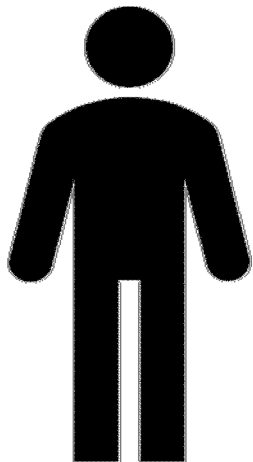
IT Services facilitate the secure flow of information that drives Sandia's mission. We support IT infrastructure, enterprise applications, mission-enabling services, information management, and enterprise-level IT policy.



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



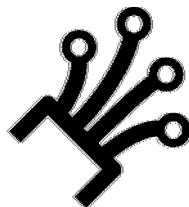
250,000
emails received by
Sandians per day

150,000
tickets per
130,000
calls per



315
buildings in NM and CA

50,000
telecommunication
drop boxes

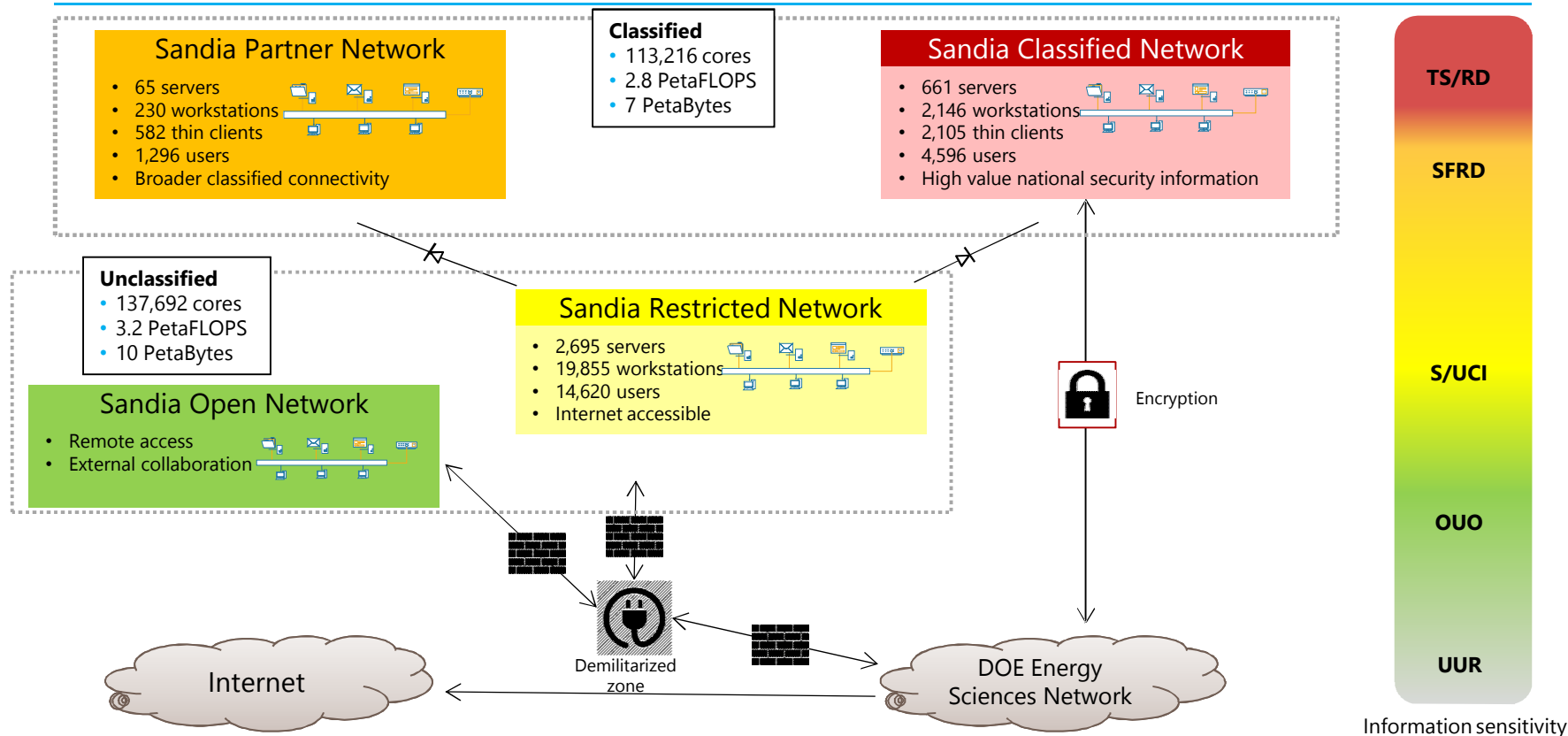


6,000
miles of fiber optic
and copper cable



33,000
software licenses
managed

Our diverse and complex computing infrastructure



IT and Cyber go hand-in-hand

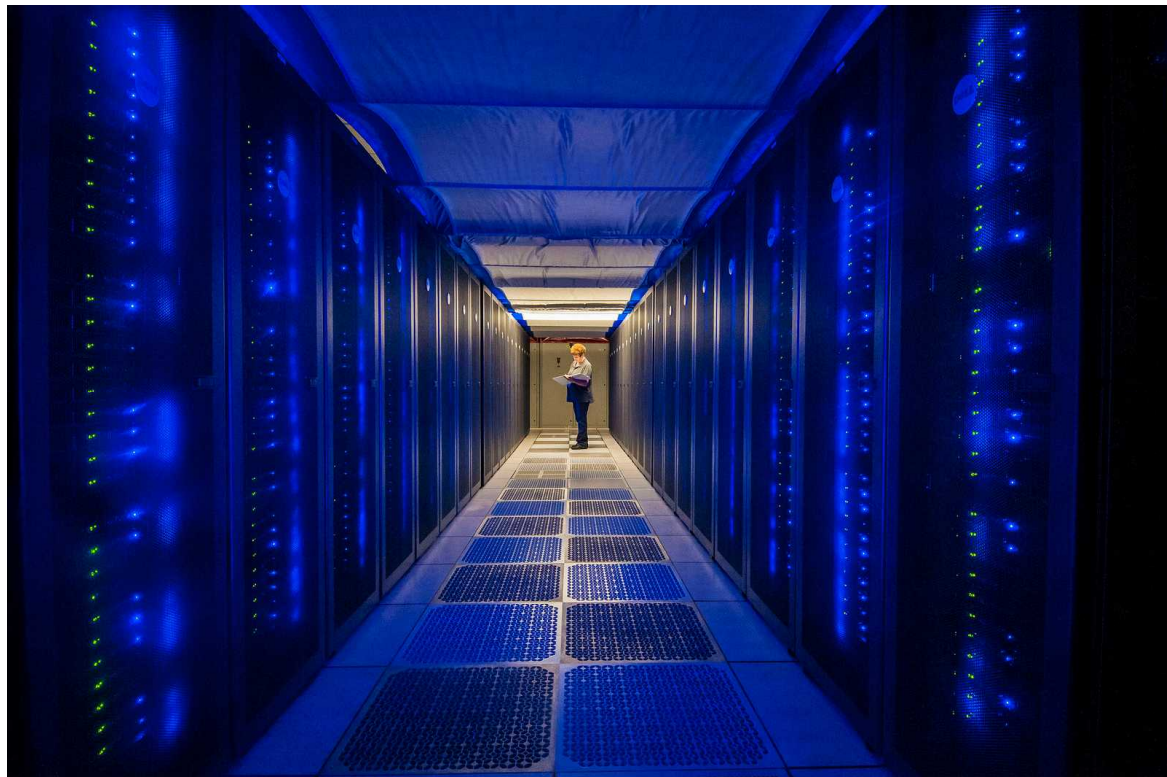
The close, trusted partnership between the two organizations **creates a stronger infrastructure and defense** for Sandia

- 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





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

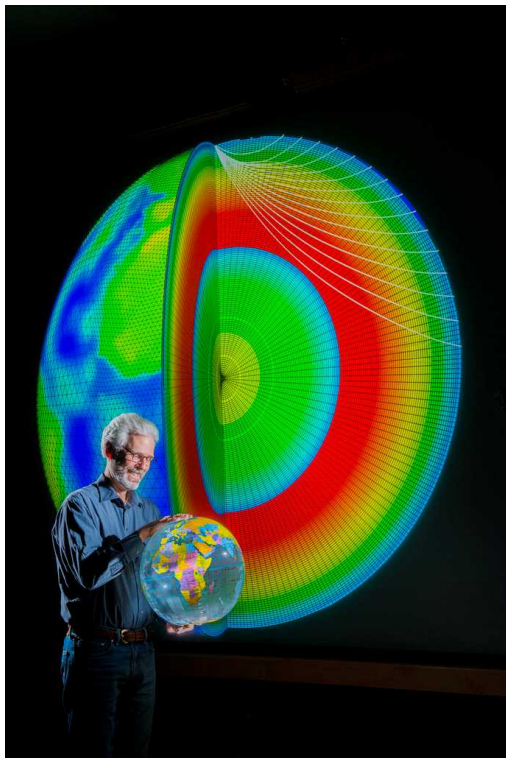


Talent



Obsolete Software

What tomorrow holds



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



THANK YOU