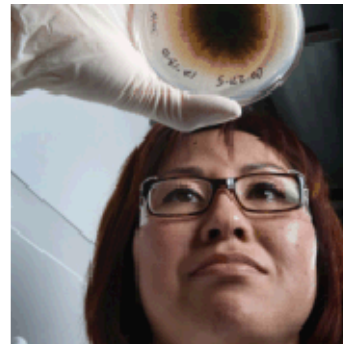


October 14, 2013

SAND2013-9805P

Exceptional service in the national interest



Sandia National Laboratories

An Overview & Economic Impact Summary

Kim Sawyer

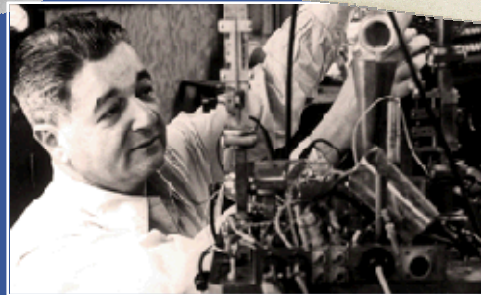
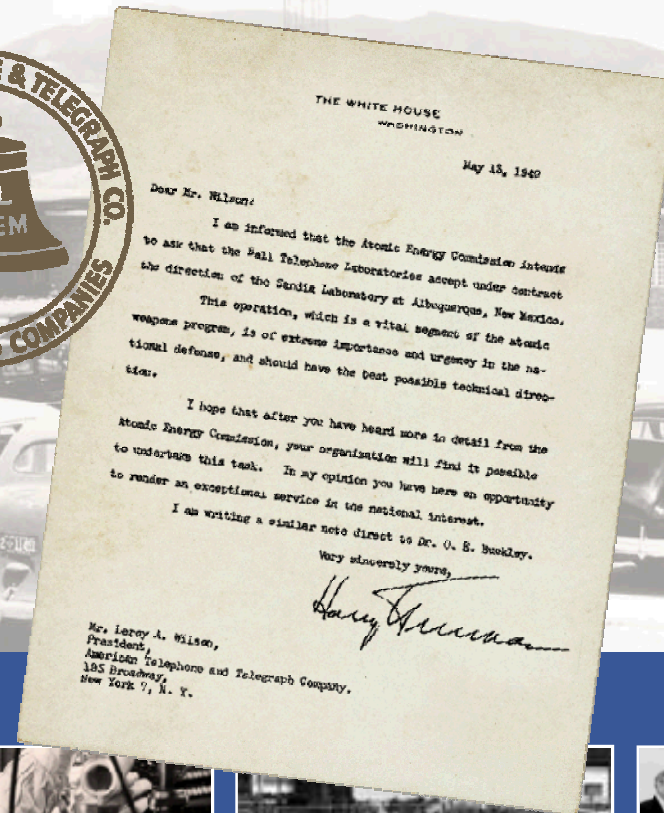
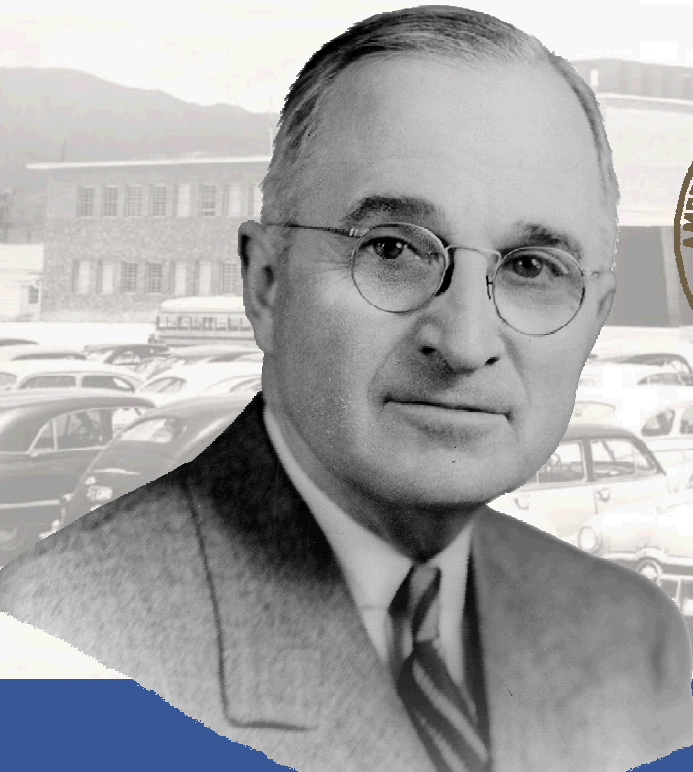
Deputy Laboratories Director
and Executive Vice President for Mission Support



Sandia National Laboratories is a multi-program laboratory managed and operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000. SAND No. 2011-8926P

Sandia's history

Exceptional service in the national interest



Vision and mission statements

- On behalf of our nation, we anticipate and solve the most challenging problems that threaten security in the 21st century.
- Our unique mission responsibilities in the nuclear weapons program create a foundation from which we leverage capabilities enabling us to solve complex national security problems.



Sandia's sites

Albuquerque, New Mexico



Livermore, California



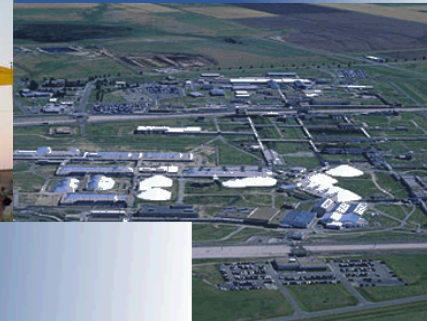
Kauai, Hawaii



*Waste Isolation Pilot Plant,
Carlsbad, New Mexico*



*Pantex Plant,
Amarillo, Texas*



*Tonopah,
Nevada*

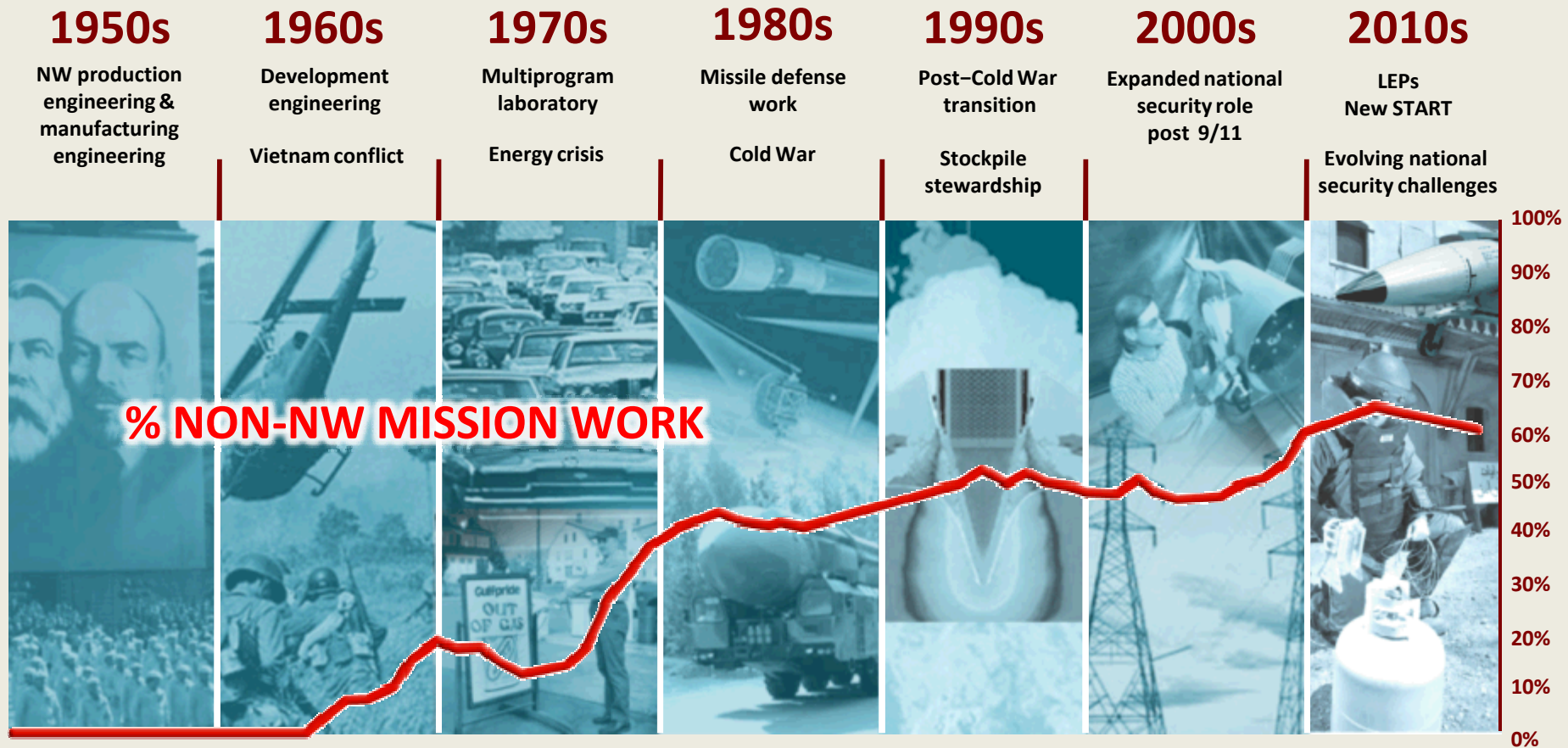


Key FFRDC attributes*

- Long-term relationships with the government afford the continuity that will ***attract high-quality personnel*** to the FFRDC and encourage the FFRDC to *maintain currency in its field(s)* of expertise.
- Meets ***special long-term research or development needs***.
- Operates in the public interest with ***objectivity and independence***, is ***free from organizational conflicts of interest***, and fully discloses its affairs to the sponsoring agency.
- Is operated, ***managed***, and/or administered as an ***autonomous organization*** or as an identifiable separate operating unit of a parent organization.
- ***Does not*** use privileged information to ***compete with the private sector*** but may work for other than the sponsoring agency when the work is not available from the private sector.

* Abridged definition from the Federal Acquisition Regulation

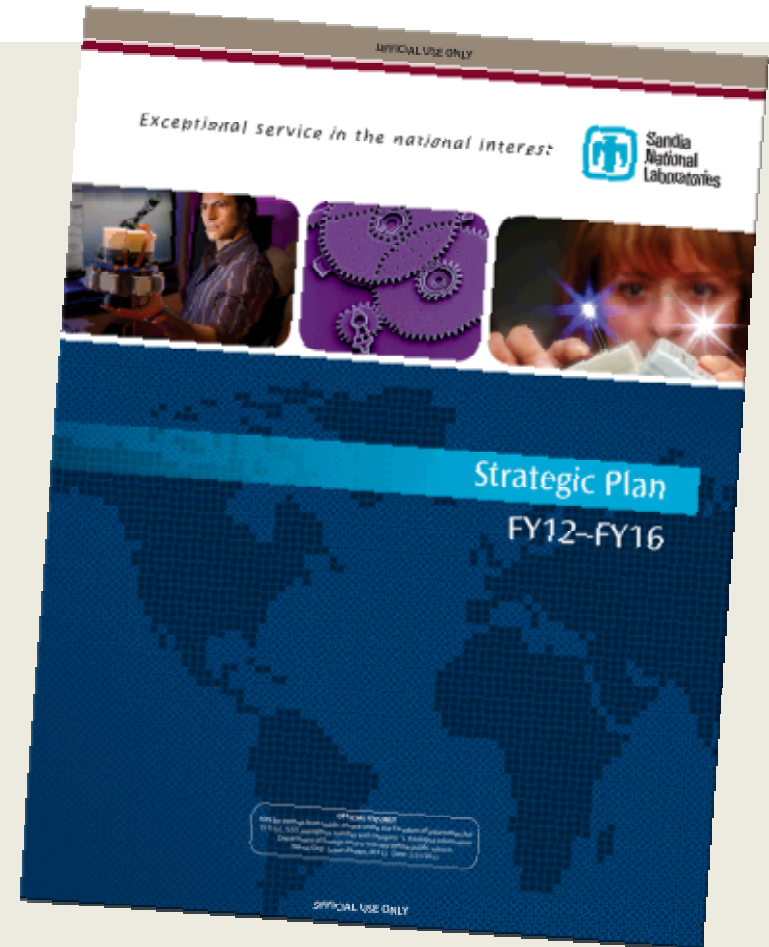
Sandia's mission work reflects national security challenges



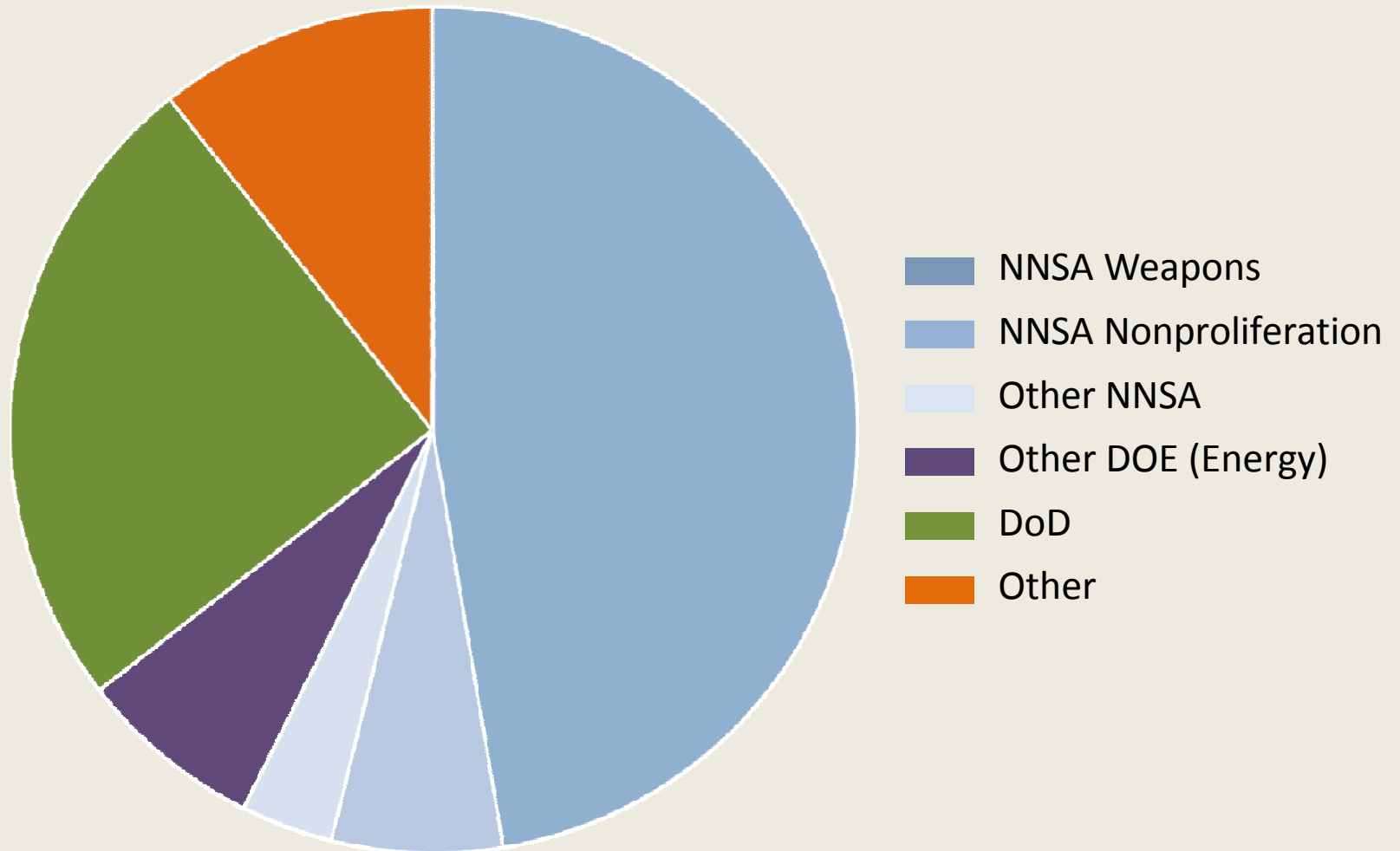
Moving Sandia into the future

Our Strategic Plan

- Deliver with excellence on our commitments to the unique nuclear weapons mission
- Amplify our national security impact
- Lead the Complex as a model 21st century government-owned contractor-operated national laboratory
- Excel in the practice of engineering
- Commit to a learning, inclusive, and engaging environment for our people



Federal funding organizations



Sandia's national security missions

- Maintain a safe, secure stockpile and an effective nuclear deterrent now and into the future
- Reduce global nuclear dangers
- Provide nuclear assessments and warning
- Enable the United States to defend and dominate in cyberspace
- Maintain U.S. defense technological superiority through synergistic products
- Maintain U.S. defense technological superiority through leveraged innovations
- Reduce global chemical and biological dangers
- Ensure a secure and sustainable energy future



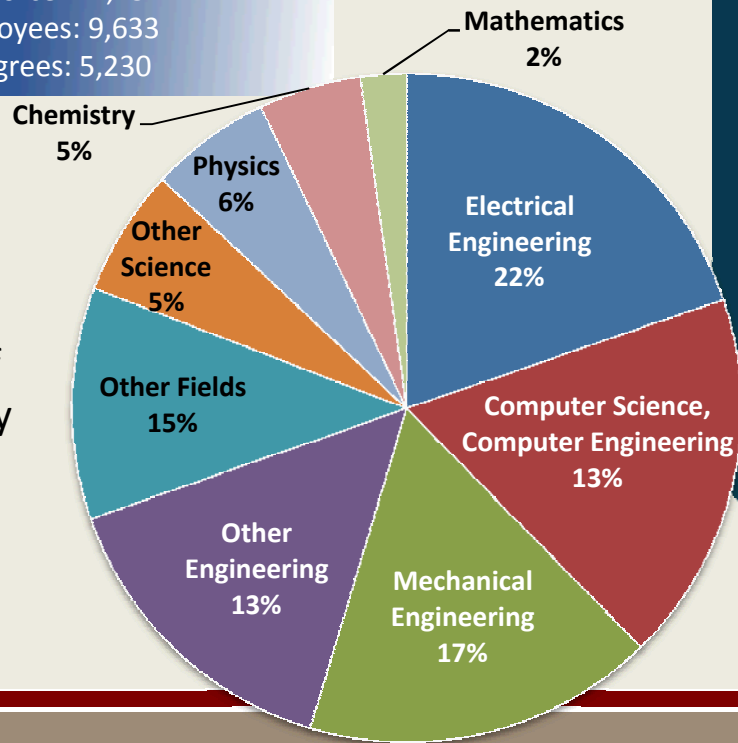
Sandia's people

Exceptional talent

- Highly educated workforce
- Strategically managed workforce of diverse skills and competencies
- Modern business practices and operations in support of our missions

- On-site workforce: 12,251
- Regular employees: 9,633
- Advanced degrees: 5,230

R&D staff
(4,862) by
discipline



Sandia's facilities and tools

Enable differentiated scientific and engineering test and discovery

Sandia has facilities in multiple locations:
Albuquerque, NM; Livermore, CA;
Carlsbad, NM; Tonopah, NV; Kauai, HI;
Amarillo, TX.

Example Facilities and Tools

- Major Environmental Test Facilities
- Microsystems and Engineering Sciences Applications (MESA)
- High-Performance Computing
- Explosive Components Facility
- Weapons Evaluations Test Laboratory (WETL)
- Pulsed-Power Facility
- Center for Integrated Nanotechnologies (CINT)
- Combustion Research Facility (CRF)
- Ion Beam Laboratory
- ...



Sandia's research

Fundamental to the success of Sandia's national security missions

- Sandia's management framework stimulates innovation and ensures quality in our differentiating products
- Disciplined-based Research Foundations
 - Bioscience
 - Computing & Information Science
 - Engineering Science
 - Geoscience
 - Materials Science
 - Nanodevices & Microsystems
 - Radiation Effects & High Energy Density Science
- Multidisciplinary Research Challenges
 - Quantum limited detection
 - Beyond Moore computing
 - Cyber resiliency
 - Data science
 - Trusted systems and communications
 - Power on demand
 - Resiliency in complex systems
 - ...
- R&D Investments
 - Internal Laboratory-directed R&D
 - Customer-funded R&D

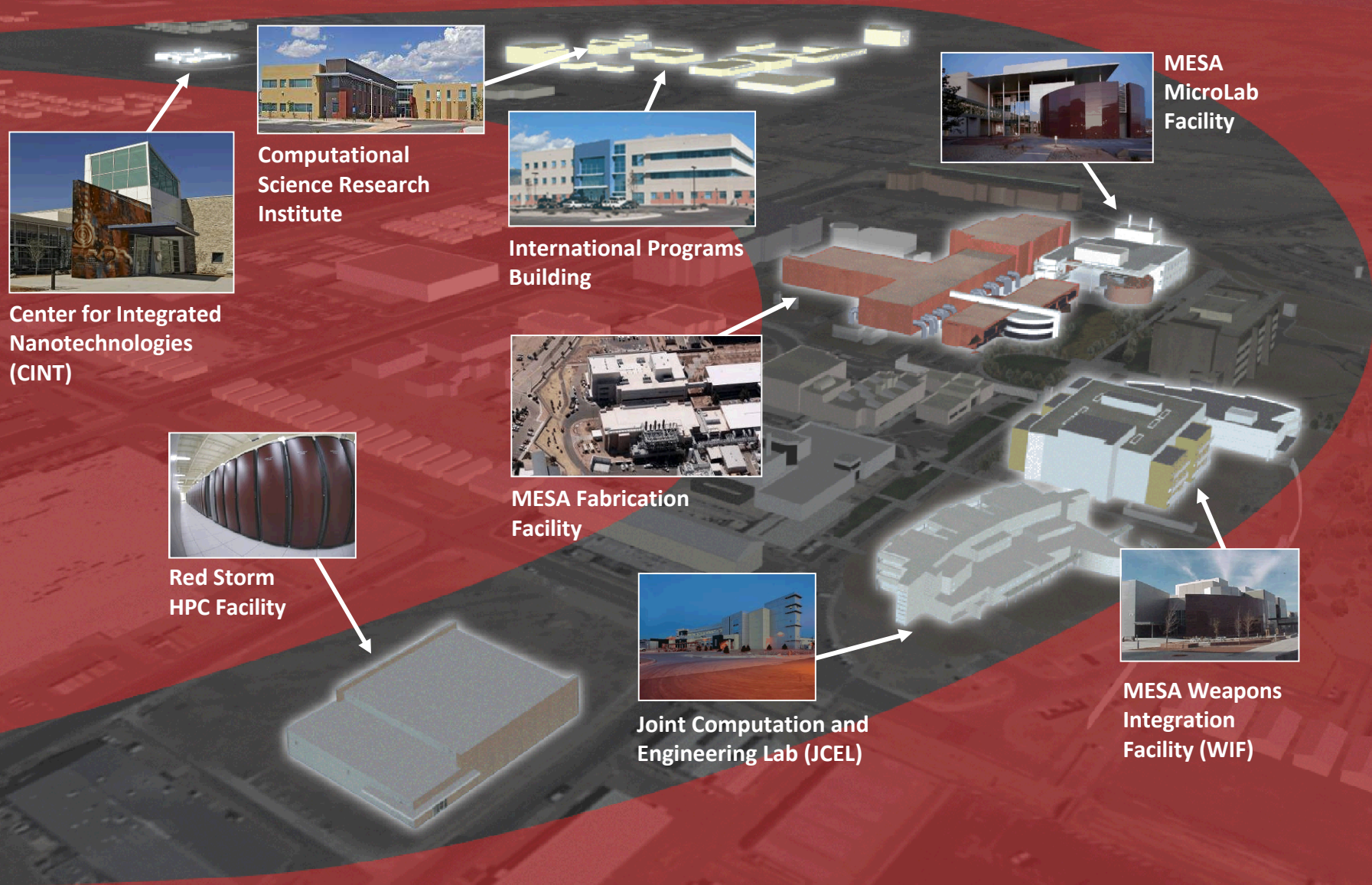


Leveraging core capabilities to solve 21st century national security challenges

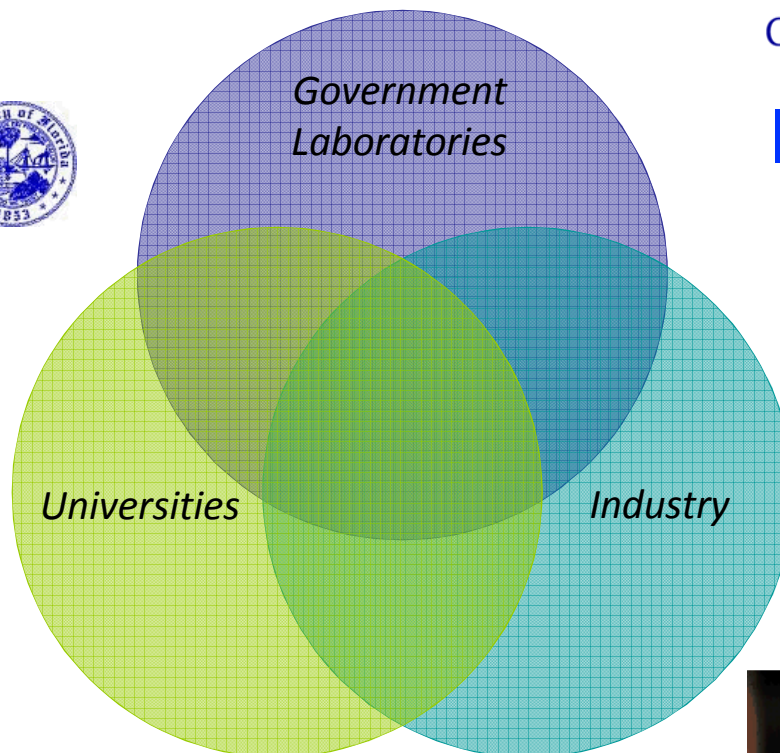
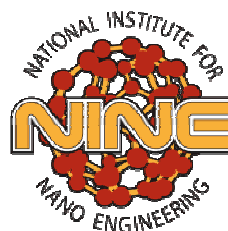
- High-reliability engineering
- Sensors and sensing systems
- Cyber technology
- Reverse engineering
- Pathfinders
- Modeling & simulation and experiment
- Natural and engineered materials
- Micro & nano electronics and systems
- Safety, risk, and vulnerability analysis



Sandia's Innovation Corridor



Partnerships and collaboration accelerate innovation



CORNING



ExxonMobil

Taking on the world's toughest energy challenges™

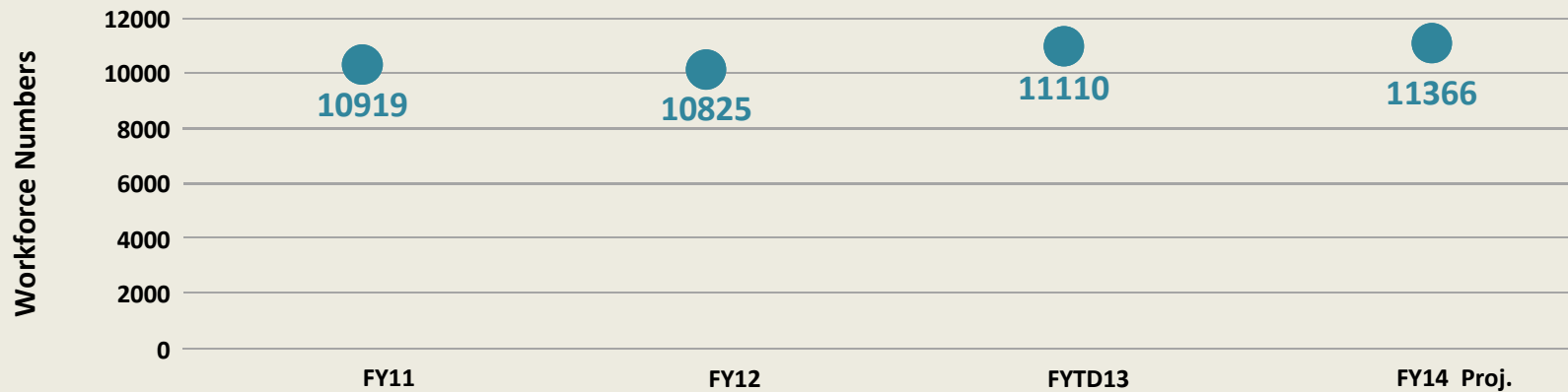


Sandia has a strong impact on the New Mexico business environment

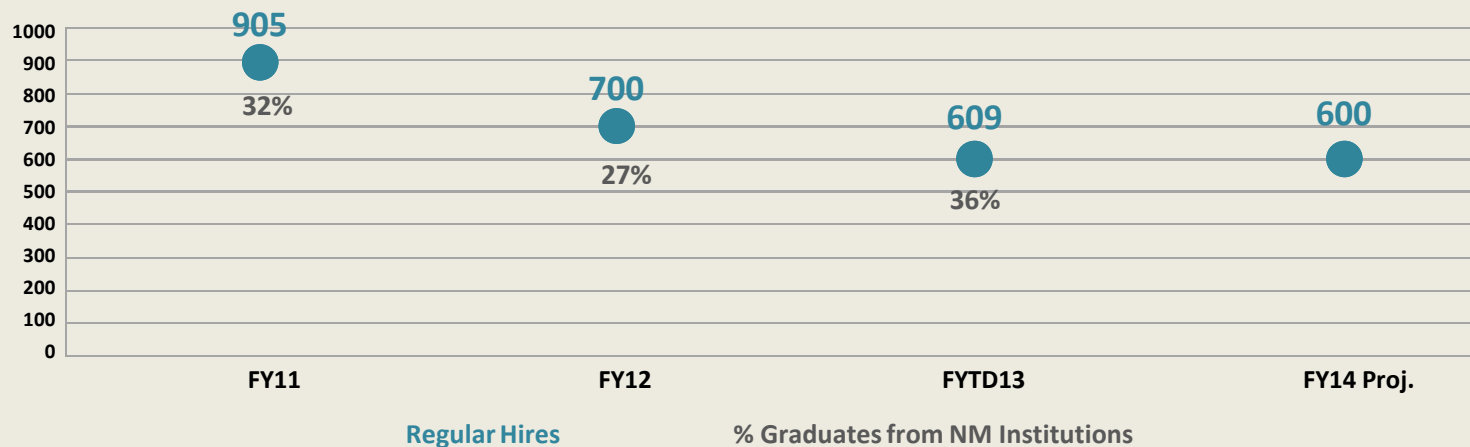


Our workforce

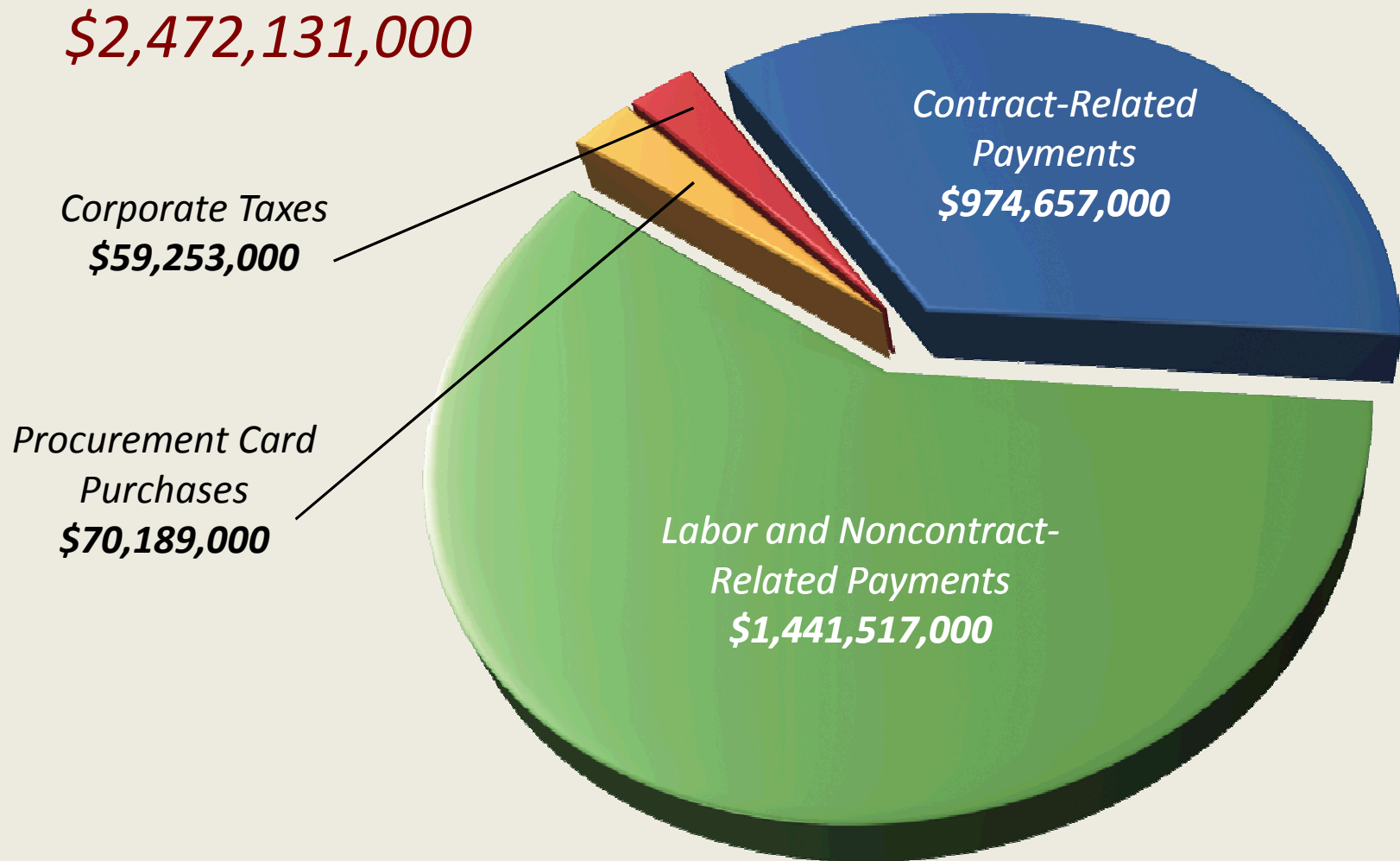
Total workforce



External regular hires not counting staff augmentation position conversions



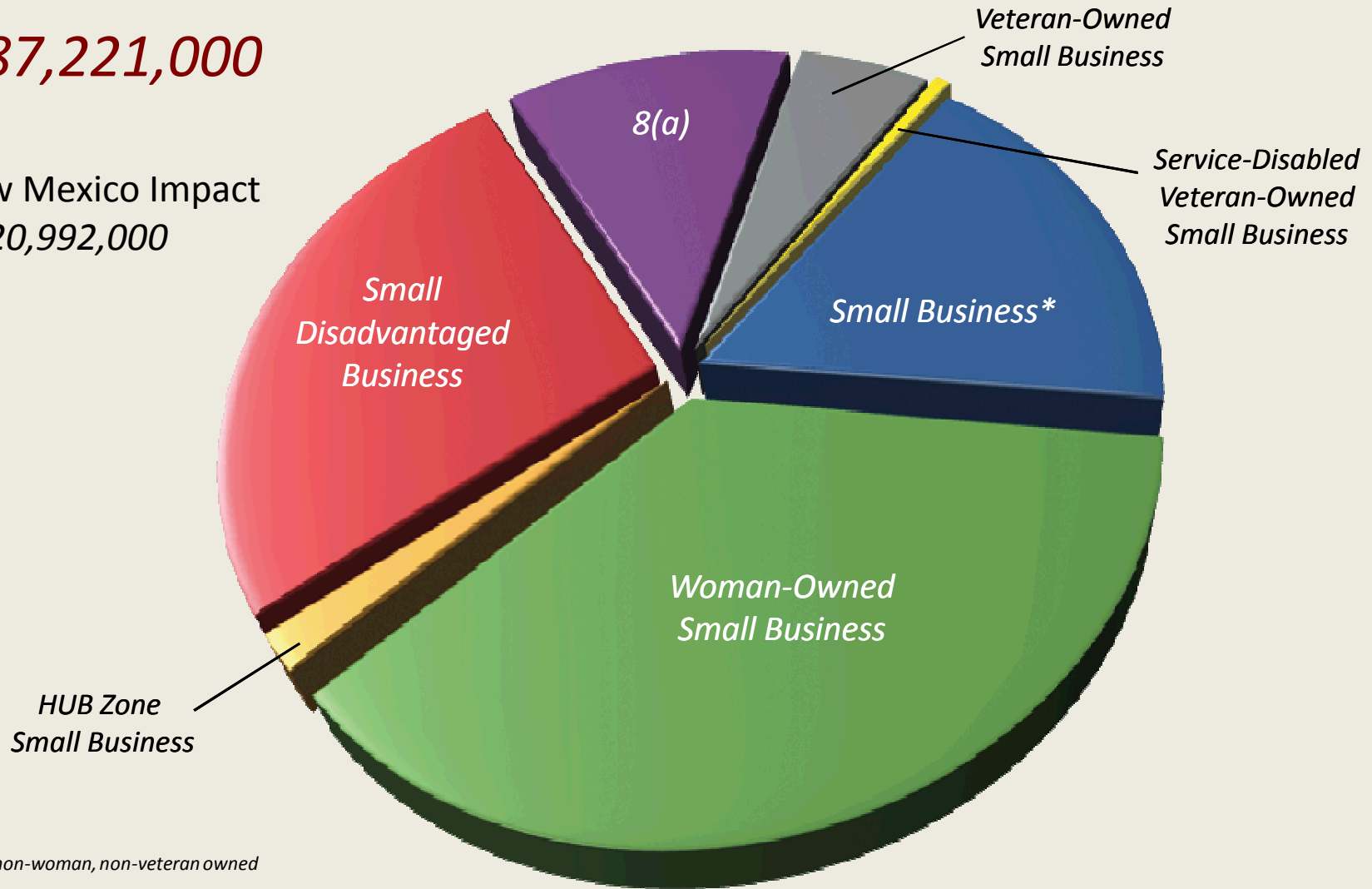
2013 Total Sandia expenditures



2013 New Mexico small business breakdown

\$287,221,000

Total New Mexico Impact
\$420,992,000



*non-minority, non-woman, non-veteran owned

FY13 Spend by NM congressional districts

■ District 1, Michelle Lujan Grisham

- Contract Related Payments: \$407,715,000
- 606 Suppliers

■ District 2, Steve Pearce

- Contract Related Payments: \$5,328,000
- 28 Suppliers

■ District 3, Ben Ray Lujan

- Contract Related Payments: \$7,948,000
- 62 Suppliers

FY13 spend by select congressional District 3 communities

- **Bernalillo – 3 suppliers, \$521,000**
- Cerrillos – 1 supplier, \$5,000
- **Corrales – 11 suppliers, \$882,000**
- Edgewood – 1 supplier, \$5,000
- El Prado – 1 supplier, \$2,248,000
- Farmington – 2 suppliers, \$48,000
- Los Alamos – 11 suppliers, \$2,503,000
- Mora – 1 supplier, \$5,000
- **Rio Rancho, 14 suppliers, \$1,287,000**
- Santa Fe, 14 suppliers, \$441,000
- Taos, 1 supplier, \$4,000

Sandia Science & Technology Park

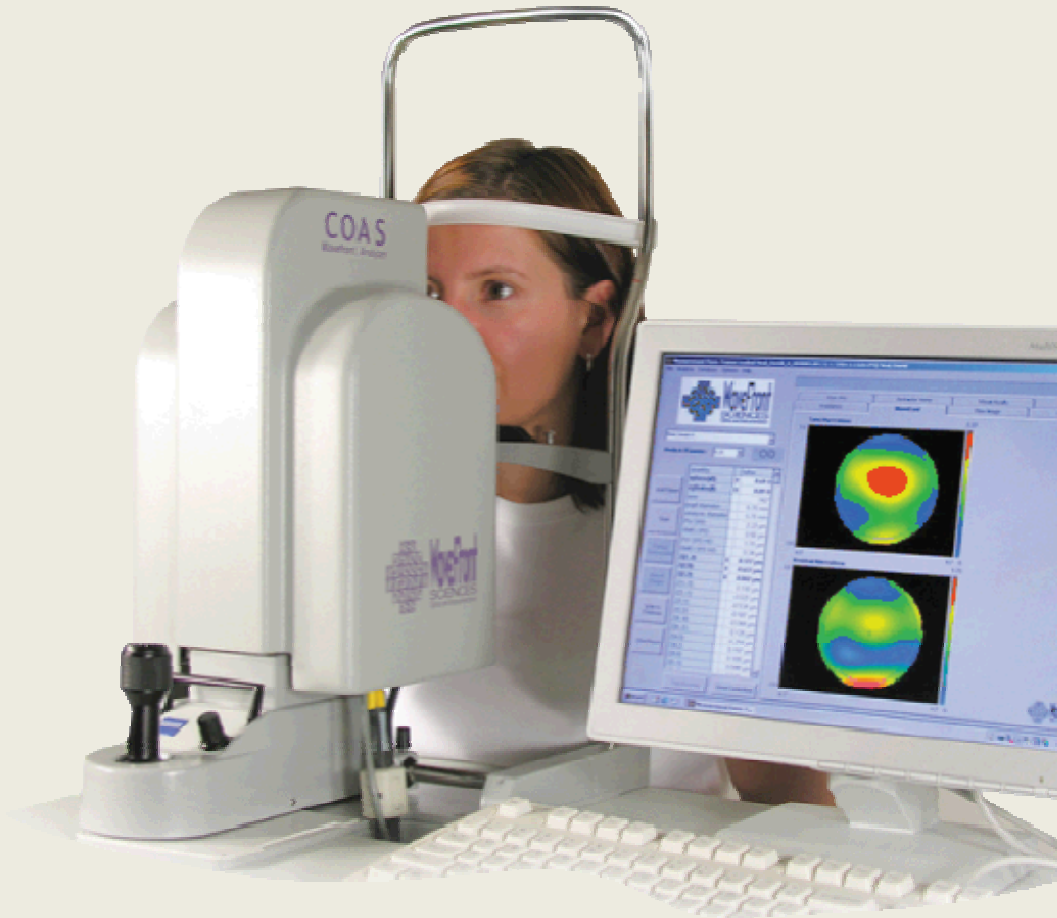
An internationally recognized technology community

- The Park was founded in 1998
- Partnership tool for Sandia National Laboratories
- 33 tenants, 20 facilities, 2,233 employees
- Public-private partnership: Private sector and government institutions



Entrepreneurial separation to transfer technology (ESTT)

- Entrepreneurs terminate Sandia employment.
- Term of separation is two years with the option to request a third year.
- Entrepreneurs are guaranteed reinstatement by Sandia if they return before ESTT expiration.
- Participants may **start up** or help **expand** technology businesses.
- 139 people have left to start up or expand 91 companies, mostly in New Mexico.



Abbott's Wavefront Sciences: Successful NM company with roots in Sandia

- Dan Neal left Sandia through the Entrepreneurial Separation to Transfer Technology program to co-found Wavefront Sciences
- *Intellectual property*: Three licenses with Sandia for Wavefront sensor and binary optics technologies
- Optical measuring systems evolved from space telescopes to LASIK surgery
- The iDesign Advanced Wavescan Studio Aberrometer, latest ophthalmic product line, is used in treatment planning for laser refractive surgery
- Abbott Medical Optics, a division of Abbott Laboratories, has acquired Wavefront Sciences
- Company continues in Albuquerque; has grown from 3 to 40 people



New Mexico Small Business Assistance (NMSBA) Program



- Governed by the Laboratory Partnership with Small Business Tax Credit Act (a New Mexico state law)
- Public-private partnership with Sandia National Laboratories, Los Alamos National Laboratory, State of New Mexico, and New Mexico Small Businesses
- Allows up to \$2.4 million per lab annually in assistance and tax credits
- Must be a New Mexico for-profit small business to qualify
- Companies in rural counties are eligible for \$20K per business each year; urban counties are eligible for \$10K per business each year

Armed Response Team: Successful in New Mexico, expanding to other states



- NMSBA client Armed Response Team
- Breakthrough technology for a guaranteed fast response to burglar alarms
 - The new solution received guidance from Sandia experts in video analytics technology
- Cost-effective, installed easily and unobtrusively
- Armed Response Team is growing locally and expanding to other states

Making a difference in our communities

SHARING IS CARING
Employee Caring Program

Employee contributions top more than

\$5.9 million

give.sandia.gov

Help us to reach our \$5M participation goal. Give to the Community Fund or any nonprofit of your choice. October 8-26.

United Way

Sandia National Laboratories

Exceptional service to the community

United Way in 2013 (projected)

Goal: Exceed \$5.7M campaign

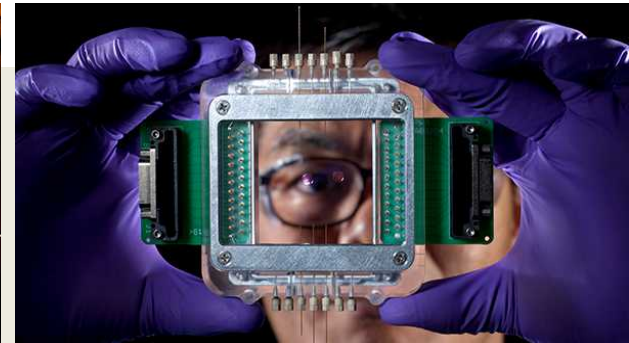
NM 2013 results: \$5.9M, which includes
\$700,000 from retirees

NM Participation in 2011: 71.8%

NM Participation in 2012: 73.6%

NM Participation in 2013: 75%





Questions?