



Opportunities for Collaboration

DOE EPSCoR Annual Program Review

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Our Business: National Security

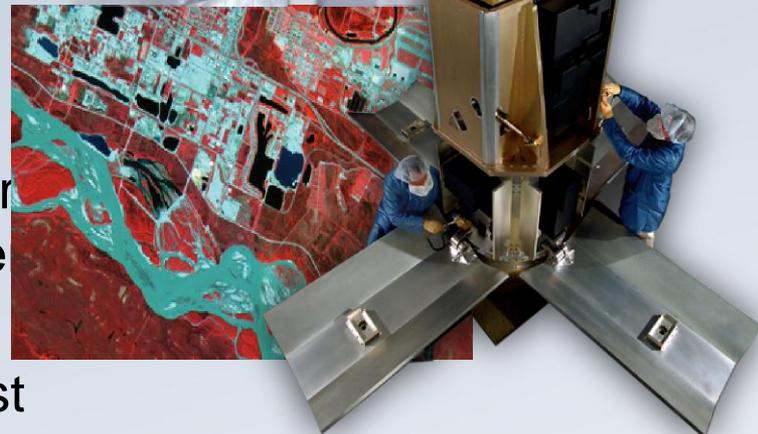
- **Core purpose**
 - to help our nation secure a peaceful and free world through technology
- **Highest goal**
 - to become the laboratory that the United States turns to first for technology solutions to the most challenging problems that threaten peace and freedom for our nation and the globe

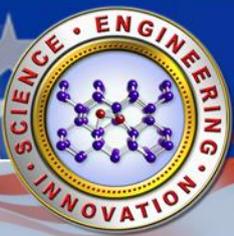




Technologies for National Security

- **We develop technologies to:**
 - Sustain, modernize and protect our nuclear arsenal
 - Prevent the spread of weapons of mass destruction
 - Provide new capabilities to our armed forces
 - Protect our national infrastructures
 - Ensure the stability of our nation's energy and water supplies.
- **Defend our nation against terrorist threats**

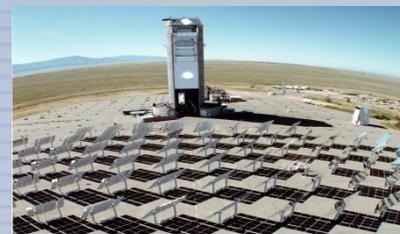




Foundational & Differentiating S&E Facilities

Foundations for transforming science to engineering

1.8B\$ of capital investment (06\$)



Solar Tower



HERMES III



Micro-fabrication (MESA, MDL, CSRL)



Red Storm



Annular Core Research Reactor (ACRR)



Sandia Pulsed Reactor III (SPR)



Pulsed Power



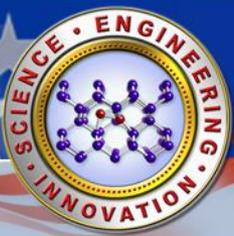
Center for Integrated Nanotechnologies (CINT)



Thermal Test Complex

Combustion Research Facility

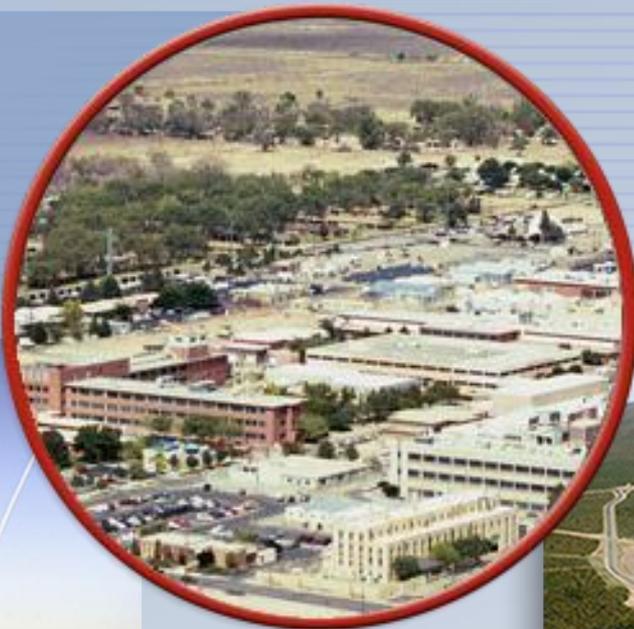




Sandia's Sites

**Albuquerque,
New Mexico**

**Livermore,
California**



**Kauai,
Hawaii**



**Yucca Mountain,
Nevada**



**WIPP,
New Mexico**



Pantex, Texas



Tonopah, Nevada

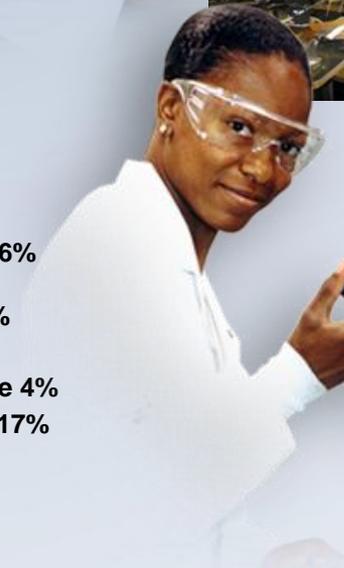
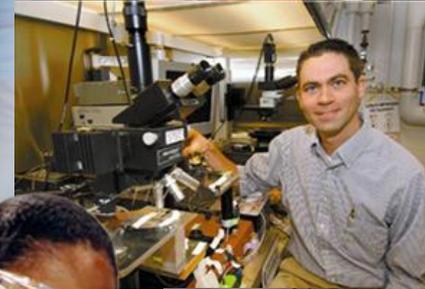
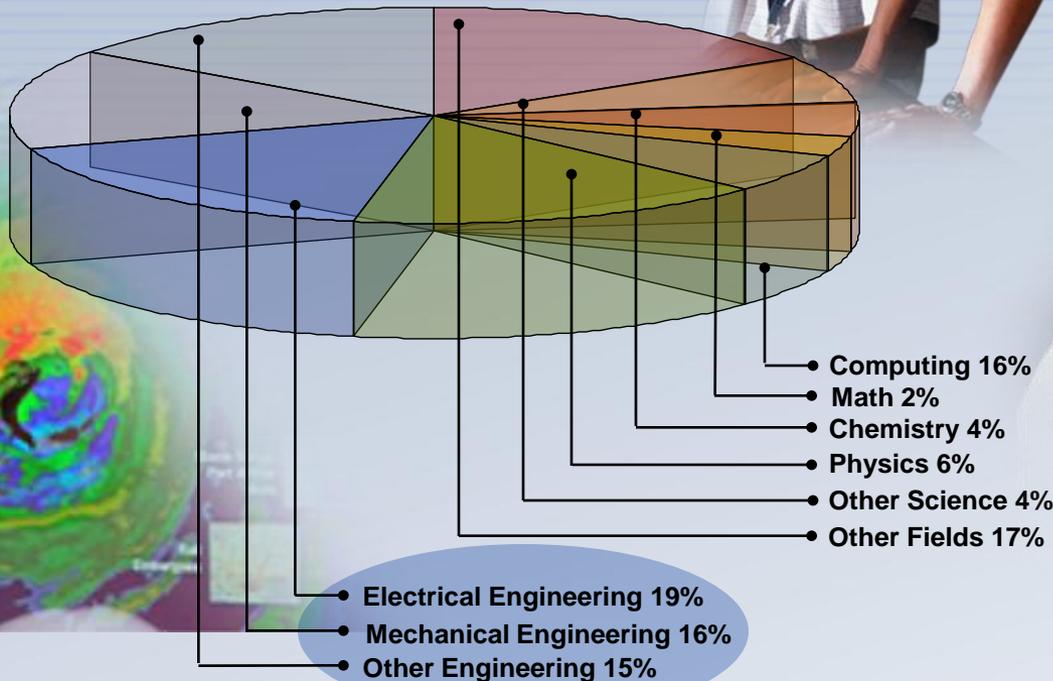




Sandia's People

- On-site workforce: 11,200
- FY08 permanent workforce: 8,400
- FY08 gross payroll: \$886.1M
- FY08 budget: \$2.3B

Technical Staff (3,844) by Degree
(End of FY08)

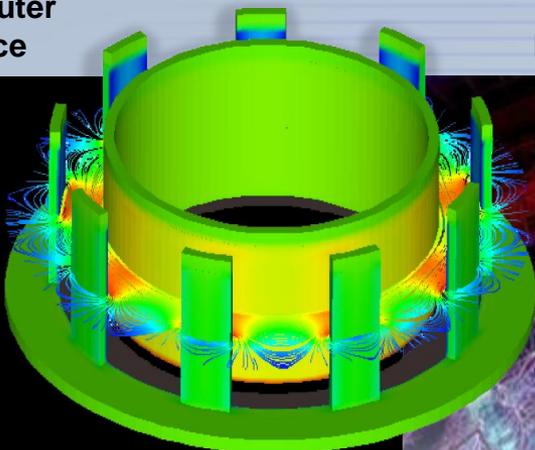




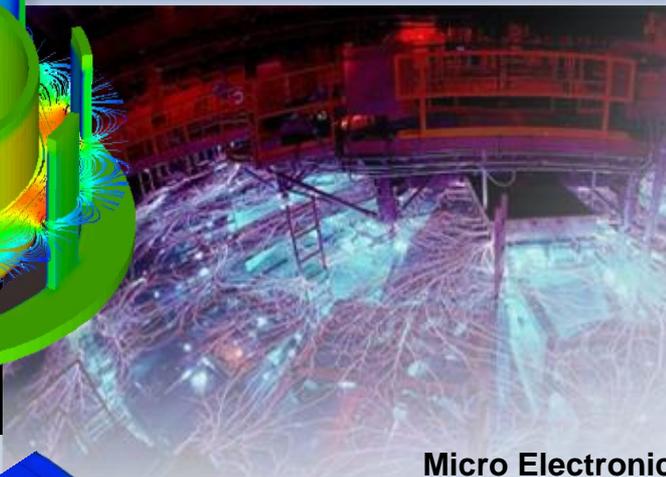
Enabled by Strong Science and Engineering

Research Disciplines

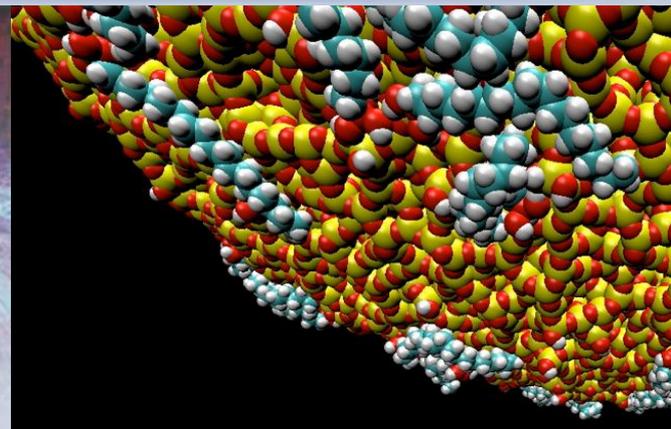
Computer Science



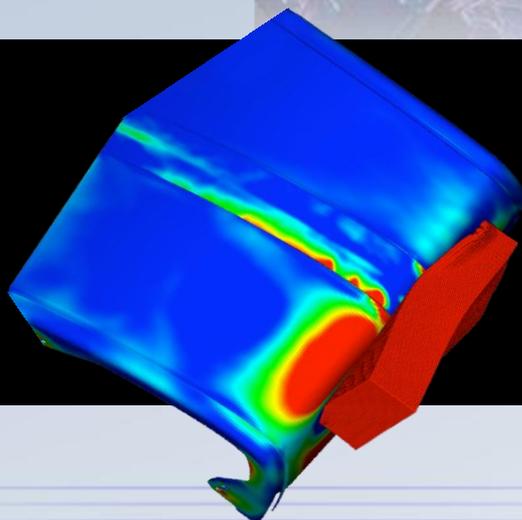
Pulsed Power



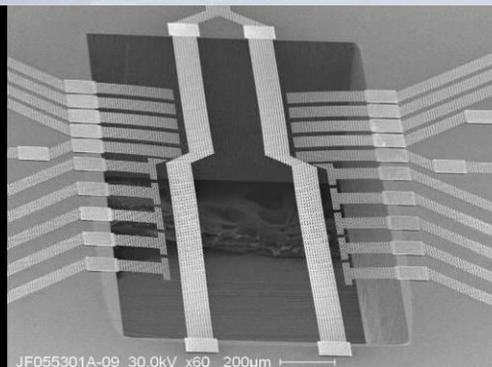
Materials



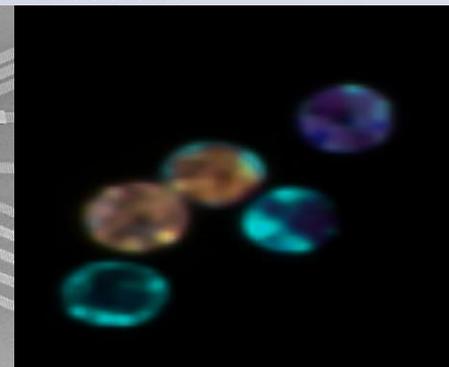
Engineering Sciences



Micro Electronics



Bioscience





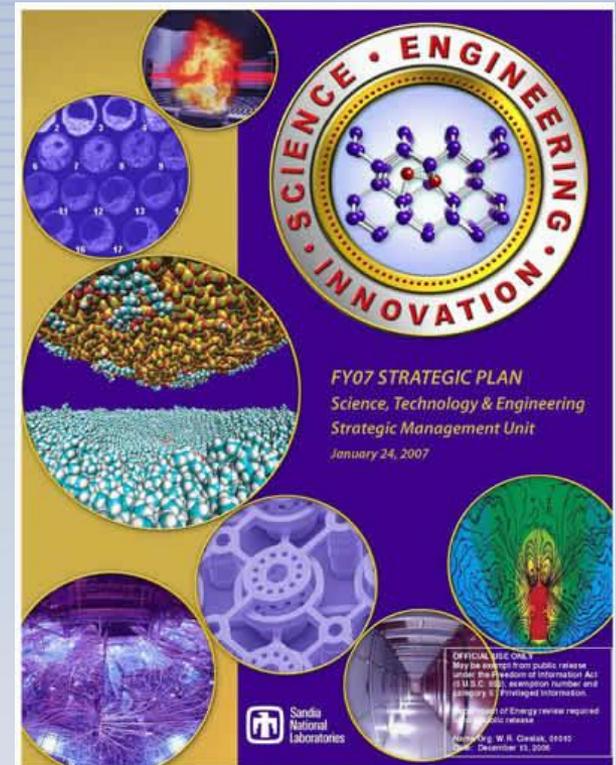
ST&E Strategy is guided by two principles

1. *Nurture the Core*

- Sandia's STE SMU must define the cutting edge of science and engineering.
- Sandia must be attracting the best and brightest our country has to offer.

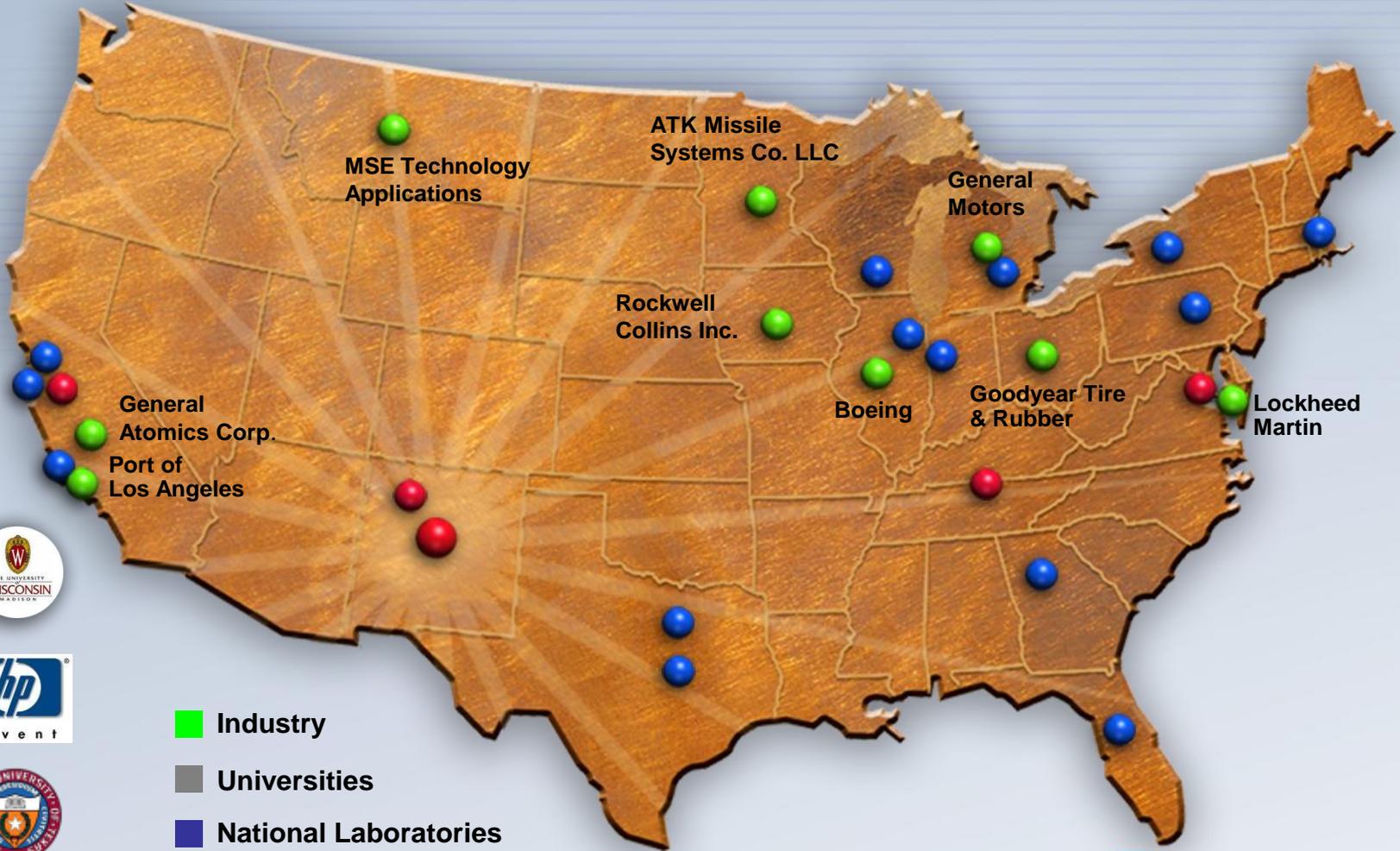
2. *Enable the Missions*

- STE must respond to the current needs.
- STE must anticipate the future.



Partnerships

Point of convergence for Industry, Government, Universities



- Industry
- Universities
- National Laboratories



Sandia's University Partnerships Strategy

Our strategy is to establish enduring partnerships with a focused set of universities to nurture talent, collaborative research, and national advocacy.

Recruit, retain and develop the best and brightest

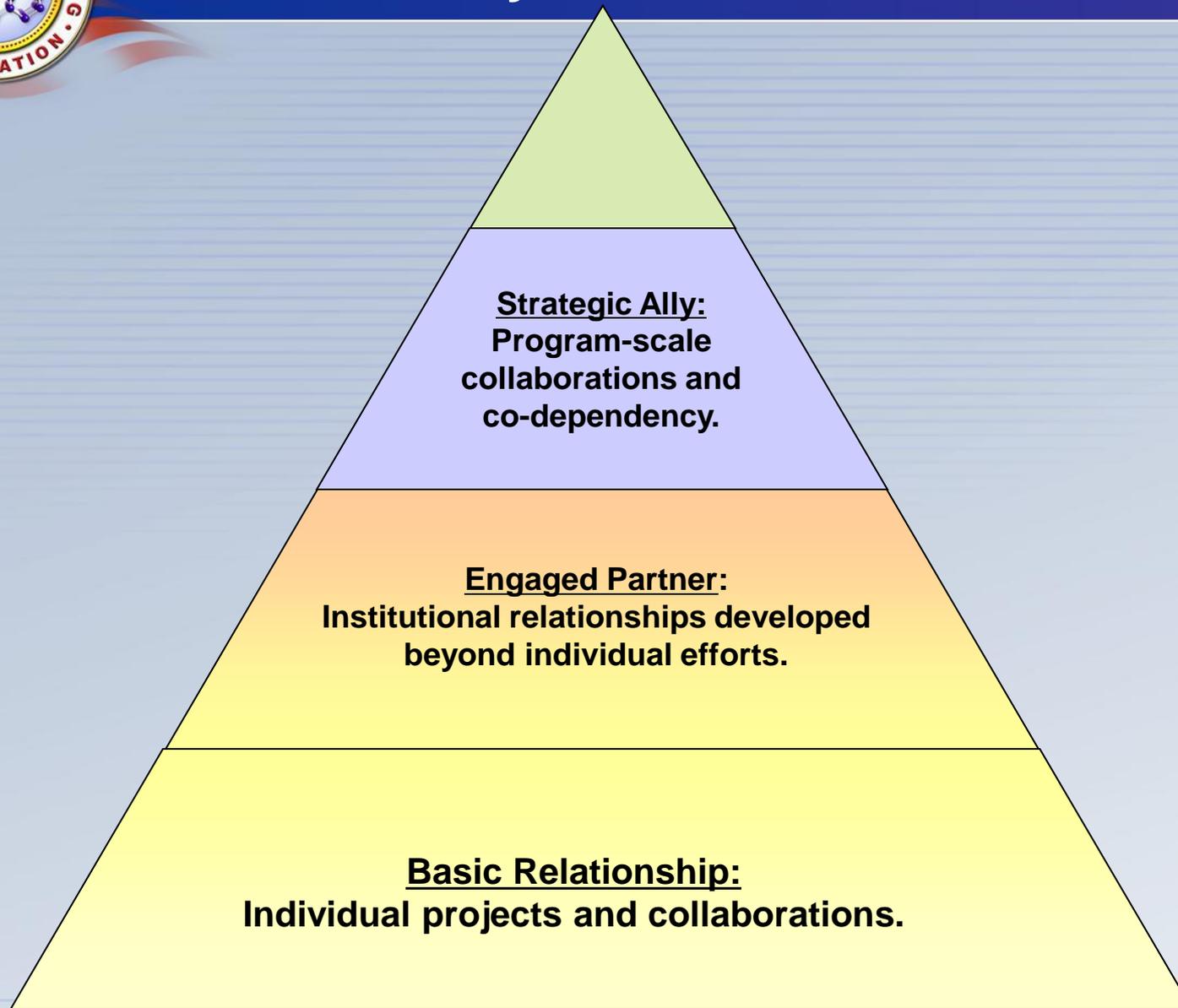
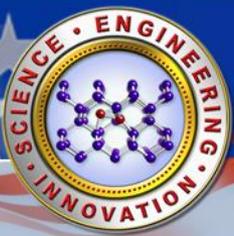


Build two-way relationships of mutual benefit and advocacy

Conduct collaborative world-class R&D to support mission needs

Corporate investments in research, recruiting, and education are aligned with the focused set of partner universities.

Basic collaborations are the foundation of our university interactions





Types of Research Collaborations

- **Technical outreach to universities: Campus Executive Program (CEP)**
- **Contract Research and Graduate Research Projects**
- **Joint Research and Development Efforts**
- **Faculty Development programs**
- **Faculty Awards for Research Leadership and Contributions to National Security**
- **Part-time Teaching Positions for Sandians: Joint appointments, adjunct faculty, etc.**