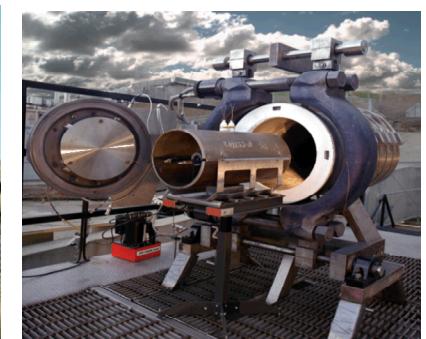


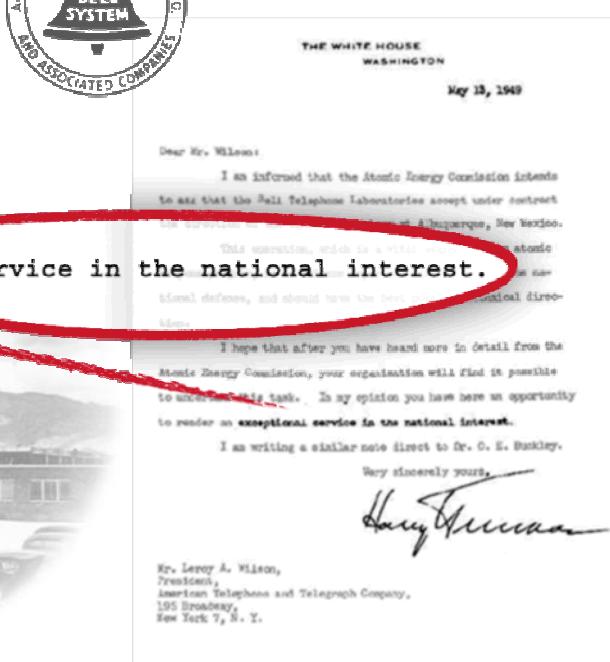
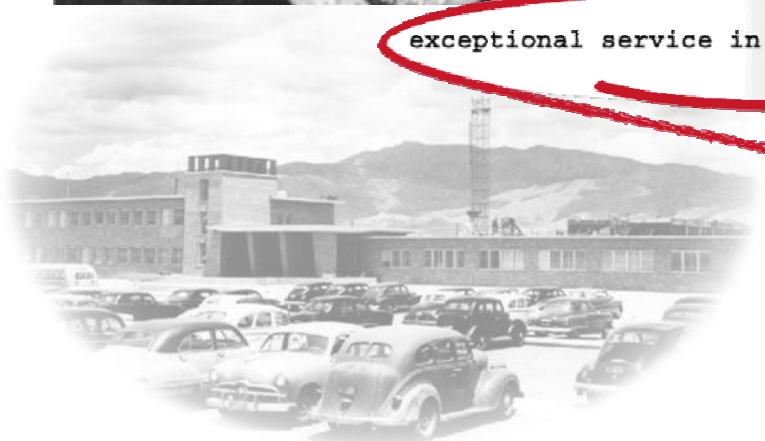
Exceptional service in the national interest



Homeland Defense & Force Protection

David W. Corbett
Director, Weapon and Force Protection

Sandia's history



Sandia's governance structure



Government owned, contractor operated



Federally funded
research and development center

Sandia's sites

Albuquerque,
New Mexico



Waste Isolation Pilot Plant,
Carlsbad, New Mexico



Livermore,
California



Tonopah, Nevada



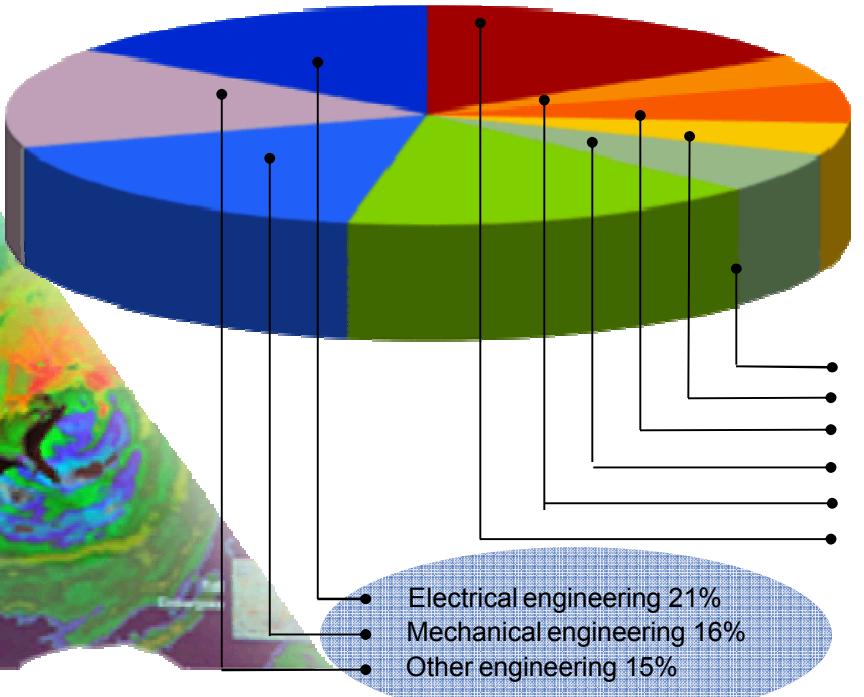
Pantex, Texas



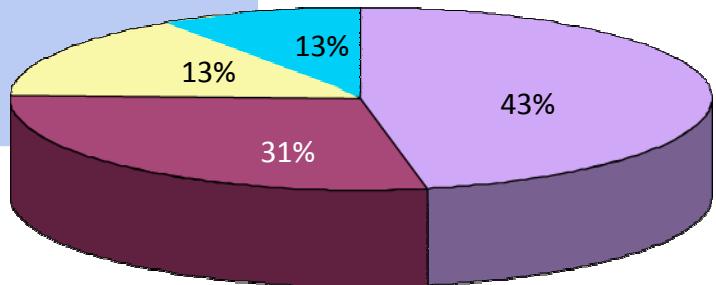
Workforce and Budget

- On-site workforce: 11,677
- Regular employees: 8,607
- Gross payroll: ~\$900 million

Technical staff (4,277) by discipline:



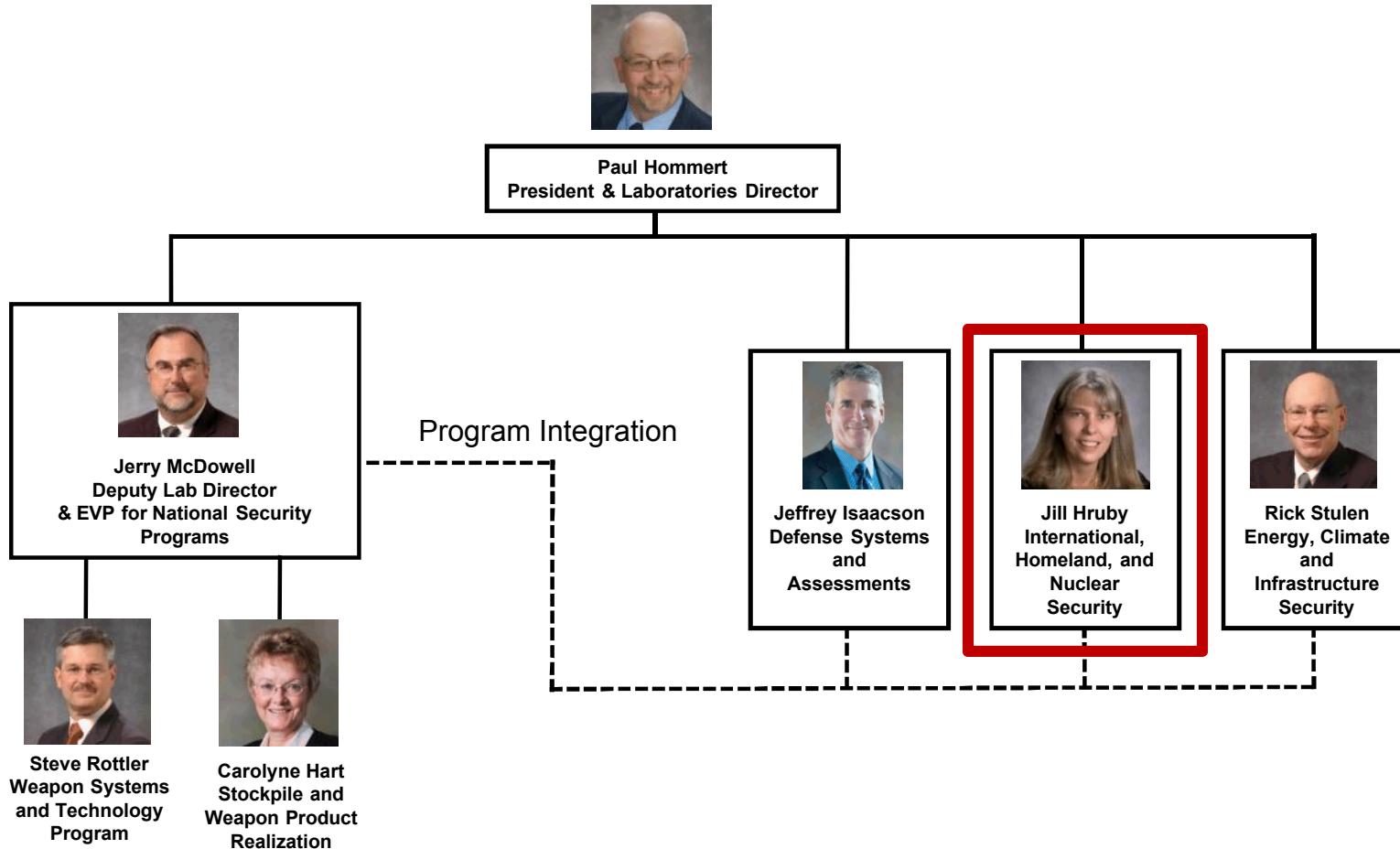
FY10 operating revenue
\$2.3 billion



 Nuclear Weapons
 Defense Systems & Assessments
 Energy, Climate, & Infrastructure Security
 International, Homeland, and Nuclear Security



Executive Management Programmatic Reporting Structure



Organizational Structure

Homeland Defense and Force Protection



Jill Hruby

IHNS SMU VP

Holly Dockery
IHNS Deputy

Critical Asset Protection
Ron Moya

Global Security
Rodney Wilson

Homeland Defense &
Force Protection
David Corbett

Homeland Security
Programs
Peter Davies

Airworthiness and Infrastructure
Assurance
Bob Mata

Global Threat Reduction
Bill Rhodes

Physical Security - AF
Randy Peterson

Nuclear & Radiological Security
Jim Lund

Physical Security & Surety
Brad Parks

International Arms Control &
International Security
Billy Marshall

Physical Security - Navy
Jennifer Nelson

Biological & Chemical Security
Duane Lindner

Emergency Response
Brad Parks

International Weapons &
Material Protection
Bill Rhodes

Chemical & Biological,
Warfare Defense
Duane Lindner

Aviation & Explosives Security
Howard Hirano

International Border Security
Erik Webb

Weapons Remediation
Duane Lindner

Borders & Physical Security
Erik Webb

International Cooperative
Threat Reduction
Ren Salerno

Force Protection
Systems/Initiatives
Phil Heermann

Preparedness & Decision
Support
Pablo Garcia

Foundational Support &
Partnerships
Nate Gleason

DOE, NNSA, DoD, FAA, FBI

NNSA/NA20, DoS,
DoD/DTRA

DoD/Air Force/Navy

DHS S&T /CBP/
TSA/DNDO/ Policy, HHS

Key Customers

International, Homeland, and Nuclear Security

Program Areas

- Critical Asset Protection
- Global Security
- Homeland Defense and Force Protection
- Homeland Security

Areas of Expertise

- Nonproliferation and Arms Control
- Countering Nuclear, Biological, Chemical, and Radiological Risks
- Nuclear Weapon and Material Safeguards and Security
- Critical System, Asset, and Facility Protection
- National Emergency and Incident Response



Laboratory
Biosecurity
Handbook



Homeland Defense & Force Protection

We provide...



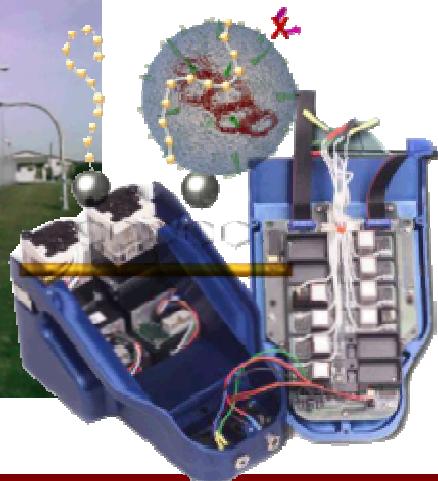
technology and systems solutions to confront continually changing threats at military bases – especially threats to NW security from intruders, explosives, and CBRN threats.

Securing high-value assets

Physical Security



Chem/Bio Defense



Weapons Remediation

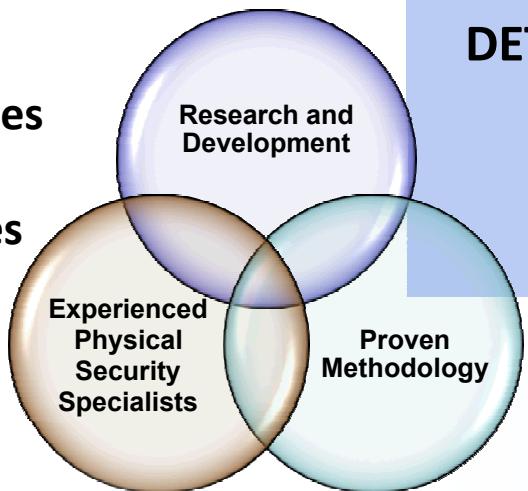


Force Protection



Physical Security Sub-Program

What Makes
Sandia's
Capabilities
Unique?



DETECTION



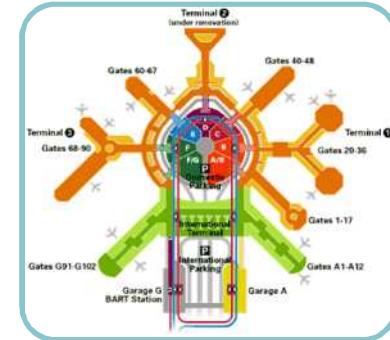
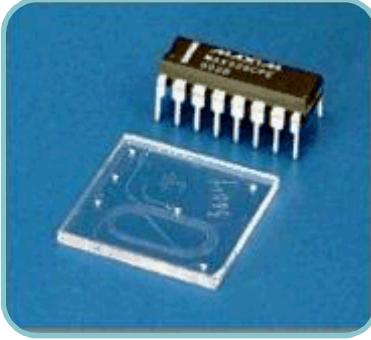
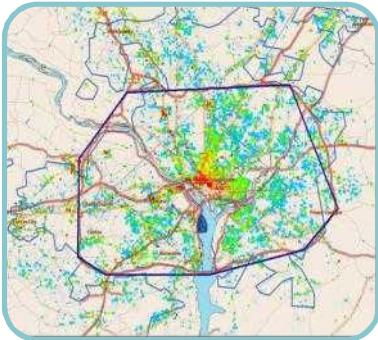
DELAY



RESPONSE



Chem/Bio Sub-Program



Systems Analysis

- Urban defense architectures
- Facility warning & response systems
- Virtual training systems
- Wide area restoration
- Next generation detection architectures

Detection Systems

- Microanalytical, microsensor systems
- Advanced Bioaerosol Triggers
- Sample capture & processing
- Stand-off detection

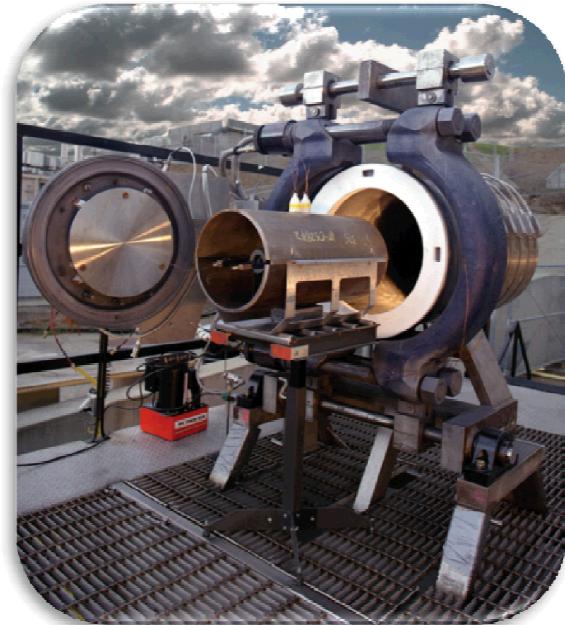
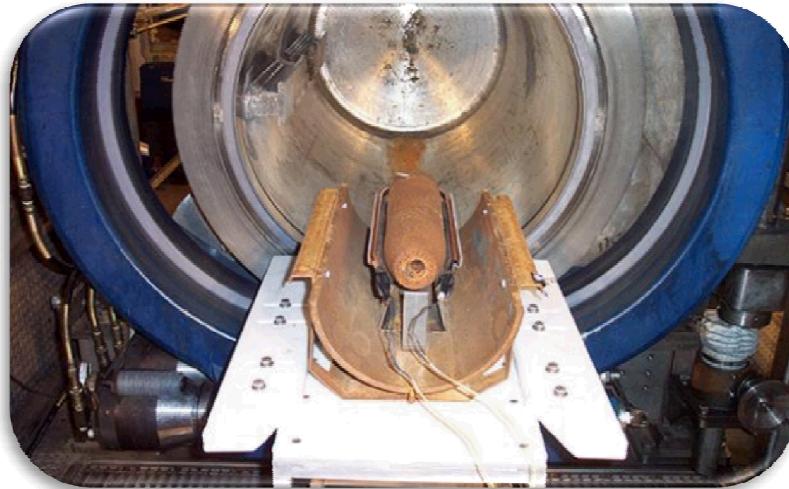
Decontamination & Restoration

- Decon foam
- Advanced decon formulations
- Sampling & sample handling
- Plume knockdown and neutralization
- Restoration tools
- Restoration standards

Systems Demonstrations & Deployments

- Warning systems
- Response systems
- Situational awareness
- Integration of military and civilian systems
- Rapid restoration of cities and military bases

Weapons Remediation Sub-Program



- Explosive Destruction System (EDS) remediates chemical warfare materiel in an environmentally sound manner
- Mobile system able to respond quickly
- Continually upgrading capability to meet the nation's remediation needs

Force Protection Systems Initiatives

Sub-Program



- Rapid Extended Defense System (REDS)



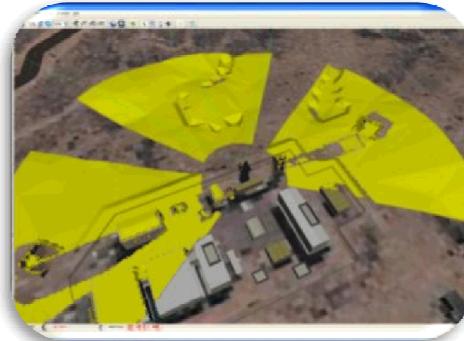
- Border Tunnel Technologies



- Lethal Denial Technologies



- Undersea / Unmanned Undersea Vehicles (UUV)



- Disruptive Technologies



- Explosive Ordnance Destruction (EOD) Technologies

In Conclusion...

- Sandia adapts and responds to changing adversary threats from:
 - Intruders / Terrorists
 - Chemical, biological, radiological, nuclear, and explosive weapons (CBRNE)
 - Cyber, energy, and infrastructure attackers
 - Forces of nature
- Our layered protection solutions integrate personnel, procedures, and technologies for optimal results
- Our continued focus is providing solutions for today, and research and development for next generation threats



Explosives detector



Portable chem/bio sensors



Sandia R&D Winners



Lab Directed Research and Development (LDRD)

Questions?



BACK UP SLIDES



Popular Myths about Sandia Labs



Myth 1: Sandia takes 20% “off the top” of every project

False: Sandia labor averages approximately 20% of total project funding, when serving as system designer and primary for installation

Full Cost Recovery
vs.
For Profit Model

Myth 2: Sandia labor rates are high

False: Sandia labor rates are comparable with other large engineering firms

Myth 3: Sandia’s travel rates are high

False: Sandia’s travel load is 13% to offset internal costs

Myth 4: Sandia “gold plates” the design

False: All designs are fully vetted and approved by customer during design phase (35%, 65%, 95%) Cost savings while ensuring system effectiveness is always top priority

Myth 5: Sandia’s procurement/contracting costs are high

False: Sandia’s procurement and contracting load is 16%

All loads are waived after first \$1 million



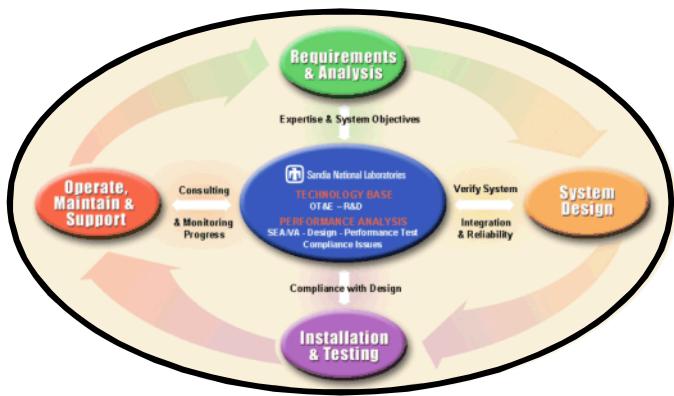
Major Sponsors

- **Combatant Commands**
 - US European Command (USEUCOM)
 - US Strategic Command (USSTRATCOM)
 - US Northern Command (NORTHCOM)/North American Aerospace Defense Command (NORAD)
- **Air Force**
 - Headquarters Air Force (A7S)
 - Air force Security Forces Center (AFSFC)
 - Air Force Global Strike Command (AFGSC)
 - United States Air Forces in Europe (USAFE)
 - Air Force Space Command (AFSPC)
 - Air Combat Command (ACC)
 - Air Force Materiel Command (AFMC)
 - Air Force Nuclear Weapons Center (AFNWC)
 - Electronic Systems Center (ESC)
- **Navy (SSP) –SWFLANT/SWFPAc**
- **Missile Defense Agency (MDA)**
 - United States Army Strategic Command Space and Missile Defense Command (ARSTRAT/SMDC)
- **Defense Threat Reduction Agency (DTRA)**
- **Office of the Deputy Assistant to The Secretary of Defense for Nuclear Matters (DATSD-NM)**
- **Pentagon Force Protection Agency (PFPA)**

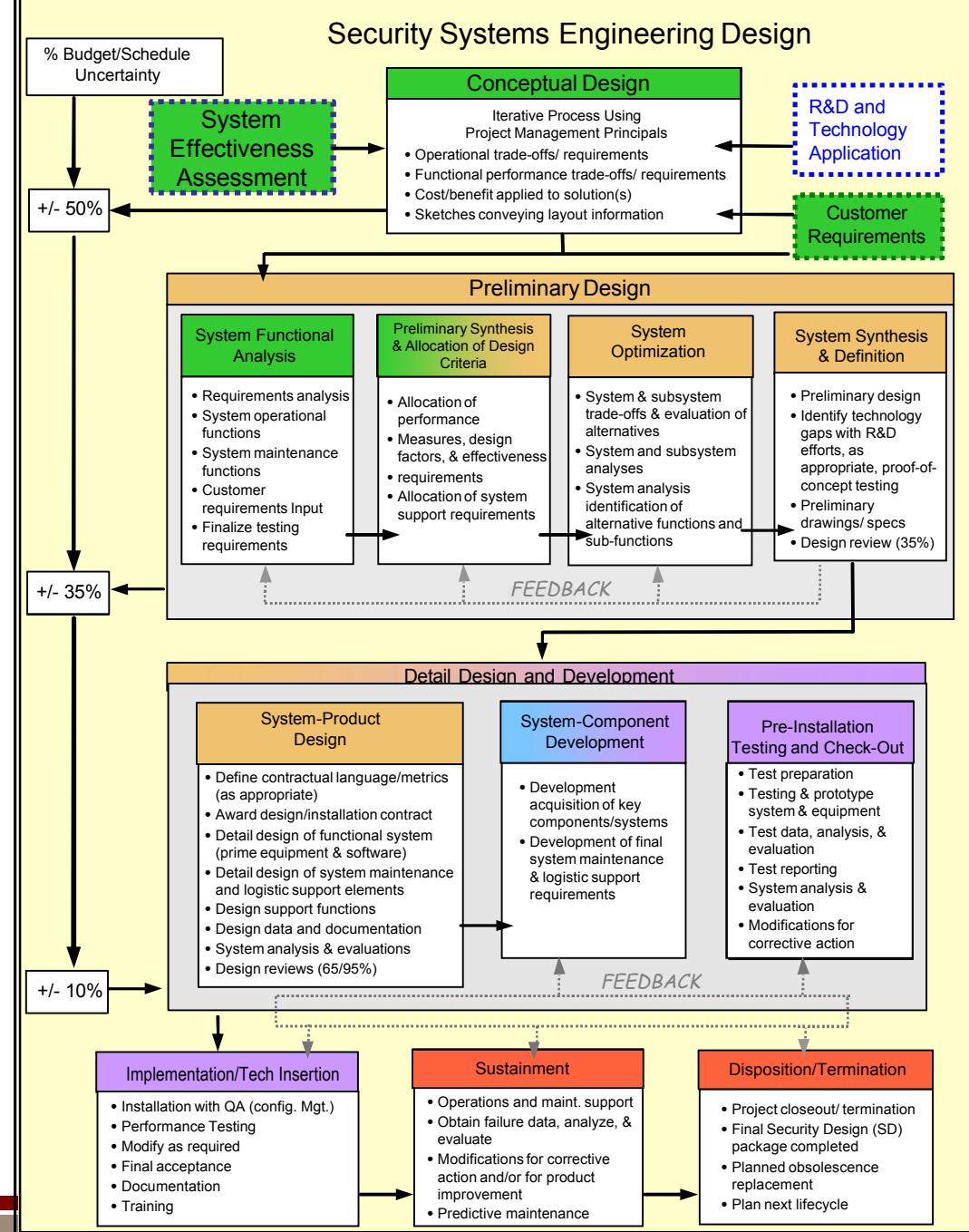


Sponsors recognize unique capabilities of Sandia not replicated in private industry

Mapping the Systems Life-Cycle Process



Proven, Standardized Approach to Mitigate Project Risk



Key FFRDC Attributes*

- 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
- 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
- Is operated, managed, and/or administered as an autonomous organization or as an identifiable separate operating unit of a parent organization
- 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

* Abridged definition from the Federal Acquisition Regulation