

Supply Chain Management

Jodi Maheras
Director, Supply Chain

Sandia National Laboratories



Sandia's History



THE WHITE HOUSE
WASHINGTON

May 13, 1949

Dear Mr. Wilson:

I am informed that the Atomic Energy Commission intends to ask that the Bell Telephone Laboratories accept under contract the direction of the Sandia Laboratory at Albuquerque, New Mexico.

This operation, which is a vital segment of the atomic weapons program, is of extreme importance and urgency in the national defense, and should have the best possible technical direction.

I hope that after you have heard more in detail from the Atomic Energy Commission, your organization will find it possible to undertake this task. In my opinion you have here an opportunity to render an exceptional service in the national interest.

I am writing a similar note direct to Dr. O. E. Buckley.

Very sincerely yours,

Mr. Leroy A. Wilson,
President,
American Telephone and Telegraph Company,
195 Broadway,
New York 7, N. Y.



Sandia's Governance History

Sandia Corporation

- AT&T: 1949 – 1993
- Martin Marietta: 1993–1995
- Lockheed Martin: 1995–present
- Existing contract expired: Sept. 30, 2012
- Multiple extensions through: April 30, 2016
- Extended to April 30, 2017



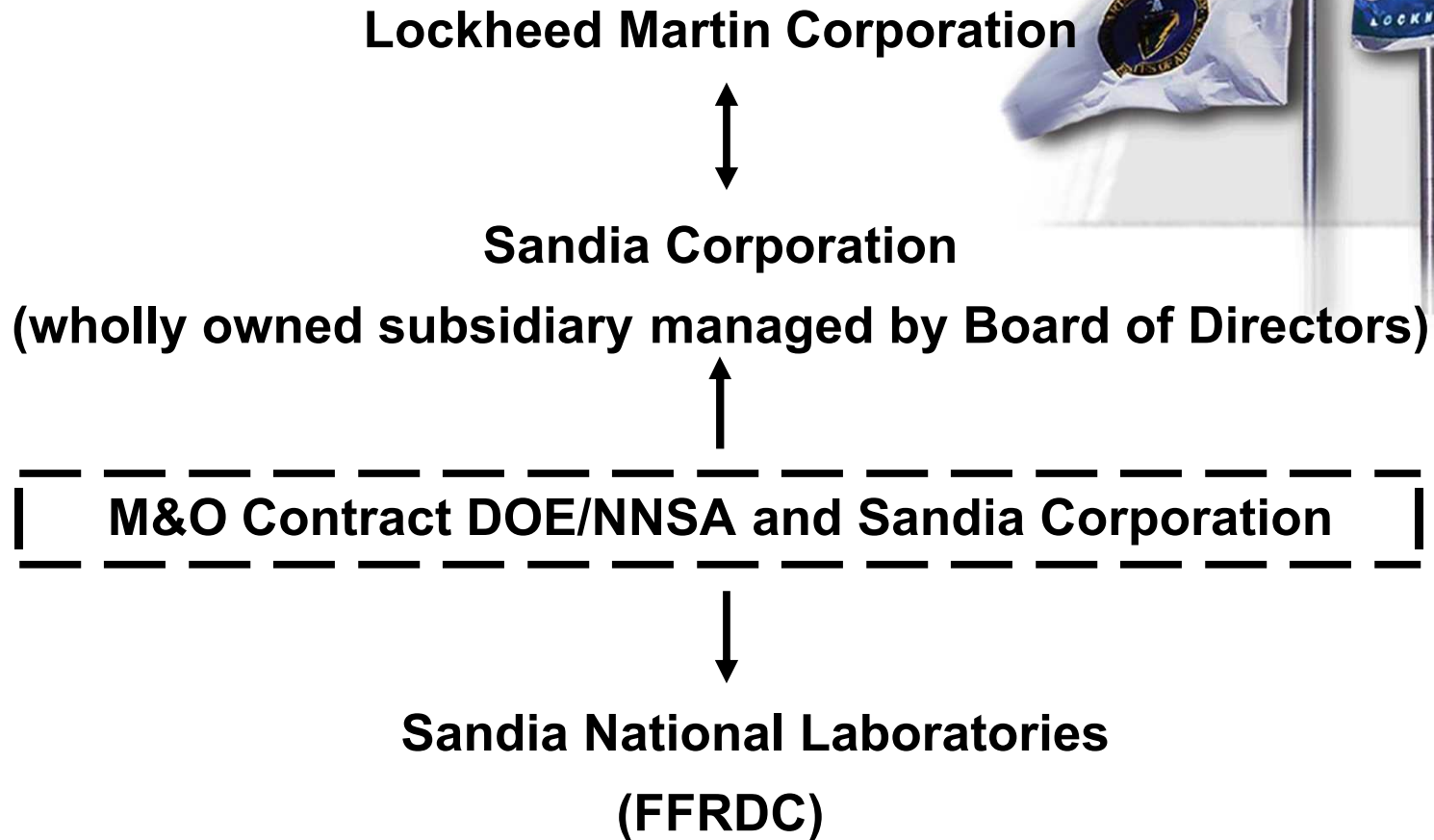
Government owned, contractor operated



Federally funded
research and development center



Sandia's Governance Structure



Sandia's Sites



Albuquerque, New Mexico



Livermore, California



Kauai, Hawaii



*Waste Isolation Pilot Plant,
Carlsbad, New Mexico*



*Pantex Plant,
Amarillo, Texas*



Tonopah, Nevada



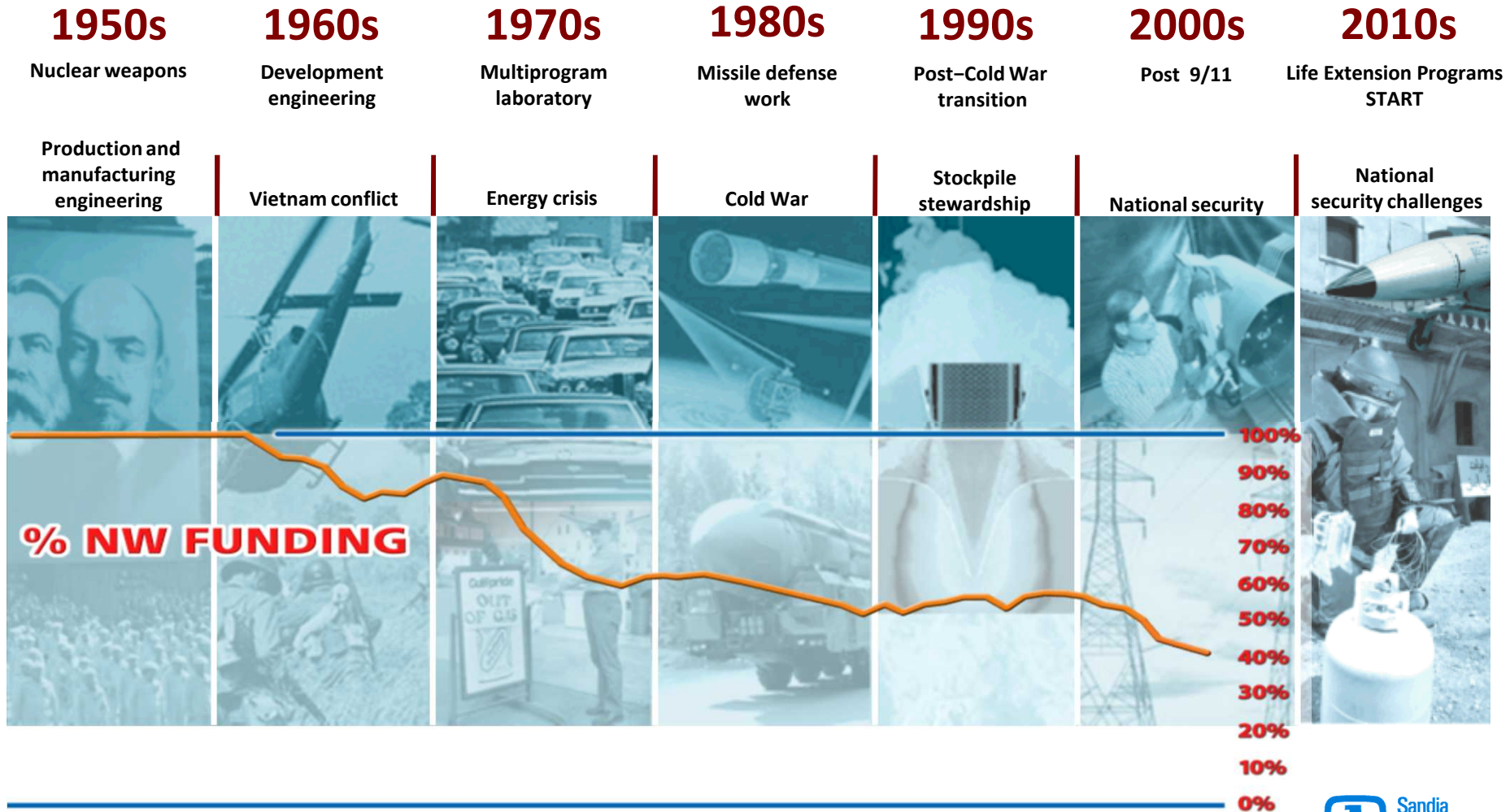
Our Business: National Security



- **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



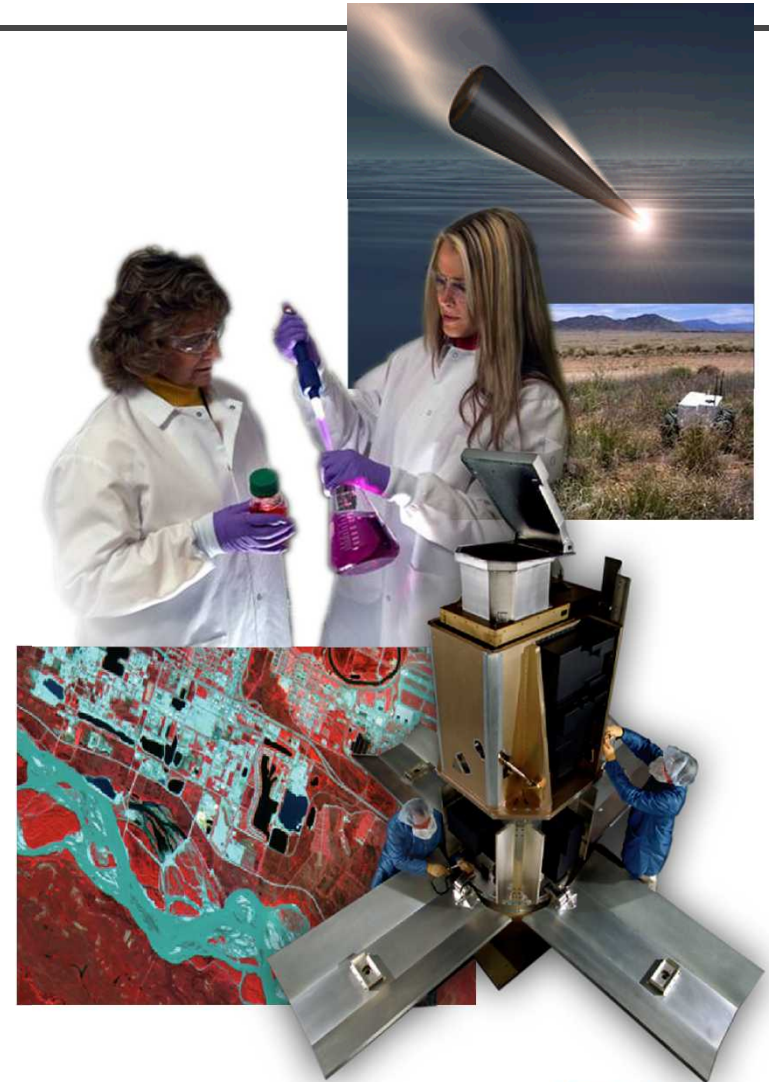
The Evolution of Our Mission



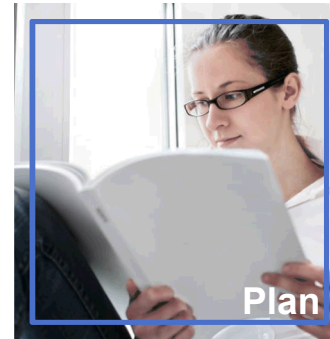
Technologies for National Security



- **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



Supply Chain Lifecycle





1) Plan



How



What



- \$110M & 100K Purchase Orders (PO)
- 1/5th the Process Cost vs. Standard PO



- \$70M & 80K Transactions
- 1,500 Card Holders



- \$800M & 40K Transactions
- 80 Buyers





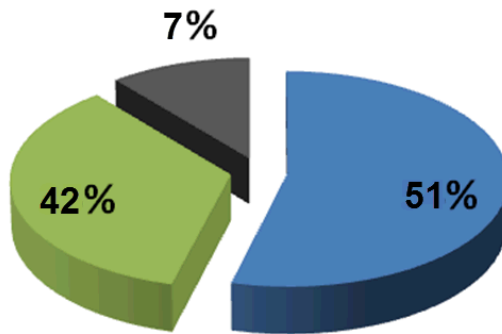
2) Acquire



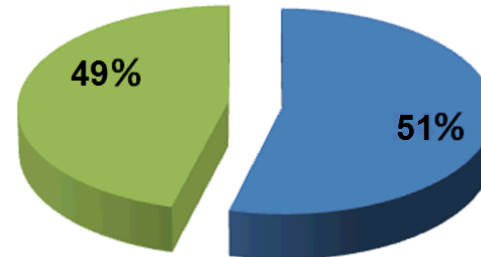
How



What



- Services
- Products
- Integrated Contractor Orders



- Small Business
- Large Business





3) Receive & Move



- 7,000 Outbound Shipments



- 1.0M Incoming and 120K Outbound Items
- 1.4M Internal Items



- 430K Inbound Packages



- 430K Packages Delivered to 400 Buildings
- 72K Items Moved
- 3K Hazardous Moves
- 175 Tours





4) Manage



Asset Management

- 80K Trackable Assets, \$1.5B Value



Fleet Management & Maintenance

- 800 Vehicles & 600 Carts
- 1,400 Pieces of Equipment



Corporate Storage

- 140K ft² of Storage Space





5) Dispose



Asset Disposition

- Includes high risk destruction, recycle, donation, transfers, negotiated sales, auction, and abandonment in place

Reutilization & Disposal

- 50K Items Processed
- 700 Items Reapplied & \$3M Cost Avoidance

Destruction

- Sensitive Documents and Material
- 10K Bags





HOW WE MANAGE OUR SUPPLY CHAIN

HOW WE MANAGE OUR SUPPLY CHAIN



CREATE THE CUSTOMER EXPERIENCE that is excellent, predictable, and repeatable.



BECOME THE CENTER OF CHOICE by attracting and growing professionals w/expert characteristics and competencies.

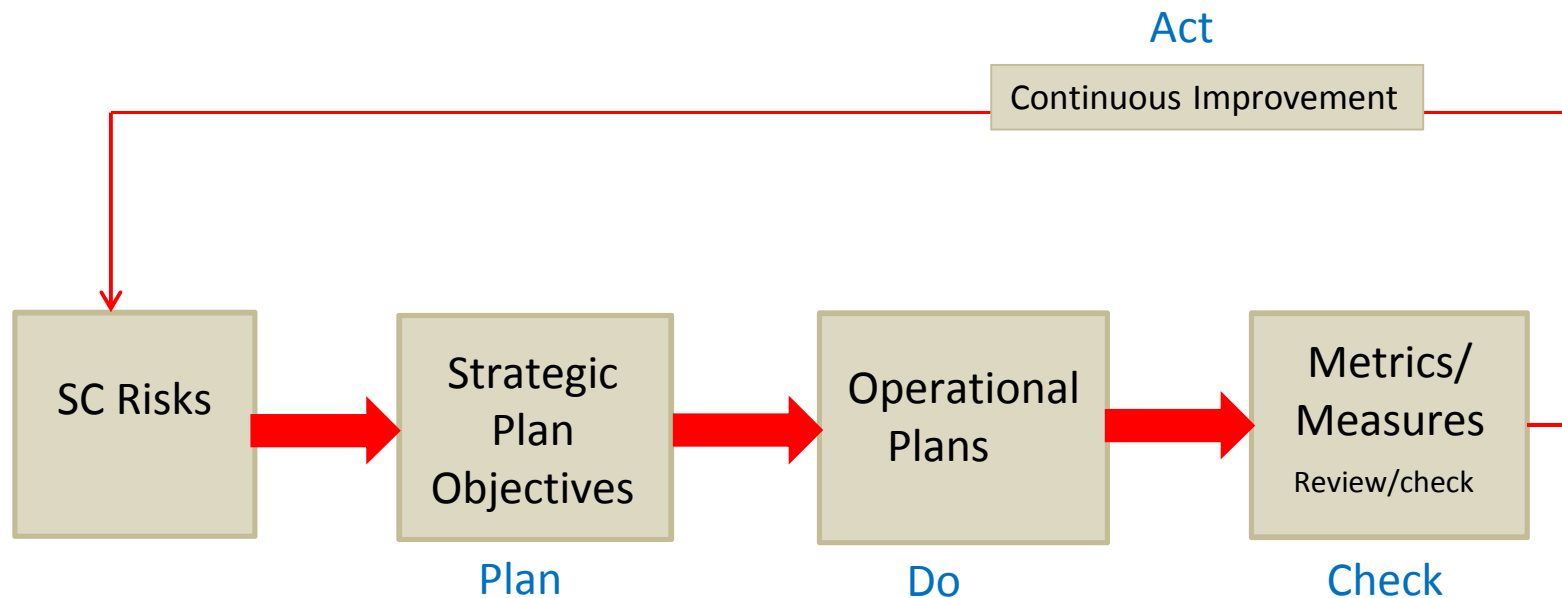


BE THE INNOVATOR of efficient and sustainable solutions for service delivery, life cycle management, and safety performance.



BUILD CONFIDENCE with stakeholders, customers, and members of the workforce by using our management assurance system to manage risk and improve quality.

HOW WE MANAGE OUR SUPPLY CHAIN





GOVERNING

PRIME
CONTRACT

LAWS &
REGULATIONS

CORPORATE
POLICY
SYSTEM



PLAN

RISK
EVALUATION

STRATEGIC
PLANNING

- INTUITIVE SC SOLUTIONS
- CUSTOMER SERVICE
- CENTER OF CHOICE
- BE THE INNOVATOR
- BUILD CONFIDENCE

OPERATIONAL
PLANNING

WORK
PLANNING &
CONTROL

DO

PROCUREMENT

- POLICY
- PURCHASING
- JIT

ASSURANCE

- ISO
- METRICS
- S/CI
- SUPPLIER QUALITY
- IT
- P-CARD
- CONT. IMPROVEMENT
- SBUD

LOGISTICS

- SHIPPING
- RECEIVING
- PROPERTY
- FLEET

E S & H HEALTH/SAFETY CENTER PLAN

CHECK



ASSESSMENTS

CUSTOMER
FEEDBACK

METRICS/
RESULTS

MANAGEMENT
REVIEW

Non-
CONFORMING
PRODUCT

BENCHMARKING

ACT

CONTINUAL
IMPROVEMENT

PREVENTIVE
ACTION

CORRECTIVE
ACTIONS

INFORMATION
TECHNOLOGY



KNOWLEDGE
MANAGEMENT

EMPLOYEE
DEVELOPMENT
& TRAINING

ENABLING

Supply Chain Risks

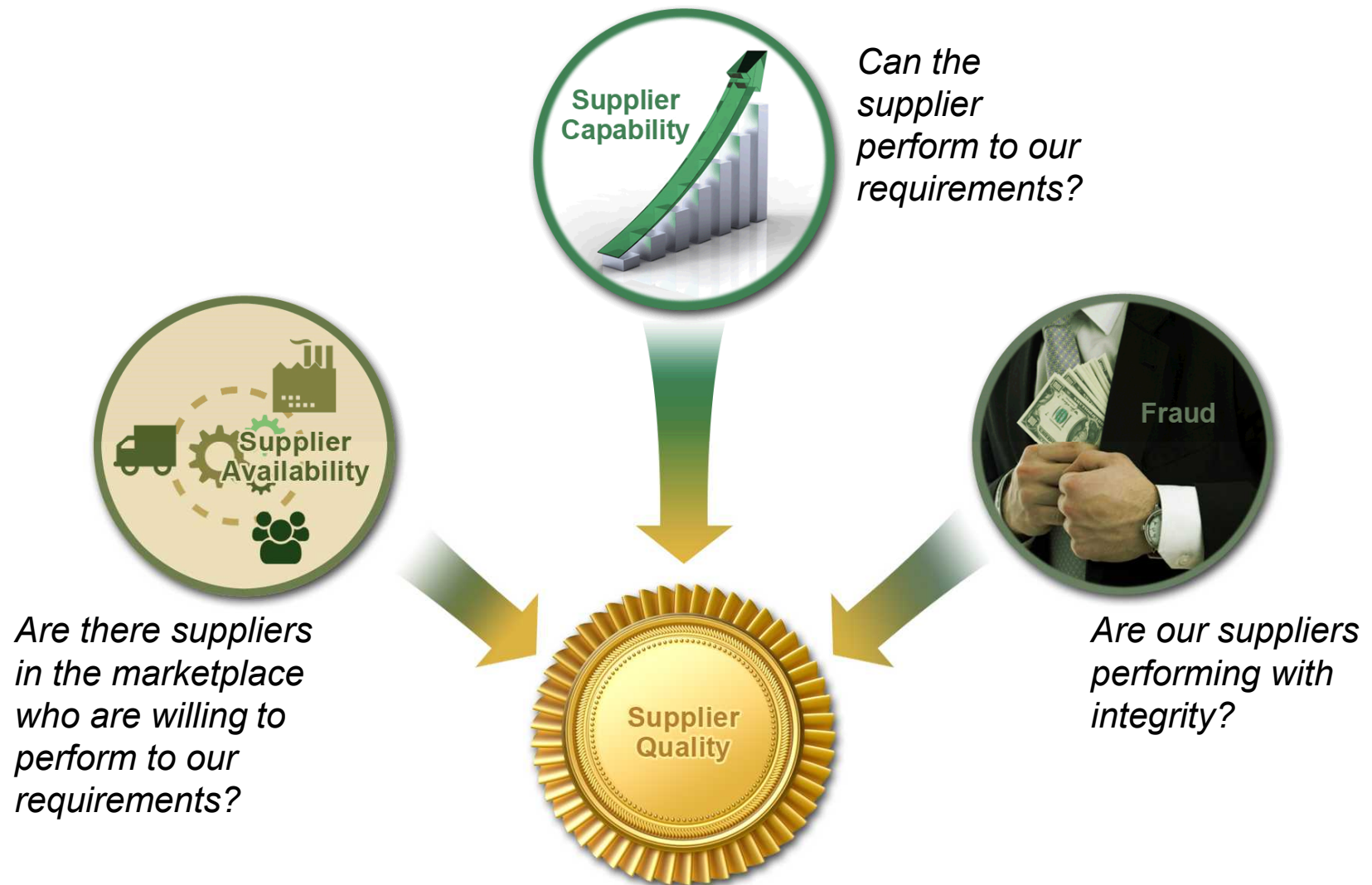


Supplier Quality

Operational Excellence



SUPPLIER QUALITY RISKS



OPERATIONAL EXCELLENCE



OPERATIONAL EXCELLENCE



Challenges

- Diverse operations and workforce
- Complex processes/requirements
- Multiple priorities and governing bodies

OPERATIONAL EXCELLENCE



Mitigation Strategies

- Focus on safety skill development
- Reward Safe Behaviors
- Brilliant at the basics
- Efficiencies/simplification
- Prioritize and focus