



# Overview of the Patton Alliance

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• Sandia is a multiprogram laboratory operated by Sandia Corporation, a Lockheed Martin Company, for the United States Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000. SAND -2006-xxxxx



# Preparing Analytic Tools & Technology for an Operational Network

**Judy Moore, Ph.D.**, Program Manager  
**Rolf Carlson, Ph.D.**, Technical Lead

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## Briefing Outline:

- Problem Statement
- Background of the PATTON Alliance
- PATTON Structure and Activities
- Alignment with Sponsor Goals
- Opportunities for Partnering



## Problem Statement

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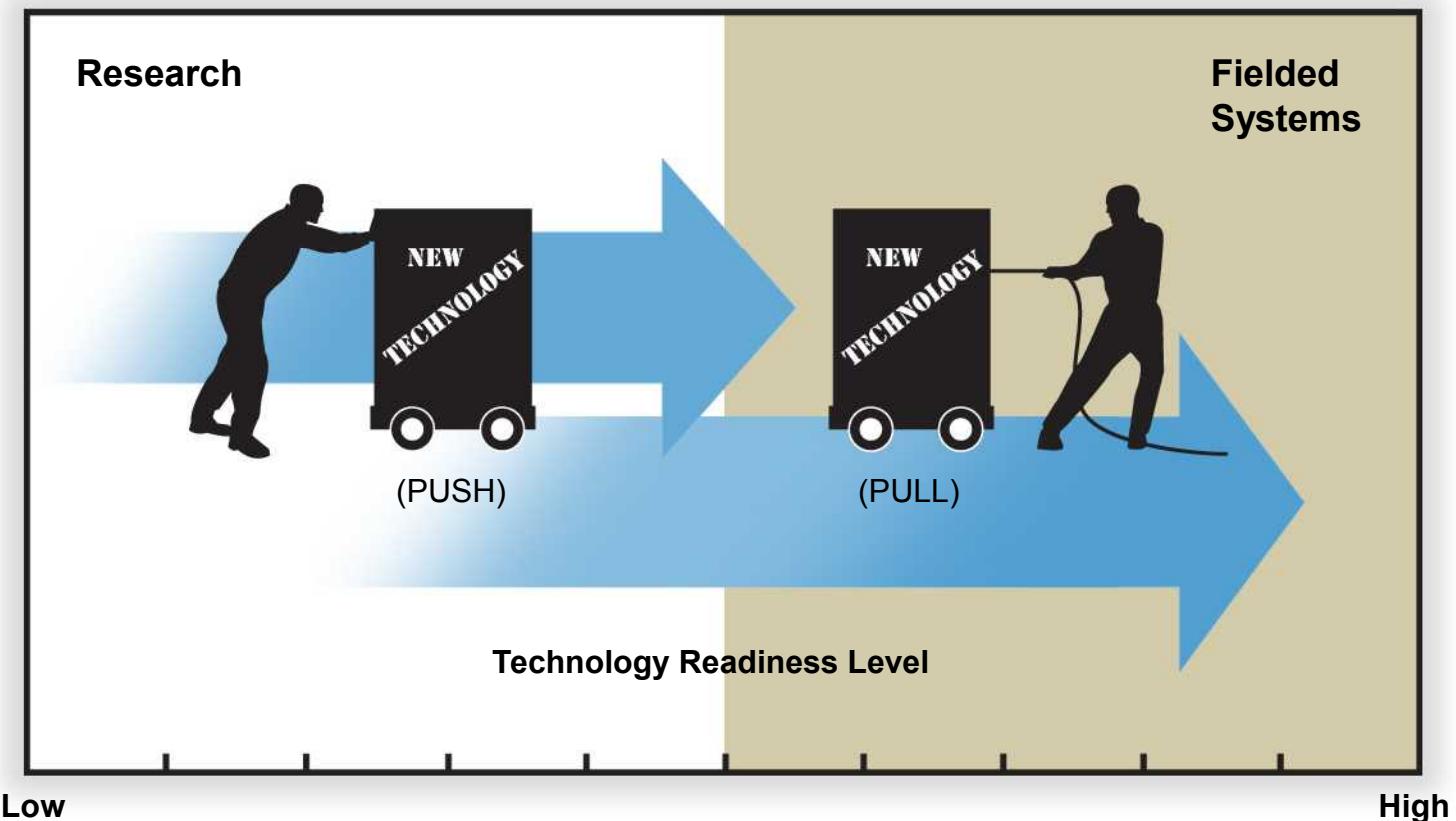
# Purpose of the Meeting

- Communicate the goals and activities of the PATTON Alliance
- Engage the Advisory Group to identify technology providers and users appropriate for the Alliance

# Problem Statement

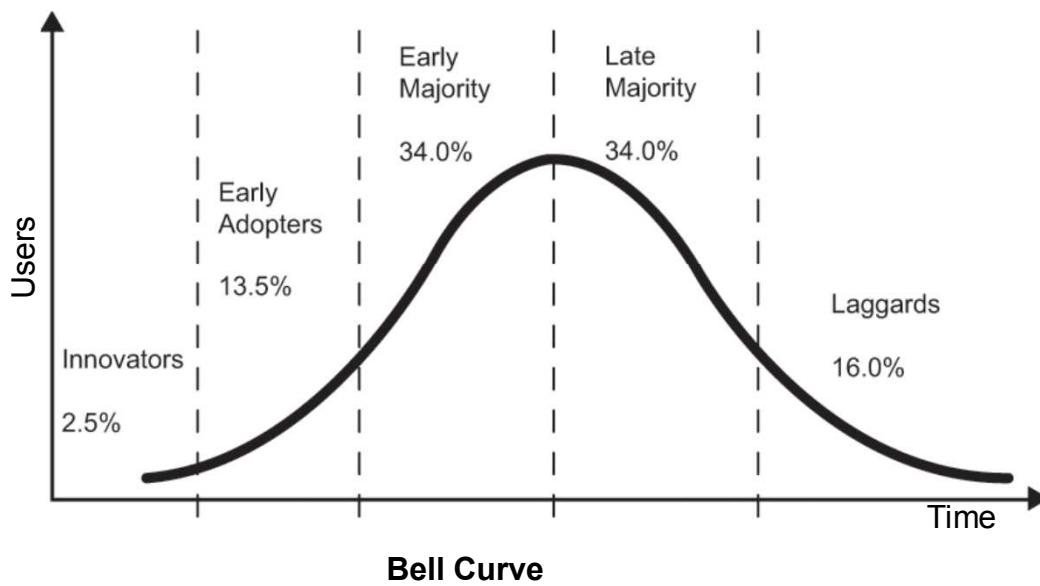
- Funding for
  - the idea or basic R&D behind the software,
  - the development of the software,
- is more available than the resources to place it in operational environments.
- Much government-funded software is never fielded for the purpose it was intended for.
- This is called the “Valley of Death” because otherwise successful technologies are never deployed.

# Approaches to Crossing the Valley of Death

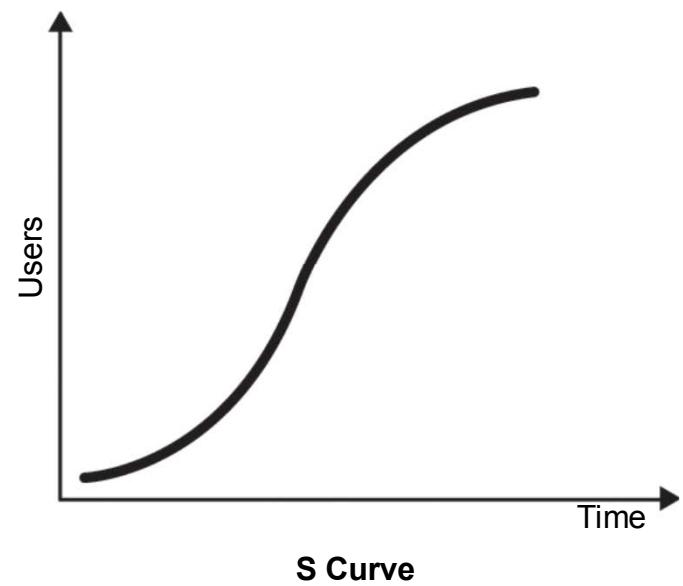


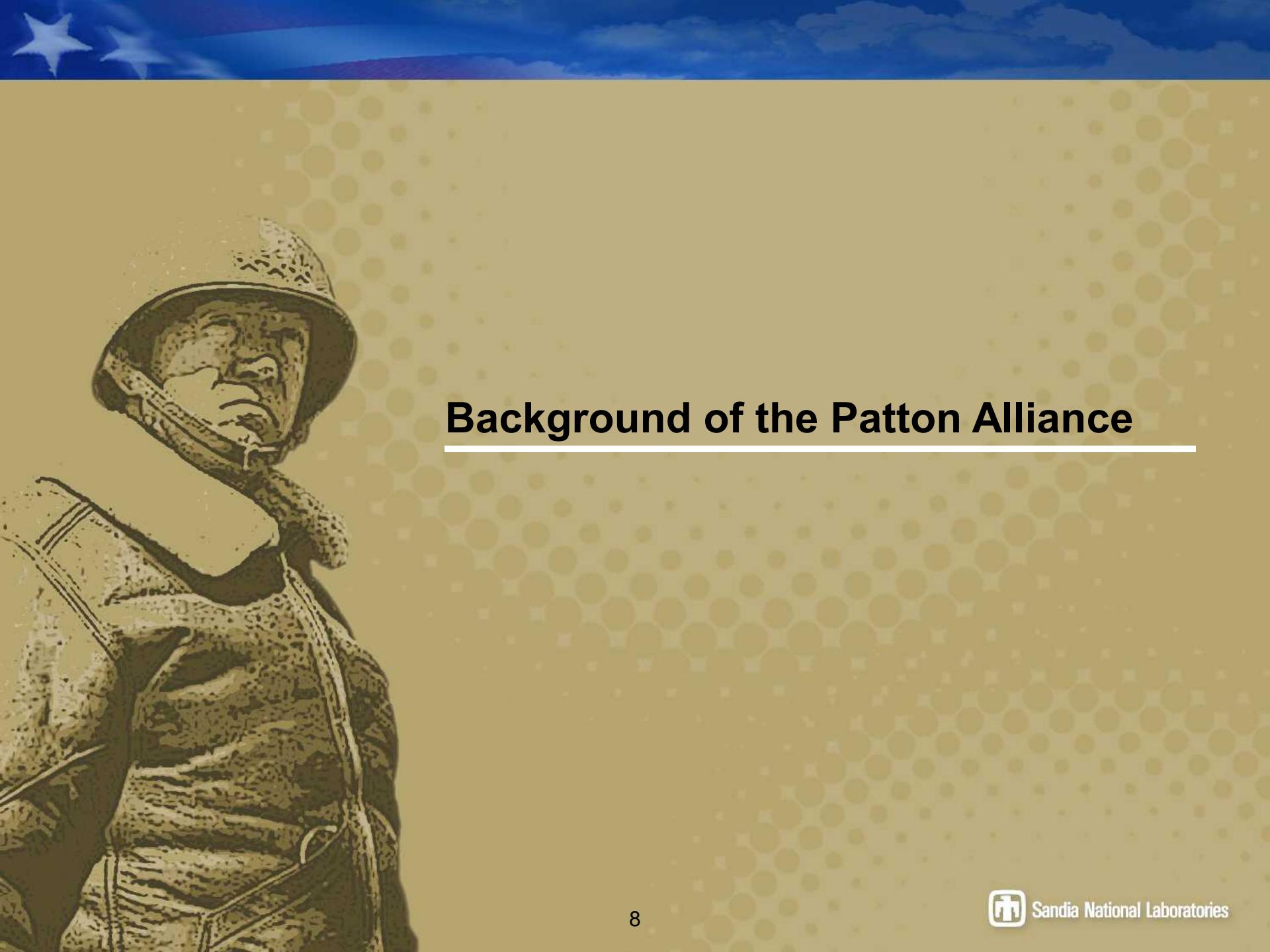
# Innovation Adoption and Technology Diffusion

**Adoption/Innovation Curve**



**Cumulative Adoption of Technology**





## **Background of the Patton Alliance**

# PATTON Mission

- Identify and prioritize technologies ready to move across the Valley of Death.
- Eliminate roadblocks to technology maturation and deployment.
- Align available technologies with government agency requirements.

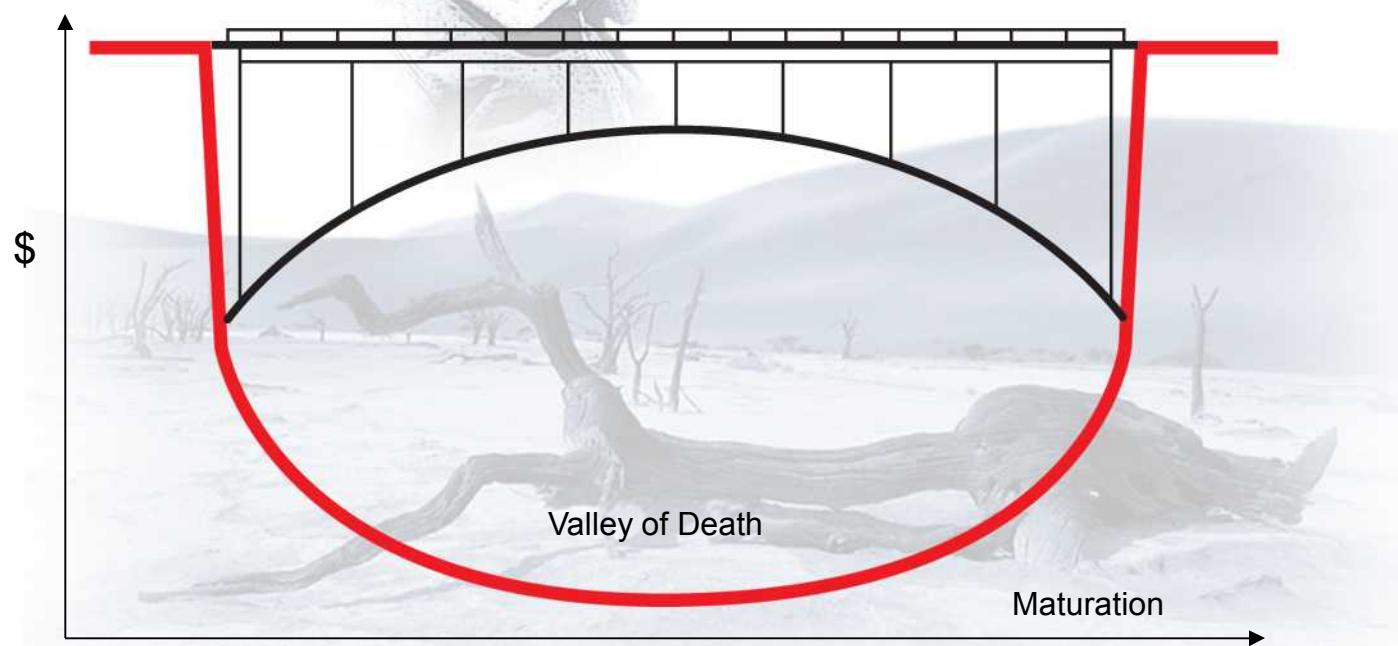
# PATTON Stakeholders

## Software Providers:

Academic  
Commercial  
Government  
Agencies

## End Users:

Government



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# Patton Alliance Strategy

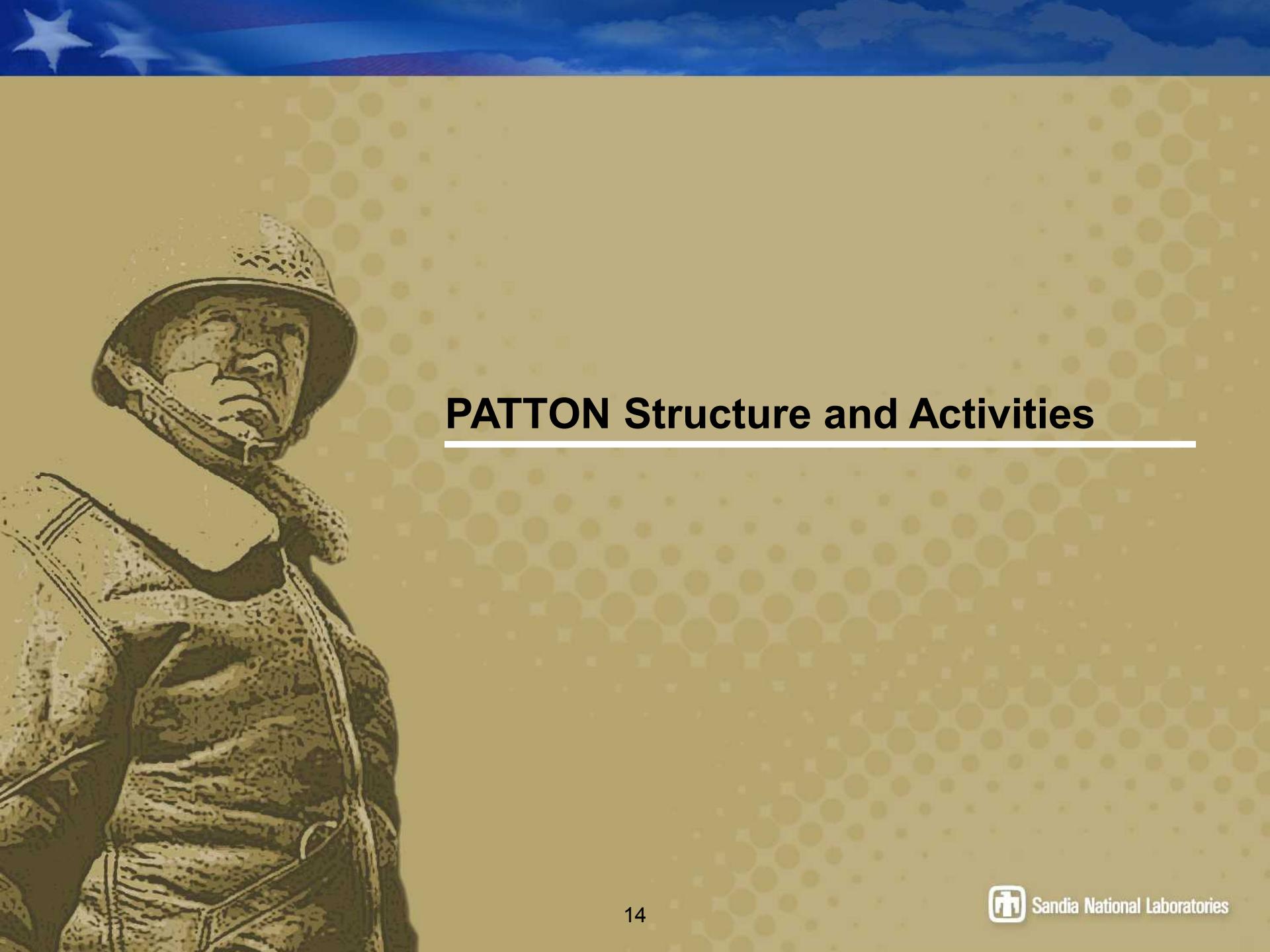
- To identify and prioritize technologies
  - Initiate an ongoing process to identify and prioritize technologies through a technology catalog that is web and security enabled
- To eliminate roadblocks to maturation and deployment
  - Provide visibility to candidate technologies
  - Use our engineering process to streamline the development process from prototype to adoption
  - Coordinate the end-user's requirements and funding with the developer's capabilities in order to accelerate adoption
- Align with agency requirements
  - Establish engineering process that facilitates technology maturation towards accreditation
  - Track technologies and requirements for future applications

# Problem Background

- Advanced Technology Concepts Demonstration (DoD)  
Survey of technologies may not meet specific end-user needs
- NASA  
Clearinghouse established for technologies but had limited outreach
- Sandia Technology Transfer  
Limited outreach in technology brokering area
- ARP (DOE)  
Survey of national laboratories and brokering requirements but limited in scope

# Initial Patton Objectives

- Aggregate an ongoing catalog of technology
- Develop an unbiased technology evaluation, funding, and maturation process
- Establish an Internet accessible website
- Host an annual PATTON conference
- Identify fielded systems and secure requirements
- Match technologies with deployment requirements
- Harden the technologies to meet the requirements



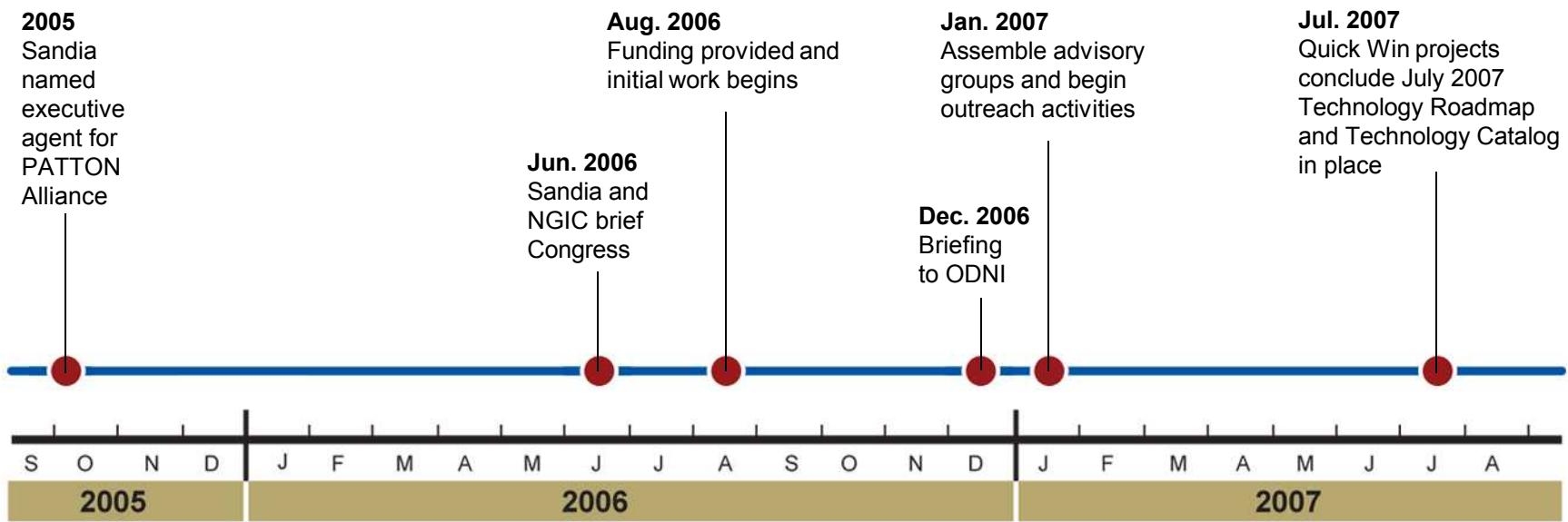
## **PATTON Structure and Activities**

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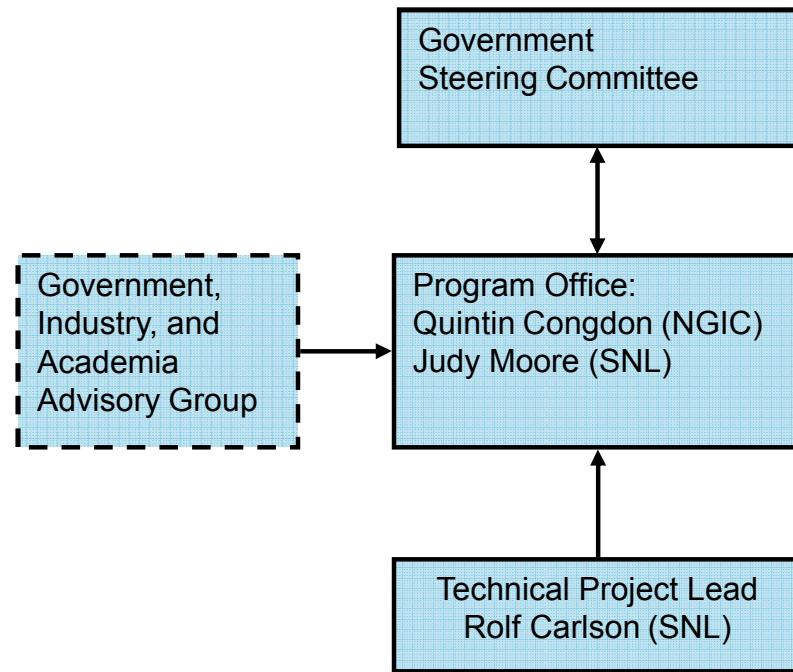
# PATTON Alliance Program Elements

- Program Office
  - Serves as point of contact for program activities. Administers ongoing projects and day-to-day activities
- Engineering Process
  - Assesses technologies using a systematic approach
- Engineering Tech Base
  - Provides infrastructure to support technology evaluation process
- Technology Brokering
  - Provides outreach and communication with stakeholder communities
- Quick Win Projects
  - Provides examples and lessons learned inputs in program development

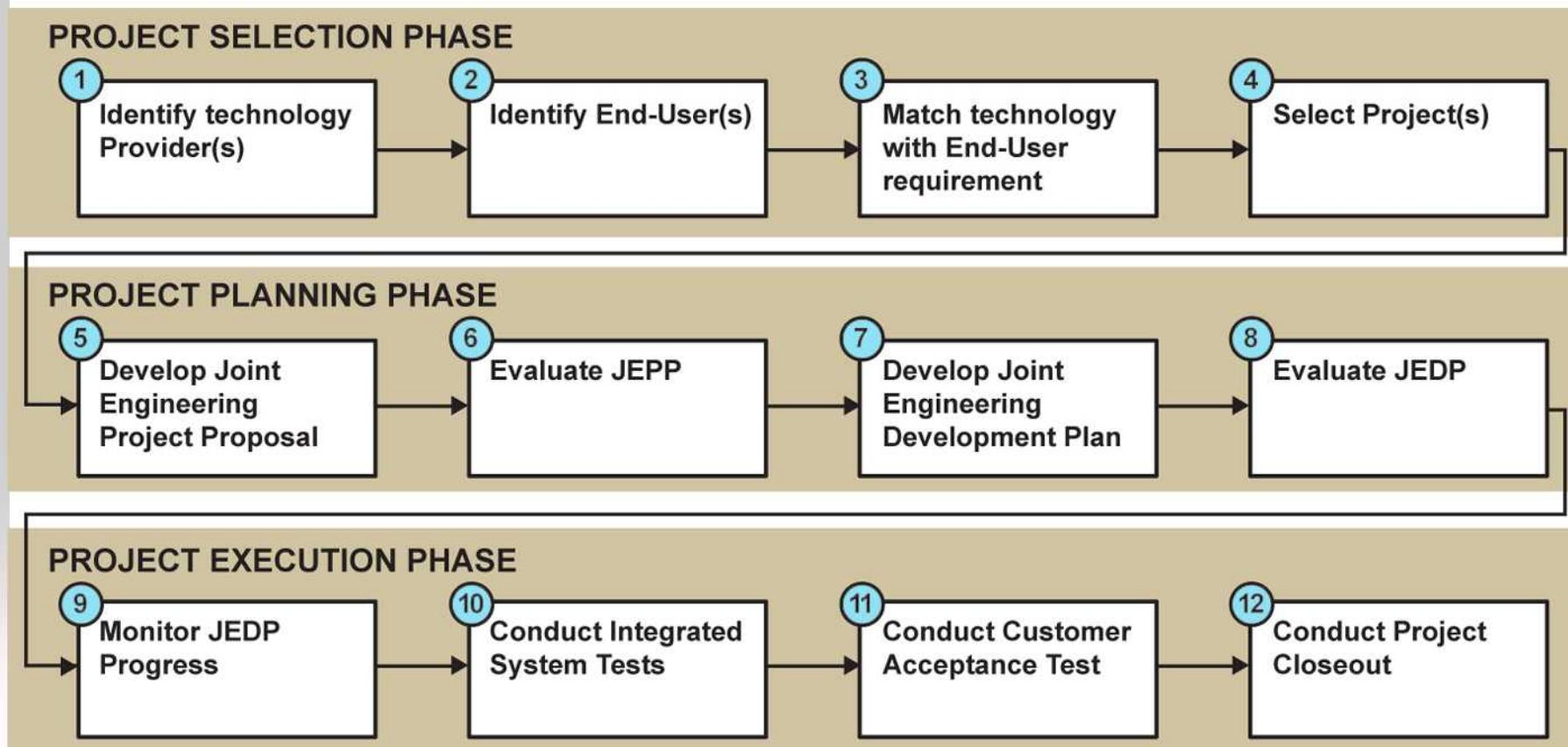
# Timeline of the PATTON Alliance



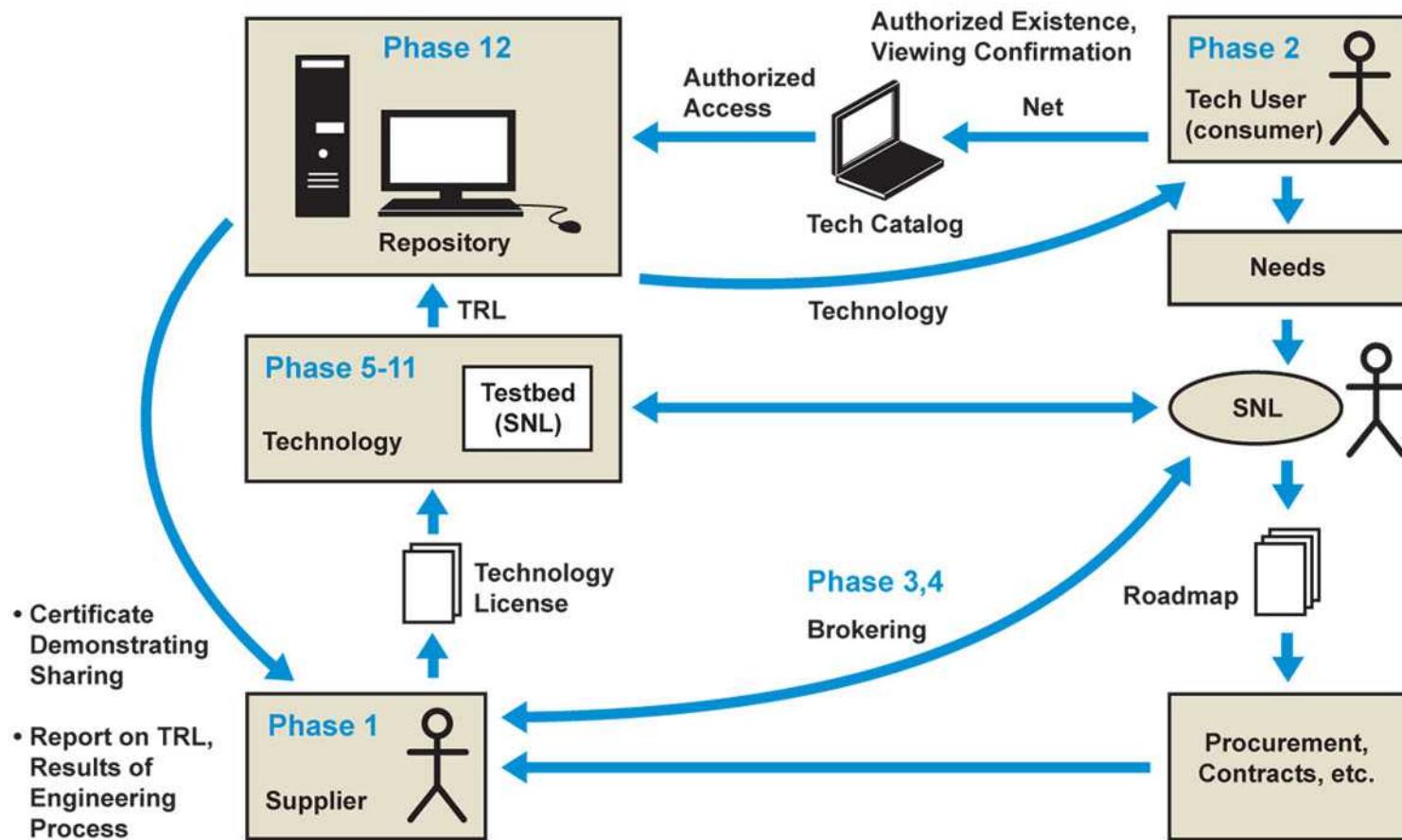
# Program Office Structure



# Sandia's Engineering Process



# Need-to-Share and the Engineering Process

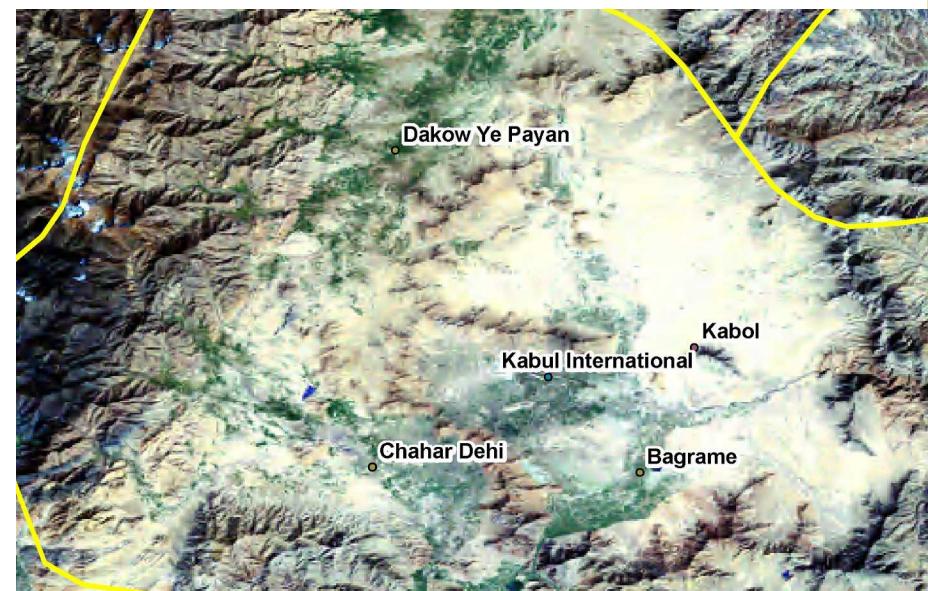
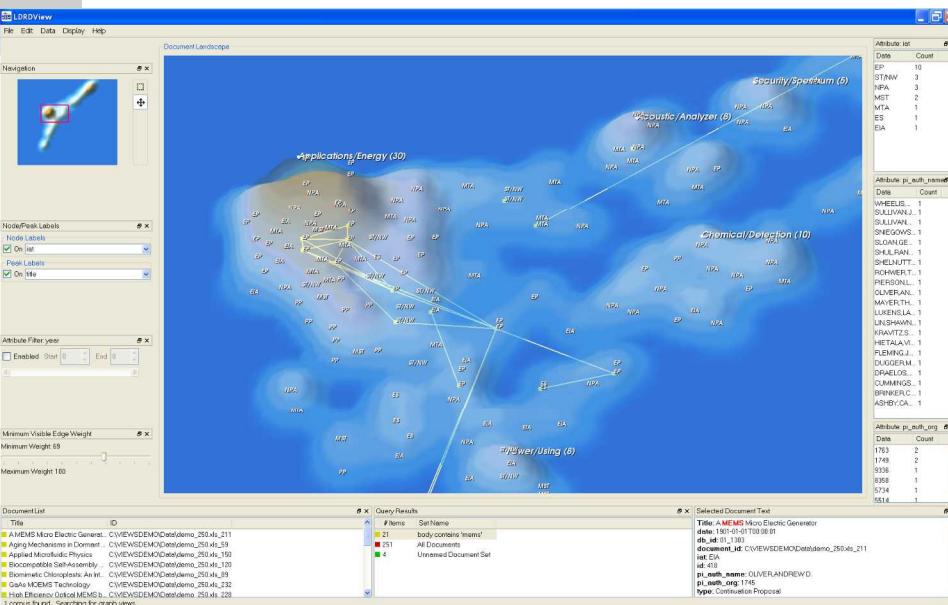


# Quick Win Projects

- These projects were initiated by NGIC as an early way to show value for the PATTON Alliance.  
They facilitate by:
  - Honing the engineering and brokering processes
  - Increasing the maturity of our approach through the experience on the early winds
  - Providing concrete examples to communicate to stakeholders.

# ThreatView & Gazetteer

- These projects were initiated by NGIC as an early way to show value for the PATTON Alliance.





# Technology Brokering Includes

1. Consumers
2. Technology Producers
3. Sponsors and Other Federal Entities

# PATTON Outreach Activities

## OBTAI N STRATEGIC ADVISEMENT

### Assemble advisory group

- Hold meeting of advisory group (1.4.5)

Objective: Advisory group develops the contacts and defines the audience for the following activities:

- 1.4.2. Education Awareness/Brokering
- 1.4.3. Tech Provider Outreach
- 1.4.4. Tech Consumer Outreach

## DEVELO P STRATEGY

### 1.4.2 Education Awareness/Brokering

Objective: Take the PATTON message to customers, providers, stakeholders, and interested agencies

Media: Website, Sharepoint General Briefing. Targeted communications based on specific requirements

## EXEC UTE STRATEGY

### 1.4.3 Tech Provider Outreach

Objective: Identify and contact interested providers to determine candidate technologies for 2.1 Technology Inventory

Media: Website, Sharepoint General Briefing. Targeted communications based on specific requirements

### 1.4.4. Tech Consumer Outreach

Objective: Identify and contact interested gov't agencies (end users) to determine technology needs. Interagency requirements

Media: Survey, descriptive material, briefings

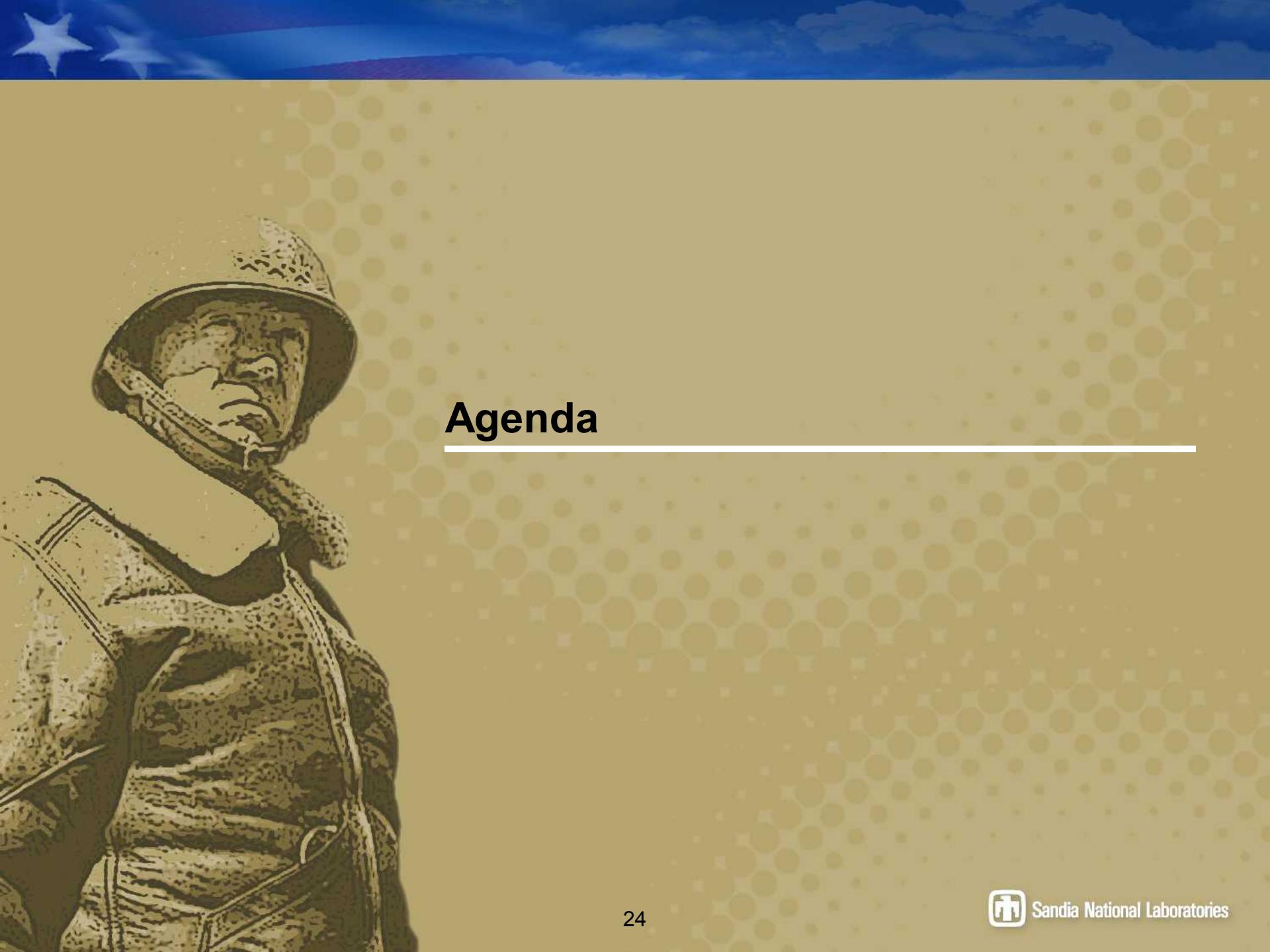
## PRODUCE DELIVERABLES

### 2.1 Technology Inventory

Database Website

### 1.4.6 Technology Needs Assessment

Document



## Agenda

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# Today's Agenda