

Overview of the Patton Alliance

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



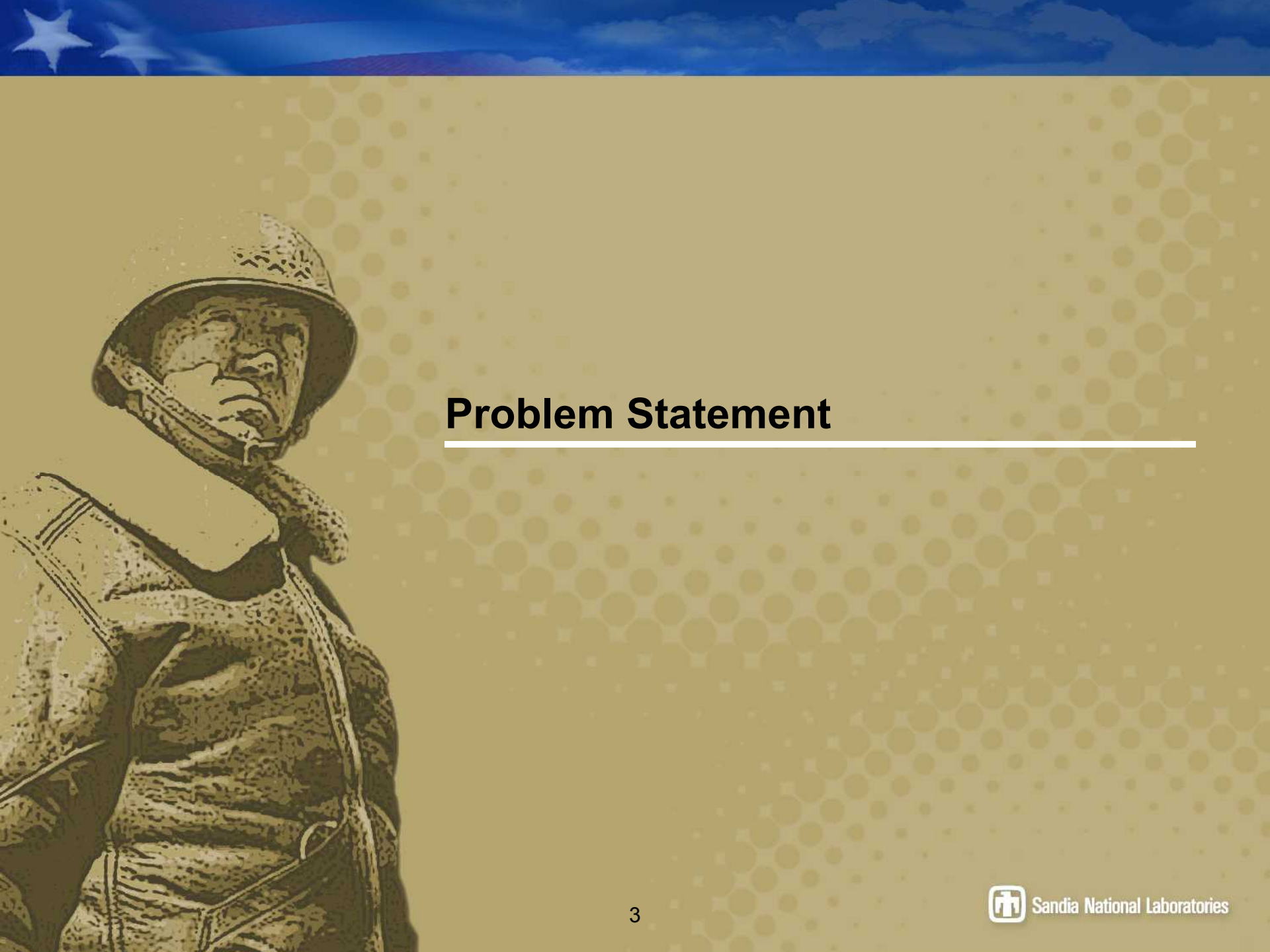


Preparing Analytic Tools & Technology for an Operational Network

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

Briefing Outline:

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



Problem Statement

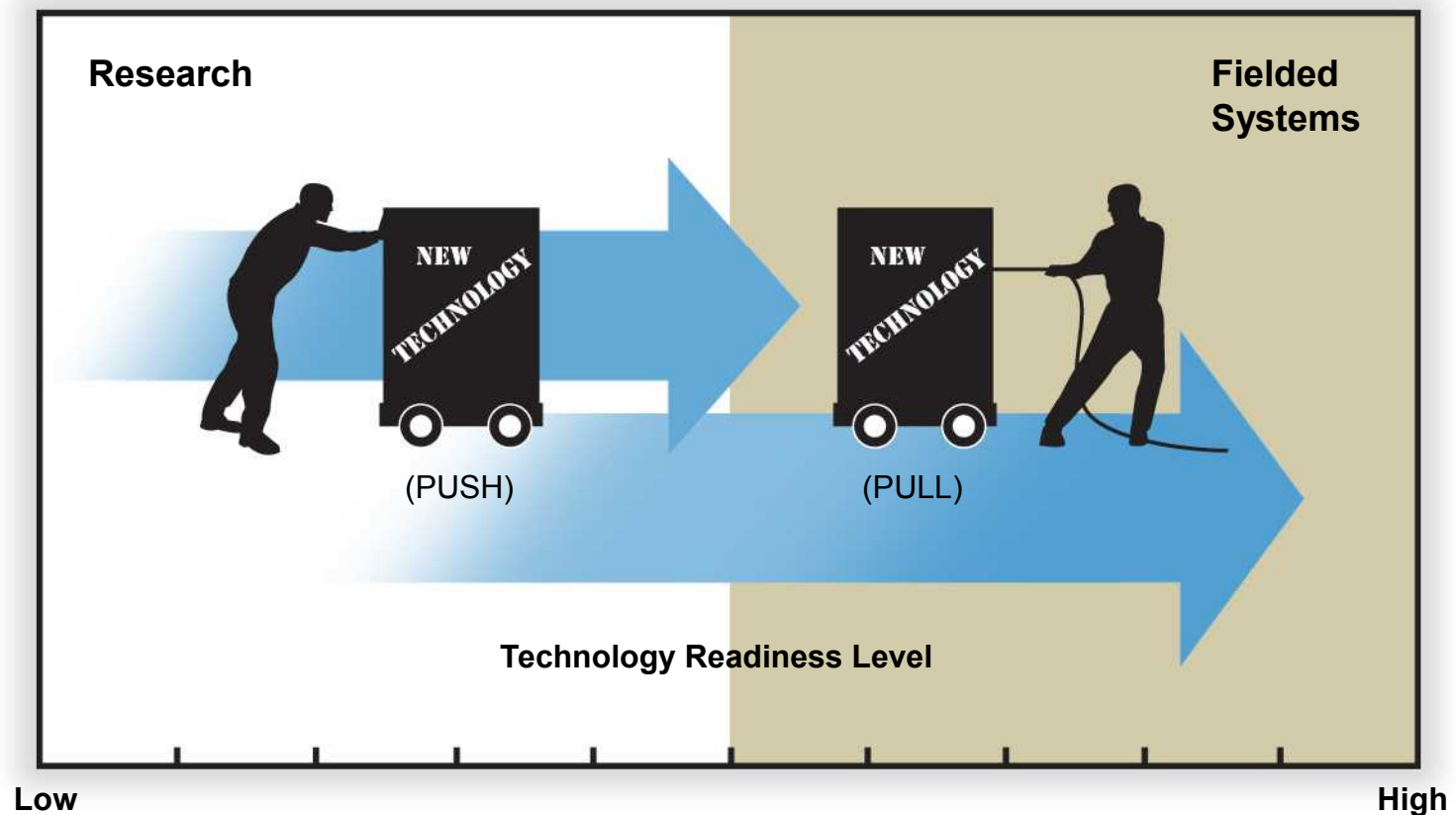
Purpose of the Meeting

- 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

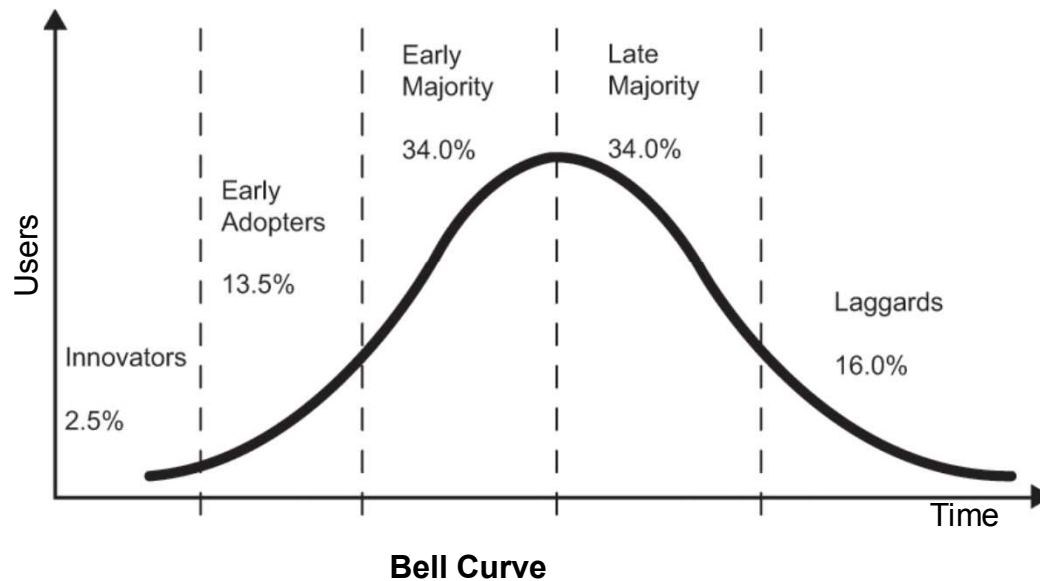
- Funding for
 - the idea or basic R&D behind the software,
 - the development of the software,is more available than the resources to place it in operational environments.
- Much government-funded software is never fielded for the purpose it was intended for.
- This is called the “Valley of Death” because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

Approaches to Crossing the Valley of Death

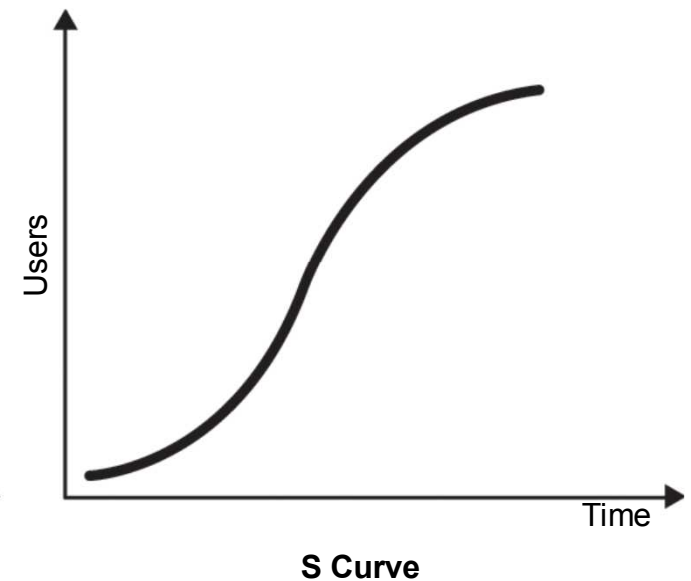


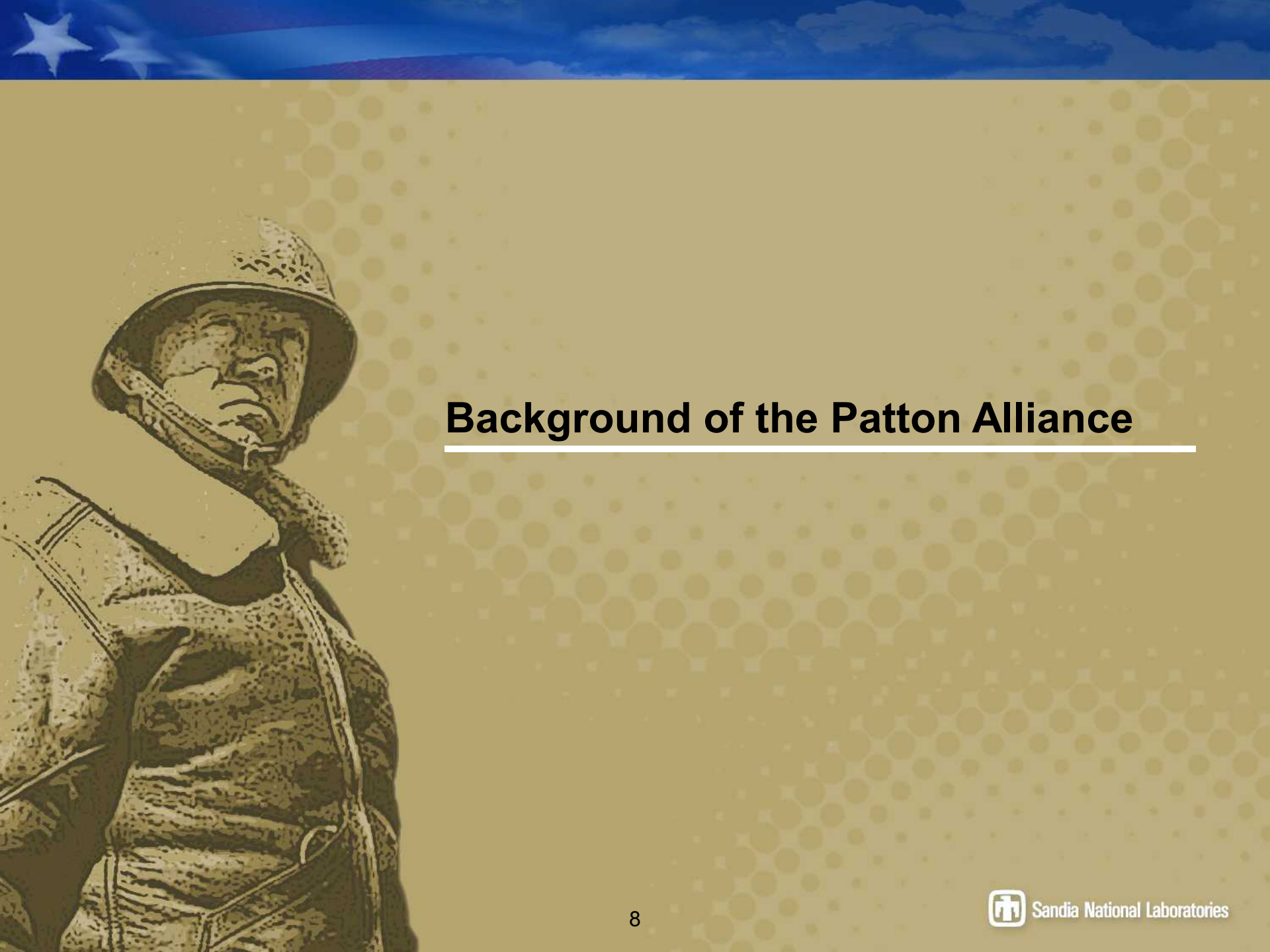
Innovation Adoption and Technology Diffusion

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.

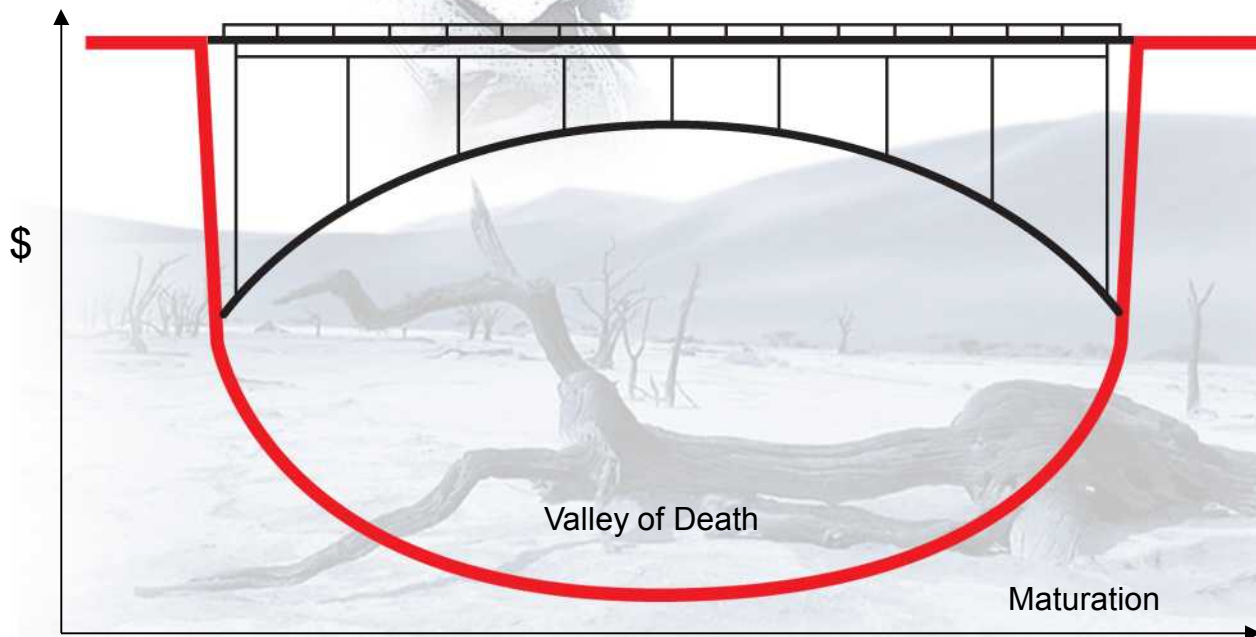
PATTON Stakeholders

Software Providers:

Academic
Commercial
Government
Agencies

End Users:

Government



OFFICIAL USE ONLY

Patton Alliance Strategy

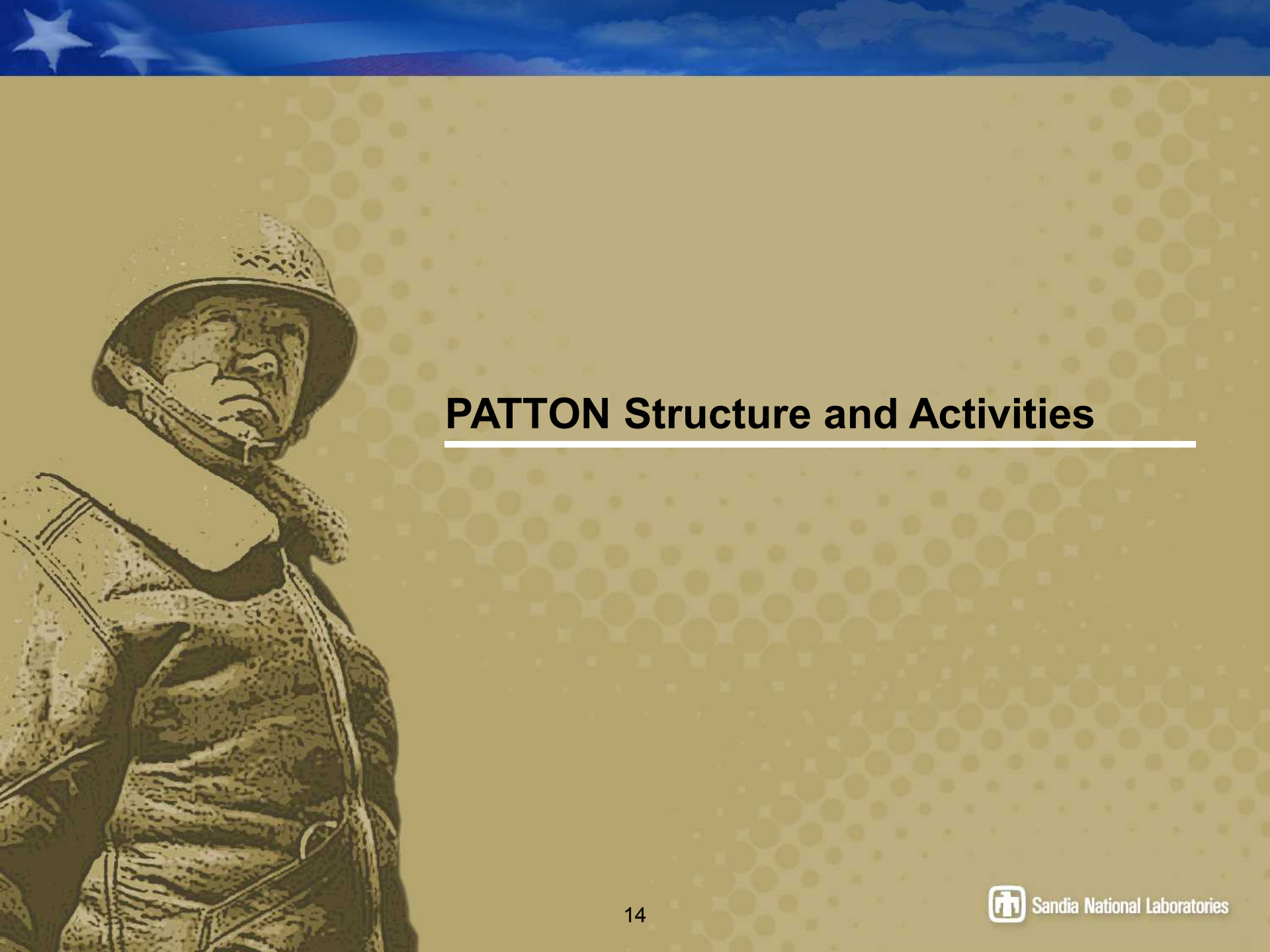
- To identify and prioritize technologies
 - Initiate an ongoing process to identify and prioritize technologies through a technology catalog that is web and security enabled
- To eliminate roadblocks to maturation and deployment
 - Provide visibility to candidate technologies
 - Use our engineering 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

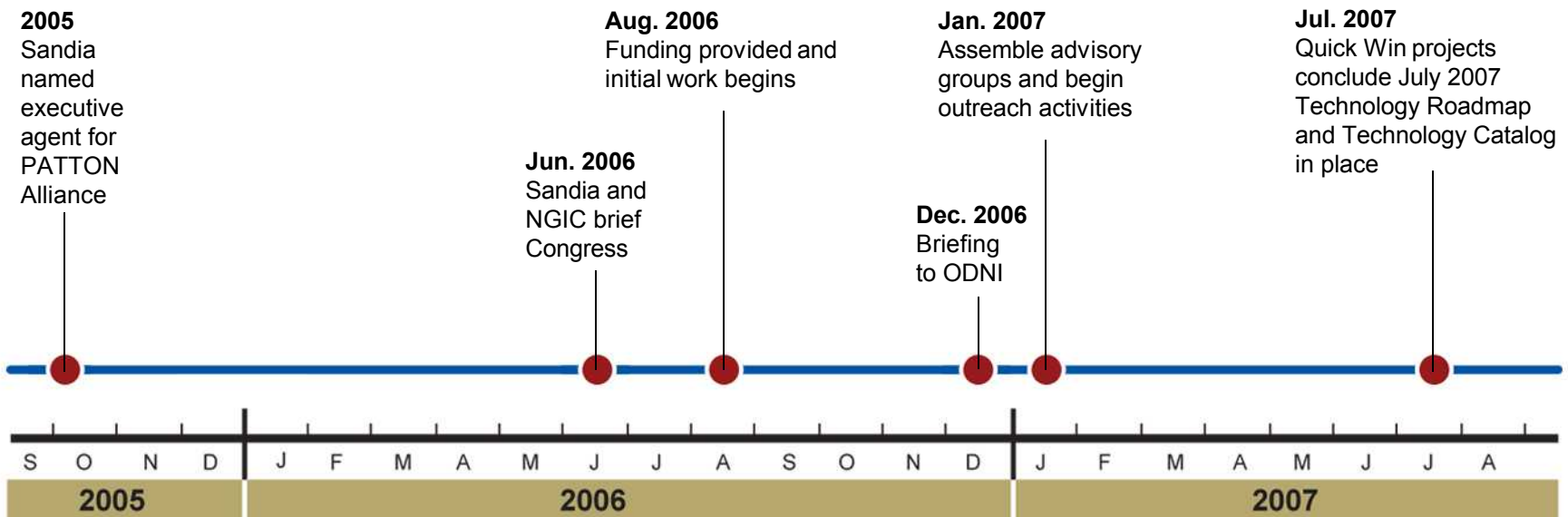


PATTON Structure and Activities

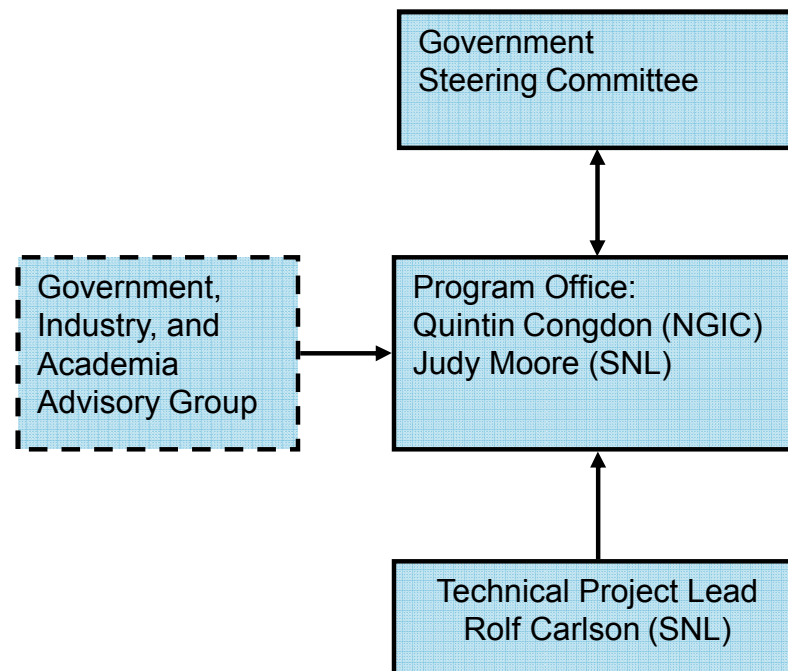
PATTON Alliance Program Elements

- 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

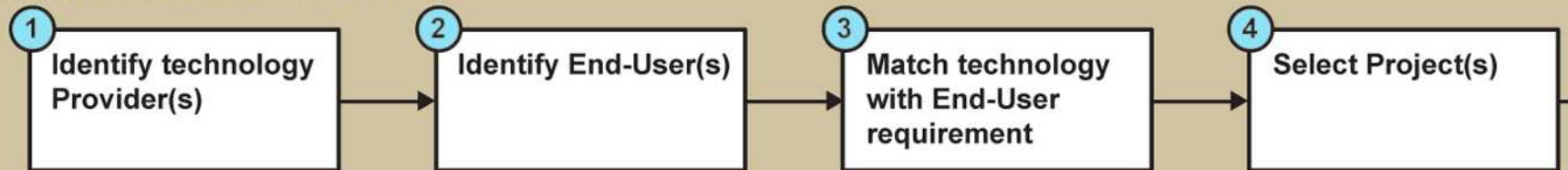


Program Office Structure

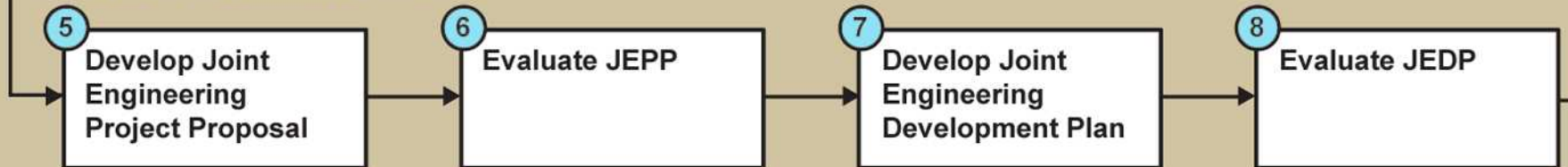


Sandia's Engineering Process

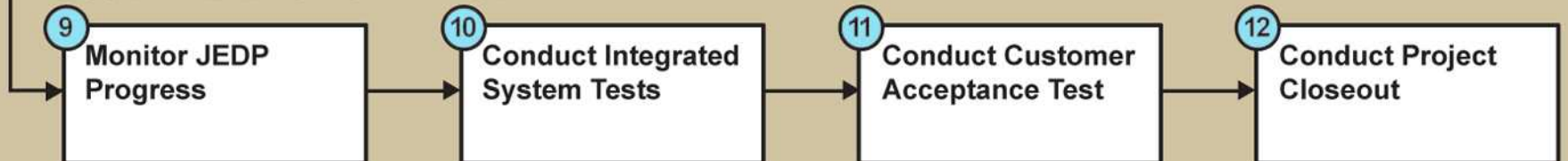
PROJECT SELECTION PHASE



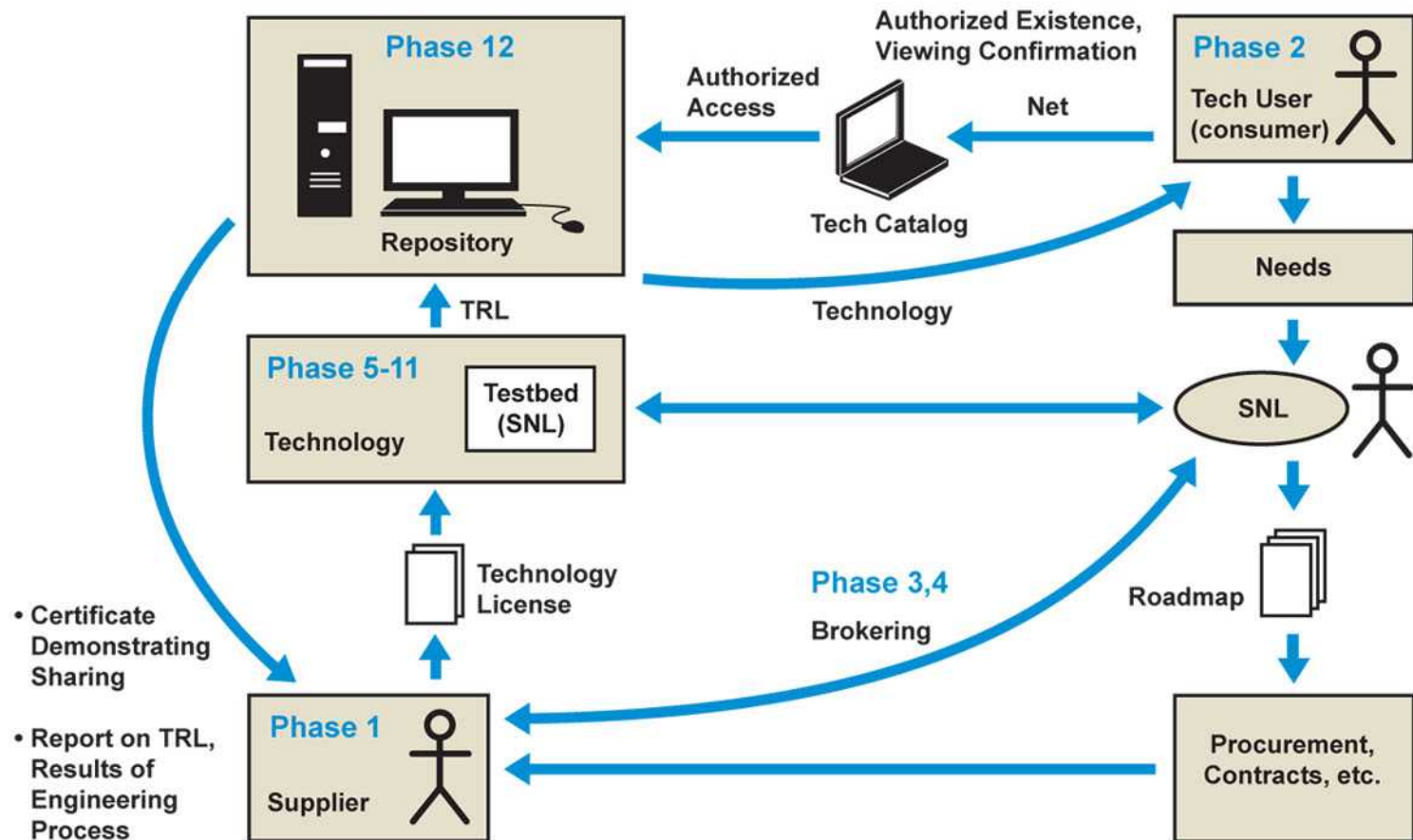
PROJECT PLANNING PHASE



PROJECT EXECUTION PHASE



Need-to-Share and the Engineering Process



Quick Win Projects

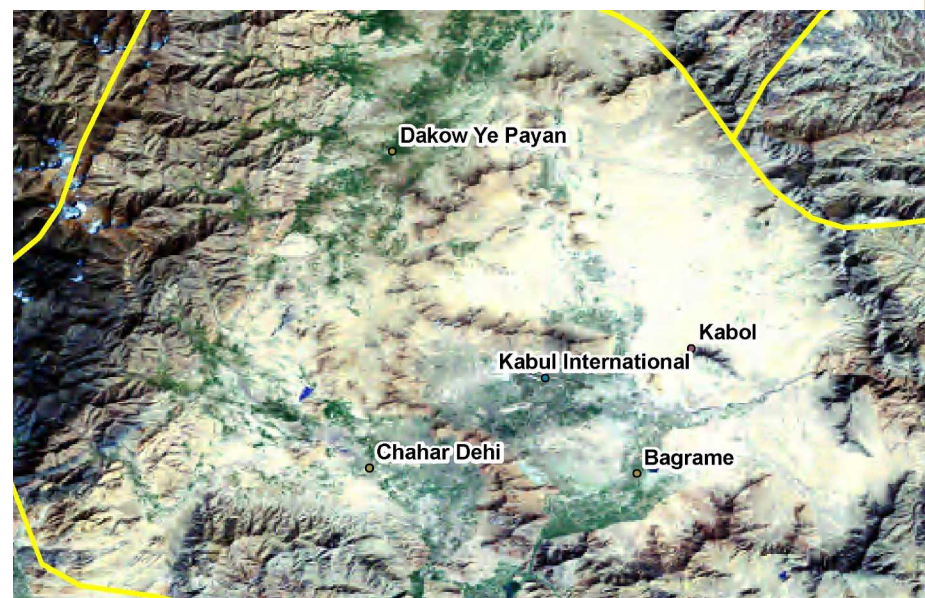
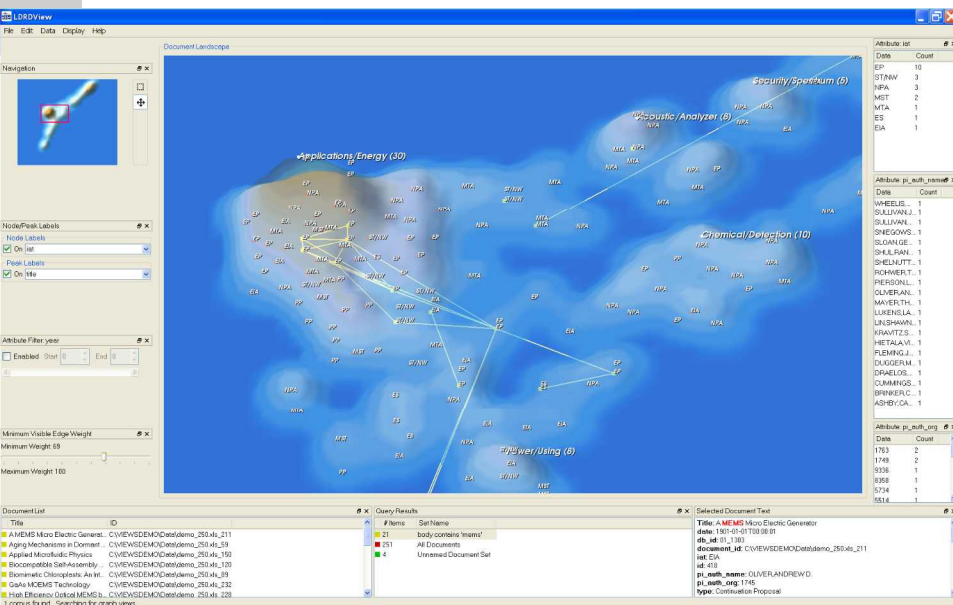
- These projects were initiated by NGIC as an early way to show value for the PATTON Alliance.

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

OBTAIN 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

DEVELOP 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

EXECUTE 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

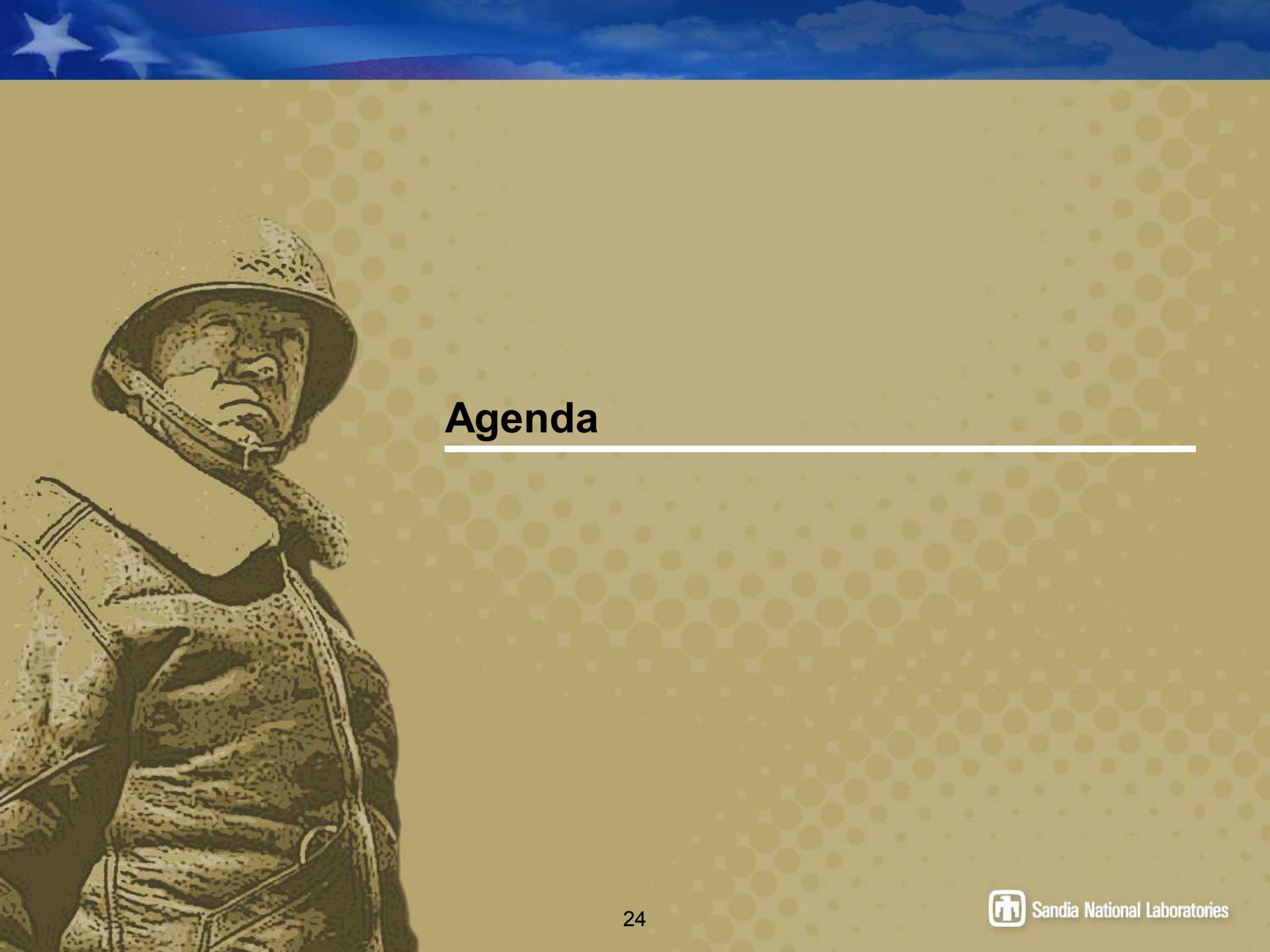
PRODUCE DELIVERABLES

2.1 Technology Inventory

Database
Website

1.4.6 Technology Needs Assessment

Document



Agenda

Today's Agenda