MITRE
SMS Pilot Project:

- MITRE Background

- Studies & Analysis

  - Readiness Phase

  - Experience Phase

  - FAA Readiness

Federal Aviation Administration

Background

- **Chartered in 1958 as an independent, not-for-profit company to provide technical support to the U.S. Government**

- **50 years of experience in command and control, communications, computers, and air traffic control systems**

- **MITRE operates as a strategic partner with its U.S. Government sponsors (FAA, DoD, IRS, Homeland Security)**
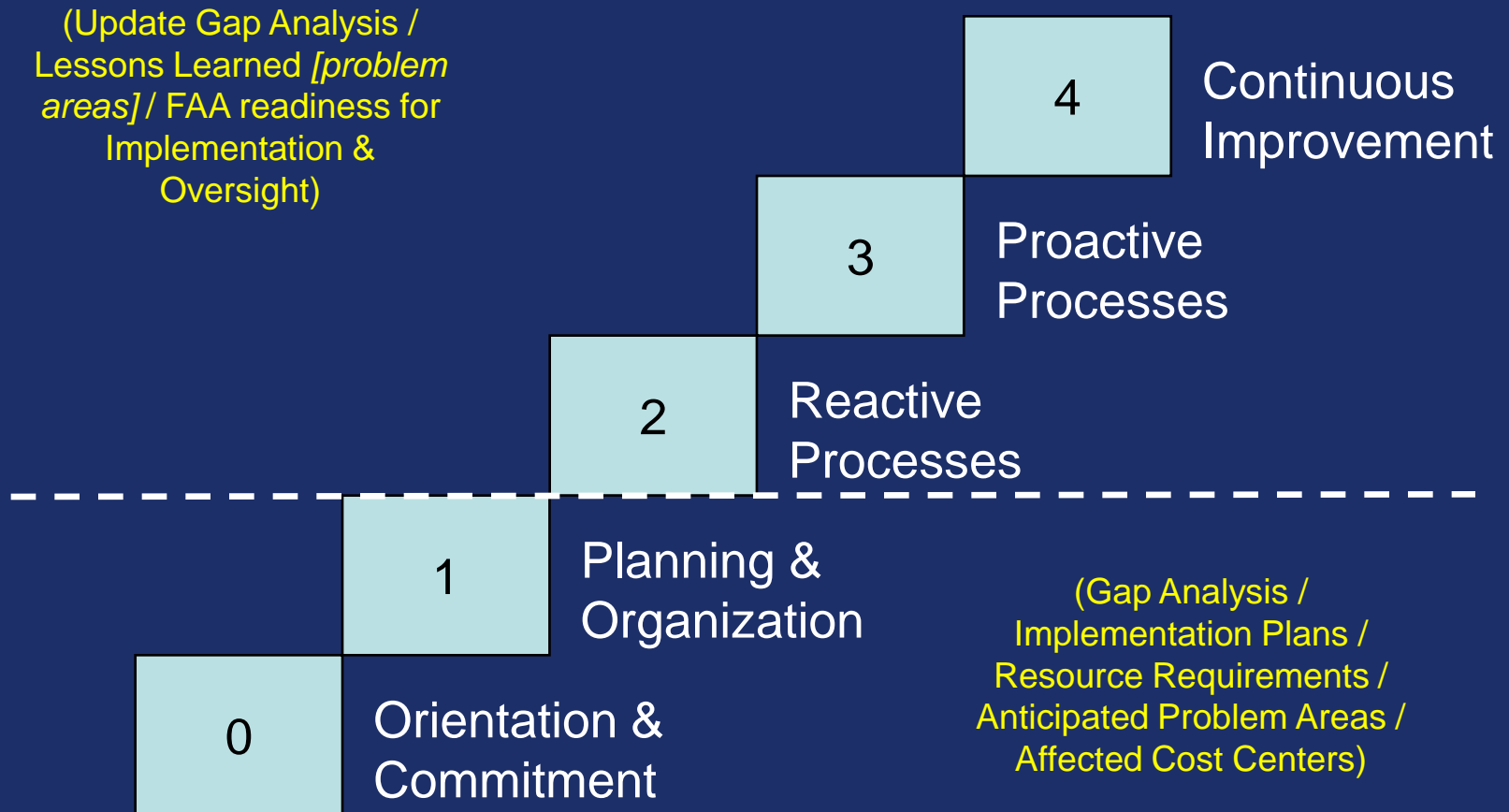
Background

- **Federally Funded Research & Development Center (FFRDC; there are 38), like:**

  - Institute for Defense Analyses

  - RAND Corp.

  - Lincoln Laboratory

  - Sandia Laboratories

  - Lawrence Livermore Laboratories, etc.

Background

- **Center for Advanced Aviation System Development (CAASD)**
  - Support to the FAA (for example)
    - Aviation Safety Information & Analysis Sharing (ASIAS)
    - Airspace & Airport Analysis
      - NAS Next Generation
      - Optimized Airspace
    - Enroute / Oceanic
      - High Precision Navigation
      - Trajectory-based Operations
    - Terminal TFM
      - Enhanced Flight Visual System (EFVS)
    - Surveillance
      - Unmanned Aerial Systems (UAS)

MITRE Studies & Analyses

SMS Pilot Project

(Update Gap Analysis / Lessons Learned *[problem areas]* / FAA readiness for Implementation & Oversight)

4 Continuous Improvement

3 Proactive Processes

2 Reactive Processes

1 Planning & Organization

0 Orientation & Commitment

(Gap Analysis / Implementation Plans / Resource Requirements / Anticipated Problem Areas / Affected Cost Centers)

MITRE Studies & Analyses

- ***Readiness Phase***

  – Gap Analyses

    - Identify:

      – SMS elements already in place

      – SMS elements requiring initial development and implementation

  – Implementation Plans

    - Identify:

      – Expected time lines

      – Long-term elements

MITRE Studies & Analyses

- ***Readiness Phase***

    - Resource Requirements

        - Identify:

            - Service Provider resources already in place to support existing Safety Programs

            - Additional resources required for SMS implementation

    - Anticipated Problem Areas

        - Identify:

            - Unreasonable or unachievable SMS objectives

MITRE Studies & Analyses

- *Experience Phase*
  - *Identify:*
    - Lessons Learned
      - SMS elements already implemented as part of existing safety program or which will be simple for service provider to achieve
      - SMS elements difficult or resource-challenging for service provider to implement
    - Affected Service Provider Cost Centers
      - Corporate-wide?
      - Individual?
      - How much?

MITRE Studies & Analyses

- ***Experience Phase***

  – *FAA Readiness*

    - Identify:

      – CMO/CMT readiness to support service provider SMS implementation

      – CMO/CMT readiness to assume service provider SMS oversight