TSA ITF follows a 6-phase Innovation Lifecycle tailored from 8 essentials of innovation that synthesize best practices for innovation-driven growth.

**ASPIRE**
The Aspire phase sets a bold strategy and goals for innovation and establish targets that are cascaded across the organization.

**DISCOVER**
The Discover phase solicits problem statements from diverse stakeholders that assist with “make a difference tomorrow” and “stick in limbo” problems to improve the quality of ideas and support the definition of the customer.

**SELECT**
The Select phase sets a goal of managing portfolios and selecting solutions through a process of technical reviews and vendor pitch to.

**DEMONSTRATE**
The Demonstrate phase pilots demonstrations of adjacent and transformational solutions in a lab and/or operational environment to prioritize and streamline requirements for solutions and processes.

**SCALE**
The Scale phase allows the ability to have a formal, transparent path to transition to enterprise-wide execution.

**MOBILIZE**
The Mobilize phase leverages the importance of TSA's mission to motivate and engage employees and partners, calibrate ITF’s impact, and clarify mission space and organizational culture.

**ITF Airport Innovation Forum**
ITF fosters innovation by integrating key stakeholders to identify and demonstrate emerging solutions for aviation security. ITF’s Airport Innovation Forum (AIF) helps establish ITF’s mission to convene the aviation security system, demonstrate innovative solutions, and measure solution effectiveness to achieve the optimized future state with improved solutions for airports across the United States.

![Map of airports with codes and names](image)

**Learn More**
- innovationtaskforce@tsa.dhs.gov
- ITF Website
- Transportation Security Administration (TSA)
- @tsa
- ITF Newsletter Sign-Up

**RCA REQUIREMENTS & CAPABILITIES ANALYSIS**
Advancing the Checkpoint Environment

**Innovation Checkpoint**

The ACE Checkpoint at the Las Vegas Harry Reid International Airport (LAS) demonstrates the latest innovative technologies for the transportation security mission.

**Current Featured Technologies**

- Digital signage
- Automated Screening Lanes integrated with CT X-ray scanners
- Enhanced Advanced Imaging Technology body scanner
- Crowd Vision
- UV-C Bin Sanitation

**Innovation Test Bed at TSA Systems Integration Facility (TSIF)**

The Innovation Test Bed Checkpoint will explore innovation initiatives and solution applications that impact the TSA mission space. It will enable vendors to rapidly evaluate solutions or procedures in the full checkpoint system with limited preparation or requirements.

**Demostra**

- **AX-Box Gatekeeper – aXite Security Tools**
  - aXite Security Tools (AST) will demonstrate its comprehensive cybersecurity tools to protect the Operational Technology (OT) systems of TSA's fleet of legacy checkpoint and checked baggage transportation security equipment (TSE) ecosystems.
  - ITF is completing the Solution Provider vetting process and will begin demonstration planning with Explosive Detection System (EDS) of Baggage Handling System (BHS) serving as the TSE for the demonstration, which will take place in Fall 2022 at TSIF.

- **Project Dartmouth – Pangiam**
  - Project Dartmouth uses computed tomography (CT) images to train the artificial intelligence (AI) algorithm to identify prohibitive item threats in accessible property and alert the Transportation Security Officer (TSO).
  - In its mature development, the solution also has the potential to automate threat detection of complex, coordinated prohibited item threats across an airport or airports.
  - ITF is completing the Solution Provider vetting process and will begin demonstration planning. The demonstration will take place at TSIF and will move to an airport if successful.

- **XTR4 – HumanLink**
  - XRT-4 is a web-based software training platform that is easy to use, flexible and state-of-the-art. It delivers training beyond what Original Equipment Manufacturers (OEMs) provide. XRT-4 identifies training, feedback, and skills TSOs need to increase threat detection and decrease false alarm rates.
  - ITF is completing the Solution Provider vetting process and will begin demonstration planning. Coordination efforts are ongoing regarding where the solution will be virtually hosted.

- **Facial Recognition List – Corsight AI**
  - Corsight AI will deploy a facial recognition Authorized List to prove the efficacy of using Authorized List facial recognition to identify individuals within a restricted space that are not approved to be there. It compares facial recognition from a camera to a database of approved individuals.
  - ITF is completing the Solution Provider vetting process and will begin demonstration planning. The demonstration will take place at TSIF and will move to an airport if successful.

- **Foundry – Palantir**
  - This solution is a commercial data infrastructure that can integrate TSA’s operational data and translate it into a single source of truth. This will enable TSA to understand the current environmental and functional operation of an entire airport.
  - ITF is currently completing the Solution provider vetting process and will begin demonstration planning.