

Transportation Security Administration Requirements and Capabilities Analysis Innovation Task Force



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 "stuck in limbo" problems to improve the quantity of quality 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 pitches

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, celebrate ITF's impact, and clarify mission space and organizational culture

ITF fosters innovation by integrating key stakeholders to identify and demonstrate emerging solutions that increase security effectiveness and efficiency, improve passenger experience and the flow of commerce, and deliver solutions that secure the freedom of movement throughout the nation's transportation system.



Collaborate

Convene the aviation security ecosystem to identify and demonstrate solutions



Demonstrate

Establish the capability for TSA to quickly demonstrate innovative solutions

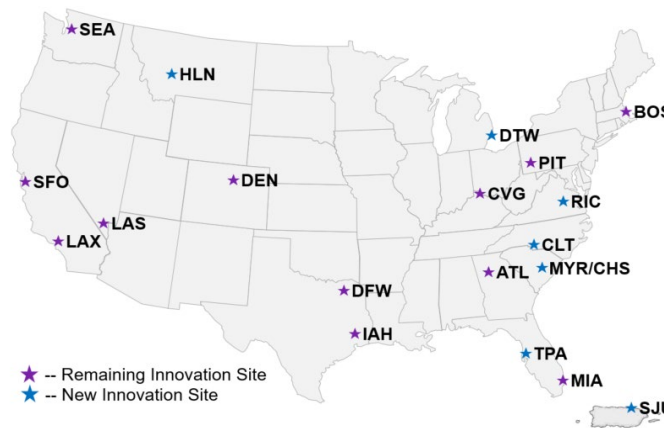


Assess

Measure solution effectiveness to achieve the optimized future state and provide vendors with data to improve solutions

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.



Code	Airport
ATL	Hartsfield-Jackson Atlanta International Airport
BOS	Logan International Airport
CHS/MYR	Charleston International Airport and Myrtle Beach International Airport
CLT	Charlotte Douglas International Airport
CVG	Cincinnati/Northern Kentucky International Airport
DEN	Denver International Airport
DFW	Dallas/Fort Worth International Airport
DTW	Detroit Metropolitan Wayne County Airport
HLN	Helena Regional Airport
IAH	Houston Airport (George Bush Intercontinental)
LAS	Harry Reid International Airport
LAX	Los Angeles International Airport
MIA	Miami International Airport
PIT	Pittsburgh International Airport
RIC	Richmond International Airport
SEA	Seattle-Tacoma International Airport
SFO	San Francisco International Airport
SJU	Luis Muniz Marin International Airport
TPA	Tampa International Airport

Learn More



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ITF Website



Transportation Security Administration (TSA)



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ITF Newsletter Sign-Up



TSA ITF Demonstration, Management, and Execution (DMx) Operations

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
- Crowd Vision SVIP
- Sabel STORM
- Credential Technology -2b
- AutoCAT
- Stream of Commerce

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.



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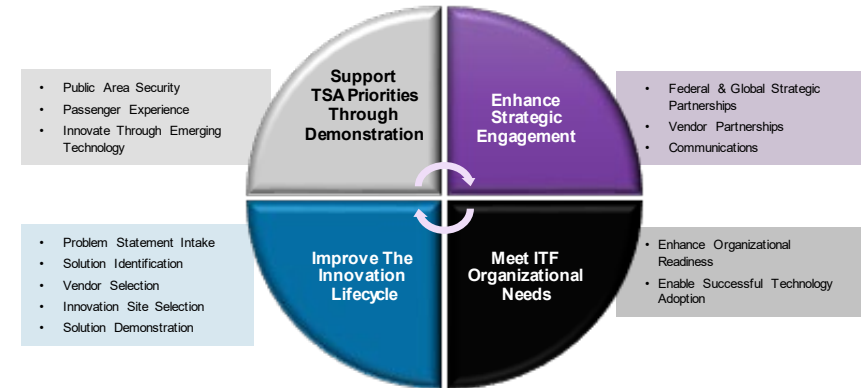
Total TSA ITF Demonstrations since 2016

\$1.6 Billion*

Total ITF cost savings for TSA since 2016 inception

*Calculated based on total bailments across demonstrations 2016-2021

TSA ITF Strategic Goals



Demonstration Highlights

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.

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.

XTR4 – HumanLink

- XTR-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. XTR-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.

