Innovation Task Force

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TSA/ACC Security Capabilities Workshop

July 18, 2017

Transportation Security Administration

Agenda

Topic
• Innovation Task Force Overview
• Solution Identification, Selection, and Demonstration Lifecycles
• Successes to Date
• Current Efforts and Next Steps

Innovation Task Force Overview

The Innovation Task Force (ITF) aims to foster 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.

ITF's Primary Objectives

Collaborate

Convene the transportation security ecosystem to identify and demonstrate solutions

Demonstrate

Establish the capability for the Transportation Security Administration (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 success depends on the support of multiple stakeholders in the transportation security ecosystem for solution identification and demonstration.

Identifying ITF Solutions

To identify innovative solutions for demonstration, ITF engages in collaborative industry exchange efforts by informing stakeholders of ITF's mission and pulsing the market for transportation security solutions.

Industry Exchange Toolkit

Inform Stakeholders

ITF aims to **increase industry knowledge** in an effort to make future solution demonstration planning go smoothly.

- Classic Brief
- ITF Hot Seat
- ITF and Partners Panel
- Webinar

Pulse the Market

ITF **fosters collaboration and co-creation** with industry partners to identify new solutions for demonstration.

- ITF Booth
- Shark Tank
- Innovation Tournament

Selecting ITF Solutions

To grow its portfolio of solutions, ITF conducts a robust solution identification and selection process. To date, ITF has released two Broad Agency Announcements (BAAs) in an effort to identify innovative solutions for demonstration.

Solution Selection Process Overview

BAA Released	White Paper Submissions	White Paper Review	CDP Submissions	CDP Review and Solution Selection	Solution Demonstrations

Solution Review Criteria

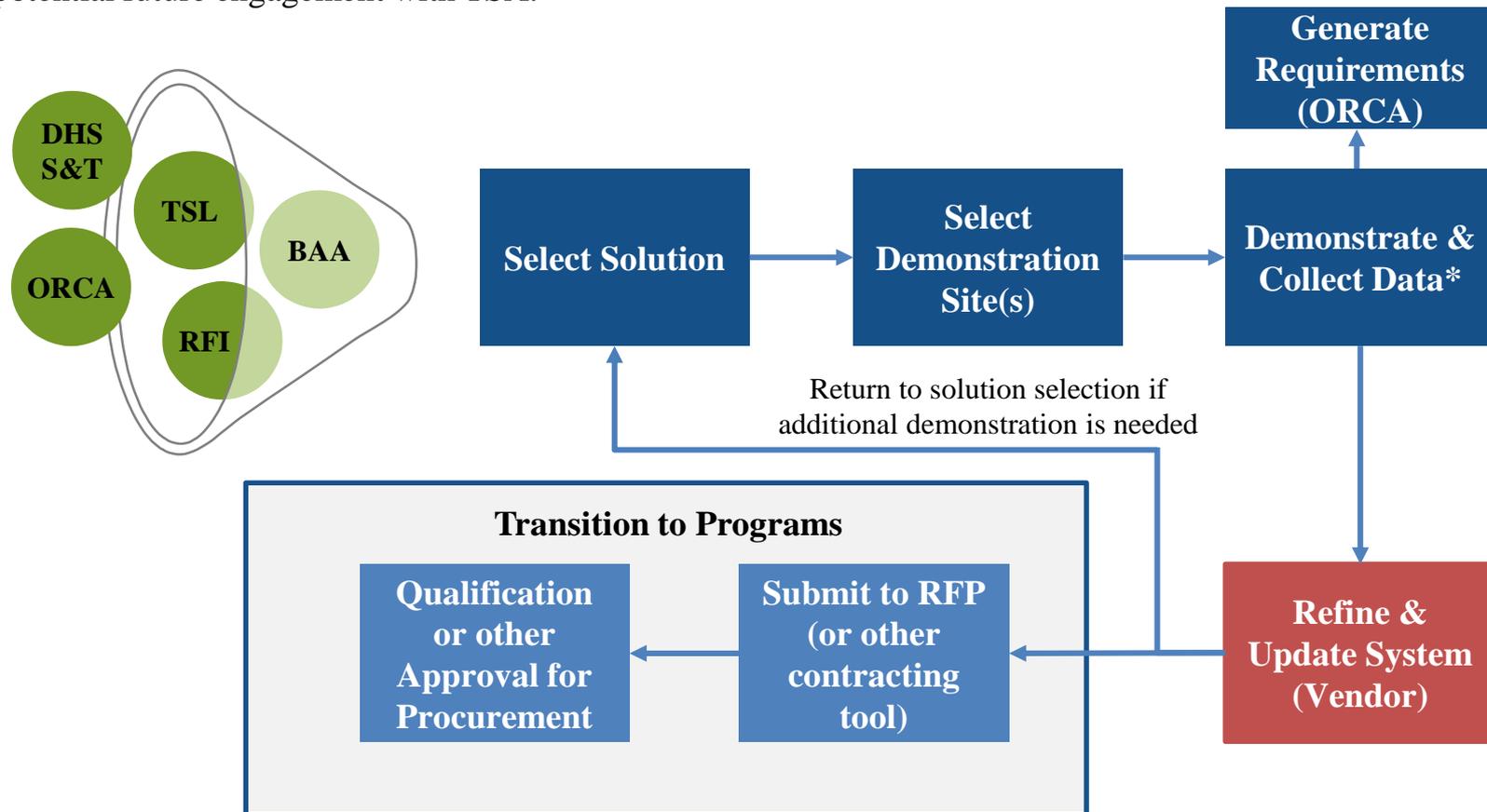| Vendor Capabilities	Feasibility	Funding	Mission Alignment	Solution Impact
Vendor's capabilities and related experience	*Feasibility of demonstrating the proposed solution in a live airport/operational environment within six months of submission*	*Reasonableness of any funding requested and/or feasibility of lifecycle costs required for solution implementation*	*Importance, relevance, and timeliness of technical approach to TSA's mission*	*Ability to address capability gaps, improve efficiency, or improve the passenger experience*

ITF's strategic solution selection process ensures that solution demonstrations meet the needs of TSA, solution providers, and demonstration partners.

Demonstrating ITF-Led Solutions

Once a solution is selected, ITF follows a specified solution demonstration lifecycle. This lifecycle allows vendors to demonstrate their solutions in the field, capture operational data, and then refine their solution for potential future engagement with TSA.

DHS S&T • **TSL** • **ORCA** • **RFI** • **BAA**

Select Solution → **Select Demonstration Site(s)** → **Demonstrate & Collect Data*** → **Generate Requirements (ORCA)**

Return to solution selection if additional demonstration is needed

Transition to Programs

Qualification or other Approval for Procurement ← **Submit to RFP (or other contracting tool)** ← **Refine & Update System (Vendor)**

*Note: Solution is mature enough for operational deployment, but not necessarily "perfect."

ITF Successes To Date

In the past year, ITF has achieved many successes, including the demonstration of four distinct solutions in partnership with stakeholders across the transportation security ecosystem.
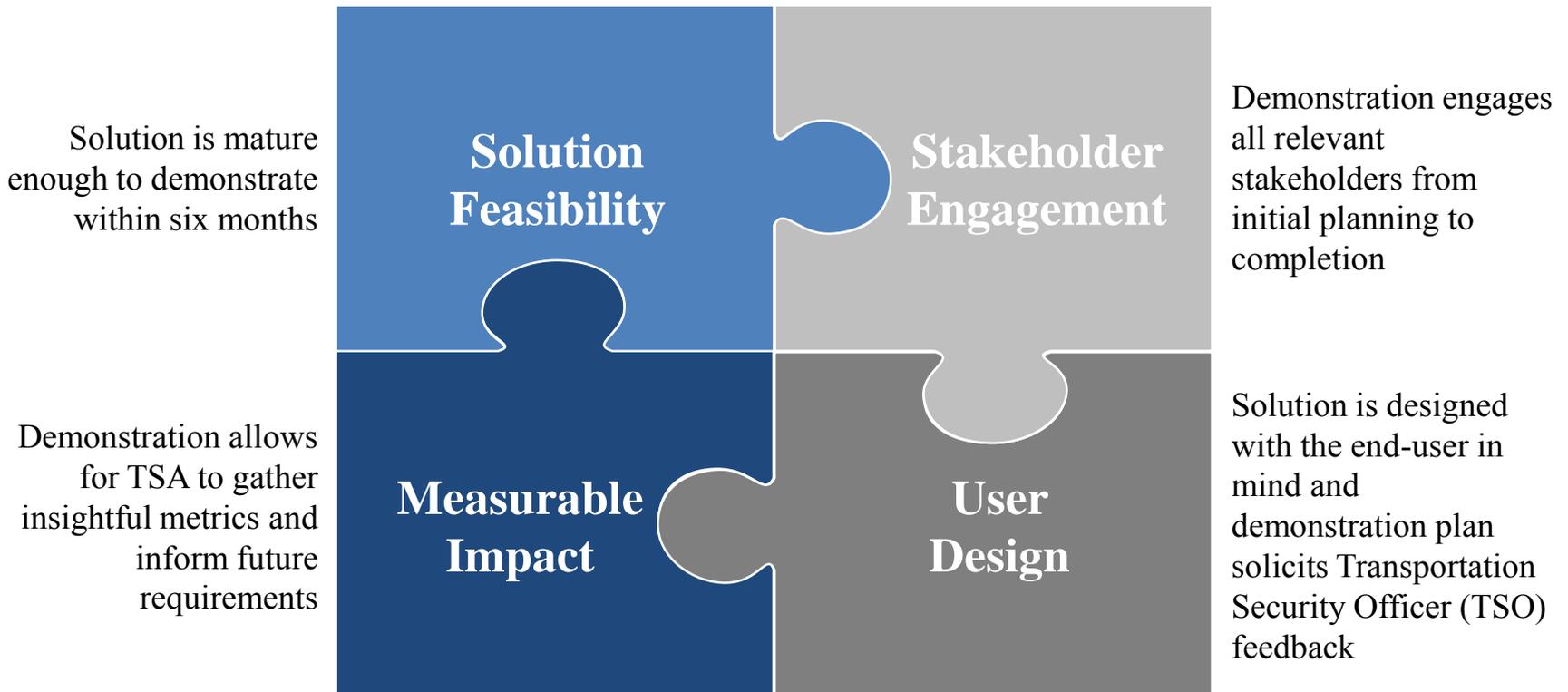
Automated Screening Lanes (ASLs)	Computed Tomography (CT)	Biometric Authentication Technology (BAT)	Checkpoint Planning & Staff Allocation	Checkpoint Supplemental Design Guide
• ITF has deployed **69 ASLs** across **5 airports** with plans to continue deployment through January 31, 2018	• CT units are **currently in demonstration** at Phoenix Sky Harbor International Airport (PHX) and Logan International Airport (BOS)	• BAT units are **currently in demonstration** at Hartsfield-Jackson Atlanta International Airport (ATL) and Denver International Airport (DEN)	• ITF is **currently demonstrating** a Checkpoint Planning & Staff Allocation Tool at DEN, **collecting operational data** on-site	• ITF has developed an **improved process** for guiding airport **checkpoint design**

ITF will continue to collect and analyze data from these ongoing demonstrations in an effort to develop requirements and inform future demonstrations.

Lessons Learned

Throughout its solution demonstrations, ITF has gathered lessons learned that will inform future ITF efforts and enable continued demonstration success.

Conditions for a Successful Demonstration

Solution is mature enough to demonstrate within six months

Solution Feasibility

Stakeholder Engagement

Demonstration engages all relevant stakeholders from initial planning to completion

Demonstration allows for TSA to gather insightful metrics and inform future requirements

Measurable Impact

User Design

Solution is designed with the end-user in mind and demonstration plan solicits Transportation Security Officer (TSO) feedback

Current Efforts and Next Steps

ITF is currently planning demonstration efforts for solutions selected in its first BAA, as well as preparing to review and select solutions from its second BAA, Innovative Demonstrations for Enterprise Advancement (IDEA).
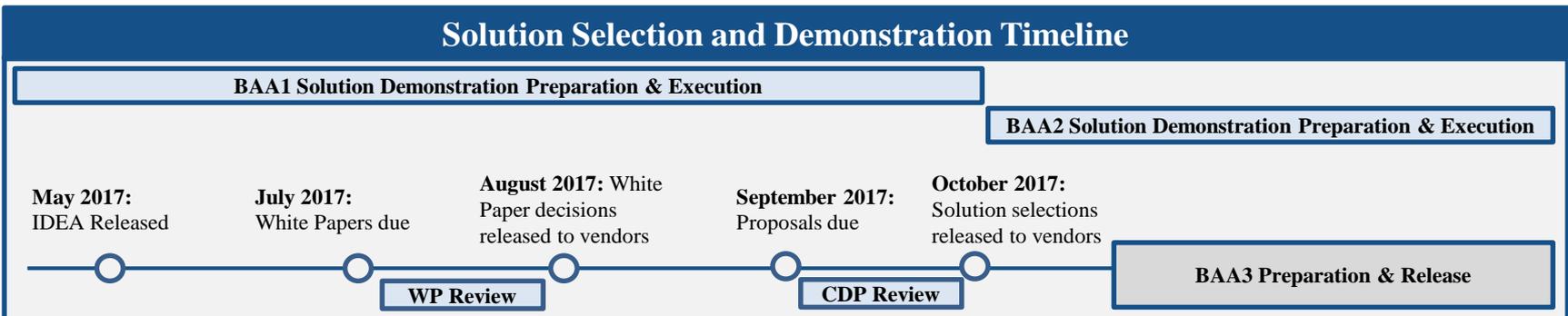
Demonstration Planning

☐ Continue demonstration planning for the solutions selected in ITF's first BAA

☐ Analyze data from current solution demonstrations and begin to inform requirements

☐ Share lessons learned from solution demonstrations with stakeholders across the transportation security ecosystem

Future Solution Selection

☐ Conduct a robust multi-step review process to evaluate solutions submitted to ITF's BAA IDEA

☐ Select solutions for demonstration in 2018, incorporating feedback from subject matter experts across TSA

☐ Continue to promote collaboration and transportation security innovation through ITF-enabled demonstrations

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Solution Selection and Demonstration Timeline

BAA1 Solution Demonstration Preparation & Execution

BAA2 Solution Demonstration Preparation & Execution

May 2017: IDEA Released

July 2017: White Papers due

August 2017: White Paper decisions released to vendors

September 2017: Proposals due

October 2017: Solution selections released to vendors

WP Review

CDP Review

BAA3 Preparation & Release

Appendix

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Demonstrating ITF-Enabled Solutions

In addition to demonstrating its own solutions (i.e., "ITF-led"), ITF also supports stakeholder-led efforts, classified as "ITF-enabled" demonstrations, to further enable innovation in the transportation security space.

Path 1: ITF-Led Demonstrations
ITF owns key demonstration activities in collaboration with relevant stakeholders

Path 2: ITF-Enabled Demonstrations
A non-ITF stakeholder (e.g., airport, airline, or other TSA office) owns key planning and demonstration activities with ITF support

Identify	Plan	Test	Demonstrate	Analyze	Close-Out
A **non-ITF stakeholder** identifies the solution, coordinates with TSA, and becomes the project sponsor	An identified **non-ITF project sponsor** drives planning with guidance from an assigned ITF program manager	An identified **non-ITF project sponsor** conducts assessments and provides the results to ITF	Identified **non-ITF project sponsor** oversees demonstration efforts with support, as needed, from ITF program manager	A **non-ITF project sponsor** executes data collection and analysis efforts and provides the results to ITF	**Key stakeholders** discuss next steps based on results of demonstration