



Transportation  
Security  
Administration

Innovation Task Force

RCA | REQUIREMENTS &  
CAPABILITIES ANALYSIS

# Innovation Task Force Fly By

## Hello!

Welcome back to the Transportation Security Administration (TSA) Innovation Task Force (ITF) newsletter. Have you ever wondered how your priorities align with ITF priorities? Or how TSA is working with industry partners and the traveling public to innovate? Our quarterly newsletter serves as a resource to learn more about recent happenings and important information. In future issues, we will also provide you with the updates you need for upcoming solicitations and collaboration opportunities.

Over the last quarter, ITF attended the Consumer Electronics Show (CES) 2021, closed out two demonstrations, welcomed a cohort of innovative technologies, and debuted a new ITF video. Read about some of our biggest accomplishments below!

### REACHING A GLOBAL AUDIENCE

## ITF Attends All-Digital CES 2021

The screenshot shows the CES 2021 website interface. At the top left is the CES logo and the text 'Consumer Technology Association'. Navigation links include 'PROGRAM', 'EXHIBITORS', 'CONNECT', and 'MY SHOW'. On the right, it says 'JAN 11-14, 2021 ALL-DIGITAL'. Below the navigation is a large video player with a background image of people at a conference. The video title is 'Responding to Today's Threats with Technology'. Below the title is a play button icon and a short description: 'Who's responding to today's threats? S&T. See how we are rapidly developing and deploying technologies that make an operational impact for the homeland security mission.' At the bottom of the video player are three smaller video thumbnails and navigation arrows.

## All-Digital CES 2021 shares the latest in technological advancement

CES, hosted by the Consumer Technology Association (CTA), is a [global technology event](#) where industry sectors from around the world come together to showcase existing and future solutions and discuss trends in the consumer technologies marketplace. [CES 2021 convened virtually for the first time](#) due to the ongoing COVID-19 pandemic. This year's event gathered developers, policymakers, and entrepreneurs across a custom-built virtual platform to [discuss and share the latest in technological advancement](#).

### One DHS

The Department of Homeland Security's Science & Technology Directorate (DHS S&T) coordinated a ["One DHS" engagement for CES through a virtual booth presence](#). DHS attended CES to better understand how emerging and disruptive technologies can be applied to enhance DHS operations. DHS also gained new perspectives on future innovation cycles, which could inform how bad actors might use these same technologies in nefarious ways.

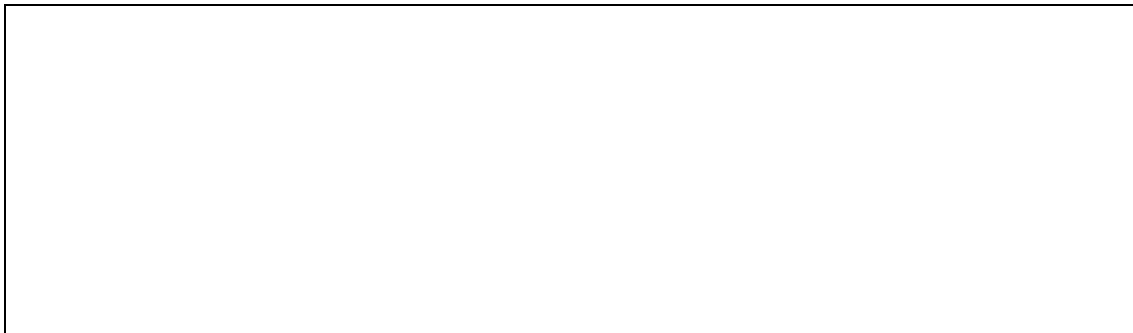
### ITF industry discussions

ITF [participated in the "One DHS" booth](#) alongside nearly 2000 other exhibitors and engaged in the broader conference by attending six separate sessions. On January 13th, Matt Gilkeson, TSA ITF Division Director, spoke with TSA Chief Innovation Officer Dan McCoy in a session entitled ["Learn How You Can Innovate with TSA"](#) to engage potential vendors. ITF Acting Branch Manager Steve Coda and Program Manager Will Hastings, along with Chief Innovation Office Sr. Advisor Andy Haskins, also hosted [several listening sessions](#) on January 12th and 13th at the virtual booth, encouraging participants to "Share Your Dream Future Checkpoint Experience with TSA". The objective was to understand participants' greatest pain points, challenges, and future expectations of the TSA Checkpoint and how ITF can leverage its resources to accomplish its goals. Through these sessions and at the booth, ITF [engaged with nearly 30 vendors](#) and [identified three technologies with potential applications to enhancing transportation security](#).

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### RECENT DEMONSTRATION CLOSEOUTS

## Virtual Reality Training Platform and Integrated Data Analytics for JVA and C-UAS





### **ITF demonstration closeouts**

This month, ITF successfully closed out two demonstrations, [Virtual Reality Training Platform or VRTP](#), and [Integrated Data Analytics for Joint Vulnerability Assessments \(JVA\) and Counter-Unmanned Aircraft Systems \(C-UAS\)](#).

### **More on Virtual Reality Training Platform**

Selected through ITF's fourth Broad Agency Announcement (BAA), VRTP is an advanced training solution for the Federal Air Marshal Service (FAMS) that [enables moderators to train effectively and efficiently in a dynamic virtual environment](#). The technology models the environment in 3D based on drawings of actual aircrafts and wirelessly integrates the virtual reality environment with simulation weapon hardware to provide virtual shot ballistics and adjudication. Lessons learned throughout the VRTP demonstration will transition to the FAMS to [inform current and/or future learning and training capability decisions](#).

### **More on Integrated Data Analytics for JVA and C-UAS**

Also selected through ITF's fourth annual IDEA Broad Agency Announcement (BAA), Integrated Data Analytics for Joint Vulnerability Assessments (JVA) and Counter-Unmanned Aircraft Systems (C-UAS) augments JVAs by combining data analytics, geospatial imagery, and machine learning to more [effectively and actively monitor topographical changes impacting risk](#). Lessons learned throughout this demonstration will also be transitioned to the FAMS for future considerations; ITF is [recommending this solution for a potential phase two demonstration to inform procurement](#), as it is technically sound and ready for immediate use with its end-user office.

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**A NEW COHORT OF INNOVATIVE SOLUTIONS**

## **IDEA Targeted Broad Agency Announcement 2020 Solutions Selected**



### **Innovative solutions selected**

ITF closed its fifth broad agency announcement (BAA), the IDEA Targeted BAA 2020 on September 7, 2020. The IDEA Targeted BAA 2020 received [36 total submissions from 34 unique vendors](#) in the following areas: safe-distance screening, system integration for dynamic screening, and a third open ended vendor-identified problem. Nearly [two-thirds of submissions came from vendors classified as small businesses](#). From this cohort of submissions, ITF ultimately [selected three solutions for demonstration](#): Security Technology Operations Remote Monitoring (STORM); Data Insights, Intelligence, and Security Powered; and Shoe-Scanner System. ITF selected solutions related to safe-distance screening and automation aimed at [improving public health and aviation security](#).

### **Learn more about ITF's newest solutions**

The STORM solution and the Data Insights, Intelligence, and Security-Powered solution were both selected from the [system integration for dynamic screening](#) problem statement submissions. The [STORM solution](#) provides a seamless means of integration and near real-time communication for checkpoint screening systems and processes. The [Data Insights, Intelligence, and Security-Powered solution](#) takes information from multiple data sources including, but not limited to, existing imaging solutions, cameras, Internet of Things (IoT) sensors, and passenger information systems. The data is secured and transported to TSA mission systems for analysis and real-time reporting. Finally, the [Shoe-Scanner System](#), a [safe distance screening](#) problem statement submission, screens passengers' footwear for concealed items and negates the need to remove and X-ray footwear. The system enables Transportation Security Officers (TSOs) to screen quickly while maintaining effective separation between subjects and security staff.

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**GET TO KNOW ITF**

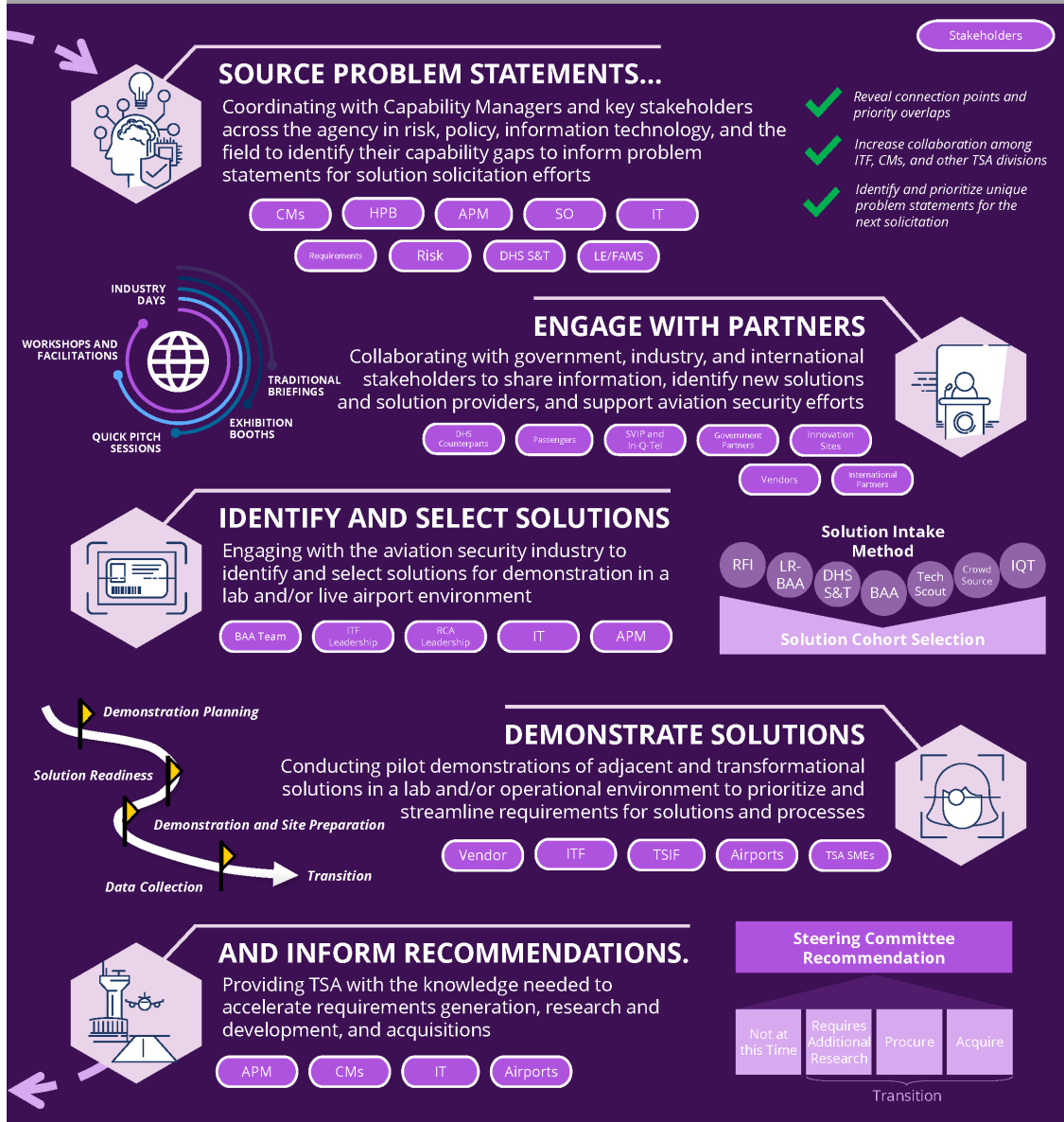
**ITF 101**

# INNOVATION TASK FORCE



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

*"Collaborate, demonstrate, assess."*



## New here, or just want to learn more?

The above graphic is your one-stop shop for all things ITF: who we are, what we do, and how we are pioneering change in the transportation security ecosystem. Follow along with the ITF process, from sourcing problem statements and engaging with partners to identifying, selecting, and demonstrating innovative solutions that inform recommendations for TSA. Still want to learn more about ITF? Check out our website and social media accounts below.

VISIT OUR WEBSITE

