

Innovation Task Force Fly By

Hello!

Welcome back to the Innovation Task Force (ITF) new sletter! ITF has been busy this past quarter with the close out of many innovations, getting ready for the release of the sixth Broad Agency Announcement (BAA), and planning its attendance at upcoming conferences.

ACADEMIC AND INDUSTRY PARTNERSHIPS

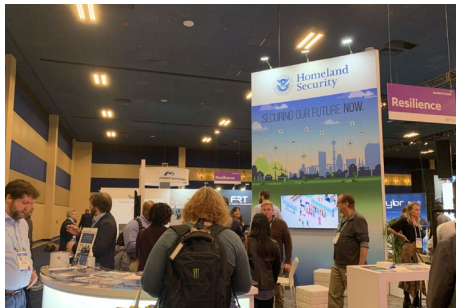
FTE GLOBAL 2021

The Future Travel Experience (FTE) will take place December 7-9 in Las Vegas. The conference consists of forward-thinking experts from the air transport industry to learn, collaborate, and inspire transformation of the passenger experience. ITF has proposed several key speakers for FTE. The event will consist of a TSA booth, Quick Pitch sessions, Innovation Briefings, and multiple Working Sessions. ITF will be presenting on topics like the Advancing the Checkpoint Environment (ACE Checkpoint, Biometrics & Digital Identity, and Cybersecurity).

CES 2022

The Consumer Electronics Show (CES) showcases consumer technology manufacturers, developers, and suppliers. Business leaders and pioneer thinkers join to address industry's most relevant issues. CES 2022, hosted by Consumer Technology Association, will take place on January 5-8, 2022 in Las Vegas through a hybrid model.

ITF will host panels utilizing interactive walkthroughs. These panels will highlight improvements to passenger experience, as well as opportunities for public-private partnerships. ITF has been confirmed for one panel topic: [The Future of Travel – Dynamic and Self-Screening Explained](#). In the panel, ITF will highlight forward-thinking technological advancements and their role in TSA's vision of future travel. Dynamic and self-screening have the potential to significantly improve the passenger experience and accelerate throughput, both of which indirectly improve TSA's security posture.



CES @ EDGE22

EDGE22 at CES brings national and international technology and mission leaders together to discuss technological trends and initiatives in government markets. The theme of EDGE22 is "Common Missions Across our Digital World." TSA will present a unique demonstration and plans to present a DHS Town Hall to 400 expected attending stakeholders. The proposed TSA panel, "Securing Identity in Modernizing the Future of Air Travel," seeks to provide perspective on current biometrics initiatives and discuss key challenges to overcome in an effort to ensure effective and efficient integration of identity-related activities throughout the TSA enterprise. Topics of discussion during the panel will include privacy, health, standardization, and interoperability.

INDUSTRY EXCHANGE METRICS

FY21 ITF Cost Savings

We are excited to announce ITF's cost saving metrics for TSA over the past fiscal year (FY). These numbers were reached by reviewing bailment agreements for each of the demonstrations conducted from October 1, 2020 – September 30, 2021.

FY21 Cost Savings Total: **\$9,531,400**

Demonstration	Cost Savings
Virtual Reality (VR) Training Classroom	\$151,850
Integrated Data Analytics for Joint Vulnerability Assessments (JVA)	\$8,722,712
Ultraviolet-C (UV-C) Bin Disinfection Demonstration Terminator	\$75,000
Ultraviolet-C (UV-C) Bin Disinfection PrimeFlight	\$36,000
PRT Shoe Scanner	\$545,838

UPCOMING SOLICITATIONS

Be on the Look Out for Broad Agency Announcement VI coming soon!

This fall, ITF is scheduled to release the sixth iteration of its Broad Agency Announcement (BAA). ITF BAA VI will be announced and discussed at a featured Virtual Industry Day. Content will be presented on a YouTube livestream accessible link on SAM.gov.

DEMONSTRATION CLOSE OUT

Next Steps for UV-C Lights

As we shared in our last newsletter, ITF is coordinating with industry and aviation stakeholders to keep our passengers safe! ITF recently closed out its two demonstrations on the new technology pertaining to the use of ultraviolet (UV-C) light to disinfect airport checkpoint bins, and the results are in!

PrescientX



Through the demonstration, ITF found that the PrescientX Terminator CoV met the dosage requirements; however, the minimum UV-C exposure for high touch points was not able to meet the minimum threshold. The TSO operators are able to use the solutions for eight hours without protective equipment.

This solution is recommended for acquisition via donation only or it has the potential of procurement if supplemental funding becomes available.

PrimeFlightUV

PrimeFlightUV has a process rate of 300 bins per hour on a continuous feed. The solution can accept various types of bins. The transition team found the potential of PrimeFlightUV technology to be promising, but it was unable to meet the UV-C dosage requirements. ITF recommended the solution for further research to determine any modifications needed to meet the minimum UV-C dosage requirements.



ON PERSON SCREENING INNOVATIONS SPOTLIGHT

On-Person Screening (OPS) is the process of passenger screening at security checkpoints. While OPS detection standards have not changed since 2011, the COVID-19 pandemic presented the need for screening solutions that reduce human-to-human contact between TSOs and passengers. TSA has been working to improve OPS solutions to be more dynamic and efficient, decreasing the false alarm rate while still maintaining high security standards.

PNNL Flat Panel



The Flat Panel solution works with Kaggle Algorithms to improve detection and potentially achieve screening in motion. Its potential benefits include increasing the distance between TSOs and passengers in the COVID-19 operating environment, providing a safer screening experience. The technology is currently under testing and development by the Department of Energy Pacific Northwest National Laboratory (PNNL) and the DHS Science and Technology Directorate. There is a possibility that Flat Panel is the Next-Generation OPS solution with the potential to increase detection capabilities and throughput rates. OPS Capability Management visited PNNL in July 2021. This solution highlights ITF's use of successful collaboration methods, facilitating a whole-of-government approach to a pressing operational need to benefit the homeland security enterprise.

Low PFA Algorithm

TSA is looking to integrate the low Pfa algorithm developed by Leidos for the Advanced Imaging Technology (AIT)-1 to extend the effective lifespan of the current OPS Transportation Security Equipment (TSE). Other benefits include a decrease in secondary screening. The low PFA algorithm solution was piloted in Orlando and Charlotte, and results show reduction in touch rate of 50% compared to current OPS. While the result of the test is positive, more testing will take place. Assuming similar results in later tests, emergency approval for large scale deployment may be available. An additional benefit of the Leidos solution is the ability to utilize their open architecture to allow for the input of TSA developed algorithms.



Rohde & Schwarz (R&S QPS 201



R&S QPS 201 offers clear queuing, hands-down screening stance, and meets detection standards of the current fleet. The technology has resumed field testing after monitor freezing issues were addressed. It is currently being tested at Denver International, Los Angeles International, and New York's LaGuardia International Airports. The acquisition decision event (ADE)- 3 decision is expected by April 2022. If favorable, R&S will be added to the AIT Qualified Products List and TSE donations will be possible at that time.

INNOVATION AIRPORT STATUS

ITF Refreshing Innovation Airport List by 2022

ITF currently engages with local TSA and airport authorities at fifteen designated Innovation Sites. The utilization of these innovation sites enables TSA to internally advance requirements development and provide our industry partners with necessary information to tailor technology development to TSA's most pressing needs. In September 2021, ITF leadership participated in a two-day offsite meeting to define a new operating model for "ITF 2.0". The intent behind this offsite centered around increasing the efficiency and effectiveness of ITF's current operations and demonstration activity. One such discussion identified and recommended the ITF streamline the available list of Innovation Airports by the end of calendar year 2021. TSA will examine multiple criteria as part of the refresh process, including the number of demonstrations an Innovation airport has conducted, each airport's participation in the Airport Innovation Council (AIC) quarterly touchpoints, and their contributions during the AIC Whiteboard session in August 2021. A revised list of ITF Innovation Sites will be published at the beginning of calendar year 2022.

Please visit our website and social media accounts below to learn more information about how TSA is accelerating new technologies and solutions at checkpoints around the country.

[VISIT OUR WEBSITE](#)