

Non-Explosives Prohibited Items (PI) Detection

TSA is expanding the detection capabilities of the Checkpoint Property Screening System (CPSS) by working with vendors and outside partners to introduce Non-Explosives Prohibited Items (PI) detection algorithms intended to realize gains in both operational efficiency and security effectiveness at the checkpoint.

Enablers

Ideation

Work with industry partners to expand knowledge base on leveraging machine learning technique with threat detection

Standardization

Drive scanner vendor adoption of open data formats and standards to enhance accessibility for 3rd party developers

Collaboration

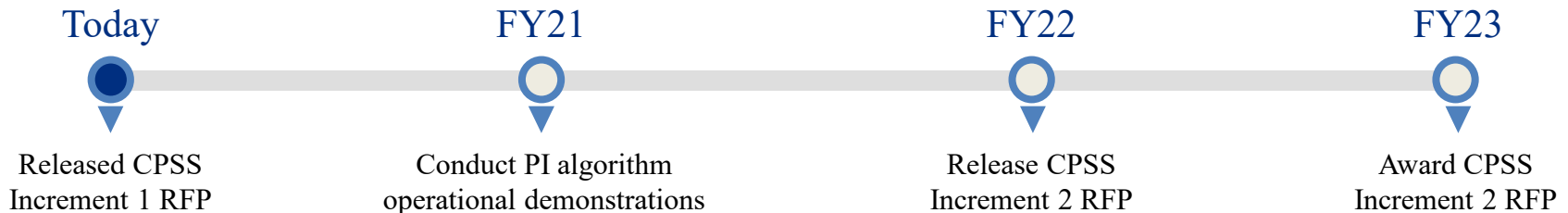
Engage with DHS S&T to establish new pathways to facilitate the identification and integration of 3rd party developers

Future State Objective

Enable a future-state Image On Alarm Only (IOAO) and risk-based screening posture

Planned Timeline

TSA aims to include PI auto-detection capabilities in the upcoming **CPSS Increment 2** window.



Given the push to realize PI detection capabilities sooner in the field, TSA seeks assistance of academia and 3rd party vendors to expedite algorithm development and evaluation activities.