

Advancing Countermeasures Architecture at TSA

Doug MacIvor

Acting Branch Manager

Countermeasures Architecture
Branch, RCA



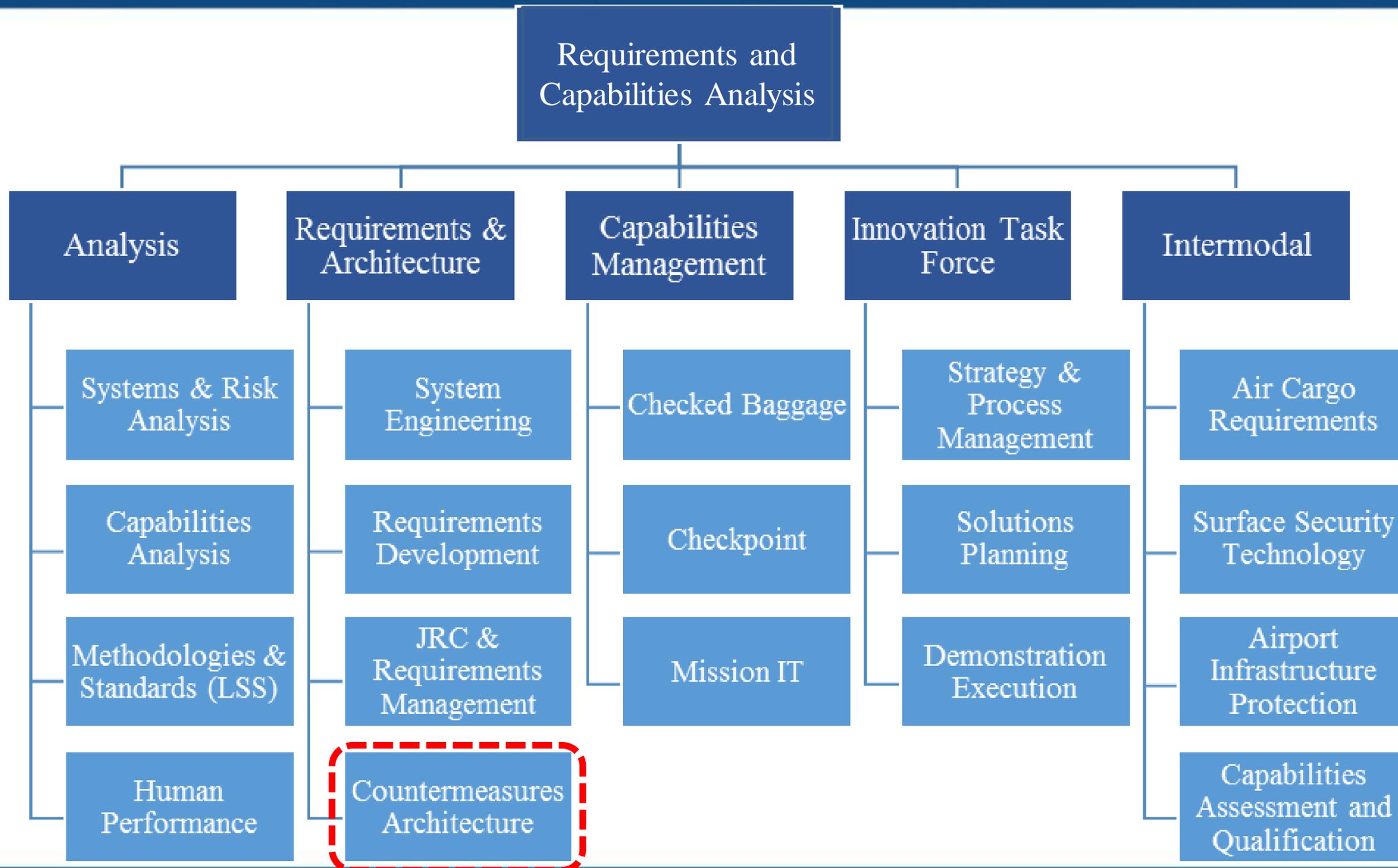
ACC/TSA Security Capabilities
Workshop

July 26, 2018



Transportation
Security
Administration

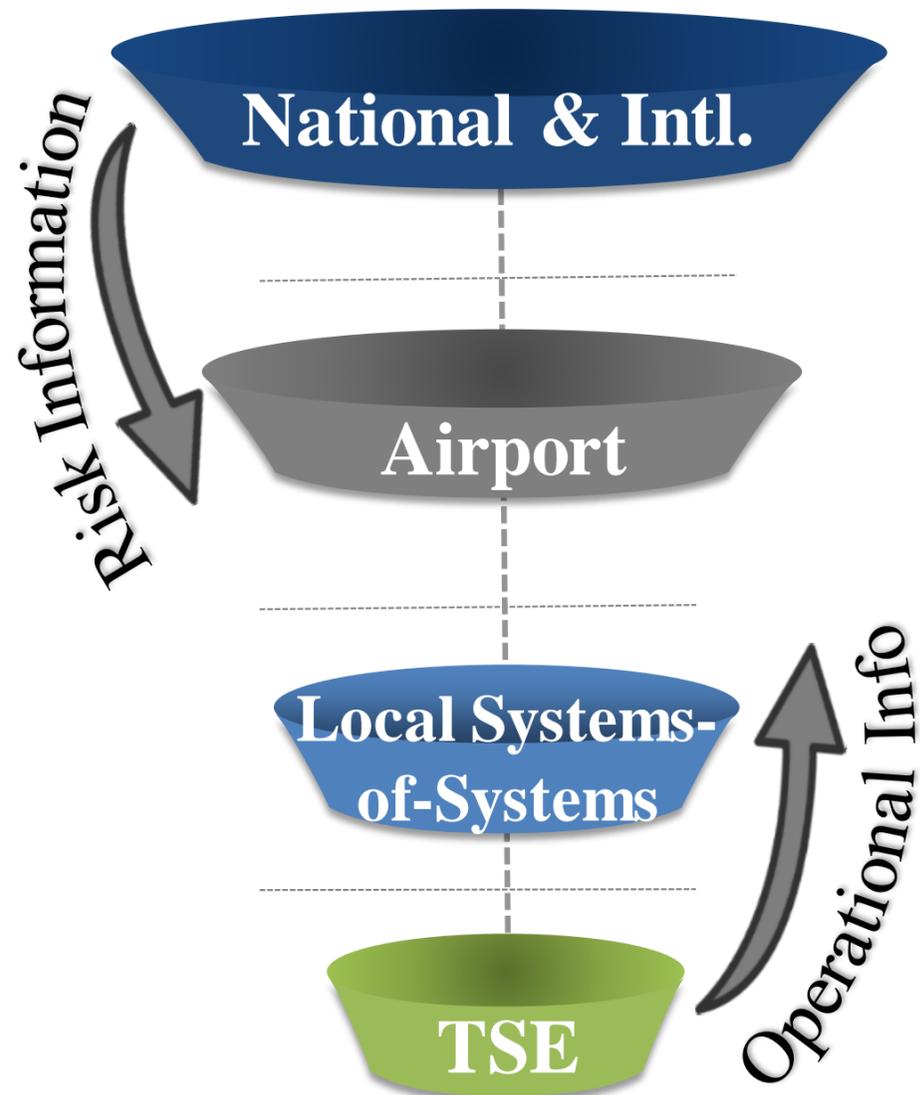
Requirements and Capabilities Analysis



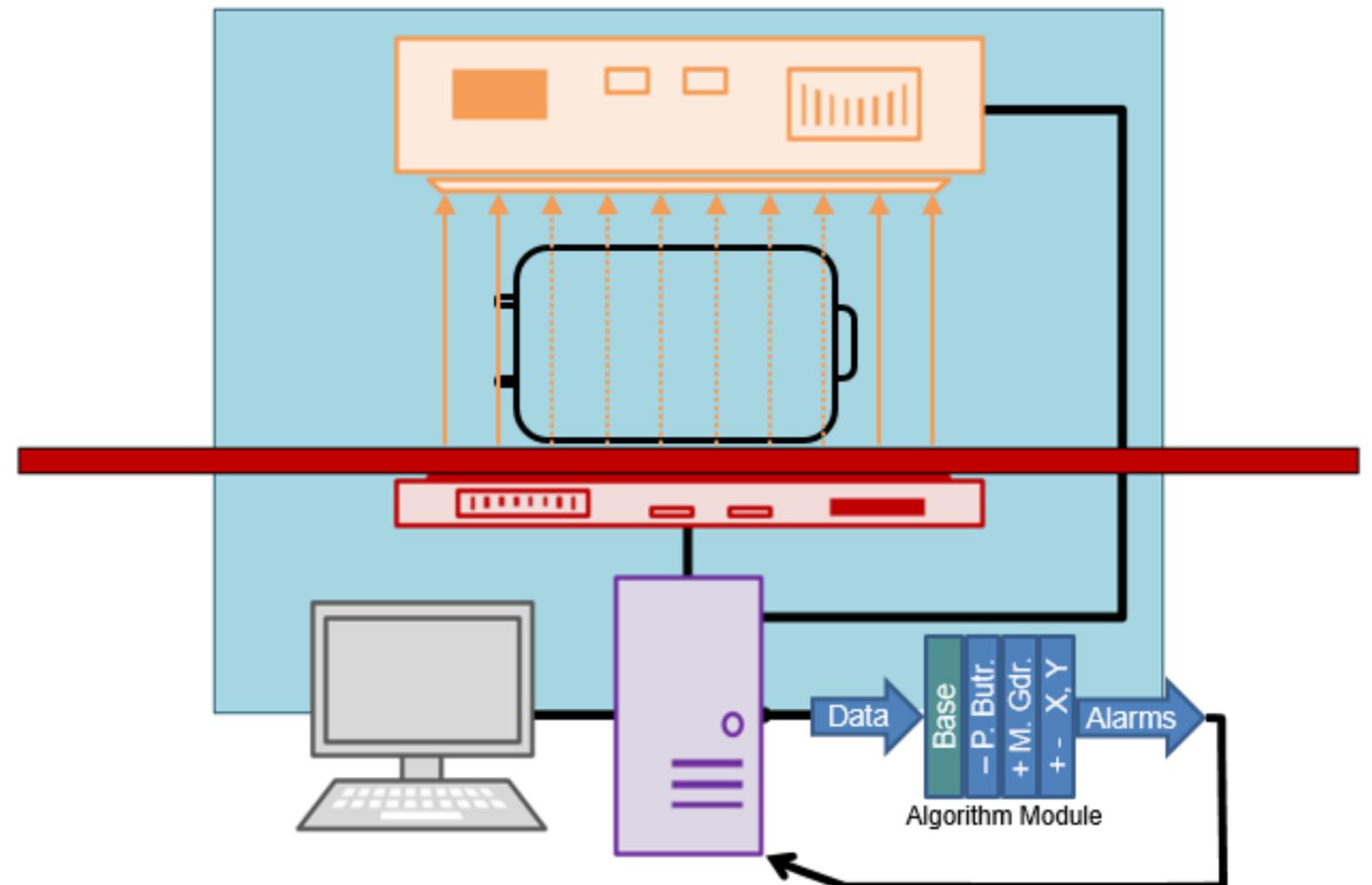
Focus Areas

Countermeasures Architecture Branch

Aviation Security Architecture

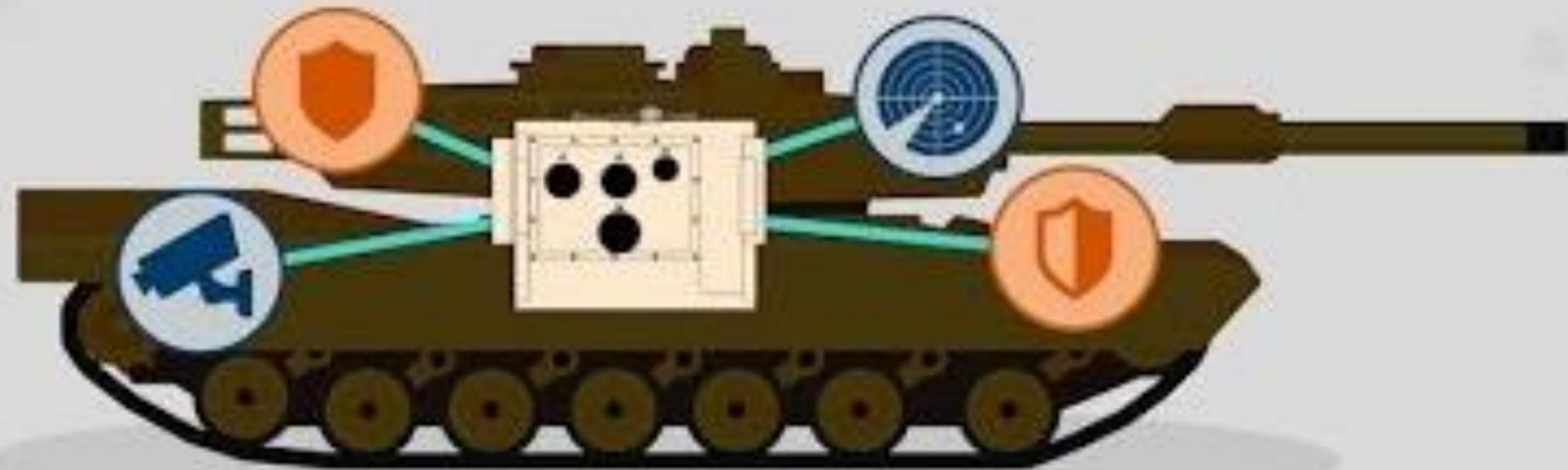


Screening Equipment Modules/Interfaces



Modular Security Example: Army MAPS

Source: Lockheed Martin / YouTube



Outcomes of Modularization at TSA



Network-enabled technologies enable **new** coordinated system-of-systems functions within airports and across the nation such as **Remote Screening**



Frequent individual module upgrades increase ease/speed to counter new threats, such as **Machine Learning** algorithms



ID traveler vetting status and adjust screening process—automatically, through new **Biometric capabilities** and networked TSE

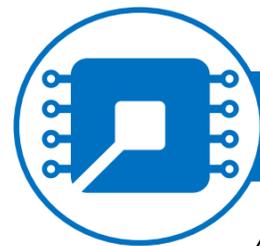


Common GUIs: enable mixed-vendor remote screening, reduce training/logistics burdens, use best-of-breed threat rendering across vendors



Improve collection of data: screening volumes, operator performance, etc. that can be used for advanced **Data Analytics** and **Modeling & Simulation**

What impacts can Industry expect?



New Capabilities

As modularity and interoperability becomes more prevalent, TSA will be able to add new capabilities to the fleet easier and more often due to defined interfaces and interoperability between vendors.



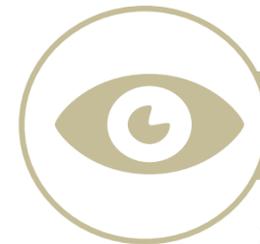
Specialization and Differentiation

As new capabilities continue to be introduced it will allow vendors the ability to choose if they want to do R&D to achieve the need or work with a 3rd party for the specialization. Allowing vendors to prioritize their own work and funds.



Streamlining Acquisitions

Smaller acquisitions tend to have simpler processes that move faster and happen more often; allowing for more predictable paychecks on a more regular basis.



Increasing Transparency

Increased transparency with industry and DHS stakeholders through RFIs, working sessions, Industry Days, and potential consortium style meetings will all allow for Industry to be informed early and often to make adjustments and develop in an agile fashion.