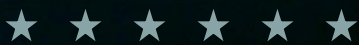


# Aviation Security Harmonization

**Domenic Bianchini**



**TSA/ACC Security**

**Capabilities Workshop**

**July 20, 2017**



**Transportation  
Security  
Administration**



# Approach

Methodology to strengthen international aviation security through collaboration

## STRATEGIC PARTNERSHIPS

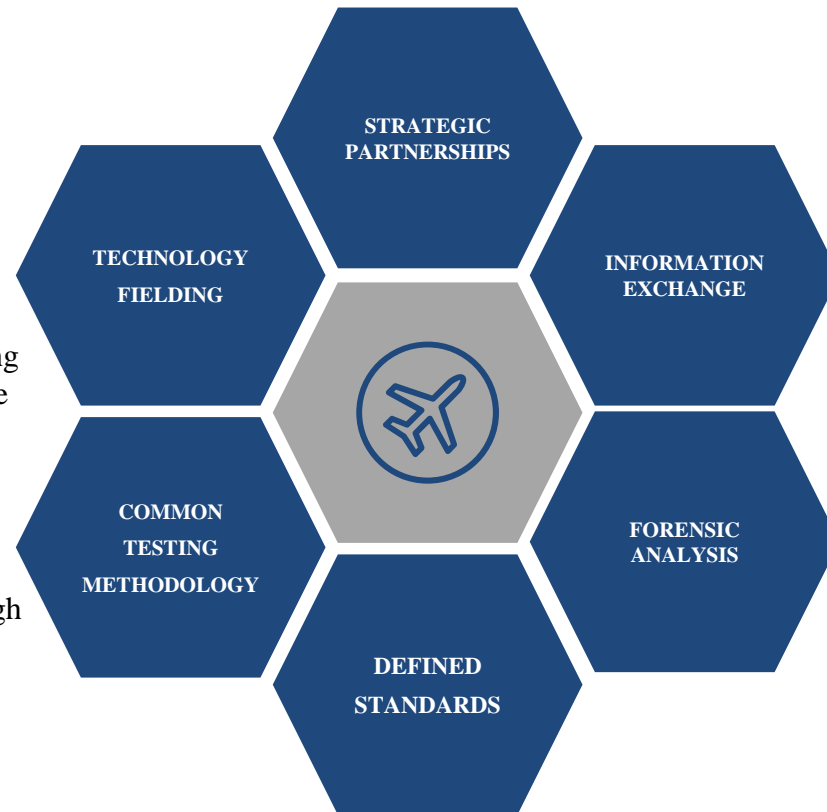
Built on strong ties with key EU Member States, EC, and ECAC

## COMMON TESTING METHODOLOGY

Share test protocols to instill consistency amongst US/EU testing centers (threat bag sets, confidence factors, clutter levels, quality control, etc.)

## TECHNOLOGY FIELDING

Rollout technical capability through planned recapitalization and EU legislation



## INFORMATION EXCHANGE

Share classified/unclassified information (i.e. detection standards, Intel, best practices, lessons learned)

## FORENSIC ANALYSIS

Comparative assessment of threat mitigation priorities and testing methodologies with a focus to align when strategically sound

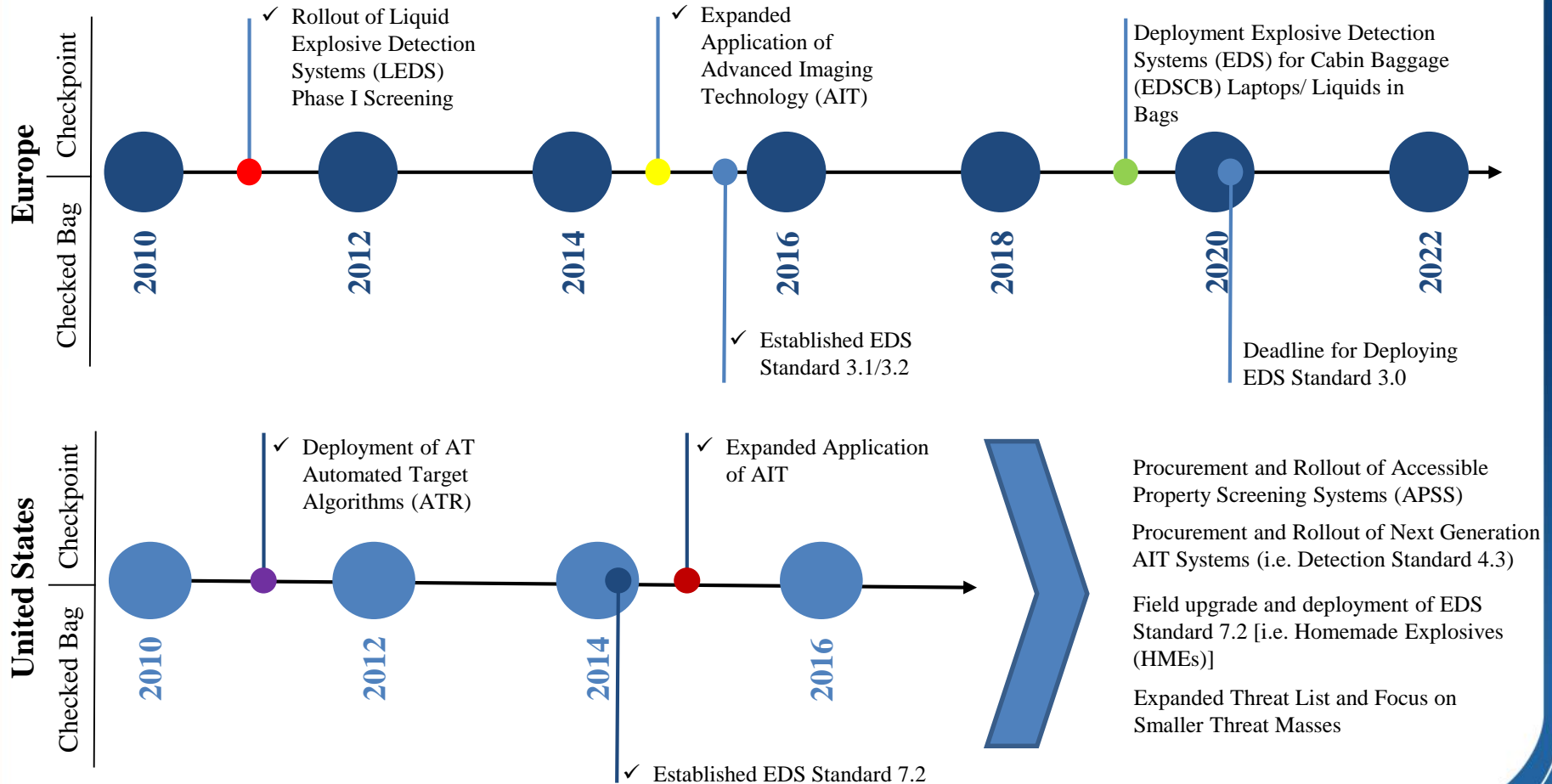
## DEFINED STANDARDS

Establish EC and TSA commensurate detection standards (ETD), (EDS), (EDCB)

Universal Approach employed across multiple Technology work streams.

# Alignment of EU/US Timelines

The US and EU are driving toward common milestones of capability on different timeframes



# Technology Work Streams

Coordination with TSA's international partners aims to further align detection standards and their deployment deadlines for existing and future technology work streams.

## Current Technologies



Explosive Trace Detection



Enhanced Metal Detectors



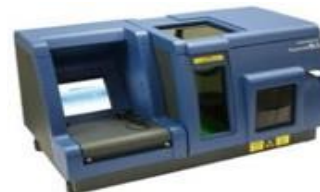
Advanced Imaging Technology/  
Security Scanners



Advanced Technology/  
Explosive Detection Scanners for Cabin Baggage (EDSCB)



Explosive Detection Systems



Bottled Liquid Scanners/  
Liquid Explosive Detection Systems (LEDS)

## Future Technologies

?

Explosive Detection System for Cargo

?

Explosive Vapor Detection

?

# Commensurate Opportunities

Through effective execution of the previously described approach, lessons learned can be applied to integral facets of aviation security including, but not limited to:



- **Threat Lists:** Substances, Concentrations, Density Ranges, Formulations, Characterization Data, etc.



- **Consistent Performance Requirements:** Probability of Detection, Probability of False Alarms, CONOPs (Laptops/ Liquids), etc.



- **Consistent Testing Protocols:** Detection Sets, False Alarm Sets, Confidence Levels, Quality Control, Threat Orientation, etc.

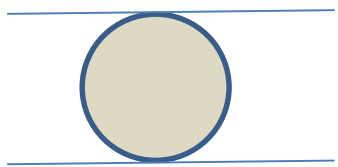
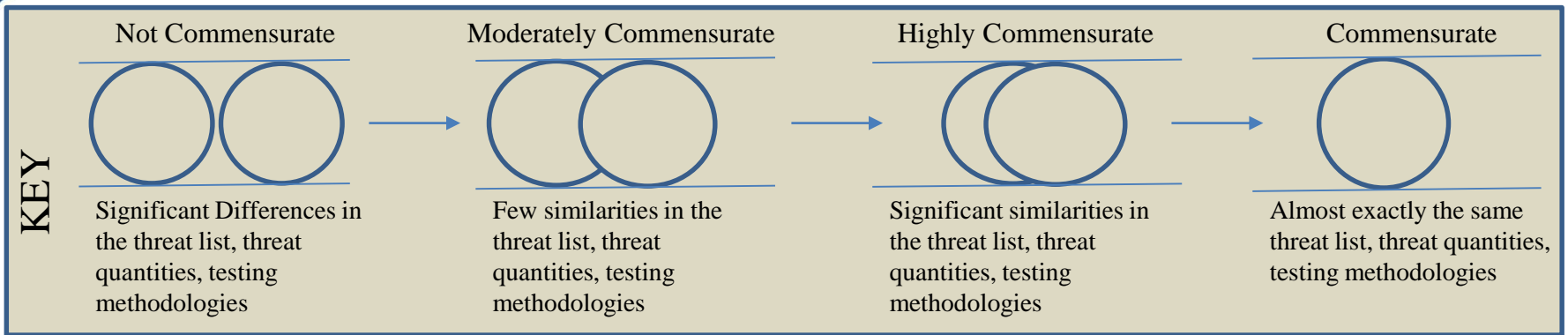


- **Consistent Reporting:** Certification/Approval letters, Reporting, vendor debriefings, Information Sharing with airports and End Users

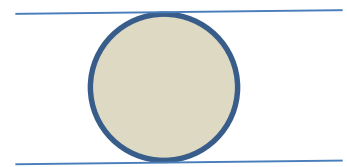


- **Reciprocity:** Mutual acceptance of test results and identified procurement entrance criteria

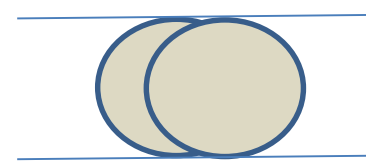
# Technology Overlap



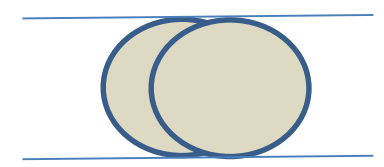
**Explosive Detection Systems**  
 ✓ **Commensurate Det. Stds:**  
 (US: Ver. 5.8/ EU Ver. 3.1)  
 (US: Ver. 7.2/ EU Ver 3.2)



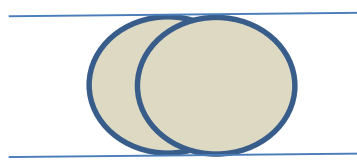
**Explosive Trace Detection**  
 ✓ **Det. Stds:** Commensurate  
 (US: Ver. 6,2/ EU Ver. 1.0)



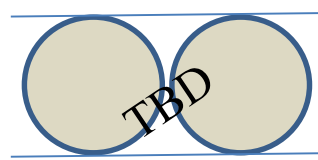
**Carry-on Screening**  
 ✓ **Det. Stds:** Commensurate  
 (US: Ver. 4.5/ EU Ver. 1.0)  
 • **CTMs:** Under Review



**Passenger Screening**  
 ✓ **Det. Stds:** Commensurate  
 (US: Ver. 4.1 Tier III/ EU Ver. 1.0)



**Liquid Screening Technology**  
 ✓ **Det. Stds:** Commensurate  
 (US: Ver. 4.5/ EU Ver. 1.0)



**Enhanced Metal Detectors**  
 • **US/EU:** Revisions ongoing

# Next Steps

- Leverage strategic partnerships with key EU Member States to understand timelines for rolling out new aviation screening technology capabilities in the US and abroad
- Partner with ECAC through the Technical Taskforce and Technology Study Groups to share threat lists, threat masses, and common testing methodologies
- Work with EC, ECAC and EU Member States to expand TSA/EU databases of international classified detection standards, common testing methodologies, and test data (level 1, 2, 3 reports)
- Strengthen collaboration with EU industry representatives to drive innovative screening solutions and help forecast market and revenue streams
- Expanded focus on leveraging information sharing agreements with ASIA, Middle East, and Western Hemisphere partners to continue pushing next generation solutions
- Host and participate in US/EU test center exchanges to instill greater consistency in testing methodologies and common evaluation process