

Summary and Next Steps

Carl Crawford, Steve Glenn and
Harry Martz

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What Did We Hear?

- Israel, UK, US and others defined their problems
- Technologies need to be:
 - Cognizant of the real environment
 - Demonstrated, tested and evaluated
 - Advanced and new ones developed
- Gaps and requirements are available
 - Gov't needs to determine what can be shared
- It is not clear the community has solutions
- Need to determine costs and risks
 - Problem is difficult compared to aviation security
- Quickly adapt as adversary adapts
 - Difficult with current procurement process
- Big data, meta data is important
 - May be privacy issues for sharing
- Difficult to work with governments

What Did We Hear cont'd?

- Data analytics and images analysis
- Currency tracking
- Low standby power <10 nW distributed sensors
- Distributed Ledger technology: Blockchain
- Cost and risk benefit analysis
- People screening & tracking
- War, procurement, etc. gaming
- Standard viewers, file formats, some meta data, etc.
- Automated explosives, drugs, prohibited items, etc. detection
- Trace chemical identification
 - Raman
 - EZ-3D, NRF
 - Mass Spectroscopy
 - Trace detection
- Bulk detection systems
 - X-rays
 - Neutrons
 - Animals: Dogs, Bees, Rat & Elephants

What can the innovators do?

- Innovate
- Be honest about capability and performance
- Solve specific, not general problems
- See some bullets on the first slide

What we did not hear

- System of systems, layered systems
- Deterrence, how do you measure it
- How to make a profit
- Not clear how to acquire and work with big data
- Enhanced ways to measure success and failure
- Border Technology Security Consortium (BTSC)
- Simulant criteria
- What happens to the workshop if ALERT goes away
- How researchers get access to drugs, etc.

ADEPT 3 Topics

March 2020

- Big Data
- A concise description of what Customs needs
- Opioids in detail
- How to speed up engagement
- How to inform CBP technologies that are out there
- Deterrence, randomization
- Hear from more operators, ports, CONOPS
- Who are the stakeholders, how to team
- How do we generate open data sets for CBP as we did for TSA ...
- Others ???