



DHS SCIENCE AND TECHNOLOGY

Northeastern ADEPT Conference

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**Homeland
Security**

Science and Technology

David Taylor

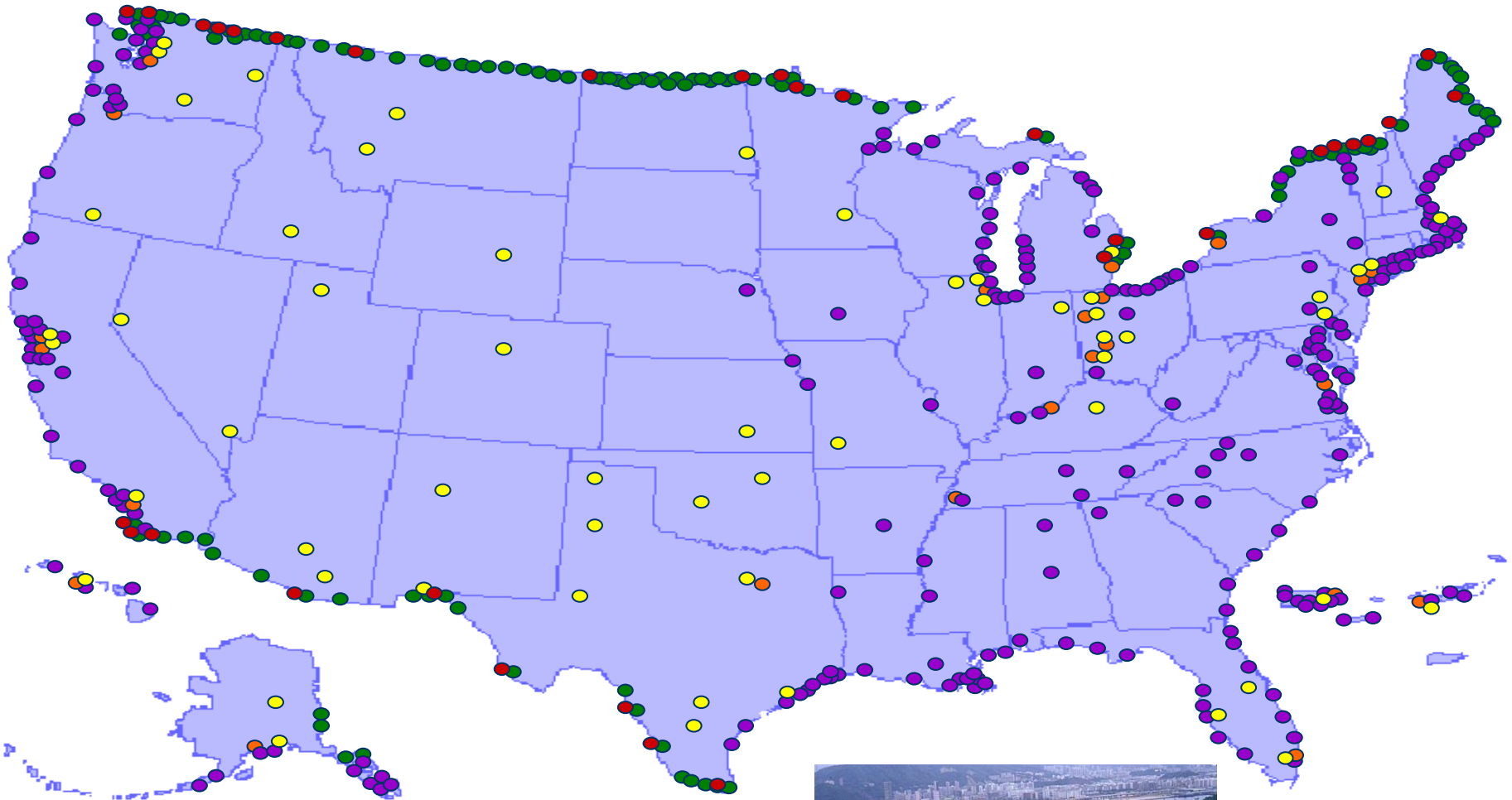
CBP Portfolio Manager

Science & Technology Directorate

Conference Introduction

- David Taylor, DHS S&T Portfolio Manager for CBP Office of Field Operations and Office of Trade.
- DHS S&T provides R&D solutions to CBP.
- There are over a 100 people attending, 20-25 speakers.
 - From different industries, Foreign Governments, Government agencies and Center of Excellence and University partners.
 - We need innovative people with new ideas to use this conference as a means of improved dialogue and collaboration.
- We have a complex operational environment and there is no magic wand that will do everything.
 - There is no one-stop solution or shortcut
- Technology providers need to understand CBP's Operational Environment.
- We hope you enjoy the Conference today and the dialogue from various speakers.

United States Ports of Entry



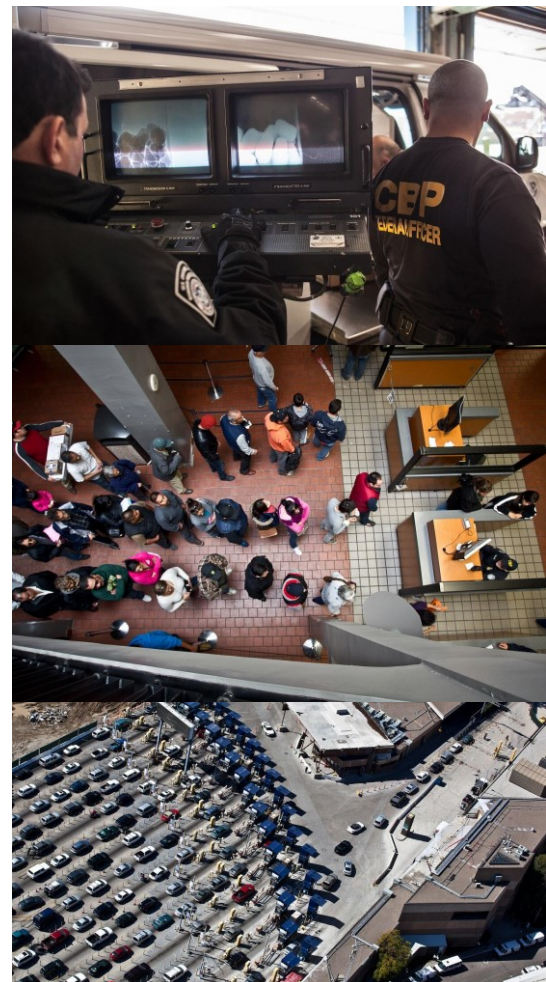
Ports of Entry

- **Environment:** Processed through 328 Ports of Entry annually:
 - 25+ million containers
 - CBP processed 390 million travelers, 119 million at air ports of entry
 - 74+ million POVs pass across the southern border annually
 - Nine major International Mail Facilities arriving from more than 180+ countries, as well as 25 established express consignment carrier (ECC)
- **Threat:**
 - Drugs, terrorists and transnational Criminal Organizations, contraband, potential pathway for WMD, customs violations, agriculture threats
 - Emerging Opioid Crisis
- **Current Operational Issues:**
 - Lack of reliable technology and data cause many “good” containers to be inappropriately designated as “High Risk”
 - Need to scan a higher volume of containers
 - Aging fleet of cargo scanning equipment with high maintenance costs
 - CBP OFO manpower expected to remain flat in out-years
 - Increasing traffic volume
 - Lack technologies to detect and interdict synthetic opioids.
 - Improved biometric capabilities to strengthen traveler vetting and facilitate legitimate travel.



Where we are focusing our R&D Dollars.

- Enhance detection capabilities for all threats
- Improve the capability to improve cargo data analytics
- Biometrics to strengthen traveler vetting and facilitate lawful and legitimate travel
- Build operational capability for agricultural and biological threats.
- Enhance biometric capability in vehicles at speed.
- Improve capability for agencies to enforce trade laws against counterfeit, unsafe, and fraudulent inbound/outbound goods.
- Research economic impacts for all facets of trade
- Build a futurist vision by providing support from leading edge technology investors (ie Natl' Labs) and develop coalitions between DARPA research, S&T testing of multiple products and CBP operational needs.



In Summary

- Over a 100 people attending
- About 20-25 speakers
 - From different industries, Foreign Governments, Government agencies and Center of Excellence and University partners.
- We face challenges. Let's face them together.
 - There is no one-stop solution or shortcut
- I challenge the Conference Technology providers to understand CBP's Operational Environment.
 - Which one of you is going to be an innovator?
- We hope you enjoy the Conference
- We need innovative people with new ideas to use this conference as a means of improved dialogue and collaboration.