S&T Stakeholders Conference

Borders Thrust Area

CAPT Dave Newton
Division Director (Acting)
Borders & Maritime Security Division
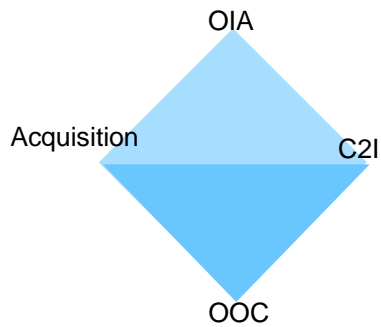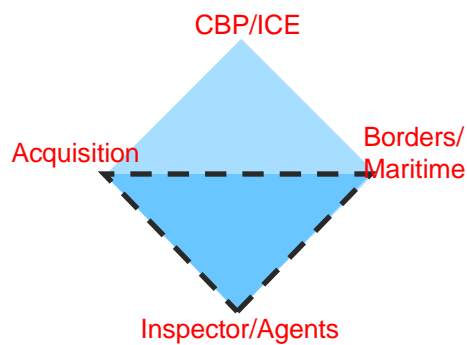Science and Technology Directorate

June 2-5, 2008
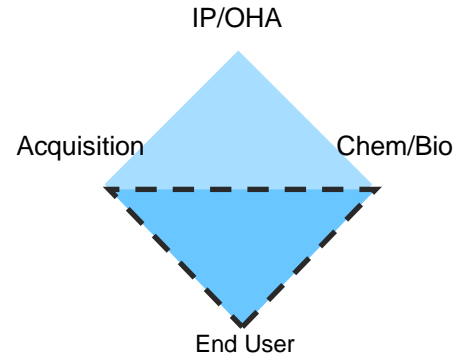
PARTNERING FOR A SAFER NATION

DHS Capstone IPTs

Information Sharing/Mgmt
- OIA
- Acquisition
- C2I
- OOC

Border Security
- CBP/ICE
- Acquisition
- Borders/Maritime
- Inspector/Agents

Chem/Bio
- IP/OHA
- Acquisition
- Chem/Bio
- End User

Maritime Security
- USCG
- Acquisition
- Borders/Maritime
- Guardsmen

Cyber Security
- CS&C
- Acquisition
- Infrastructure/Geophysical/C2I
- Infrastructure Owners/Operators
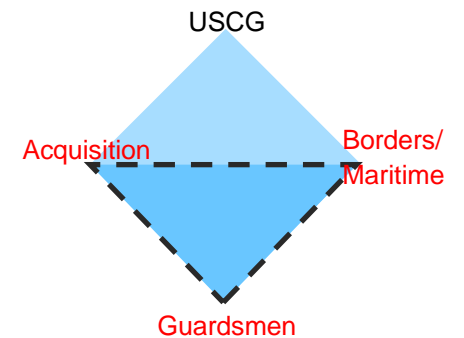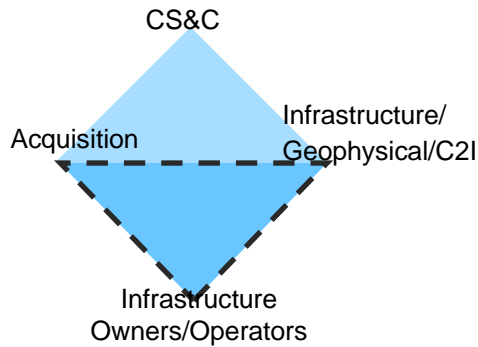
Transportation Security
- TSA
- Acquisition
- Explosives
- End-User

Counter IED
- OBP/USSS
- Acquisition
- Explosives (Human Factors / Infrastructure Geophysical)
- End-User

Cargo Security
- CBP
- Acquisition/Policy
- Borders/Maritime
- Officers/Industry
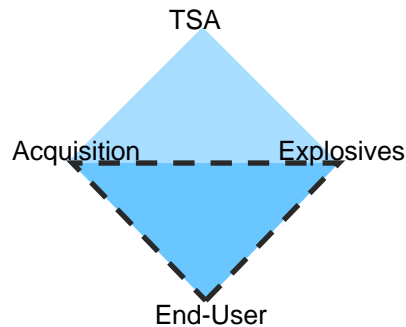
People Screening
- SCO/CIS
- Acquisition
- Human Factors
- US VISIT/TSA
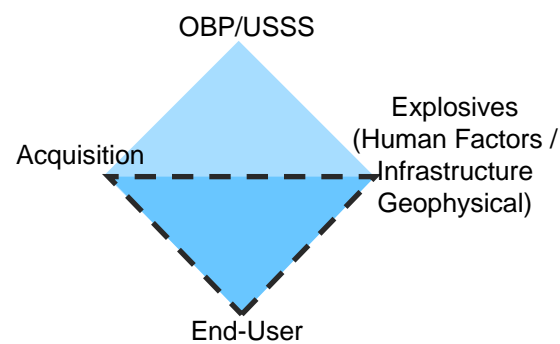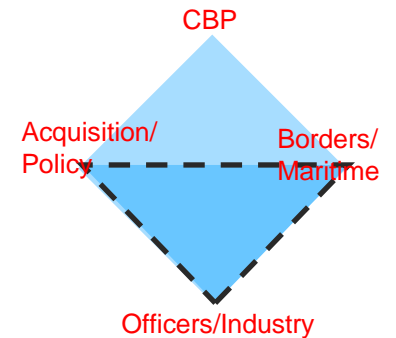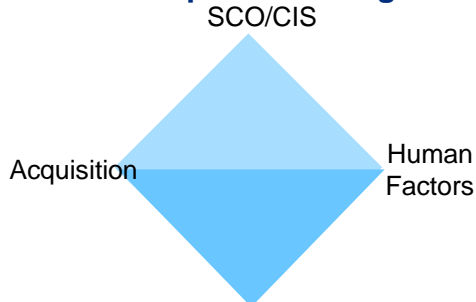
Infrastructure Protection
- IP
- Acquisition
- Infrastructure/Geophysical
- Infrastructure Owners/Operators

Incident Management

Interoperability
- FEMA/OEC
- Acquisition
- C2I
- First Responders

Prep & Response
- FEMA
- Acquisition
- Infrastructure/Geophysical
- First Responders

Homeland Security

2
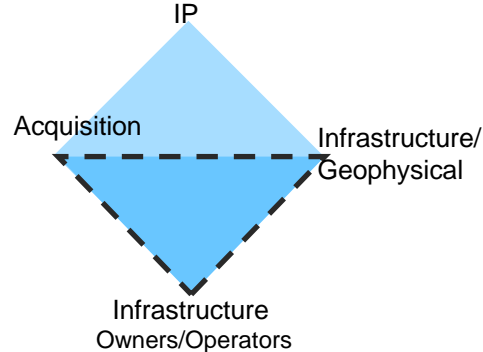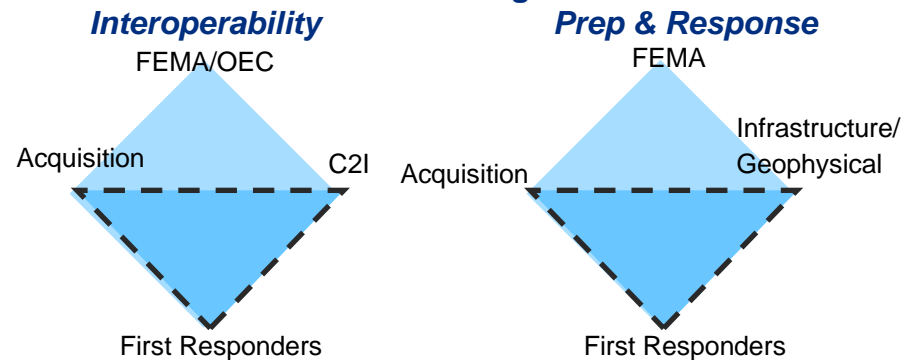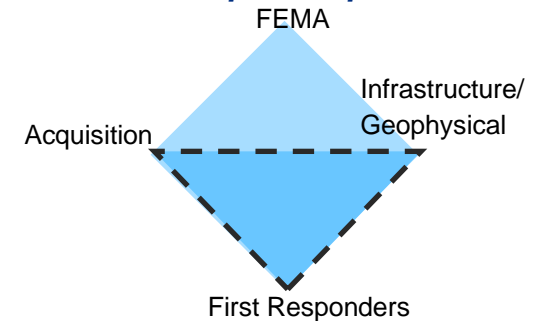
Representative Technology Needs

Border Security

- Detection, tracking, and classifying terrestrial and maritime border threats in all environments (i.e. tunnel detection, rugged terrain, concealing foliage, water obstacles, mountains)

- Improved personal protective equipment; ballistic protection focused on lighter weight, wider variety of projectiles and integrated helmet protection

Maritime Security

- Wide-Area Surveillance: Detection, ID & tracking of vessels from inland waters to the port region; from the coast to beyond the horizon

- Data fusion and automated tools for command center operations; ability to view entire scenes and provide threat alerts, automate tasking and relocation of blue forces with recommended courses of action. Provide for info-sharing and geo-dispersed collaboration
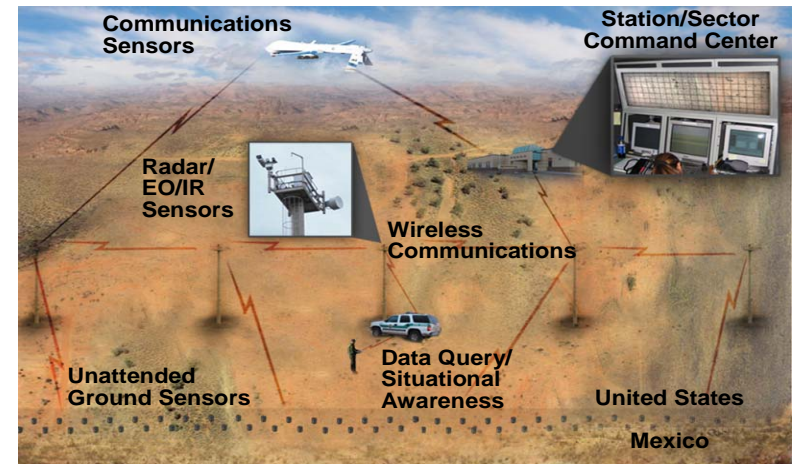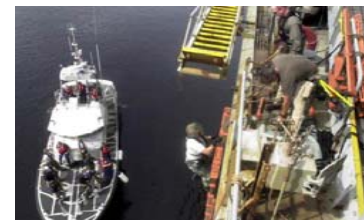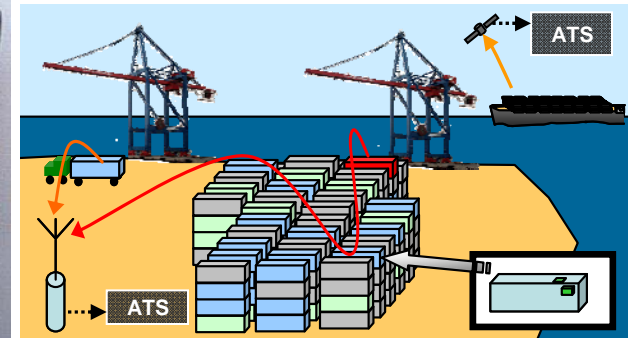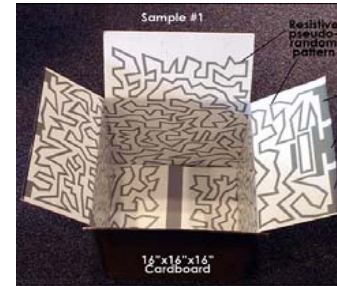
Cargo Security

- Improve automated imagery detection capability for anomalous content (e.g., stowaways, hidden compartments, contraband), and the ability to detect anomalous patterns in shipping data

- Detect and identify chemical and biological threats, explosives, and contraband
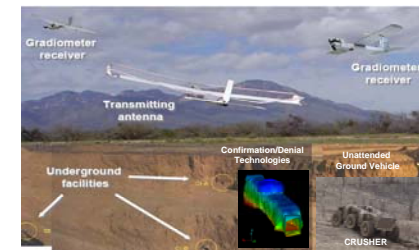
Area of Focus

1. Describe how the DHS S&T Capstone IPT process addresses your operational requirements

2. Provide examples of how DHS S&T is focused on transitioning essential capability to your DHS Component

3. Describe a recent operational challenge that requires a material (S&T) solution

4. Briefly describe how your component identifies gaps in your operational capabilities

Homeland Security

4

U.S. DEPARTMENT OF HOMELAND SECURITY

Homeland Security