Our Area of Focus
The Threats

- Intercontinental Ballistic Missiles
- Natural Disasters
- Terrorism
- Cruise Missiles
- Illicit Trafficking
- Illegal Migration
- Pandemic Disease
- Manmade Disasters
Total Force/Interagency Team

60 Organizations are part of our Team!!!

Redefining Jointness…Success Through Effective Relationships
Capability Focus Areas

Multi-Domain Surveillance - Air, Maritime, Land

Air Sovereignty Alert (ASA)

Integrated Air and Missile Defense (IAMD) of the Homeland

Interoperable Communications

Engage and Defeat Domestic Maritime Attacks

Cyber Capabilities
Multi-Domain Surveillance:
-Air Domain:
  Sensor coverage limited for both missiles and air breathers

Near-term Focus - netting existing sensor capability utilizing space, airborne and terrestrial based sensors

- C2 Gap Filler JCTD (DOD&DHS co-sponsors)
Multi-Domain Surveillance:

-Maritime Domain:

   Inability to detect engage and defeat maritime threats

Near-term Focus – P-8A Poseidon Multi-Mission Aircraft, Broad Area Maritime Surveillance, Next Generation OTHR, National Technical Means, as well as developing biometrics capabilities to identify persons of interest.

Capability to provide persistent surveillance and tripwire for missile defense and detecting uncooperative vessels

Capability to provide theater to theater high BW comms minimizing dependence on satellite and fiber cable comms
Multi-Domain Surveillance:

- Land Domain:
  No reliable system exists to surveil the border regions quickly and accurately to locate tunnels under the border

Near-term Focus – leveraging inexpensive passive seismic & acoustic sensors that have shown promise in operational settings, layering in active sensors to create a systems of systems approach

  - Rapid Reaction Tunnel Defeat JCTD (DOD&DHS co-sponsors)
Capability Focus Areas

Air Sovereignty Alert (ASA):
- BLOS communication with aircraft is a challenge, especially in northern latitudes and in remote areas
  Study way ahead for to provide BLOS comms to next generation ASA aircraft

Integrated Air and Missile Defense (IAMD) of the Homeland:
- Integrated defense for continuous, real-time discrimination for threat launch through impact for cruise missile, other low-altitude aircraft and short range missile attacks

http://www.youtube.com/watch?v=8LCMzyfK1ls
Club-K Container Missile System
Interoperable Communications

- Lack of capability in Command, Control, Communications, and Computes C4 system survivability and information transport significantly hinder C2 across all mission sets and with full range of mission partners.

High altitude laser comms (both platform and laser comm payload)

Conduct AoA on communications given expanding arctic accessibility
Capability Focus Areas

Engage and Defeat Domestic Maritime Attacks

- With short notice of a potential threat approaching the US from the maritime domain, available US Maritime Homeland Defense forces have an inadequate ability to engage and defeat near-simultaneous threats to the Homeland

  Non-lethal vessel stopping
Cyber

- As we rely more and more on net centric operations, the homeland becomes increasingly vulnerable to globally dispersed threats originating from or traveling through cyberspace. Cyber capabilities are needed to control and safeguard information as we simultaneously seek to expand information access with our many and varied mission partners.

Limited ability to defend the network
Lack of forensics
Collaboration with DHS
