Enhancing Situational Awareness for Risk-Informed, Intelligence-Driven Operations
Who We Are

U.S. Customs and Border Protection (CBP)
MISSION STATEMENT

We are the guardians of our nation’s borders.

We are America’s frontline.

We safeguard the American homeland at and beyond our borders.

We protect the American public against terrorists and the instruments of terror.

We steadfastly enforce the laws of the United States while fostering our nation’s economic security through lawful international trade and travel.

We serve the American public with vigilance, integrity and professionalism.
National Operations
International Operations
Three Pronged Mission

Securing America’s Borders

Securing and Expediting the Movement of People

Securing and Expediting the Movement of Goods
Three Pronged Mission

Securing and Expediting the Movement of Goods

On Average Each Day in FY 2013:

- CBP facilitated approximately $6.5 Billion in trade. (Over $2.38 trillion annually)
- Processed over 67 thousand truck, rail, and sea containers. (Over 24 million annually)
- Seized over $291 thousand in undeclared currency. (Over $100 million annually)
Three Pronged Mission

Securing and Expediting the Movement of Goods

On Average Each Day in FY 2013:

• CBP seized $4.7 million worth of products with Intellectual Property Rights violations.
• Discovered 440 pests at U.S. ports of entry and 4,379 materials for quarantine.
Three Pronged Mission

Securing and Expediting the Movement of People

On Average Each Day in FY 2013:

- CBP processed over 900 thousand arriving passengers and pedestrians.
- Refused the entry of 366 inadmissible persons at ports of entry.
- Intercepted 48 fraudulent documents.
Three Pronged Mission

On Average Each Day in FY 2013:

- Arrested 22 wanted criminals at ports of entry.
- Apprehended over 1100 people between ports of entry.
- Identified 137 individuals with suspected national security concerns.
- Seized over 11 thousand pounds of drugs.
- Flew 169 hours enforcement missions over the United States.

Securing America’s Borders
Uniformed Components

United States Border Patrol

Office of Field Operations

Office of Air and Marine
United States Border Patrol

Who We Are
History of the Border Patrol

• On May 28, 1924, Congress passed the Labor Appropriation Act, officially establishing the U.S. Border Patrol for the purpose of securing the borders between inspection stations.

• On March 1, 2003, U.S. Customs and Border Protection (CBP) was created as part of the Department of Homeland Security.
The Border Patrol is the primary federal law enforcement agency between the ports-of-entry.

- We enforce the laws that protect America’s homeland by the detection, interdiction, and apprehension of those who attempt to illegally enter or smuggle any person or contraband across our Nation’s sovereign borders.

- Our priority mission is preventing terrorists and terrorists weapons, including weapons of mass destruction, from entering the United States.
The 2012-2016 Border Patrol Strategic Plan commenced May 2012.

The principal theme of the strategy is to use Information, Integration, and Rapid Response to manage risk.

The strategy puts the Border Patrol’s greatest capabilities in place to combat the greatest risk.
Area of Operations

The Border Patrol is Specifically Responsible for:

• Nearly 6,000 miles on the Mexican and Canadian land borders
• Over 2,000 miles of coastal waters surrounding Florida and Puerto Rico.

Agents work around the clock on assignments, in all types of terrain and weather conditions.
Border Patrol Sectors

20 Sectors (approx. 21,000 agents nationwide)
- 8 Northern Border Sectors
- 9 Southern Border Sectors
- 3 Coastal Sectors

136 Stations and Sub-Stations
- 49 Northern Border Stations
- 71 Southern Border Stations
- 12 Coastal Border Stations
- 1 Northern Border Sub-Station
- 3 Southern Border Sub-Stations
Apprehensions

486,651 Illegal Alien Apprehensions FY 2014

- Northern Border Sectors: 3,338
- Southern Border Sectors: 479,371
- Coastal Sectors: 3,942
Seizures

1,922,545 Pounds Marijuana Seized in FY 2014
Securing the Border
Managing Risk and Responding to Threats

Who We Are
Border Patrol Agents

- The Border Patrol is required by Congress to maintain 21,370 agents and 1,874 support personnel nationwide.
- 2,212 agents for the Northern Border.
- 18,351 agents for the Southwest Border.
- 138 agents for the Coastal Border.
- All newly hired Border Patrol Agent Trainees are required to complete a vigorous academy; instruction includes Law/Operations, Driver Training, Physical Techniques, and Firearms.
Specialized Response Capability

**BORTAC**
The Border Patrol Tactical Unit is specially trained and equipped for threats to national and border security requiring specialized tactics and techniques.

**BORSTAR**
The Border Patrol Search, Trauma, and Rescue Team is capable of emergency search and rescue situations anywhere in the United States.

**Mobile Response Team**
A group of organized, trained, and equipped agents who provide rapid response capability for fluctuating risk along the border.
The Border Patrol uses coherent change-detection to gather situational awareness and intelligence. Augmenting this effort, sign-cutting, tracking, and technology deployments are used to determine if previously unidentified threats are present in an area.
Enhancing Situational Awareness
Supporting Risk-Informed, Intelligence-Driven Operations

The Role of GIS in Border Security
Enhancing Situational Awareness
Supporting Risk-Informed, Intelligence-Driven Operations

- Establish a foundation of geographic information.
- Plan, coordinate, and implement GIS services, standards and programs.
Enhancing Situational Awareness
Supporting Risk-Informed, Intelligence-Driven Operations

- Increase Operational Effectiveness
- Enhance Officer Safety
- Facilitate Change Detection
- Promote Efficient and Cost Effective Resource Deployment
Enhancing Situational Awareness
Cultivate Five Core Objectives

- Collection
- Cartography
- Analysis
- Tracking
- Visualization

Role of GIS
Enhancing Situational Awareness

Collection:
Collect, Process, Manage and Distribute Spatial Data
Operation Waypoint

• Nationwide GPS data collection effort
• The operation has been ongoing since 2003
• Each Border Patrol Station has at least one collection kit
• Border Patrol agents are trained to use Trimble GPS units
• Agents gather precise coordinates of Border Patrol specific features, such as:
  ✓ Facilities
  ✓ Landmarks
  ✓ Detection Towers
  ✓ Pedestrian Fencing
  ✓ Layup Locations
  ✓ Rescue Beacons
Enhancing Situational Awareness

Cartography:
Create Accurate Cartographic Products

Core Objectives
Map Production

Over 3,000 map products since FY10

- Support for OBP, CBP, DHS, POTUS, etc.
- Assistance to USBP field
- Can be made available/shared through eGIS, SharePoint, eGIS Portal, Print
Enhancing Situational Awareness

Analysis:
Perform Spatial Analysis and Modeling
Spatial Analysis and Modeling

Analysis of resources, activity patterns, trends, etc.

- Density/Hotspot
- Viewshed
- Gap Analysis
Enhancing Situational Awareness

Tracking:
Implement Location-Based Detection, Alerting, Dispatch and Asset Tracking

Core Objectives
Tracking, Signcutting & Modeling

Tracking Signcutting & Modeling (TSM) provides a real-time record of signcutting & tracking operations. Foot sign, agent observations, suspect location, event status are updated and displayed on the map.
Enhancing Situational Awareness

Visualization:
Provide Web-Based Mapping, Visualization and Situational Awareness
Visualization

Enterprise Geospatial Information Services (eGIS) provides a wide array of visualization capabilities.

- **eGIS Map Viewer** provides a common operating picture.
- **eGIS Portal**, our on premises implementation of Portal for ArcGIS, provides users of all skills levels ad-hoc visualization and information sharing capability.
- **Intelligent Computer Assisted Detection version 4 (ICAD4 / I4)** provides a real time interface for dispatch including location and status of agents, citizen tips and sensor alarms nationwide.
- **ICAD4 Command and Control (i4c2)** combines eGIS and ICAD4 to provide a robust situational awareness viewer common across the agency.
i4c2 featuring eGIS and I4 Live

ICAD – I4 Live
Sensors & Agent Dispatch

eGIS Map Viewer

ICAD – I4 Live
Multi-Image Viewer

i4c2 – eGIS (center monitor)
eGIS (*some data points are offset or notional for operational security)
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i4c2 featuring eGIS and I4 Live

ICAD – I4 Live
Sensors & Agent Dispatch

eGIS Map Viewer

ICAD – I4 Live
Multi-Image Viewer

i4c2 – eGIS (center monitor)
More than 10 distinct GIS and related systems created and managed by CBP-GIS

Over 500 layers of information supporting Situational Awareness
Coming soon for Agents: AVP

- Agent-only support and visualization tools allow agents to receive alerts, tips and sensor alarms as text based messages or on the map for quick reference.
- Using eGIS services, AVP will be able to provide basic routing for many urban areas.
- As a part of ICAD, AVP will easily integrate with ICAD Tracking and Signcutting Modeling (TSM).
  - Agents can share their Blue Force and signcutting information for more efficient and safer operations.
  - Using I4C2 (eGIS and ICAD), ongoing signcutting operations can be briefed at muster and activity can easily be passed down to oncoming units.
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Thank You!
UNITED STATES BORDER PATROL

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