

## Enhancing Situational Awareness for Risk-Informed, Intelligence-Driven Operations

# 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.





















Securing and Expediting the Movement of Goods

On Average Each <u>Day</u> 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)





Securing and Expediting the Movement of Goods

On Average Each <u>Day</u> 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.





Securing and Expediting the Movement of People

On Average Each <u>Day</u> 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.





#### Securing America's Borders

#### 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.

### **Uniformed Components**









### 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 Today





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.



### Border Patrol Strategic Plan

U.S. BORDER PATROL

- 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.

#### PILLARS OF THE STRATEGY

information to provide situational awareness and intelligence development.

with our international, Federal, state, local and tribal law enforcement.

RAPID RESPONSE - As threats evolve and risks fluctuate, the Border Patrol will adapt and respond quickly.





### Area of Operations





- 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.





### Area of Operations





#### **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







### **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.





### Change Detection







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.



Supporting Risk-Informed, Intelligence-Driven Operations

The Role of GIS in Border Security





Supporting Risk-Informed, Intelligence-Driven Operations

- Establish a foundation of geographic information.
- Plan, coordinate, and implement GIS services, standards and programs.



Supporting Risk-Informed, Intelligence-Driven Operations

- Increase Operational Effectiveness
- Enhance Officer Safety
- ❖ Facilitate Change Detection
- Promote Efficient and Cost Effective Resource Deployment



Cultivate Five Core Objectives

- Collection
- Cartography
- Analysis
- Tracking
- Visualization





### 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







### Cartography:

Create Accurate Cartographic Products



### Map Production



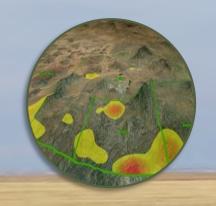


#### Over 3,000 map products since FY10

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







Analysis:

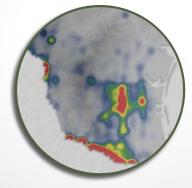
Perform Spatial Analysis and Modeling



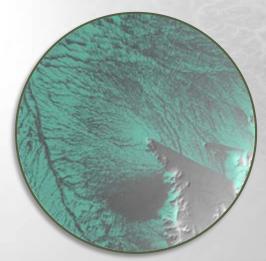
### Spatial Analysis and Modeling



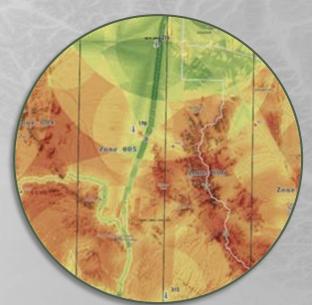
Analysis of resources, activity patterns, trends, etc.



Density/Hotspot



Viewshed



Gap Analysis





### Tracking:

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



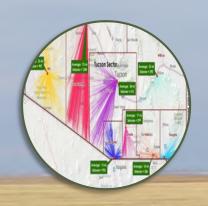
Tracking, Signcutting & Modeling



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.







### 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.

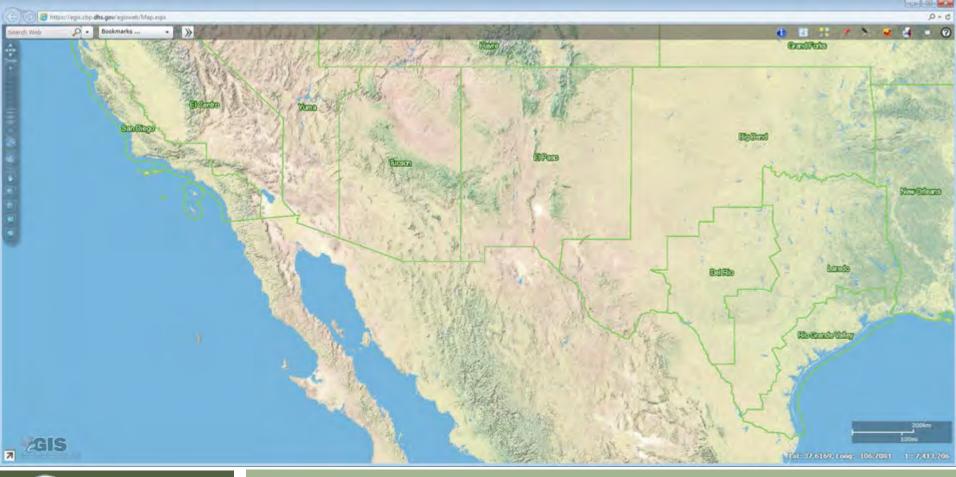


# i4c2 featuring eGIS and I4 Live

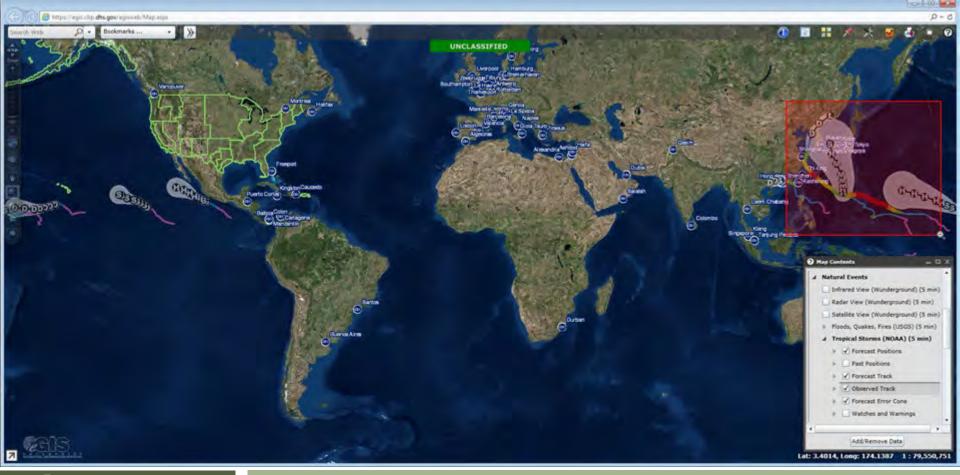
ICAD – I4 Live
Sensors & Agent Dispatch

eGIS Map Viewer

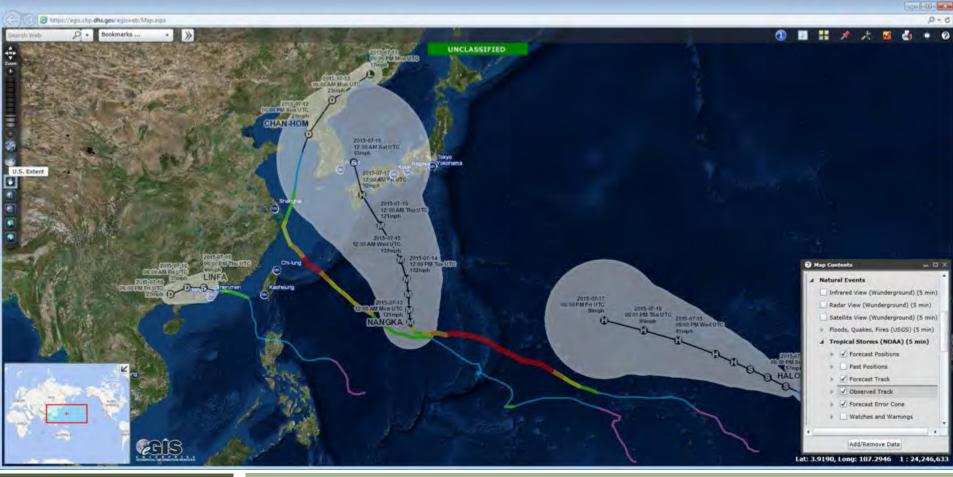
Multi-Image Viewer



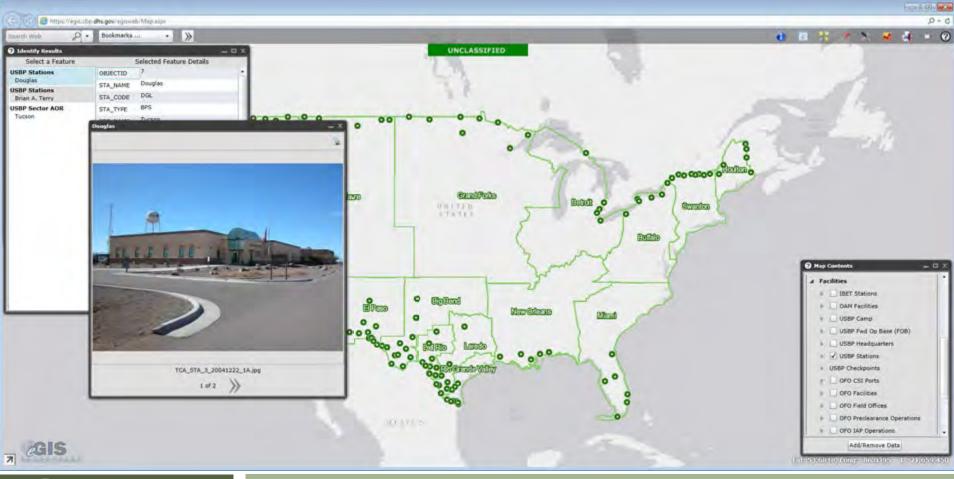




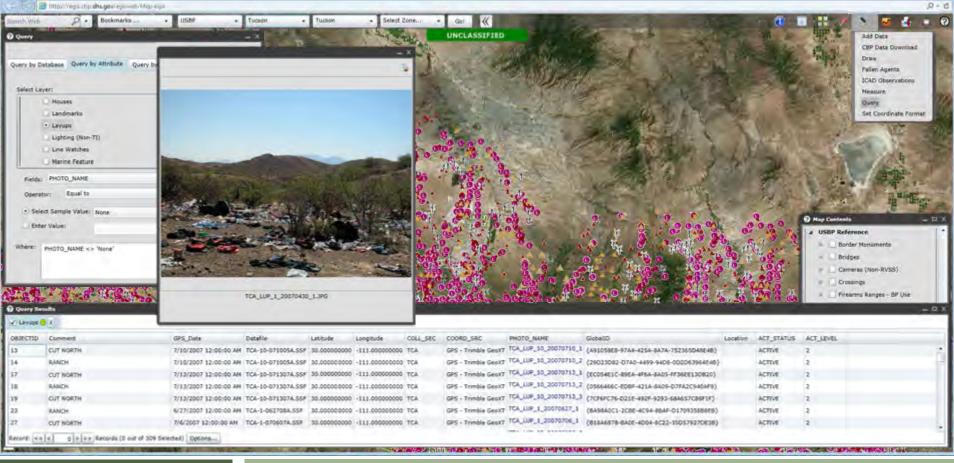








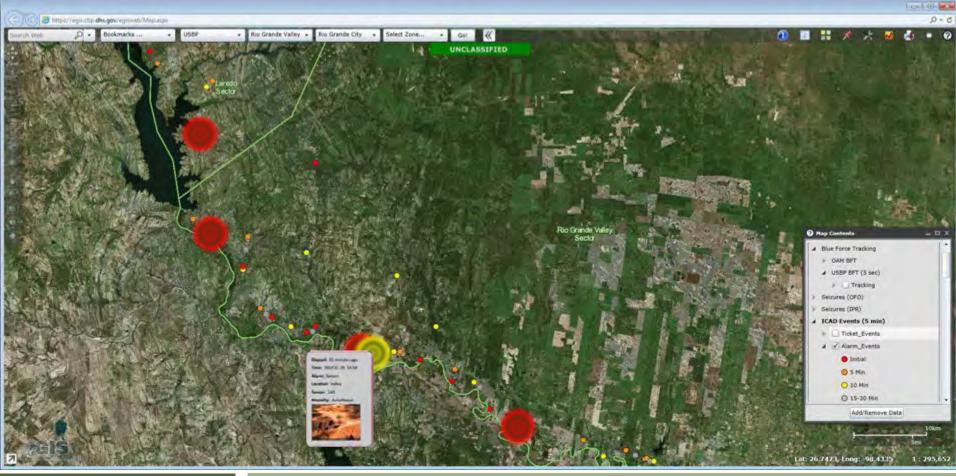




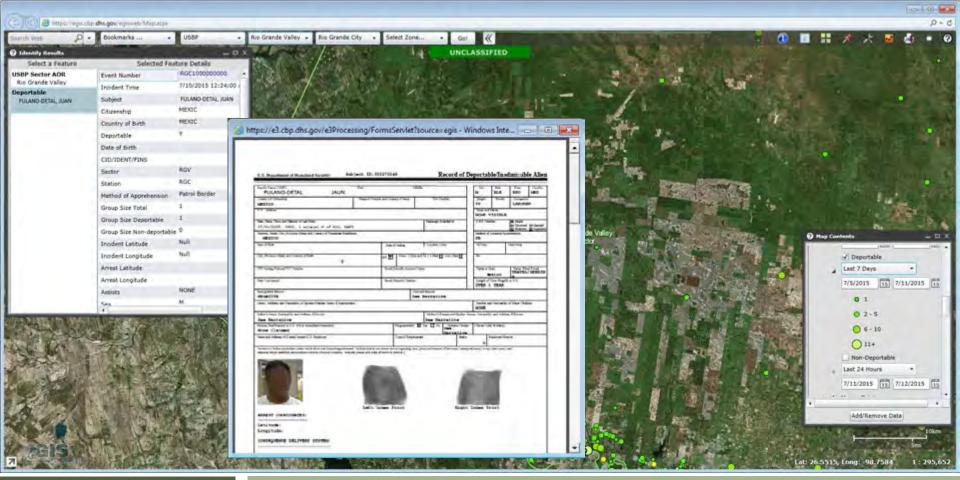




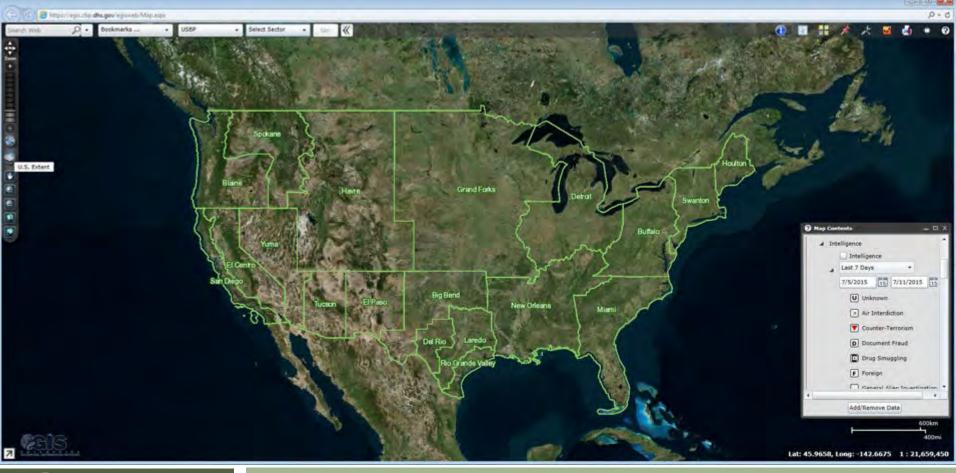














i4c2 - eGIS (center monitor)

# i4c2 featuring eGIS and I4 Live



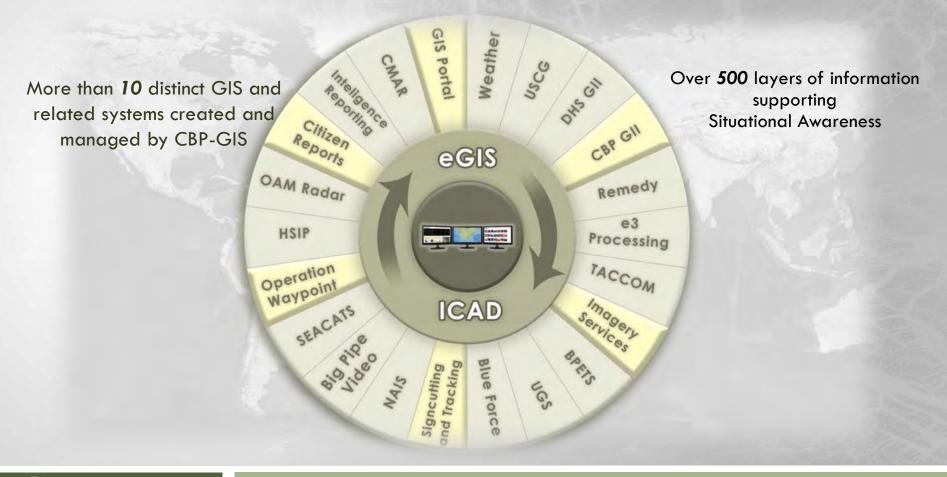
eGIS Map Viewer

ICAD – 14 Live Multi-Image Viewer













### 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.

### Contact:

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Please visit us at the National Security Showcase

Thank You!







## UNITED STATES BORDER PATROL

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