

Esri National Security Summit

July 12–15, 2014 | San Diego, CA



Maintaining Security at the Port of Long Beach

Randy Parsons, Director of Security, Port of Long Beach

Eric Apple, Esri

San Pedro Bay Stats:

- Ports of Long Beach and Los Angeles
- 40% of US Container Traffic
- Diverse and Dense Critical Infrastructure
- 8.2M Population within 25 Miles
- Open Landside and Waterside Access



Rail



Vessel



A Geospatial Based Reference Platform

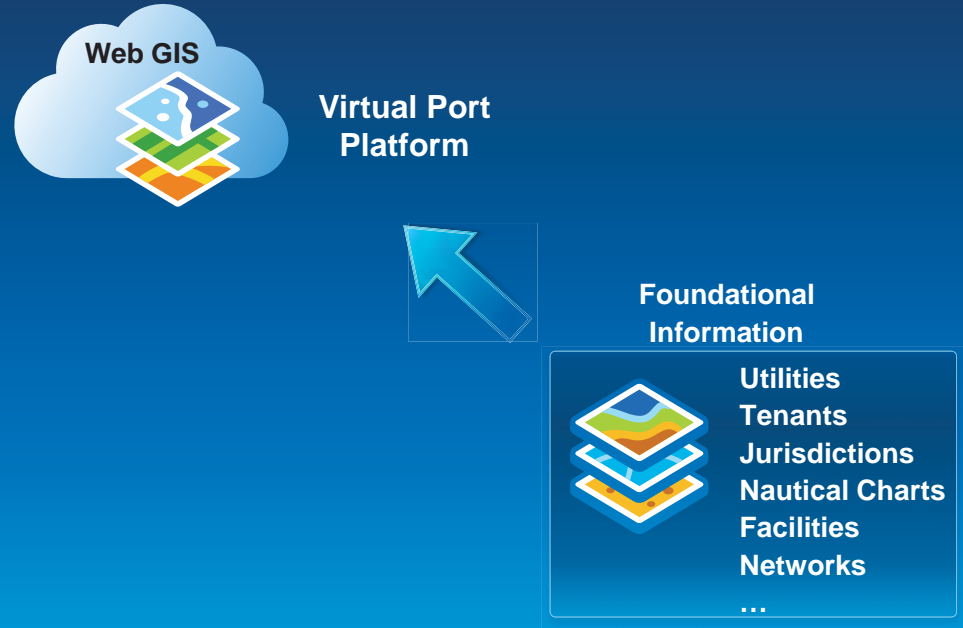
Common Geography for Effective Port Security and Business Resiliency

- Port of Long Beach
- USCG
- FBI
- Long Beach Harbor Patrol
- Port of Los Angeles
- Los Angeles Fire / Emergency Management
- Long Beach Fire / Emergency Management
- Port Tenants / Terminal Operators
- Los Angeles County Sheriff's Department
- Los Angeles Police
- Los Angeles Port Police
- Long Beach Police
- Maritime Coordination Center
- Customs and Border Protection
- Port Operations Threat Reduction Committee
- DHS S&T
- Area Maritime Security Committee
- Marine Exchange

Integrating People and Technology

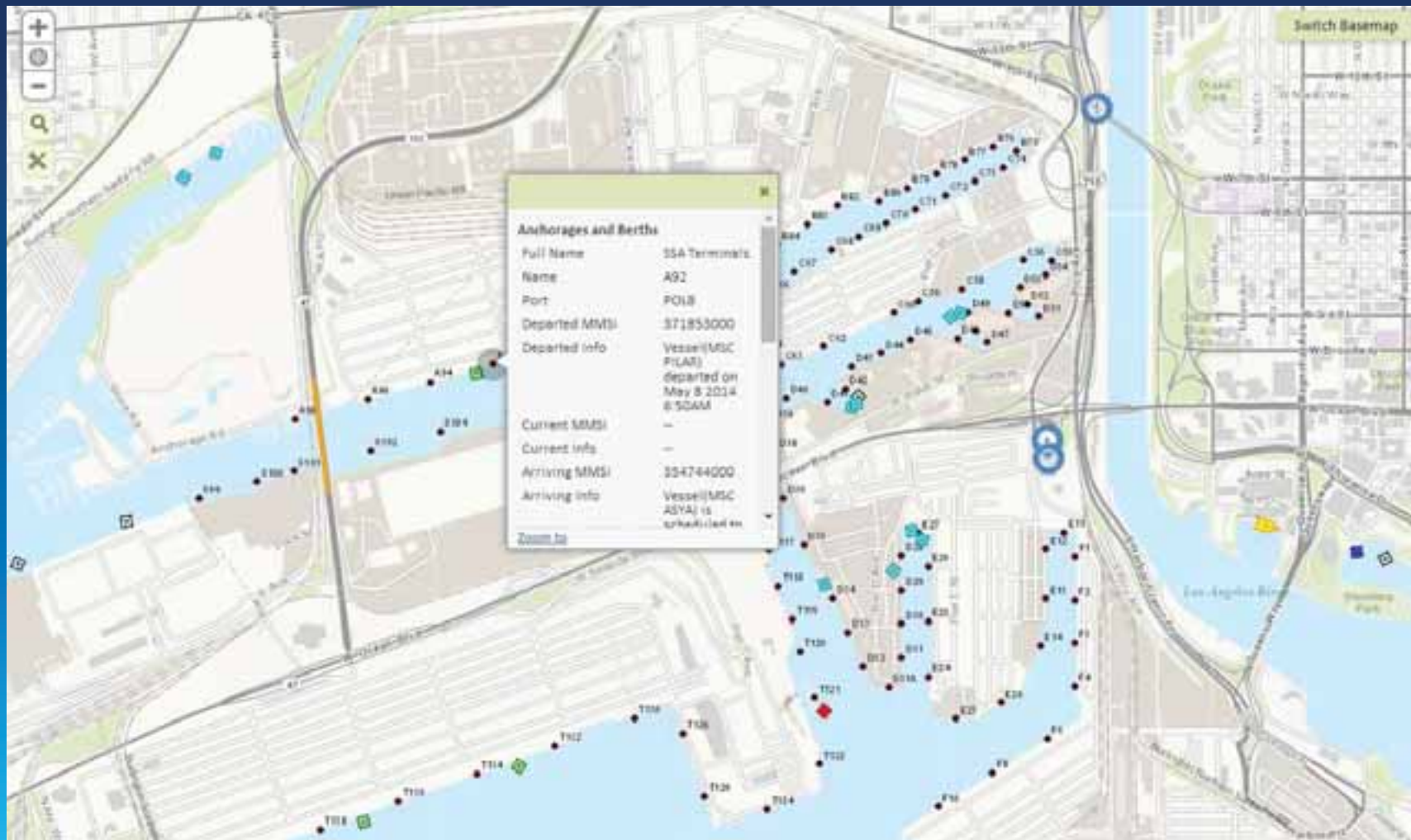


Virtual Port



Filter, Focus and Coordinate

Anchorage and Berths



Water / Wastewater Utilities



Predicted Tsunami Inundation Areas



2D High Resolution Imagery



Perspective Imagery



Underwater Sonar Imagery

Collaborative Intelligent 3D



Command Center

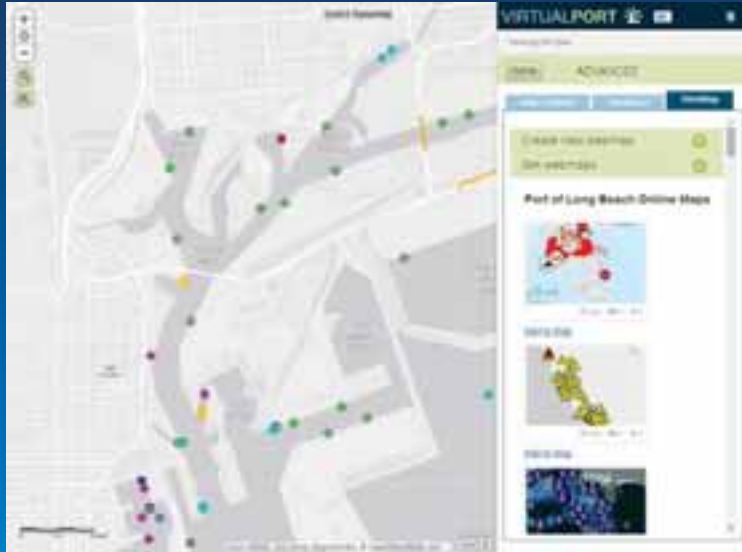


Mobile

NOAA Electronic Nautical Charts

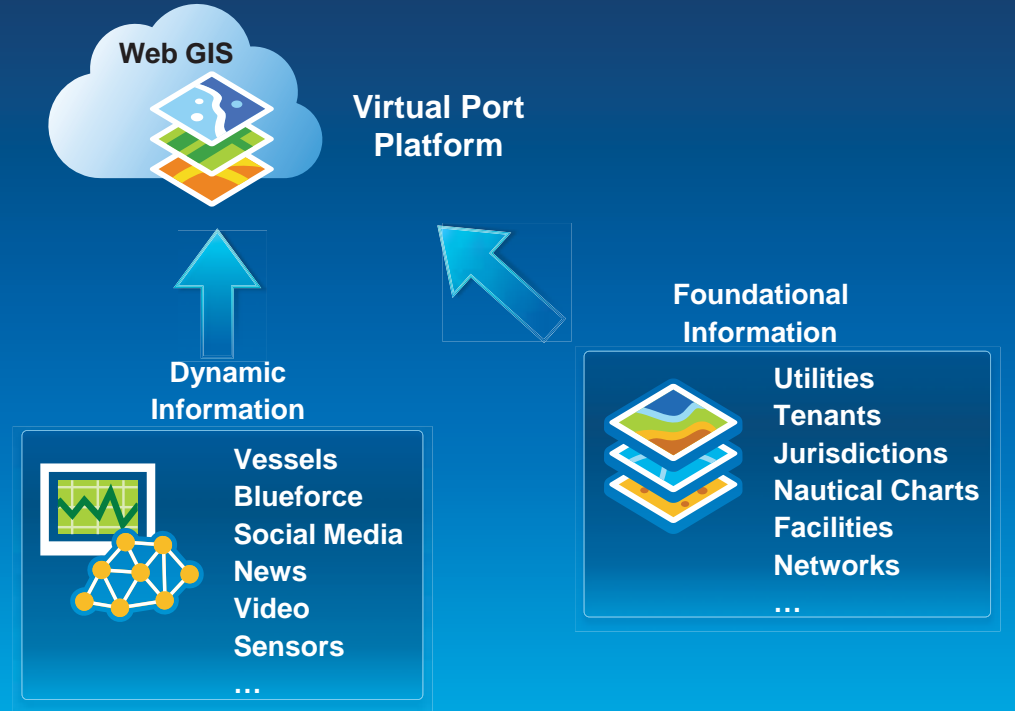


Local, National and Regional Information Sources



“Accommodate unplanned information sources...”

Virtual Port



Filter, Focus and Coordinate

Vessel Tracking

Map Pop-up Window:

- Alt-identified
- Name: OOCL SHENZHEN
- IMO: 47121006
- Label: 024022623
- Range: 85065.070023
- Speed: 0
- Course: 046.72866
- Bearing: SE
- Details: [Vessel Details](#)
- Call Sign: VHOZ

VIRTUALPORT VESSELS

Showing live data... My event logs only

Home VESSELS

Alerts: 7 Details: [Alerts](#)

OOCL SHENZHEN

OOCL SHENZHEN	IMO	47121006
VHOZ	MMSI	367120000
Kaohsiung, Turk	HA	
Kaohsiung, Turk	Under way using engine	
IMO	2014-03-08 15:05:00:000	274
85065.070023	2014-03-07 17:00:00:000	0.0
IMO	Speed	
347	20140308	20140308
02	OOCL (USA) INC	00000000
623-0000000	02 75169000	00000000
	(148 22286700	00000000

[Follow Vessel](#) [Vessel Photo\(s\)](#)

[More Information](#)

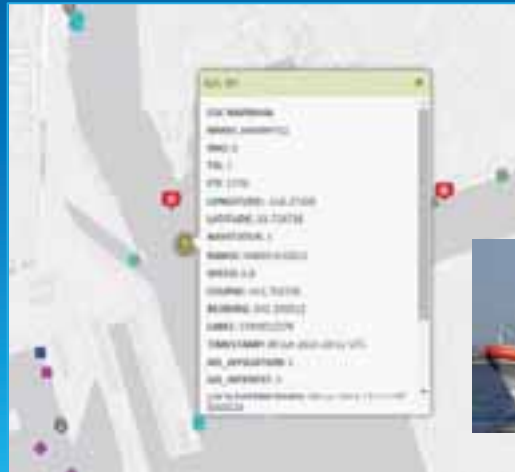
[History of Tracks](#) [Social Media Search](#)

[Print](#)

On Water Blueforce Tracking



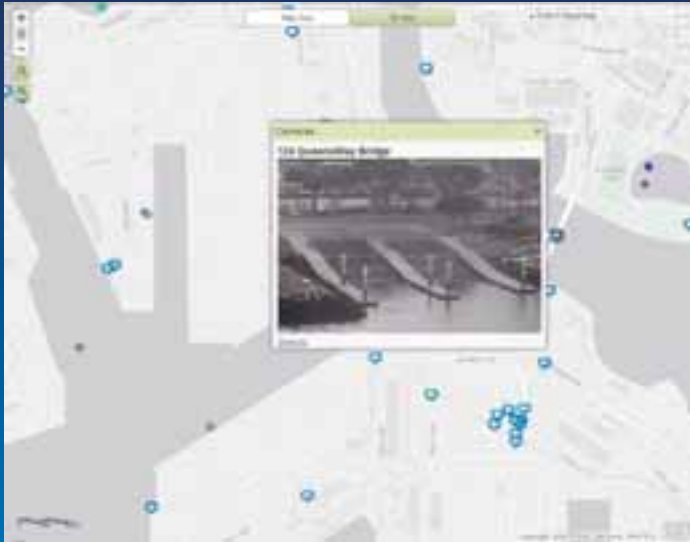
On Land Blueforce Tracking



Encrypted Blueforce Tracking



Agency and Tenant CCTV



Small Craft Tracking and Monitoring



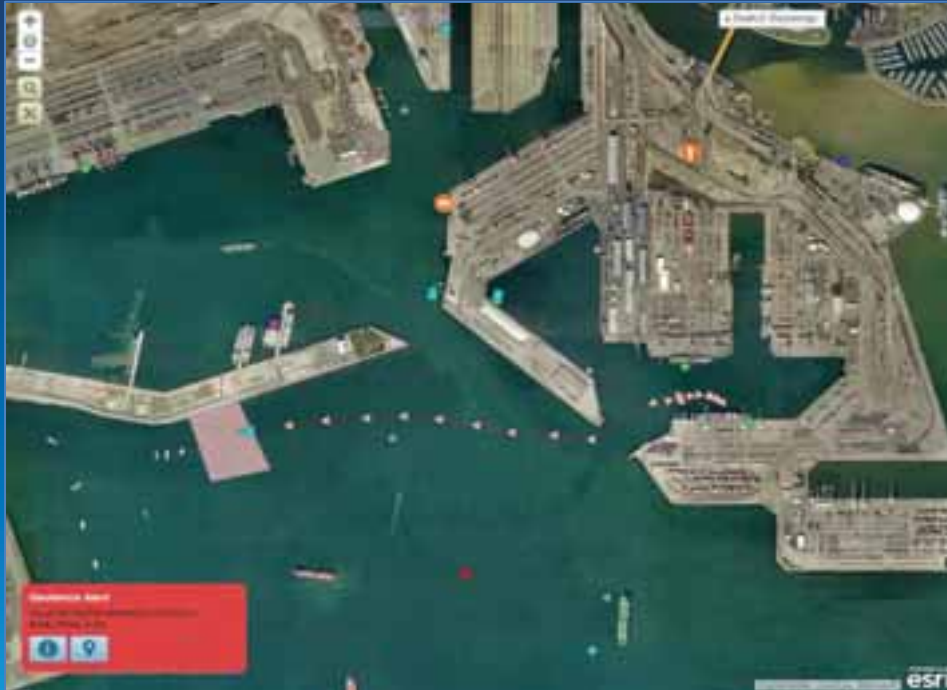
“Identify Exceptions to Normal Patterns”



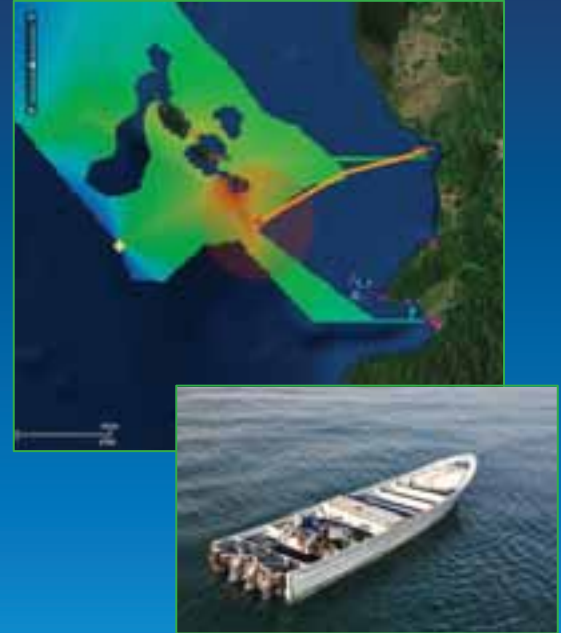
“Combine Geospatial Analysis and CCTV for Focused and Efficient Response”

Geofencing and Analysis

Protected Area



Panga Vessel Interdiction



Narcotic and Human Trafficking

Vessel of Interest

The screenshot shows the VIRTUALPORT tracking interface. On the left, there is a sidebar with a 'Tracking' section containing a list of vessels. The main area displays a map with various vessel icons. A pop-up window is open over a vessel, showing details such as 'Identified by', 'Name', and 'Point of Contact'.

Tracking
30700000 Carolina King POC: Sam Gibson
30000000 Chatterbox II POC: Gerry Green
28900000 CMA CGM LED POC: Steve Nathan
47000000 COOCS FORTUNE POC: Andrew Linn

Protected Vessel

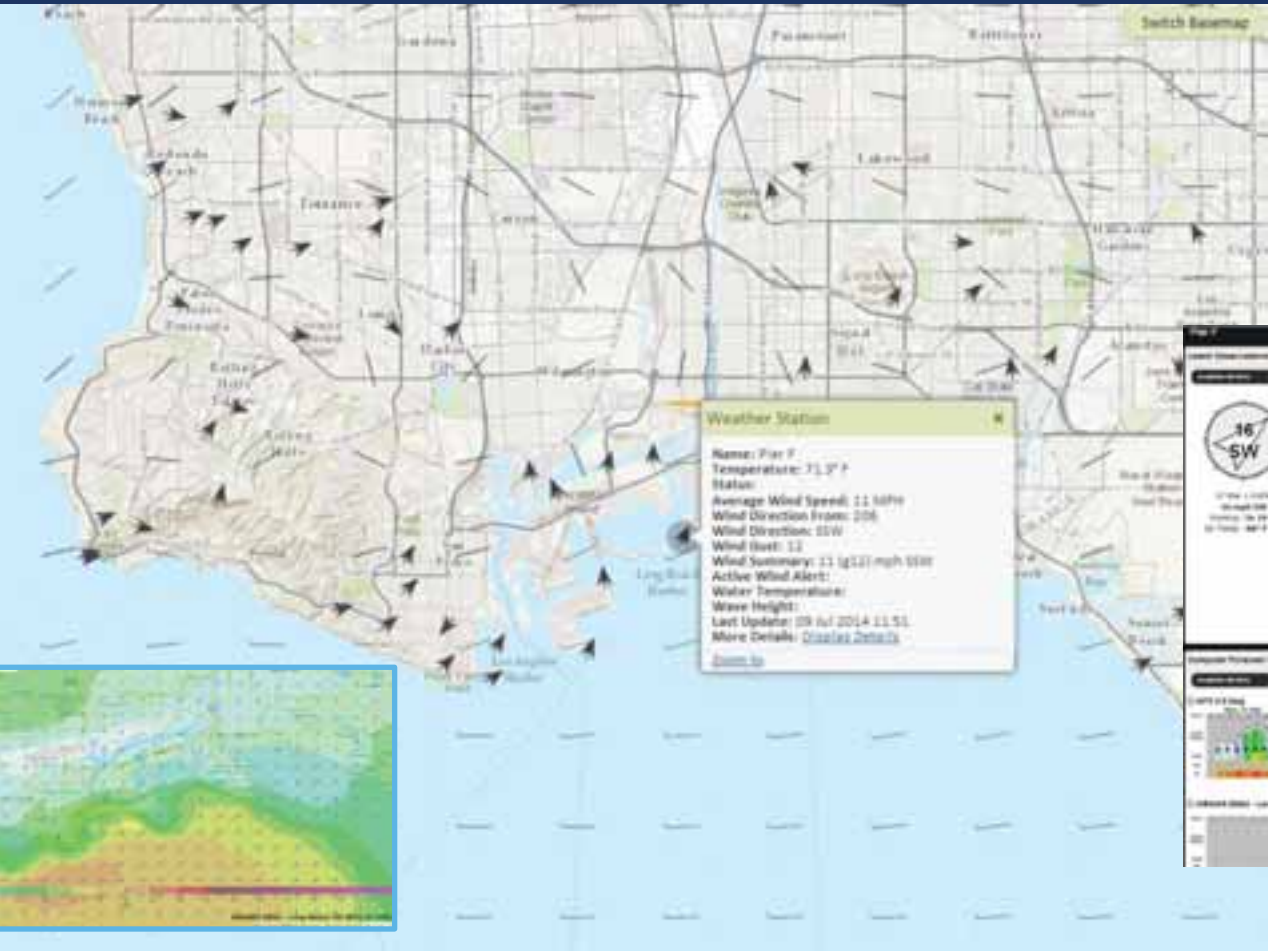
The screenshot shows a map interface with a red square icon indicating a protected vessel. A pop-up window displays an alert: 'Perimeter Alert' for vessel 211327410, TIDEYD EXPRESS, detected in the perimeter for JCHM0031GQ. The alert status is 'New' and occurred between 7/9/2014 11:55:00 AM and 7/10/2014 11:55:00 AM. A red banner at the bottom right repeats the alert information.

Alerts
Title: Perimeter Alert
Details: Vessel 211327410, TIDEYD EXPRESS detected in the Perimeter for JCHM0031GQ
Status: New
Start: 7/9/2014 11:55:00 AM
End: 7/10/2014 11:55:00 AM
Source: System

Perimeter Alert
211327410 detected in the Perimeter for JCHM0031GQ

"Agency Deconfliction and Advanced Notification"

NOAA HRRR Weather Model



Public and Private Weather Sensors



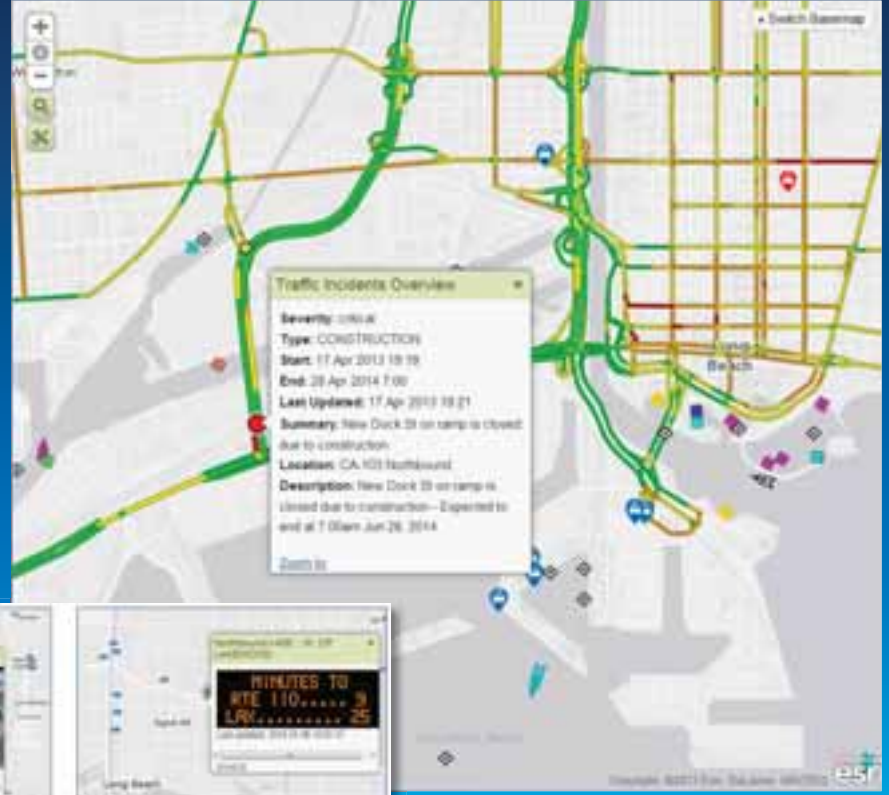
Social Media



News Sources



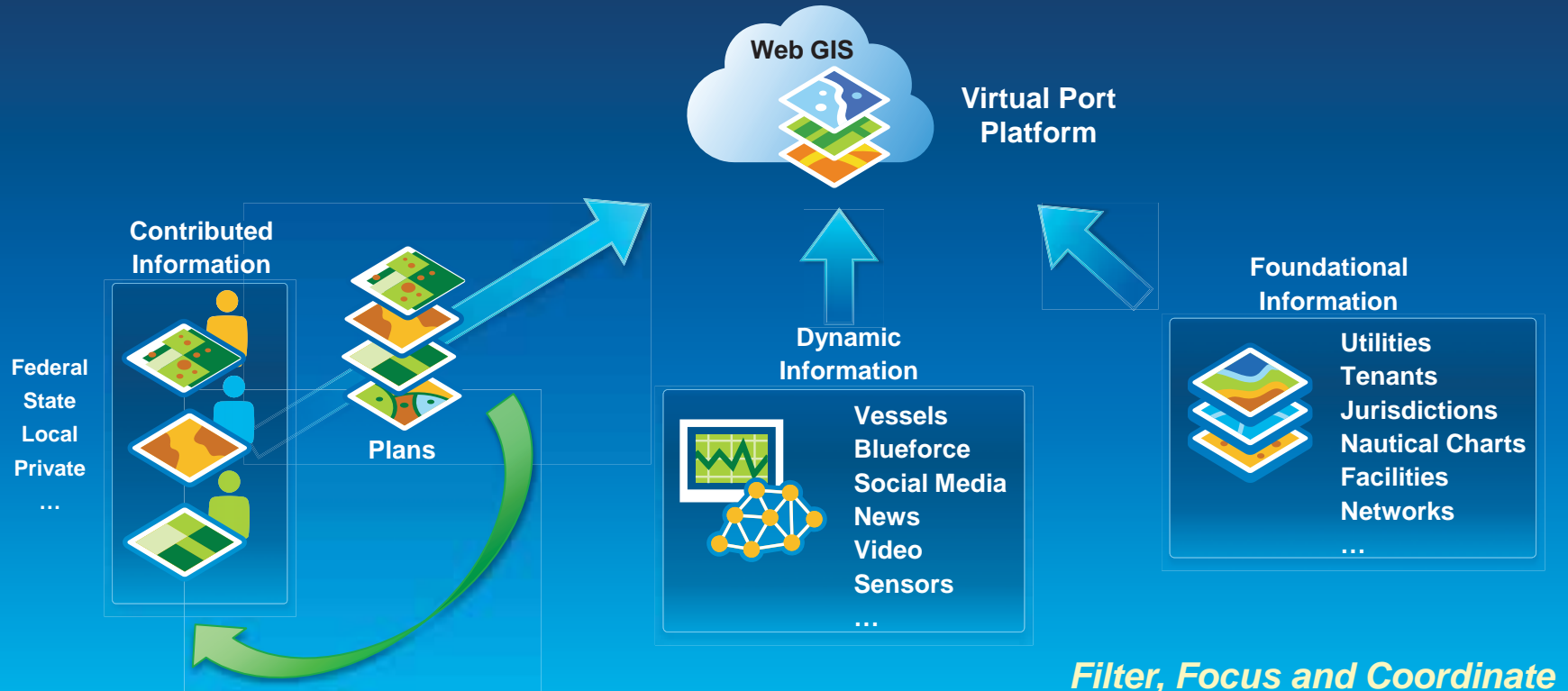
Transportation Incidents, Closures, Signs and Cameras



“e.g. Monitoring Affects of Transportation Labor Disputes...”

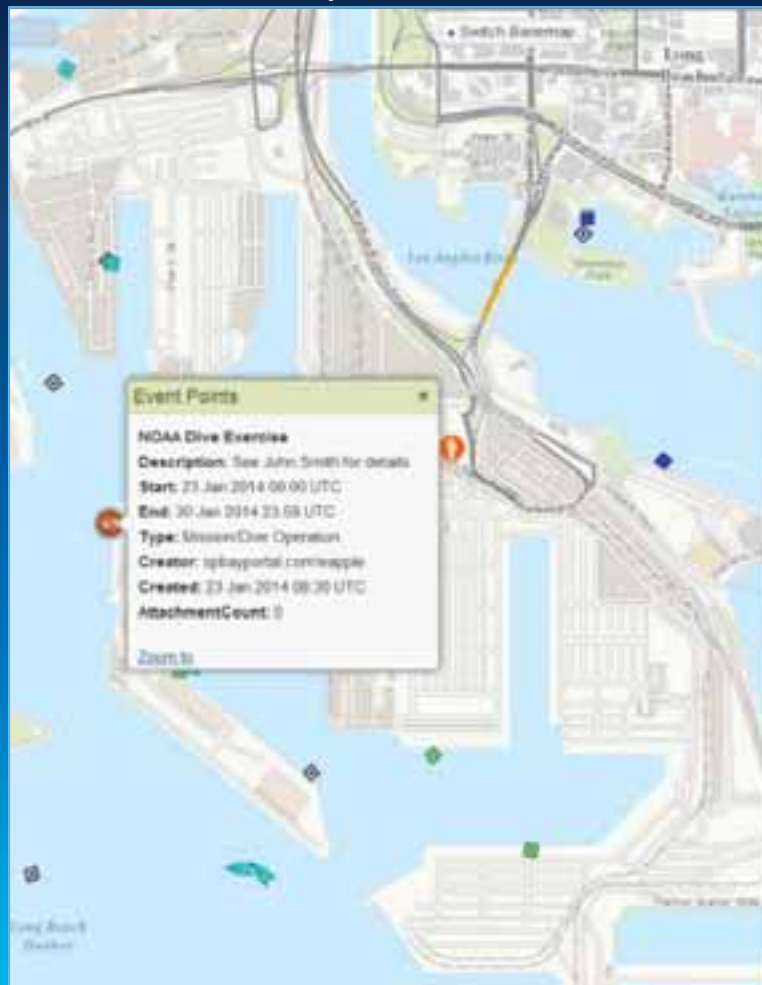


Virtual Port



Daily Operations Brief

“Daily Heartbeat of the Port Complex...”



The screenshot shows the "VIRTUALPORT" web application interface. At the top, it displays the date "30 Jan 2014" and a calendar for January 2014. The calendar shows the 29th as the current date. Below the calendar, there are several menu items: Home, Previous, Expand All / Collapse All, Significant Events, Critical Meetings, News / Events, Directory / View, Missions / Dive Ops, Exercises / Training, Road Conditions, Port Resources, and Vessel Information.

The "Missions / Dive Ops" section is currently selected, showing a "NOAA Dive Exercise" with the description "See John Smith for details".

The "Vessel Information" section contains a table with the following data:

Location	# SHIPS	TRAILING	# SHIPS AT
POUR basin	25	3	
POA basin	31	0	

At the bottom, there is a "Daily Narrative" section.

This screenshot shows a detailed view of an event in the "VIRTUALPORT" application. The event is titled "NOAA Dive Exercise" and is dated "27 Feb 2014". The description includes details about the exercise, mentioning "John Smith" and "See John Smith for details". There are also links for "Significant Events" and "Daily Narrative".

Incident Management and Planning (ICS)

Escalate from Small Event...

The screenshot shows the VIRTUALPORT interface. On the left is a map of a port area with a 'Command Units Points' window overlaid. The window lists various units and their statuses, including 'ICS 200 - E2 Operations', 'ICS 200 - E2 Command Director', and 'ICS 200 - Critical Information Requirements'. A blue double-headed arrow points from the 'Operations Brief' window on the right towards the 'Command Units Points' window.

VIRTUALPORT
Viewing data for: 08 Jul 2014
Operations Brief
Back
MT Jones vs Pleasure Craft Drill 14 (4404)
Type: Incident
at 0800 MT Jones was leaving anchorage and did not see the 42' Pleasure Craft off the Port Side. Pleasure craft hit the Port Side and sunk. Reporting Party states 3 crew are unaccounted for at this time.
Start: 8 Jul 2014, 0800
End: 8 Jul 2014, 2359
Show/Hide Command Units: [checked]
Show/Hide Resources: [checked]
ICS Incident (Default) | ICS Dashboard

To Managed ICS Incident...

The screenshot shows the VIRTUALPORT interface with a detailed 'Incident Summary' for the 'MT Jones vs Pleasure Craft Drill 14 (Initial Response)'. The summary includes a flowchart of the incident response process, a list of incident details, and a sidebar with navigation options.

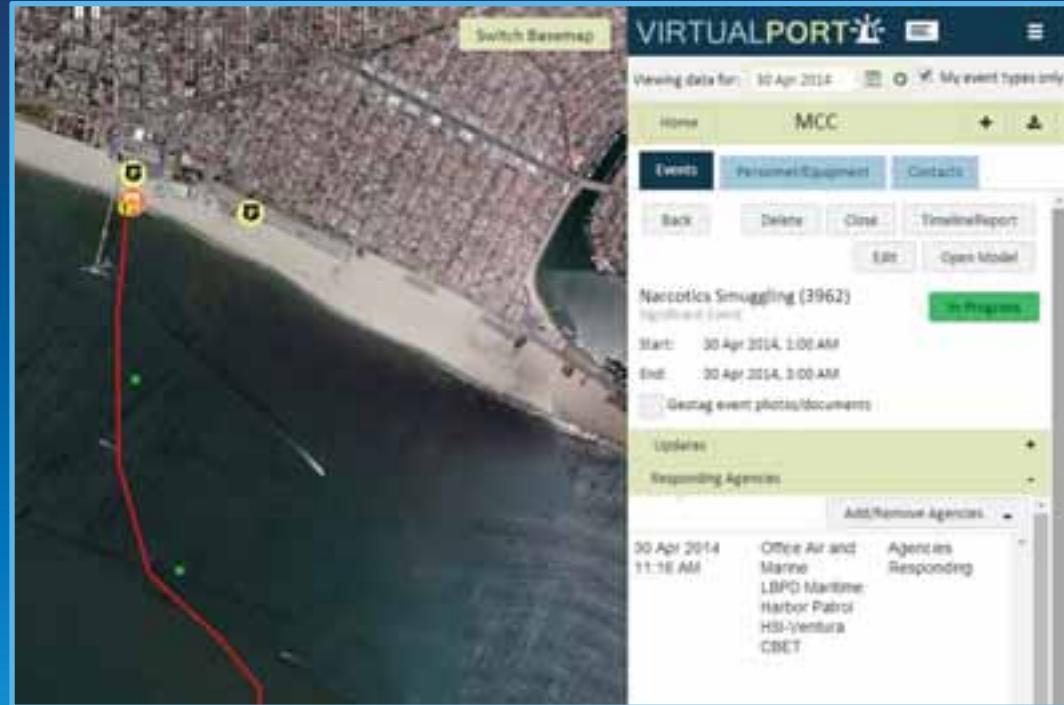
VIRTUALPORT
Home | Incident Management | Document Library | Resource Status Board | Resources | My Tasks | Administration
Home > Incident Management > MT Jones vs Pleasure Craft Drill 14
Incident Dashboard
Incident Summary
Incident Summary (MT Jones vs Pleasure Craft Drill 14 : Initial Response)
Incident Summary
MT Jones vs Pleasure Craft Drill 14 : Initial Response
WTT/O'BRIEN'S

Sketching “Digital Post-it Notes”

Previous Methods...



New Methods...



To Only People in the Room...

To All Stakeholders at All Locations...

Virtual Port

Daily Operations



Event Management



Recovery and Resiliency



Platform Enabled Apps



Virtual Port Platform

Contributed Information



Federal
State
Local
Private
...



Plans

Dynamic Information



Vessels
Blueforce
Social Media
News
Video
Sensors
...

Foundational Information



Utilities
Tenants
Jurisdictions
Nautical Charts
Facilities
Networks
...

Filter, Focus and Coordinate

Demonstrations



The background features a solid blue gradient that transitions from a darker shade at the top to a lighter shade at the bottom. On the left side, there are several overlapping, semi-transparent geometric shapes in shades of orange, red, and yellow, creating a layered, abstract effect.

Questions?