Stories of Agile Acquisition

PlugFest – Results
Operationally Measured Acquisition

Eric Westreich,
PlugFest Consortium Lead
Esri Defense C2 Industry Manager

Stories

- Paul’s story (the engineer)
- Jeff’s Story (the advocate)
- Chris’ Story (the validator)
- Mike’s Story (the collaborator)

Real Solutions:
West 2014 PlugFest Technology Team

LP3 LIGHTSPEED Produce, Protect, Perform — Cyber

ThreatSTOP™ — Cyber

exactEarth — Ship Positions

virtualagility — Application Development

software AG Government Solutions — Real-time

AtHoc™ — Crisis Communication

esri — Foundation Data, Geospatial Viz & Analysis, Presentation

IBM — Enterprise Solutions

Geocortex® | by Latitude Geographics® — Workflow Development

San Diego State University — C4I Center

Stephenson Disaster Management Institute — Where Research Meets Practice — SDMI — LSU — Emergency Management

simtable.com™ — Collaboration in a new light — Presentation & Modeling

PlugFest Events Summary
(Over 1200 visitors/300 Collaborators)

Challenge	Sponsor	Event
Emergency Response -Haiti	**AFCEA** SPAWAR	AFCEA SD C4ISR Symposium
Opposed Maritime BattleGroup Transit	**AFCEA** SPAWAR	AFCEA SD C4ISR Symposium
Find, Fix, Finish Adversary	**AFCEA** Director USMC Intelligence	AFCEA Technet Southwest
Counter Narcotics	**AFCEA** DEA/DoD	AFCEA Technet South
Indications and warning of Cyber Threat	**AFCEA** US Army Cyber Command	AFCEA Technet East
Emergency Response for Bomb at Public Event	**AFCEA** USNI Los Angeles Sherriff's Dept Red Cross San Diego Police USMC	West 2013

PlugFest Events Summary (Multiple Organizations)

Challenge	Sponsor	Event
Intelligent Common Operational Picture	**Security Network**	Security Summit
DI2E Architecture	**OSD(I)/DI2E**	DI2E PlugFest
Operational Cyber Logistics	**AFCEA** US Cyber Command	AFCEA Cyber Symposium
Army Common Map API	**DI2E** GMU	GMU Academic PlugFest
Basic Cyber Attack on U.S. Ports	**InterAgency Board**	IAB Meeting
Advanced Cyber Attack on U.S. Ports	**AFCEA** USNI InterAgency Board SPAWAR	West 2014
Common Map API	OSD(I)/DI2E	DI2E PlugFest
Sustained Communications	**AFCEA** US Army	AFCEA Technet Augusta

PlugFest Consortium
(***Transitional*** Organization)

Non-profit collaboration that believes that Government, Industry, and Academia working on the same problem, at the same time, together can deliver some technical capability better, faster and cheaper.

PlugFest Consortium Action
(Transitional Organization)

***Investigate*, *Test*, and *Educate*, agile Verification and Validation methods.**

Facilitate and train others to Facilitate Agile V&V Events.

Find a permanent home for these functions.

Stories

- **Mark's Story (the educator)**

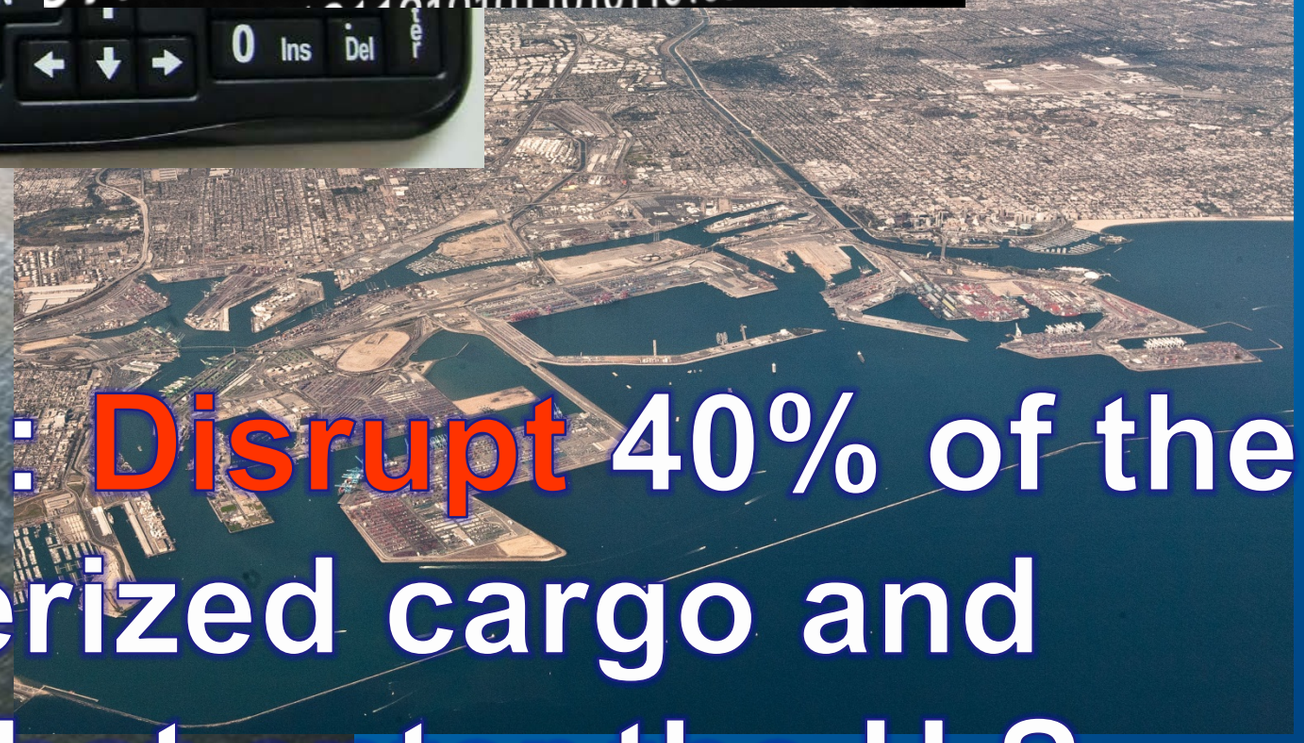
Your Story
Agile is to Development, as PlugFest is to V&V

- ✓What can I do today deliver better stuff faster?
- ✓What will I do today that is outside of my comfort zone?
- ✓What will I do to help teach others?
  - ❑Place to discover and test theories, best practices, programs (virtual, scalable PlugFest lab)
  - ❑Place to teach (virtual classroom)
  - ❑Place to respond (virtual center of excellence)

Quote

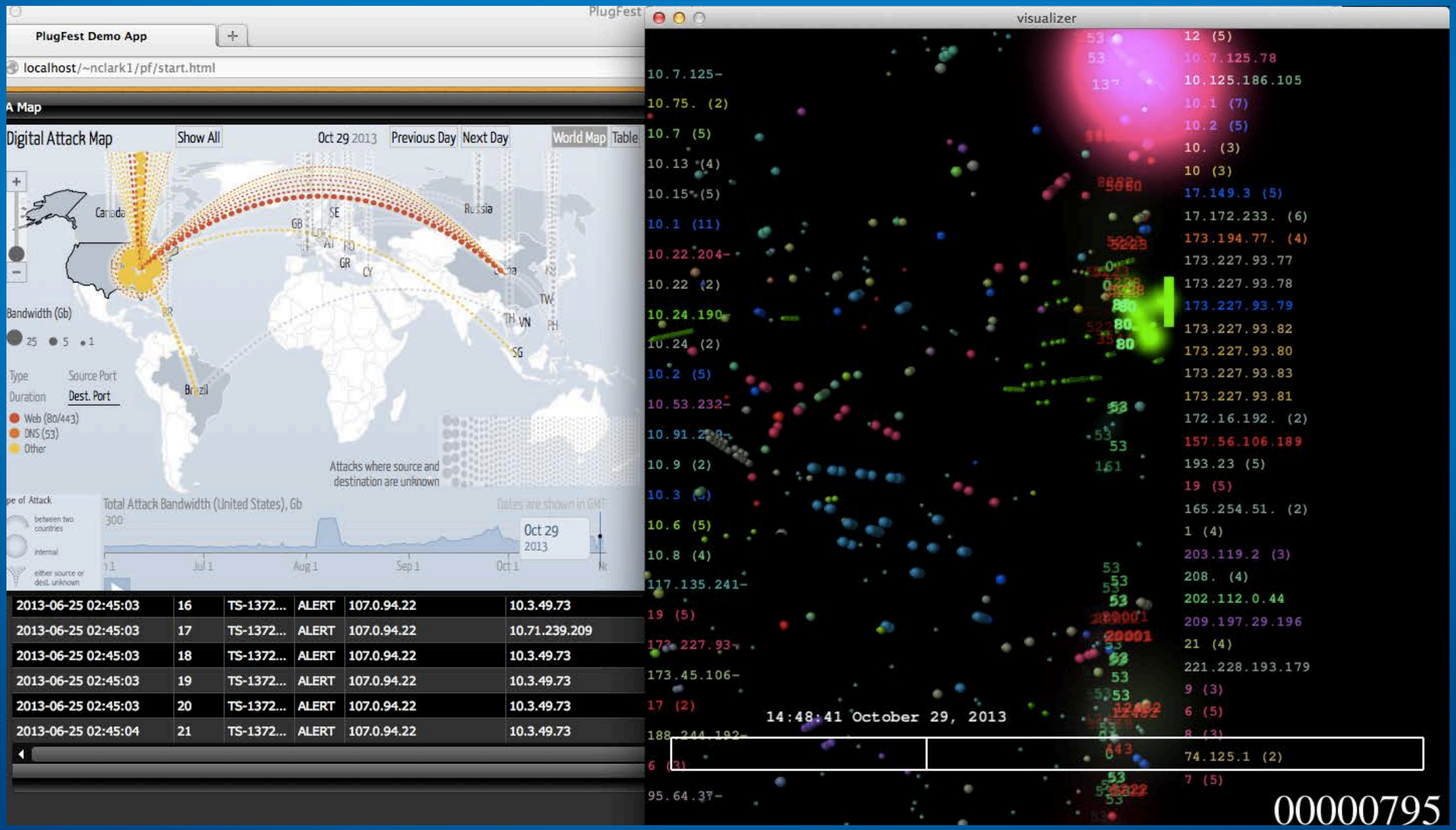
“I must have heard “cool” a thousand times!”

Government Provided Problem: Cyber Attack on the Ports of Los Angeles & Long Beach



Hacker Goal: Disrupt 40% of the containerized cargo and material that enter the U.S.

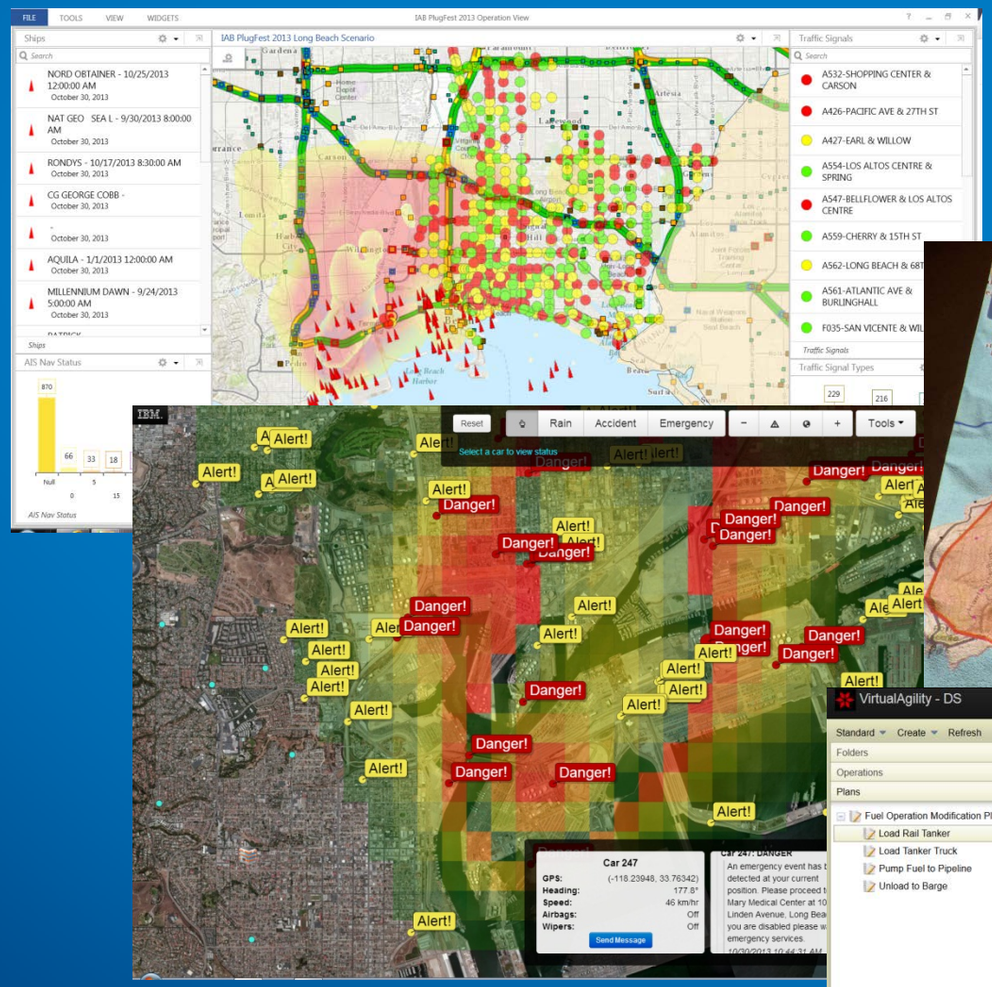
Real Cyber Data
(Real Attacker, Anonymized Victim)

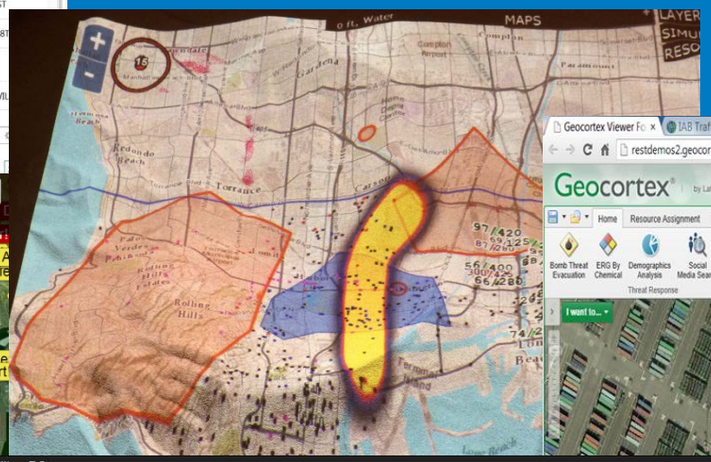


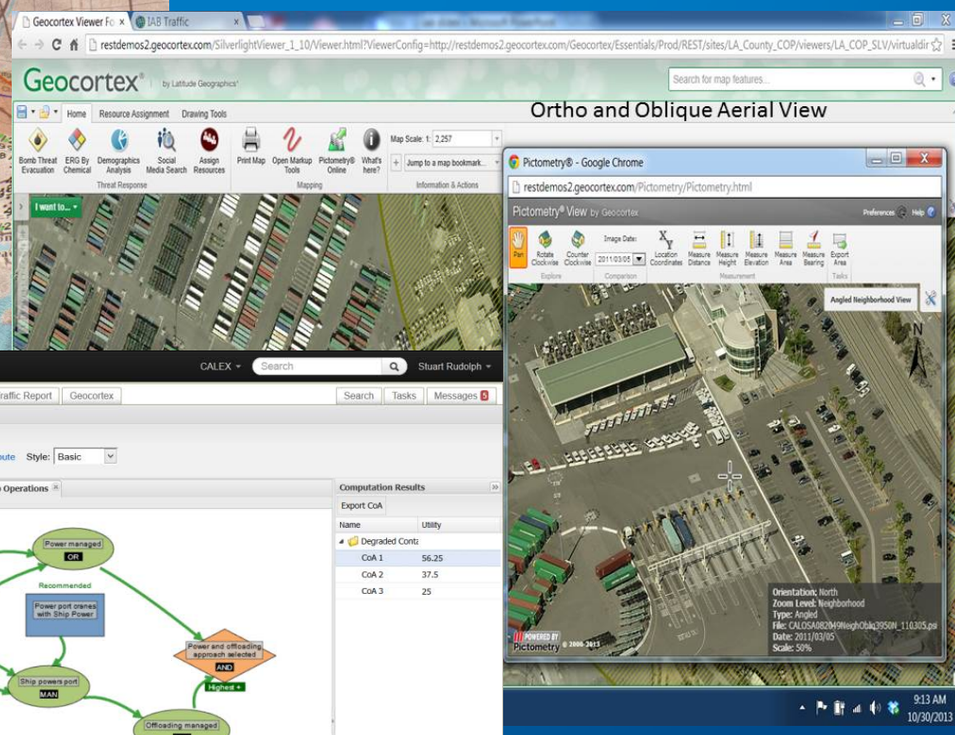
ThreatSTOP™

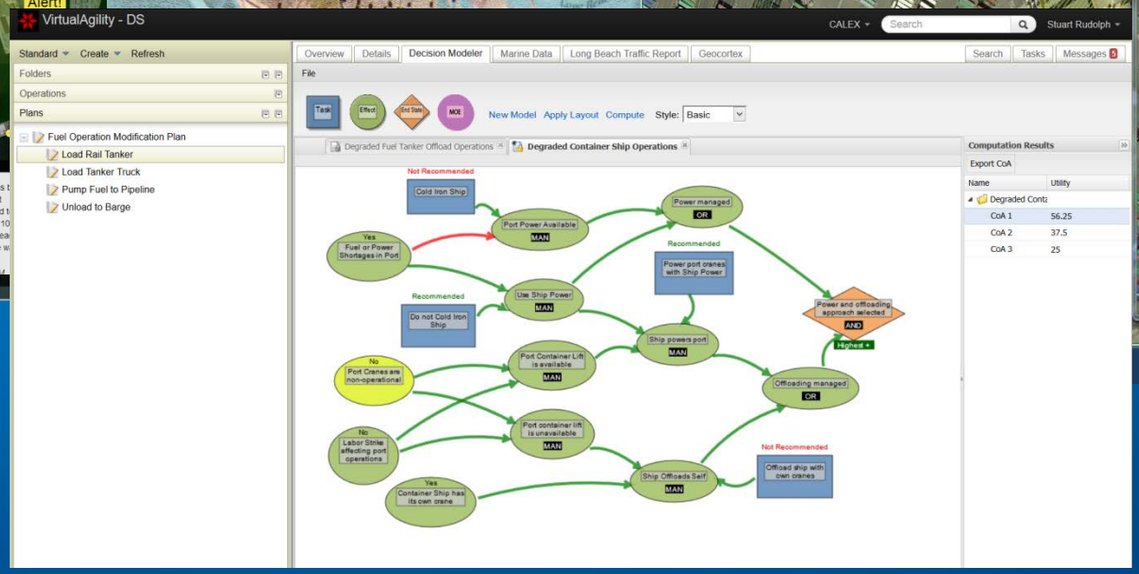
Every Application is part of the Common Operational Picture

The COP is shared awareness delivered







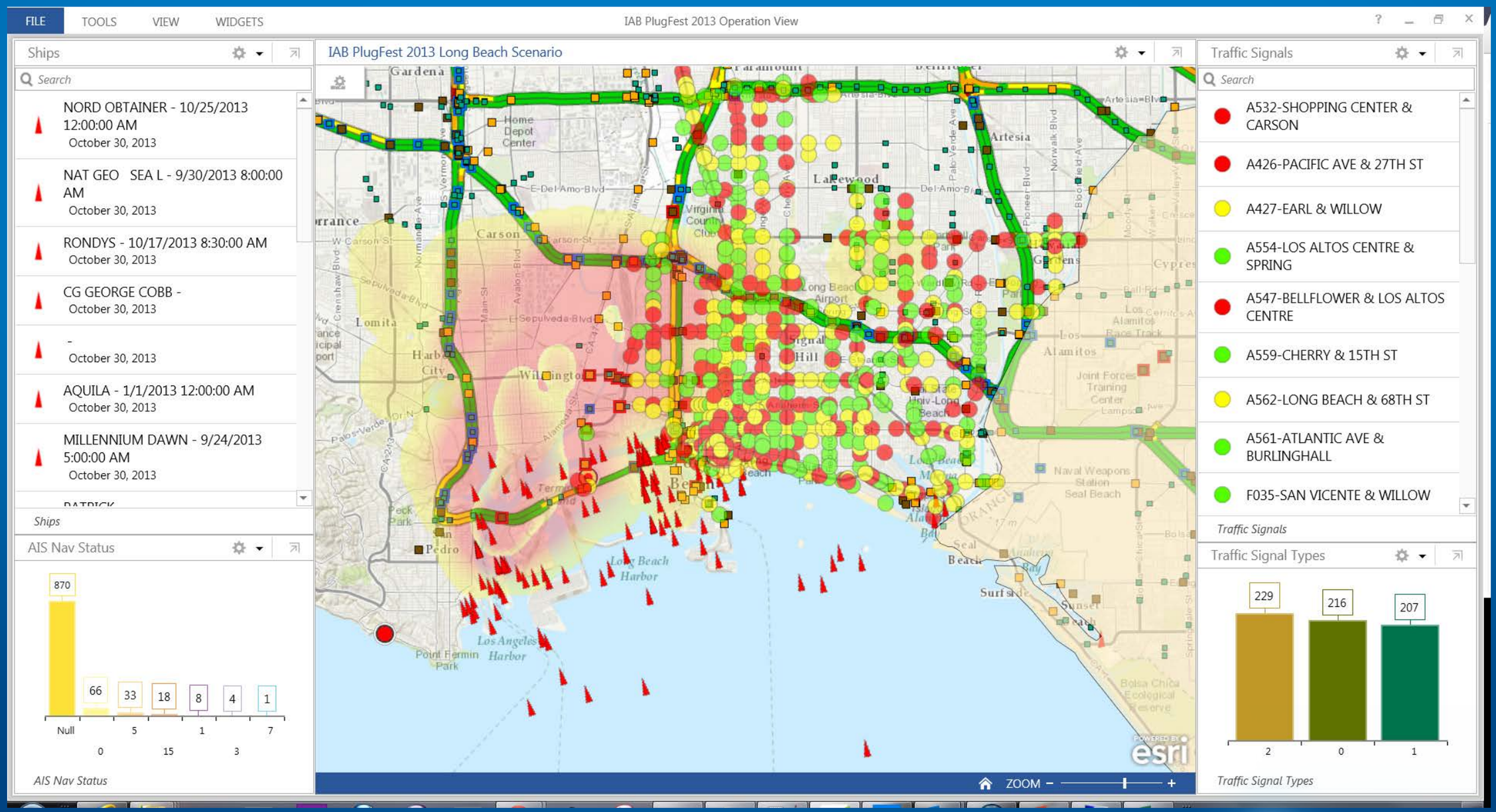


Question: What would take out loading capability at Ports of LA and Long Beach?

- Loading/Unloading Ships SCADA DoS Attack Crude Oil, Chorine, Xylenol spills

Question: What is the most immediate impact? Chlorine Plume

Fused, updating picture on PowerPoint, Excel, and Operations Dashboard

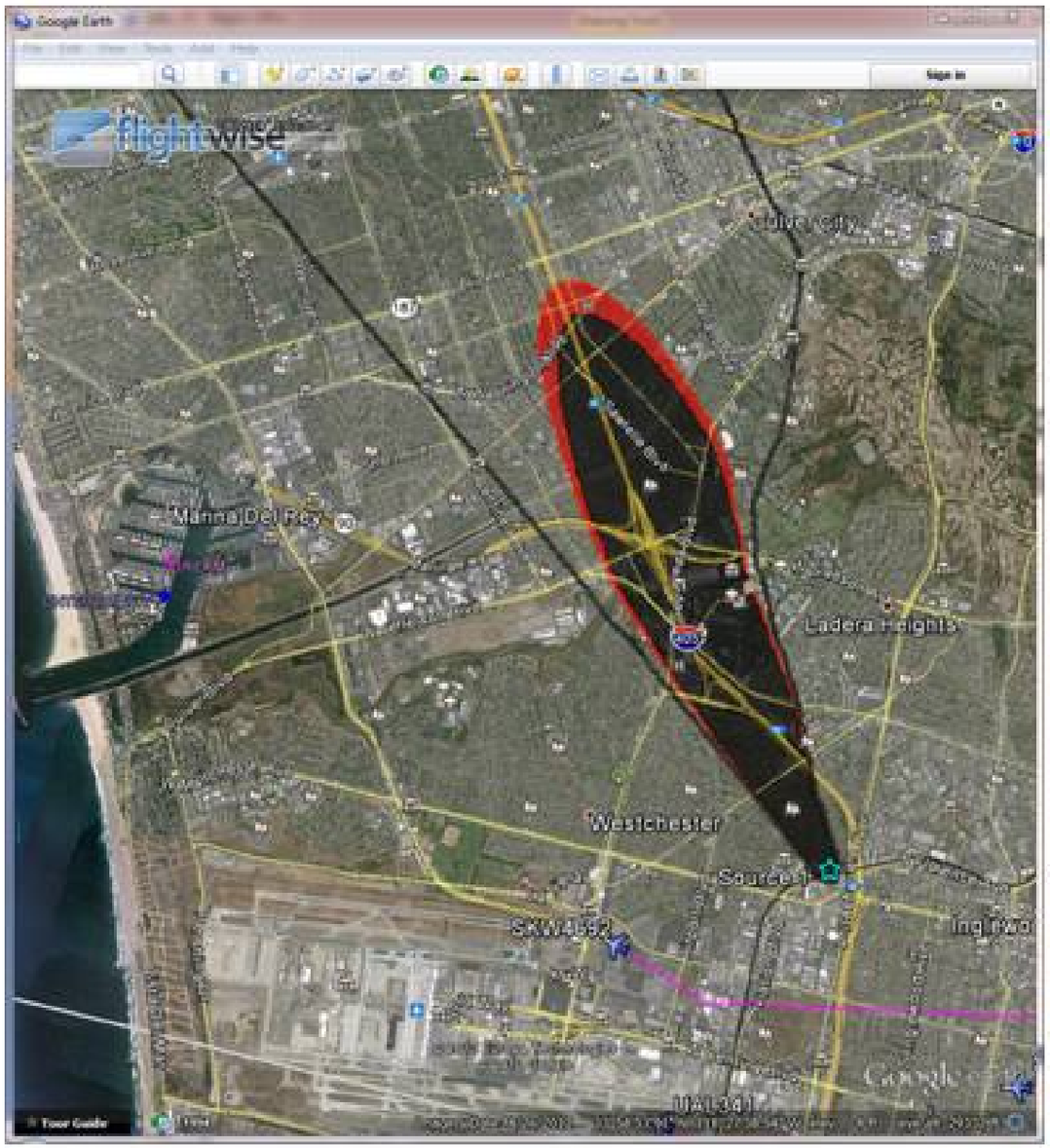


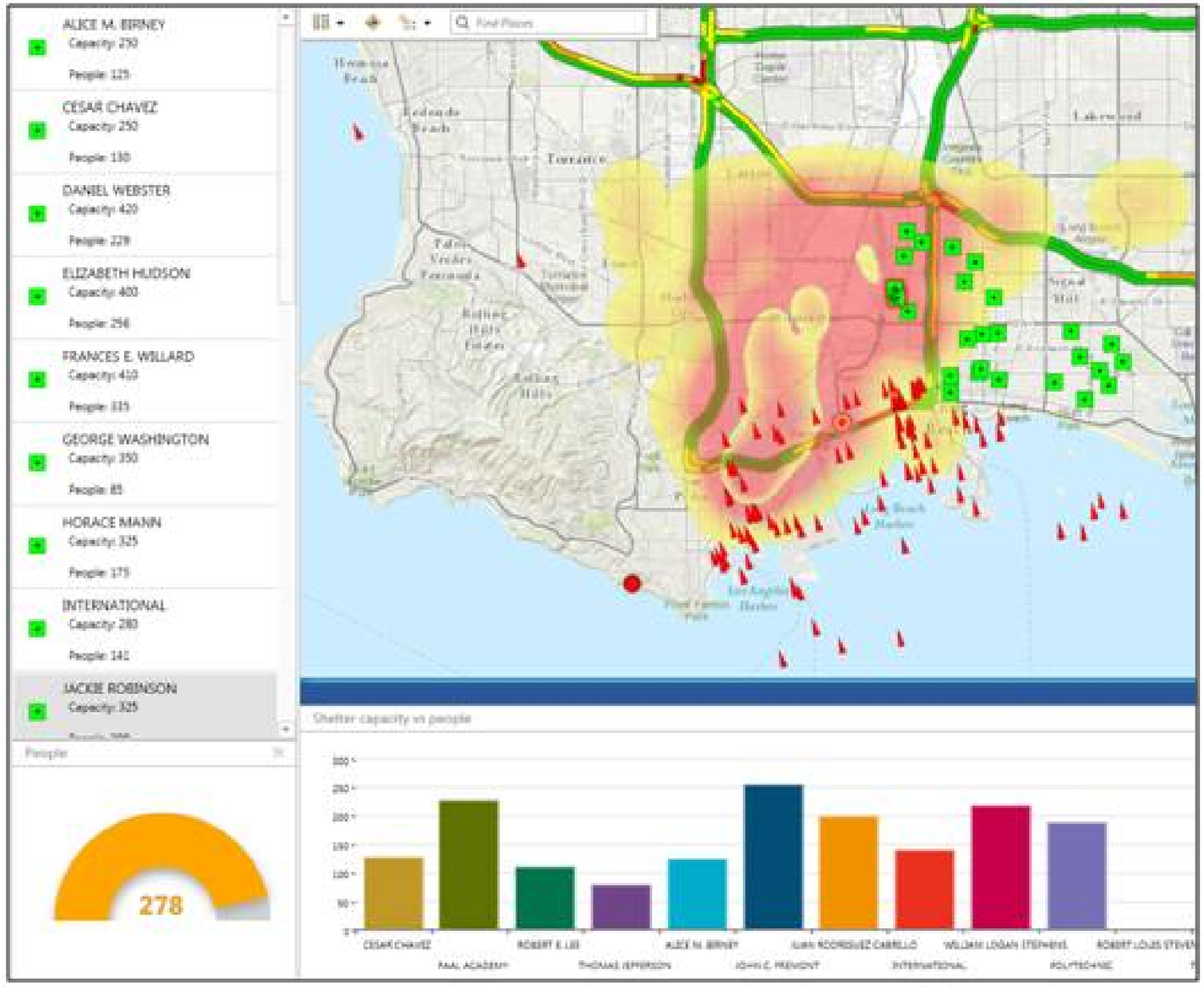
MARINE CORPS TACTICAL SYSTEMS SUPPORT ACTIVITY

Technical Excellence...Tactical Value

How to maintain Situational Awareness?

The ability to display relevant information rapidly and efficiently.



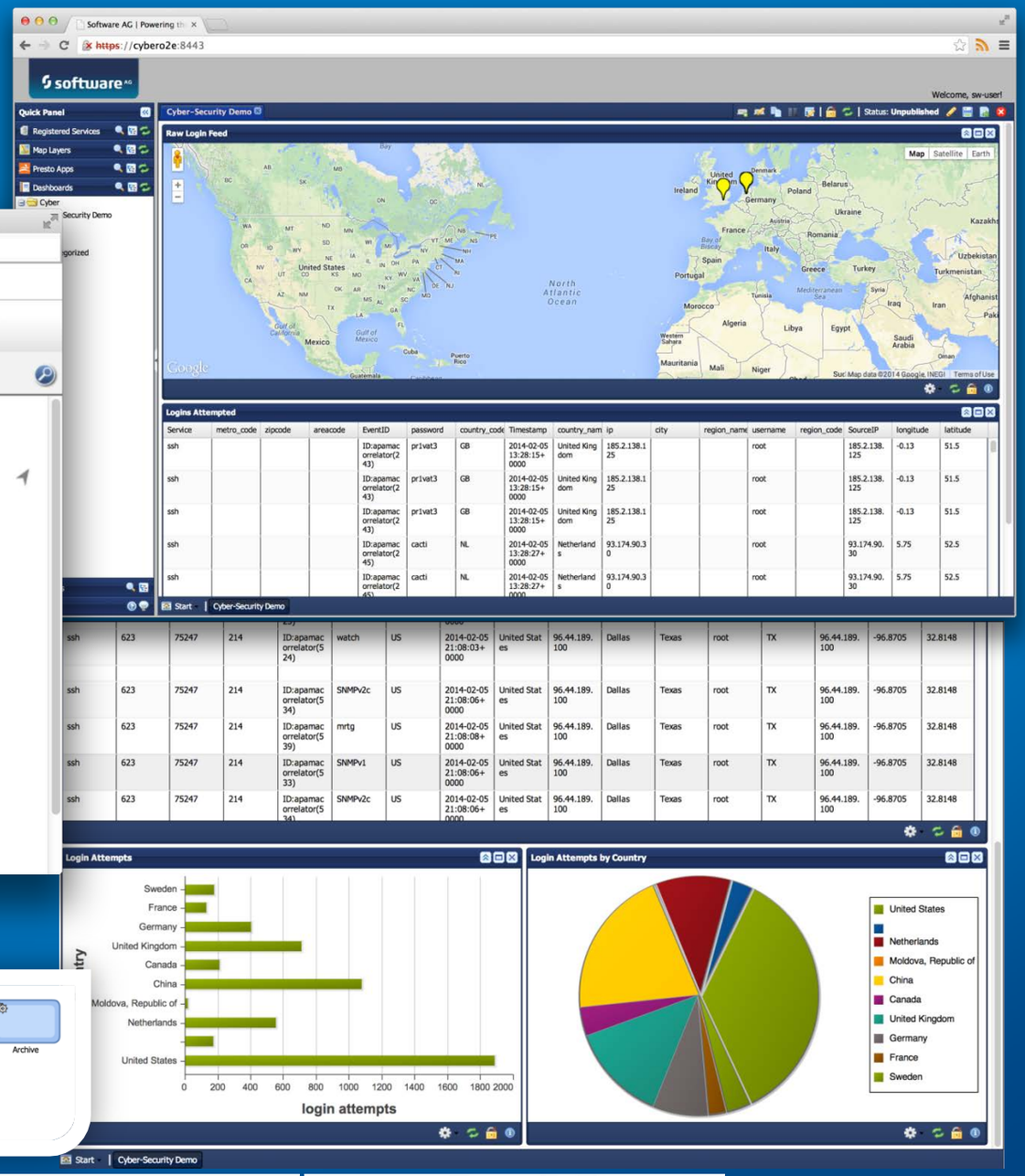


Question: How do we detect and defend sophisticated cyber-attacks against systems (including CIKR)?

Leverage Complex Event Processing to correlate data in real-time from a variety of monitoring sensors, providing alerts and automated responses

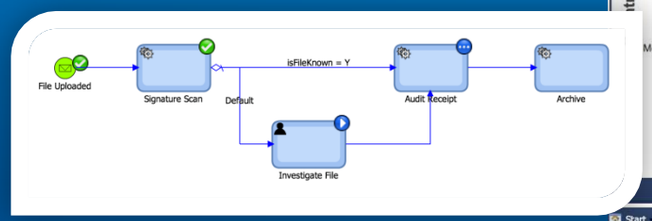
Monitor hacktivists via social media

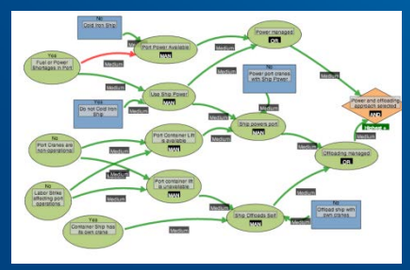
Coordinate key personnel



stateful behavioral analysis

malware file processing





response plans

COP / dashboards

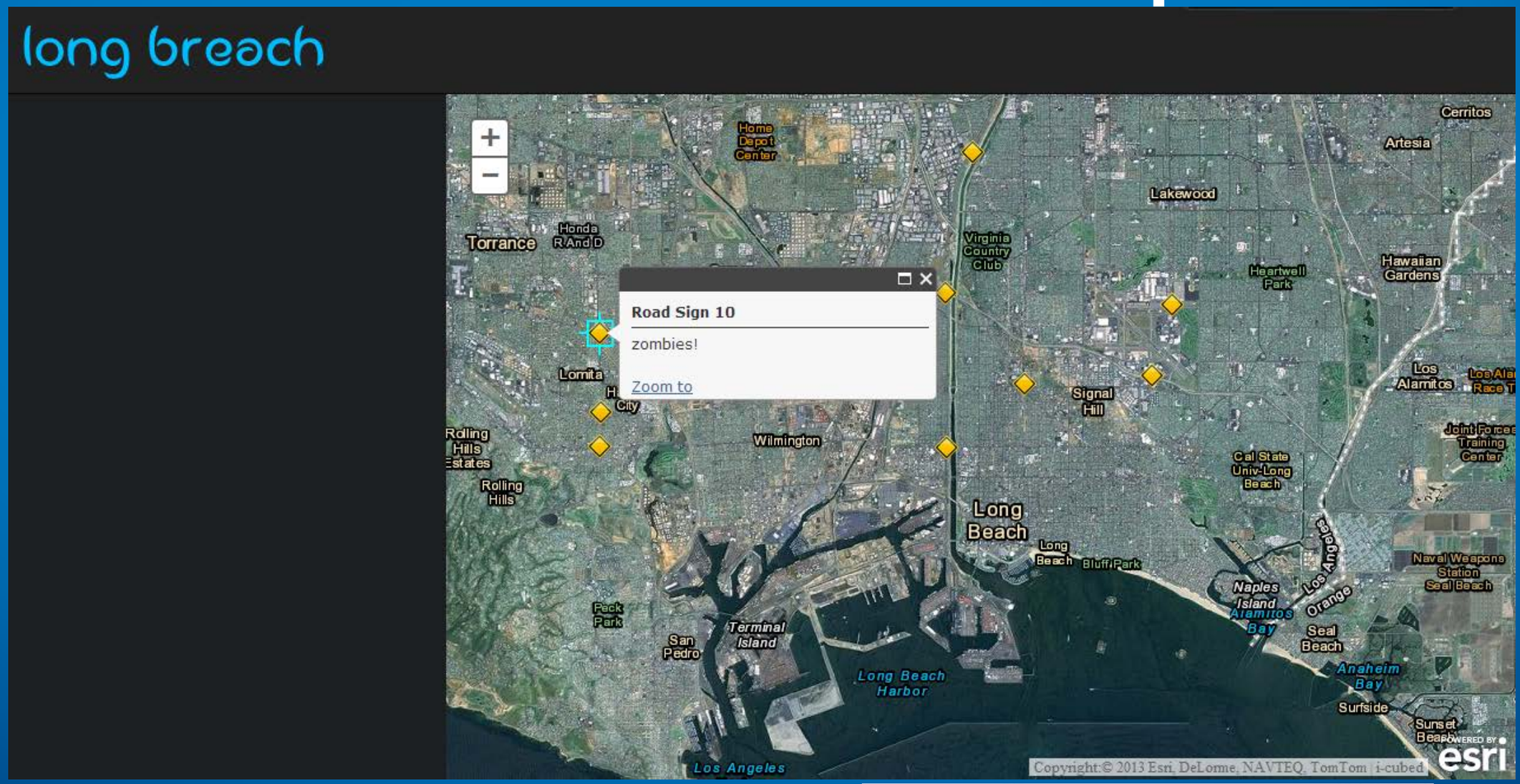
software AG Government Solutions

virtualagility

AtHoc™

Question: How does the public know where to go to be safe?

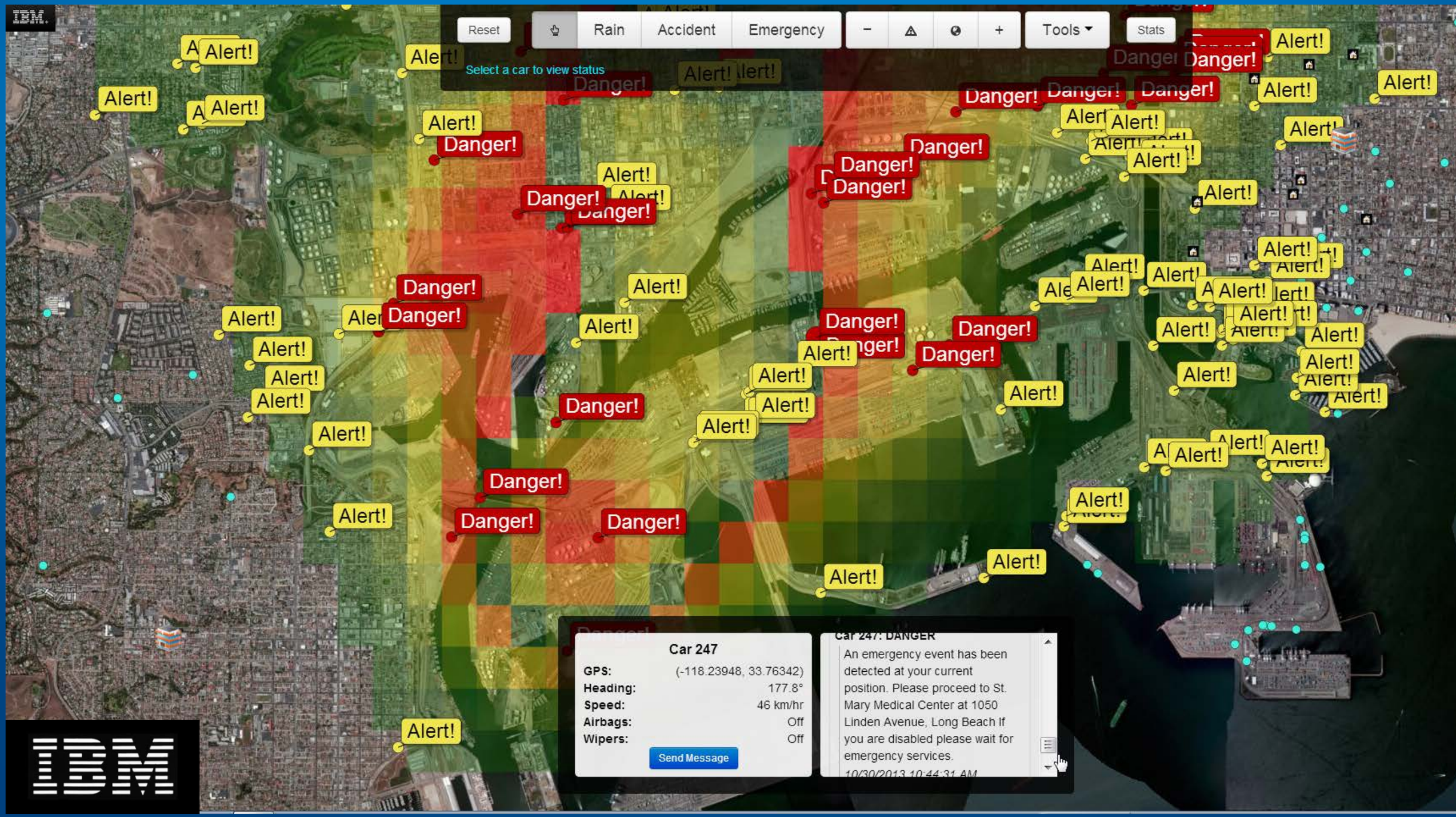
Interactive Tactical Map



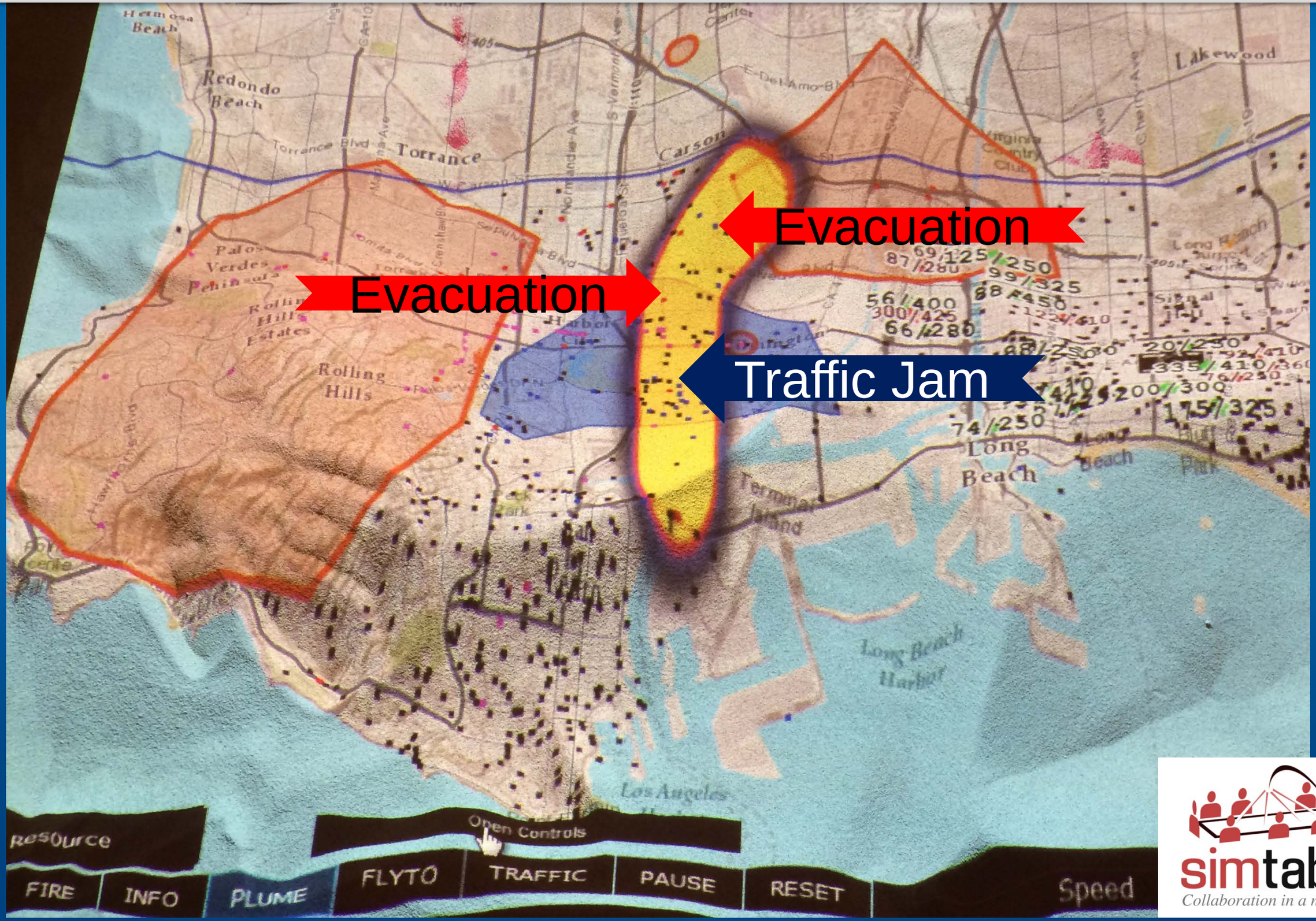
SAN DIEGO STATE UNIVERSITY

GEORGE MASON UNIVERSITY | C4I CENTER

Question: How do we alert medical threat (red) in the plume, and evacuation (yellow) ahead of the plume?

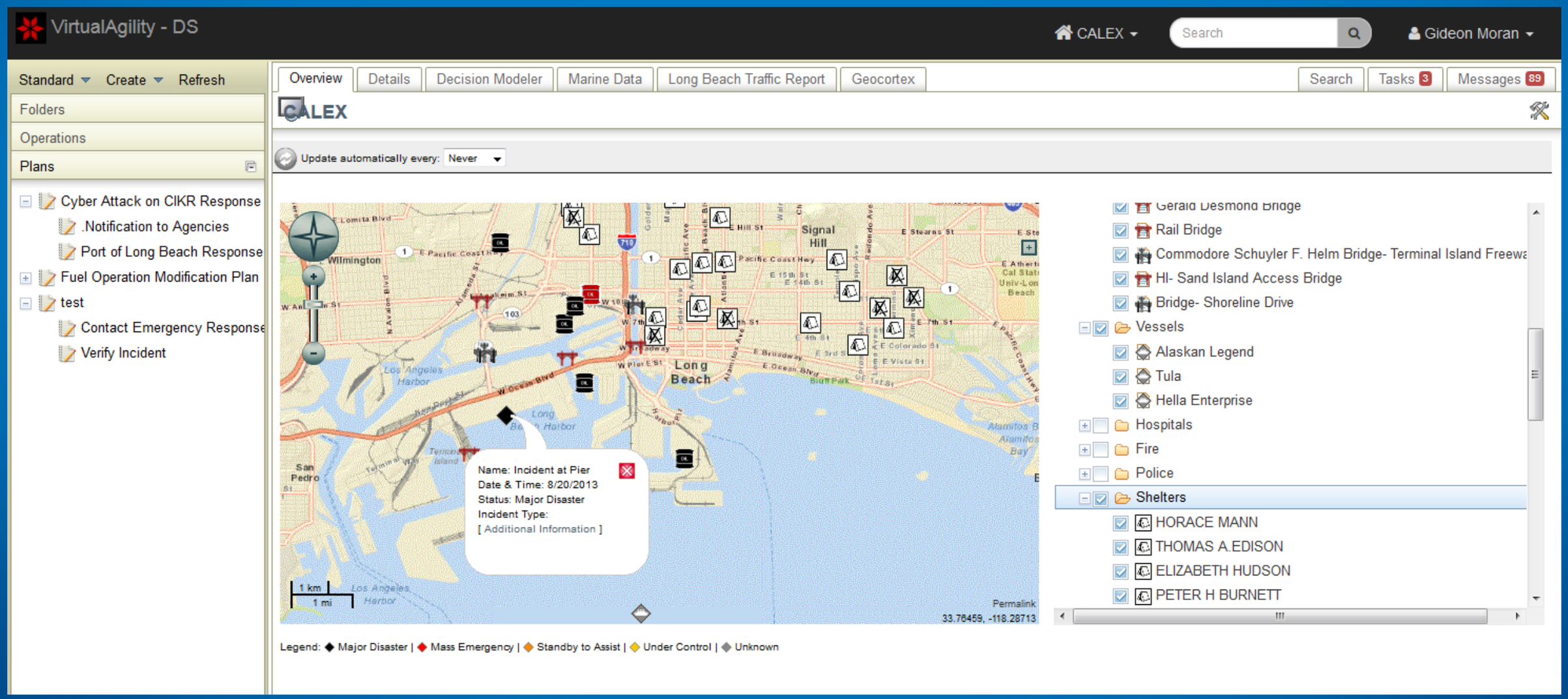


Question: Attack on responders: how is response prevented? (EAS & ITS Attacks)



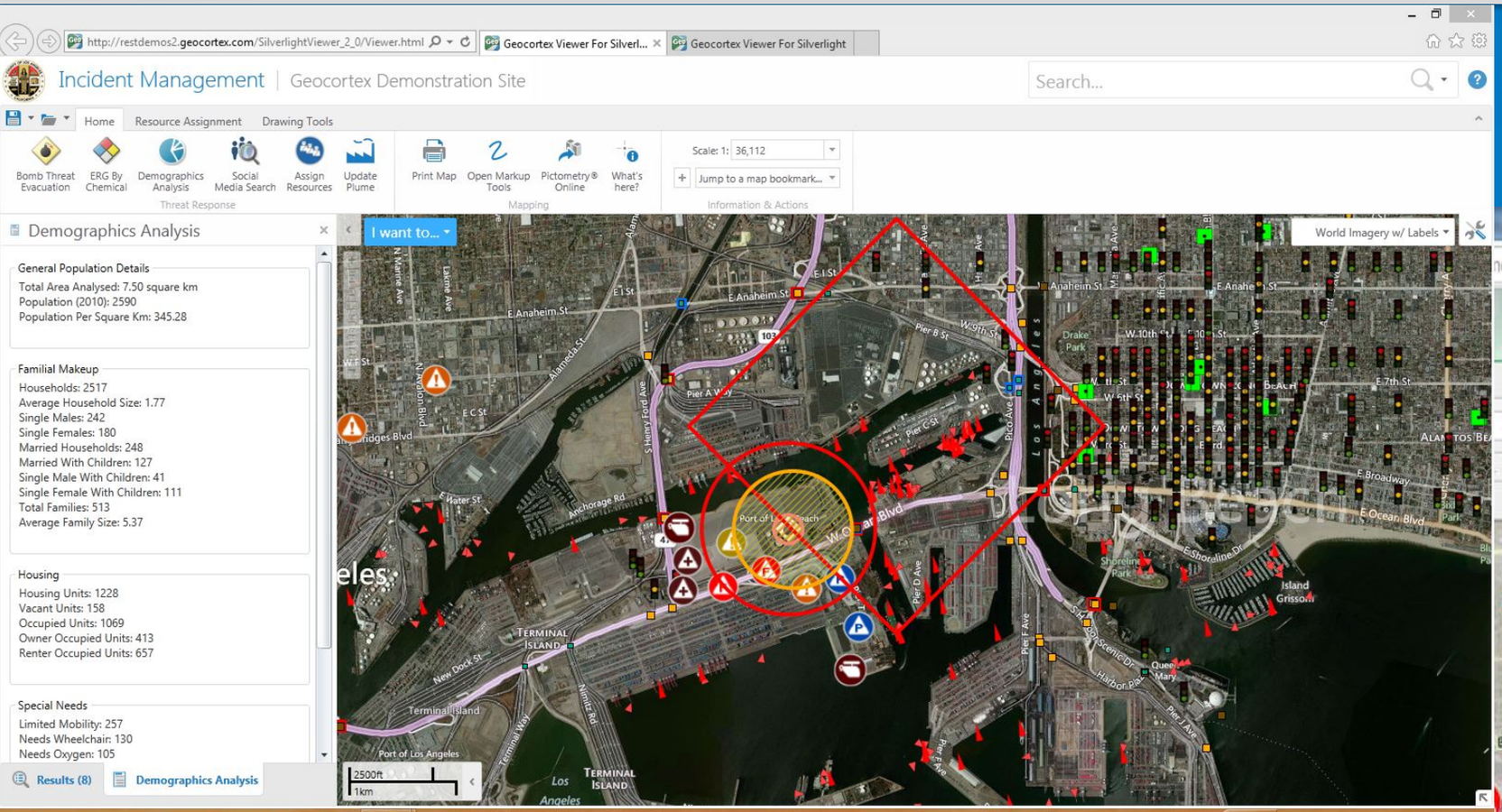
simtable.com™
Collaboration in a new light

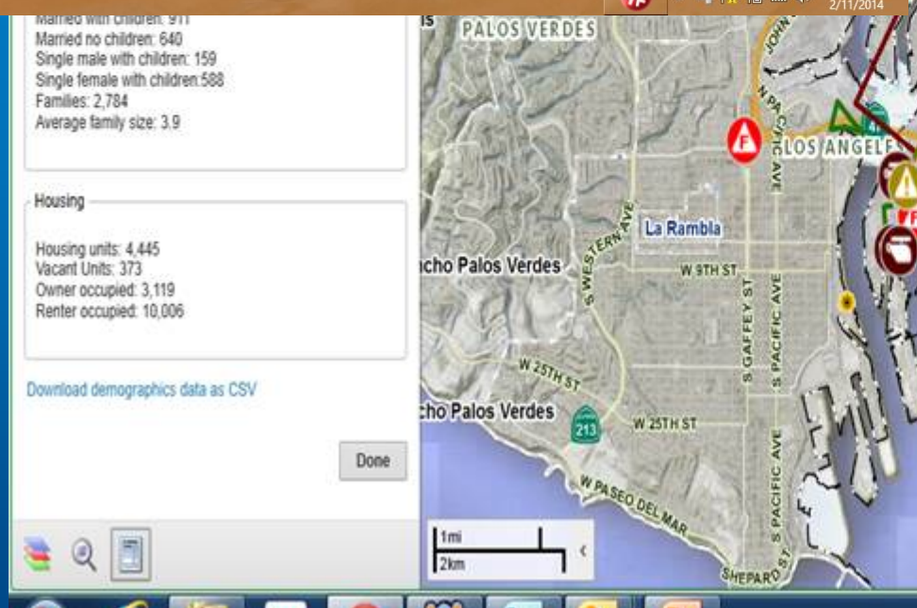
Question: How do you develop and implement courses of actions against cyber attack?



virtualagility

Question: How do we assign restoral tools across multiple platforms simultaneously?





Geocortex® | by Latitude Geographics®