

RSAC®Conference2015

San Francisco | April 20-24 | Moscone Center

SESSION ID: HT-W03

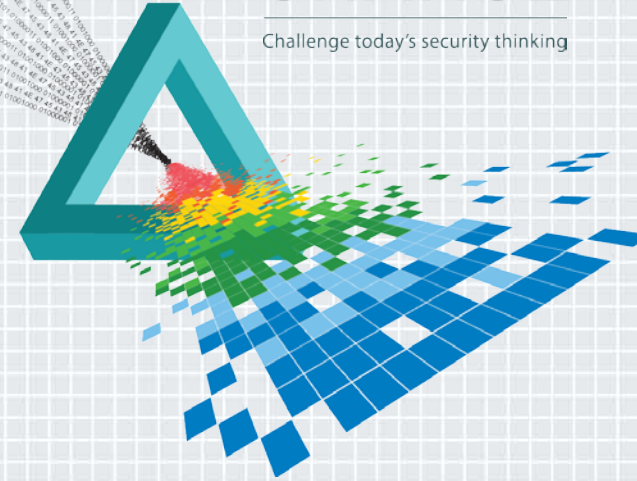
Modern Department of Homeland Security Cyber: Our Vision Forward

Dr. Phyllis Schneck

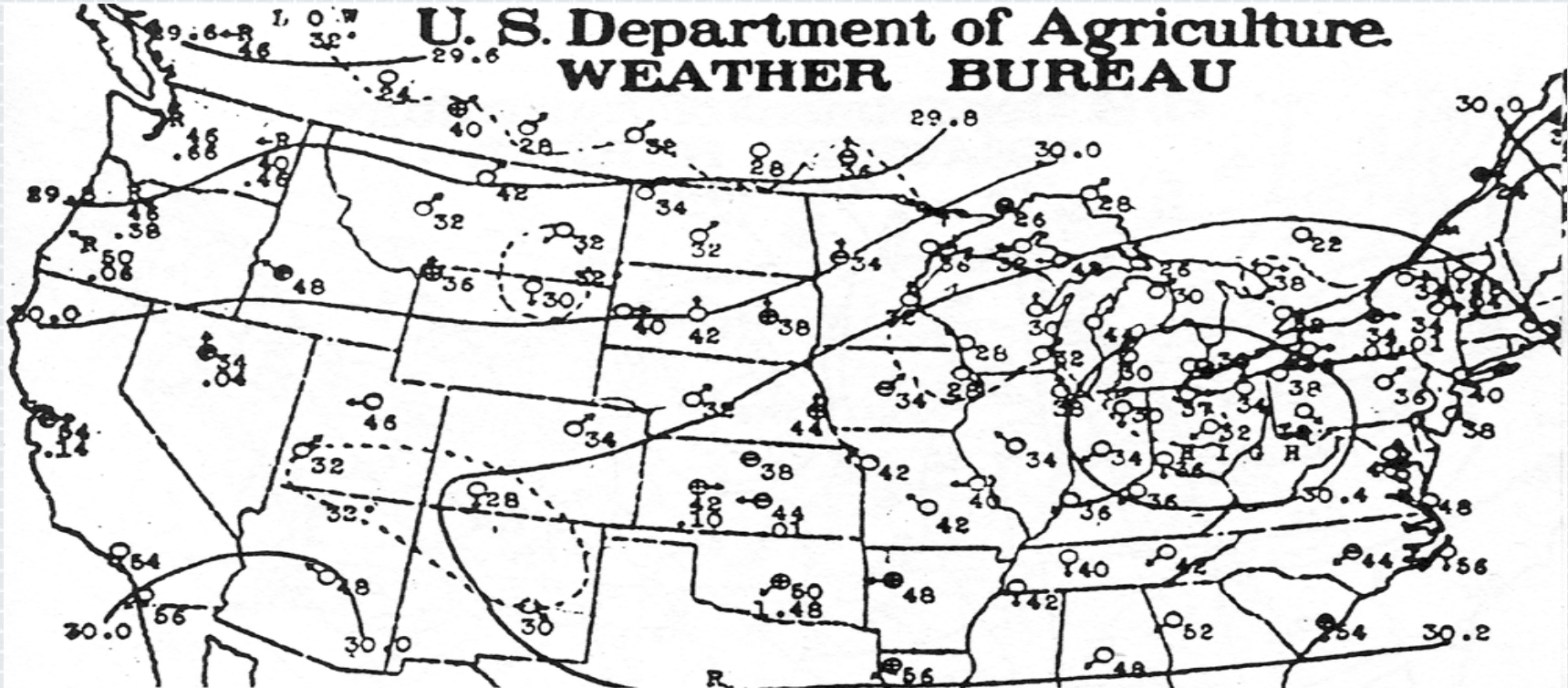
Deputy Undersecretary for Cybersecurity and Communications
Department of Homeland Security
@Cyber

CHANGE

Challenge today's security thinking



Industrial Age WxMap



November 10th, 1913



THE WEATHER—
Tonight, fair, colder;
Moderate west winds.

The Detroit News

LATEST EDITION

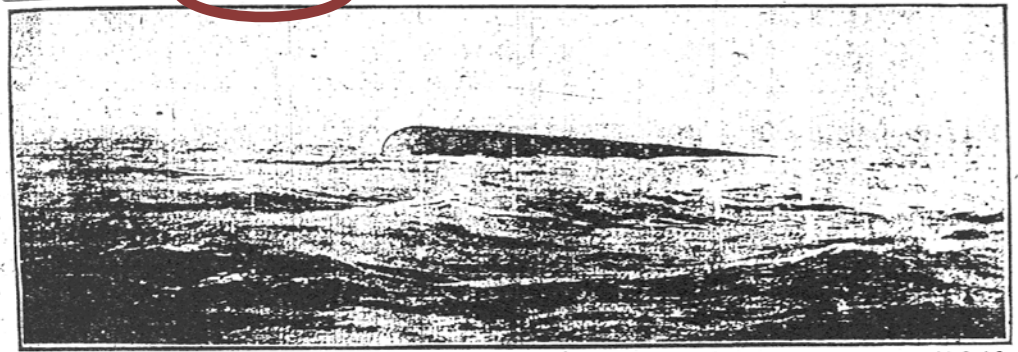
41ST YEAR, NO. 82
DETROIT, MICHIGAN, THURSDAY, NOVEMBER 13, 1913.—TWENTY-FOUR PAGES.

DEATH TOTAL ON LAKES MAY BE 273

WILSON READY TO AID REBELS

GREATEST MYSTERY IN HISTORY OF GREAT LAKES DISASTERS

DISASTER GROWS AS NEW REPORTS COME



The Photograph of the Overturned Boat, the Identity of Which Nobody Has Been Able to Learn, Was Taken on Board the U. S. Revenue Cutter Morrill by John Strocata, Master-at-Arms of the Boat's Crew. It is the Only Photograph Taken on Date of the Strange Wreck.

DEAD AND MISSING ON GREAT LAKES.

Carruthers	28	Isaac M. Scott.....	28
Regina	22	Butters	20
McGeon	22	Plymouth	7
Wesford	22	Loafield	7
Price	28	Lightship No. 82 ..	6
Argus	28	Nottingham	13
Lafayette	12		
Hydrus	28		
Total	273		

Vessel men estimate the financial loss at \$3,000,000.

Professors are the great sea farers and the great lake men. They are the men who have made the lakes a highway of commerce. They are the men who have made the lakes a highway of life. They are the men who have made the lakes a highway of death.

DEATH AND LOSS TOTALS MOUNT; MAY PROVE STORM WORST KNOWN

THAT DEPOT LOOP SHOULD BE BUILT

The depot loop question has got to a point where public opinion will have to take a hand.

Detroit has been trying for several years to get a depot loop. The Pennsylvania railroad and the Baltimore & Ohio railroad to see into the city, because Detroit needs the greater

Who has blundered? Who is to blame? It is the same old combination of politics and the D. U. R.

The agreement of August 7 between the city and the D. U. R. made provisions for the construction of a depot loop. It was not over. Now, it was specifically provided for.

WAITS TILL U.S. ENVOYS QUIT MEXICO

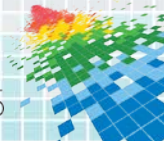
GIVES BLOOD TO BROTHER IN VAIN

A year and a half of his lonely life would not have been the life of the world's first, and it is a sad thing that the first of his kind should be the first of his kind.

SHIP MYSTERY IS NO NEARER A SOLUTION

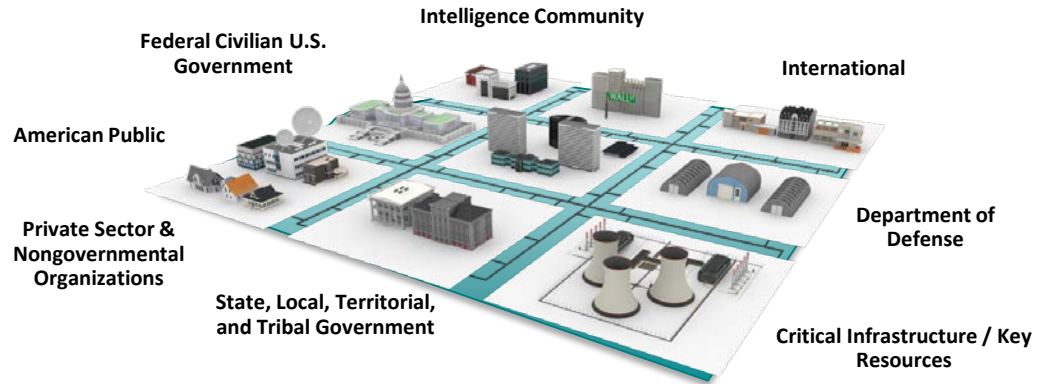
Mysteries Still Unsolved.

Several years ago, a schooner named the Morrill, was wrecked on the shores of Lake St. Clair. The schooner was carrying a cargo of lumber. The schooner was carrying a cargo of lumber. The schooner was carrying a cargo of lumber.



Need Enhanced and Interoperable Capabilities Across Ecosystem #RSAC

Protecting and enhancing the Nation's cyber and physical critical infrastructure is a shared responsibility.

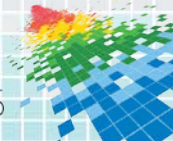
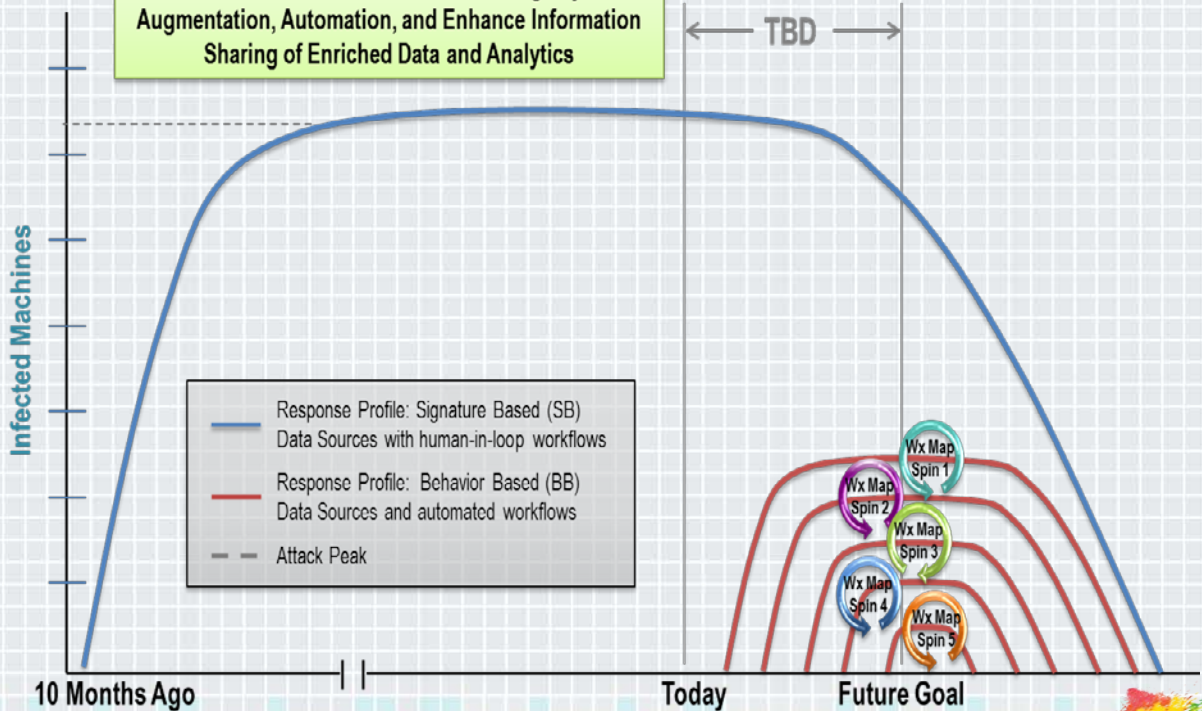
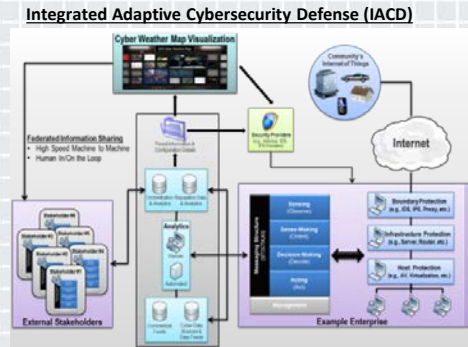


Enterprise Owners and Operators retain primary responsibility, while DHS helps to evolve the Cybersecurity, Communications, and Physical Ecosystem.

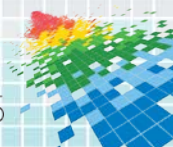
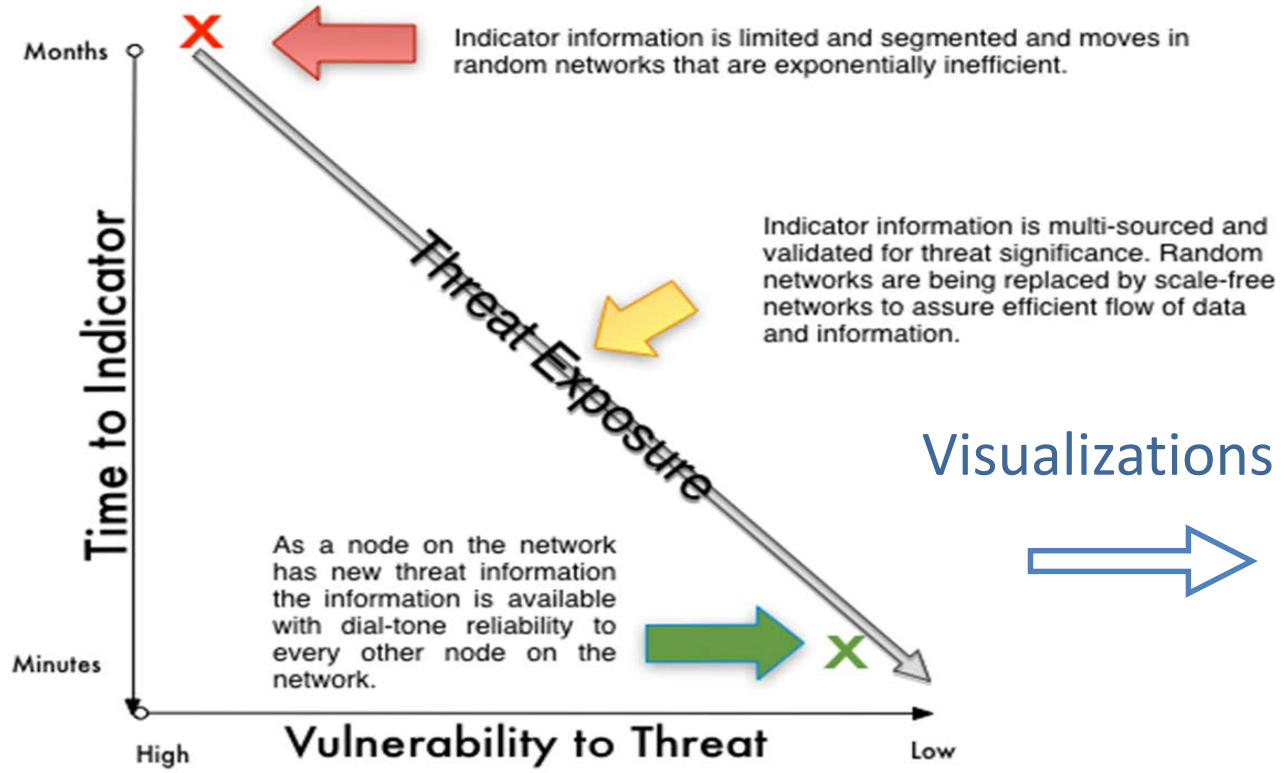


Cyber Attack Response: Months to Milliseconds

Cyber Attack Response Time Reduced From Months to Minutes to Milliseconds Achieved Through System Augmentation, Automation, and Enhance Information Sharing of Enriched Data and Analytics



Risk Reduction at the Speed of the Network



What is the DHS Cyber Weather Map?



Cyber Weather Map

An integrating initiative that *harnesses* NPPD Programs and Mission Operations to enable:

Tailorable and Protected Information Sharing and Situational Awareness

Providing trusted access, aggregation and analysis across commercial and Government-based sources

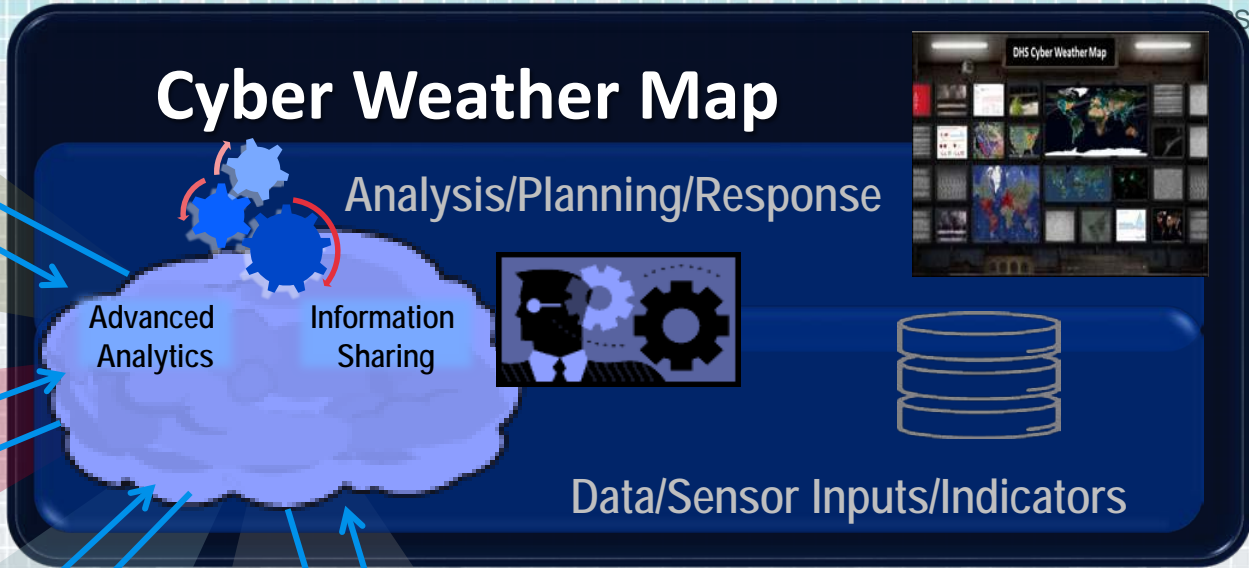
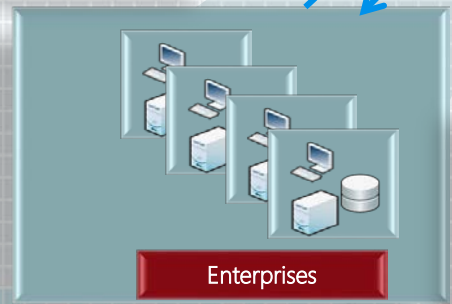
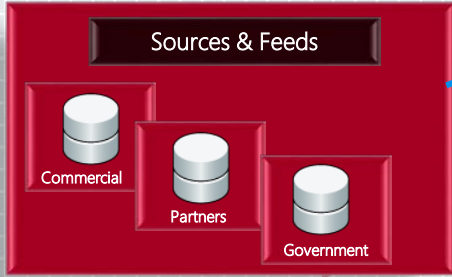
Rapid Access to Enriched, Trusted Indicators and Mitigations

Providing high confidence reputation information, behavior-based indicators, and mitigations at cyber relevant speeds

Unity of Effort for Cyber Readiness and Response

Providing coordinated cyber response planning/execution and scalable net-speed cyber defense capabilities





Cyber Weather Map capabilities support and are supported by multiple sources, enterprises, partners



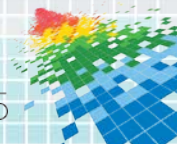


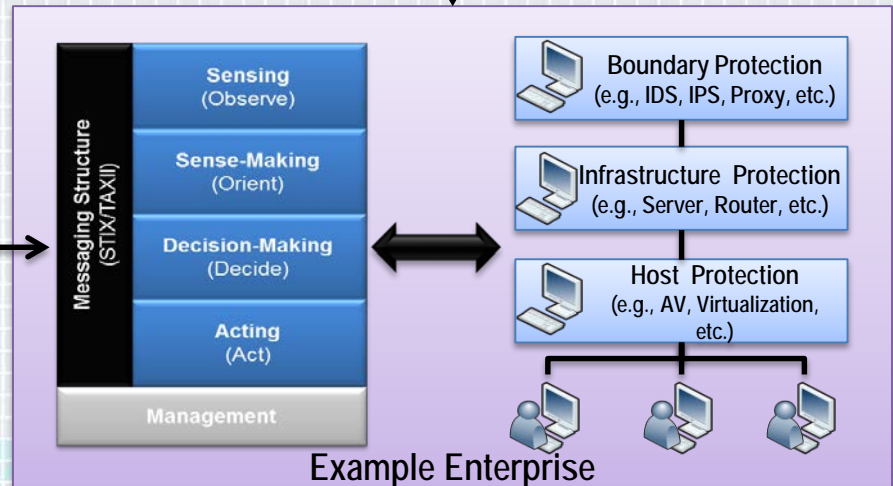
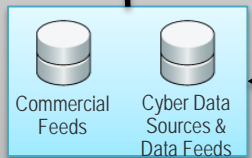
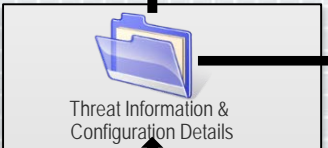
High Speed Cybersecurity Automation

"If You See Something, Say Something™"

Example Questions:

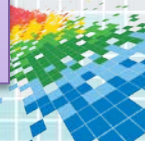
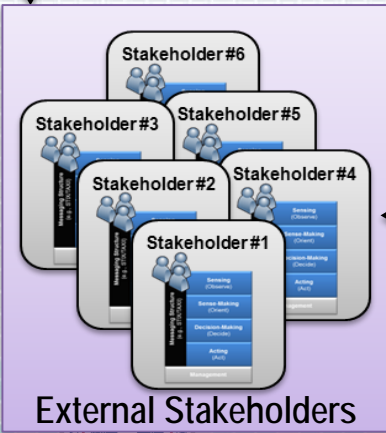
1. Are we under attack?
2. Who is attacking?
3. What are the consequences?
4. What are the next targets?



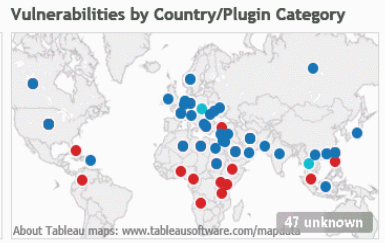
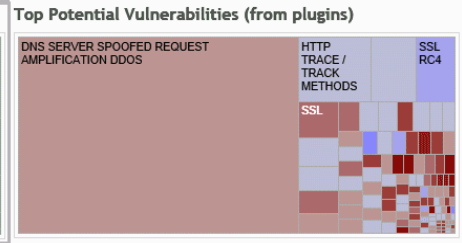
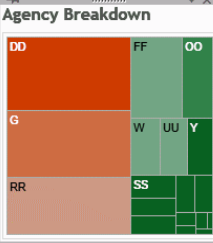
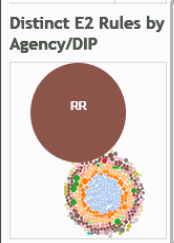
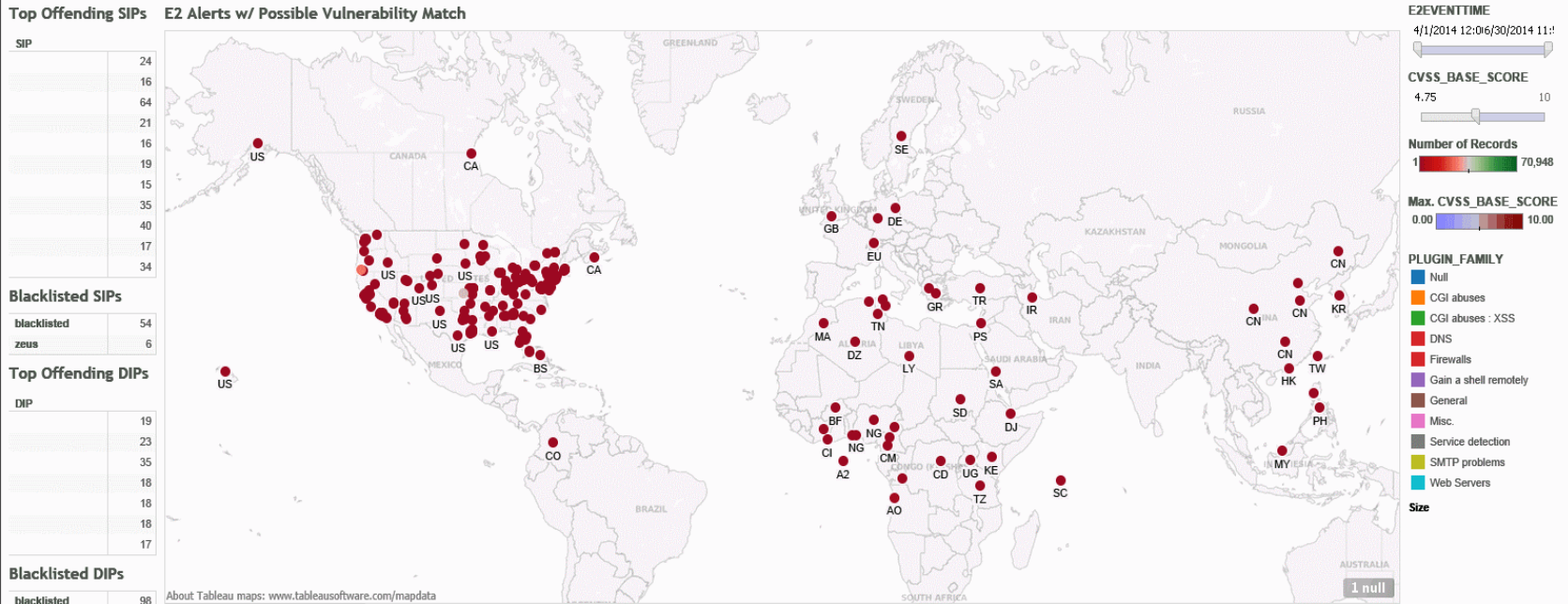


Federated Information Sharing

- High Speed Machine to Machine
- Human In/On the Loop

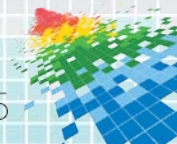


Cyber Weather Map Visualization Example



Get More Involved With DHS

- ◆ Explore CDM
 - ◆ Overview: https://www.us-cert.gov/sites/default/files/cdm_files/CDM_ProgramOverview.pdf
 - ◆ Public website: www.dhs.gov/cdm
- ◆ Share with the NCCIC
 - ◆ Website: <https://www.us-cert.gov/nccic>



Apply what you have learned today: Get More Involved With DHS

- ◆ Learn about how to become a part of the CISCP Program
 - ◆ Email: CISCP_Coordination@dhs.gov
 - ◆ CISCP Program & Governance questions
- ◆ Learn about and leverage STIX/TAXII
 - ◆ STIX: <http://stix.mitre.org>
 - ◆ List registration: <http://stix.mitre.org/community/registration.html>
 - ◆ Discussion archives: <http://making-security-measurable.1364806.n2.nabble.com/STIX-Discussion-List-f7579090.html>
 - ◆ Tools: <https://github.com/STIXProject>
 - ◆ TAXII: <http://taxi.mitre.org>
 - ◆ Tools & Scripts: <https://github.com/TAXIIProject>

