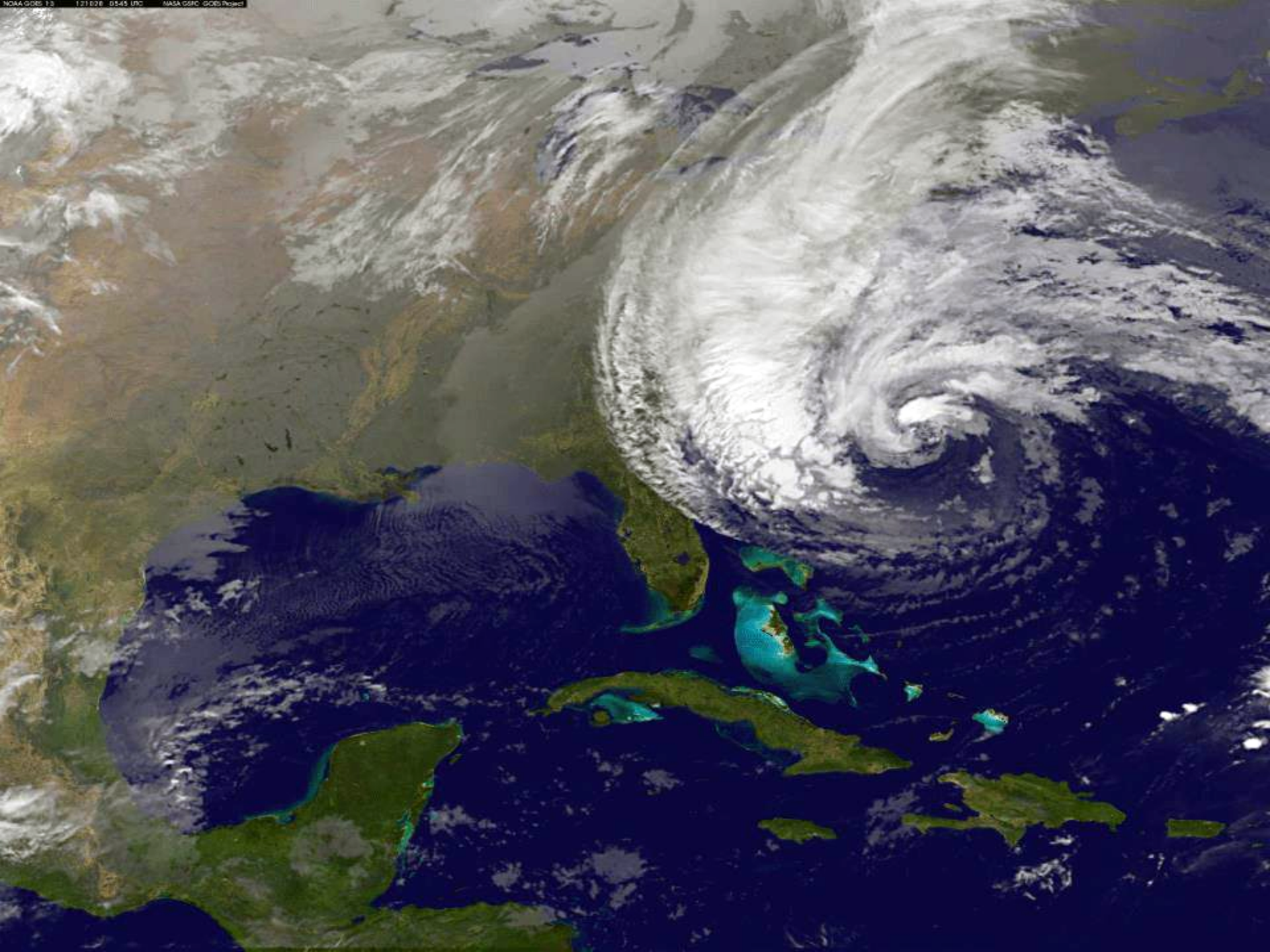


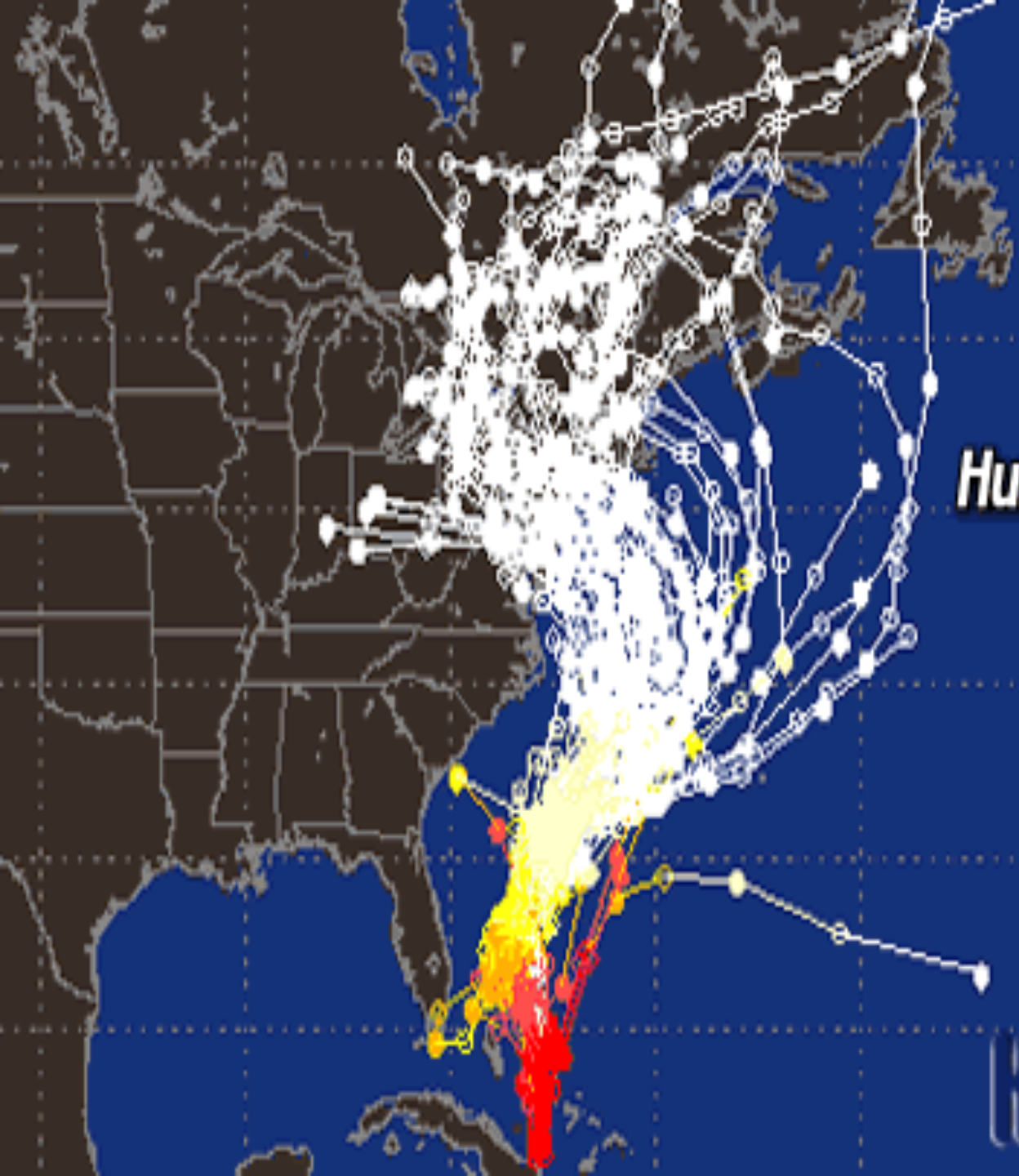


INFORMATION SECURITY: PART I

IT PARTNERS 11/2013







Hurricane Sandy Models

(As of 5pm - October 25, 2012)

Hoboken41.com



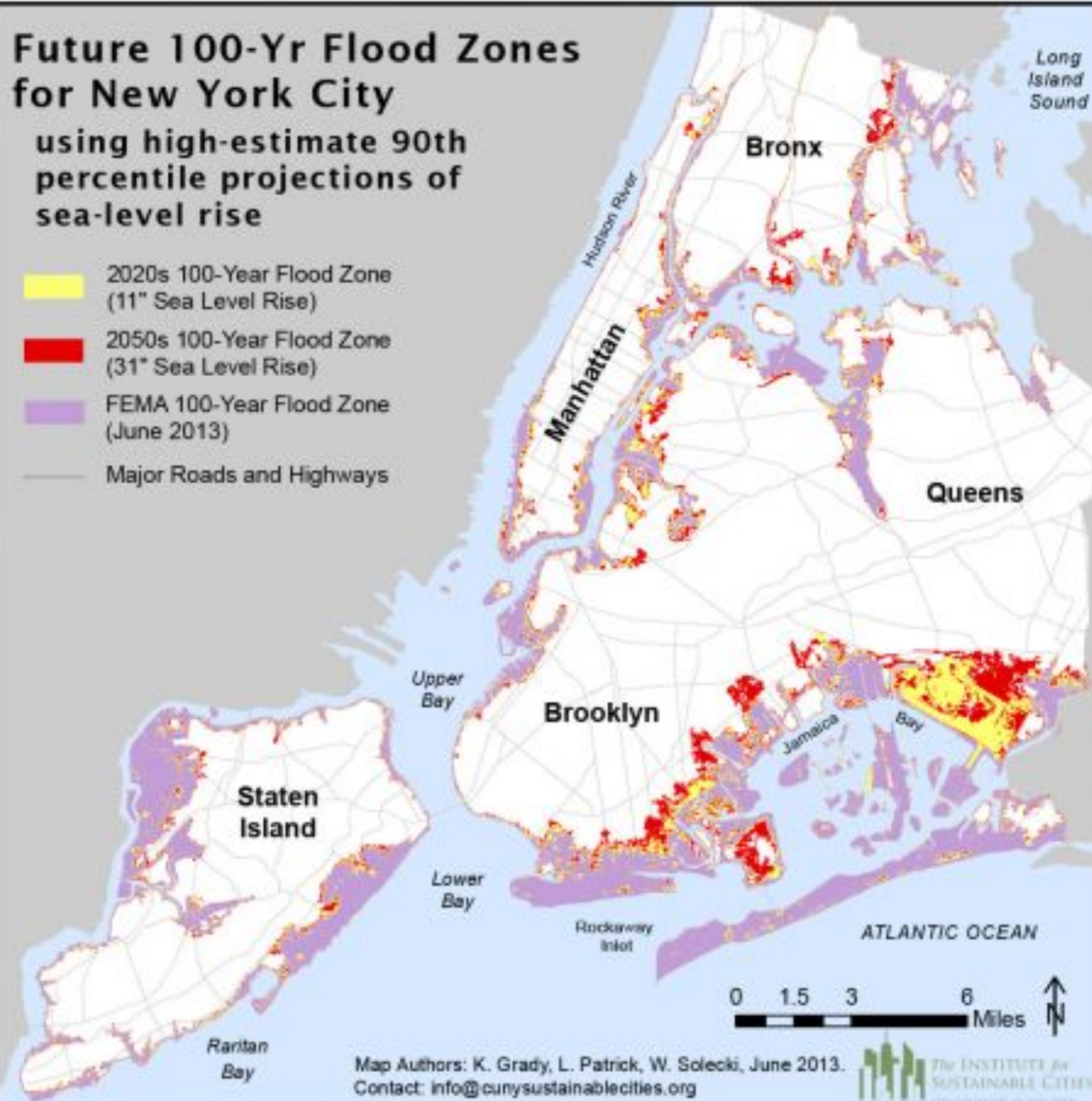




Future 100-Yr Flood Zones for New York City

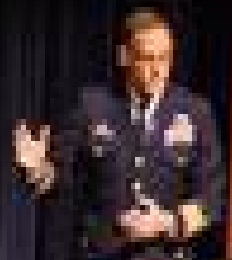
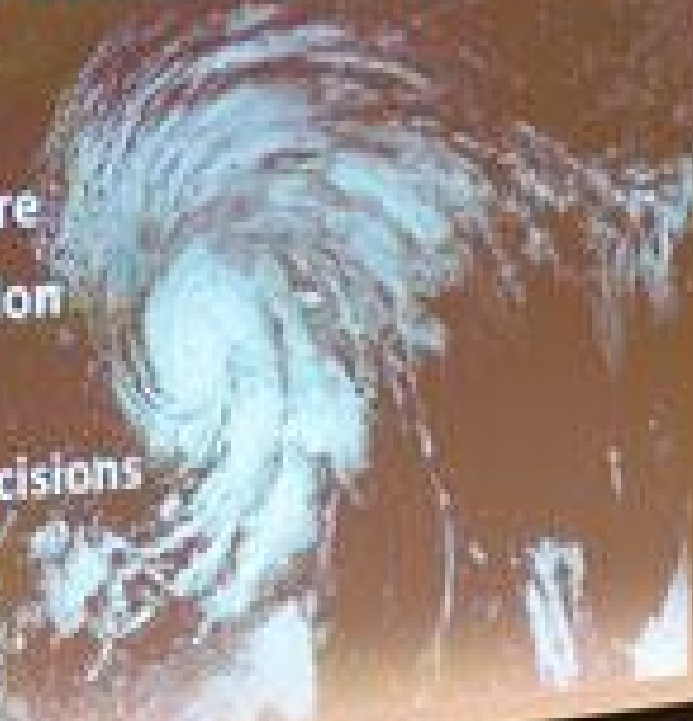
using high-estimate 90th percentile projections of sea-level rise

-  2020s 100-Year Flood Zone (11" Sea Level Rise)
-  2050s 100-Year Flood Zone (31" Sea Level Rise)
-  FEMA 100-Year Flood Zone (June 2013)
-  Major Roads and Highways



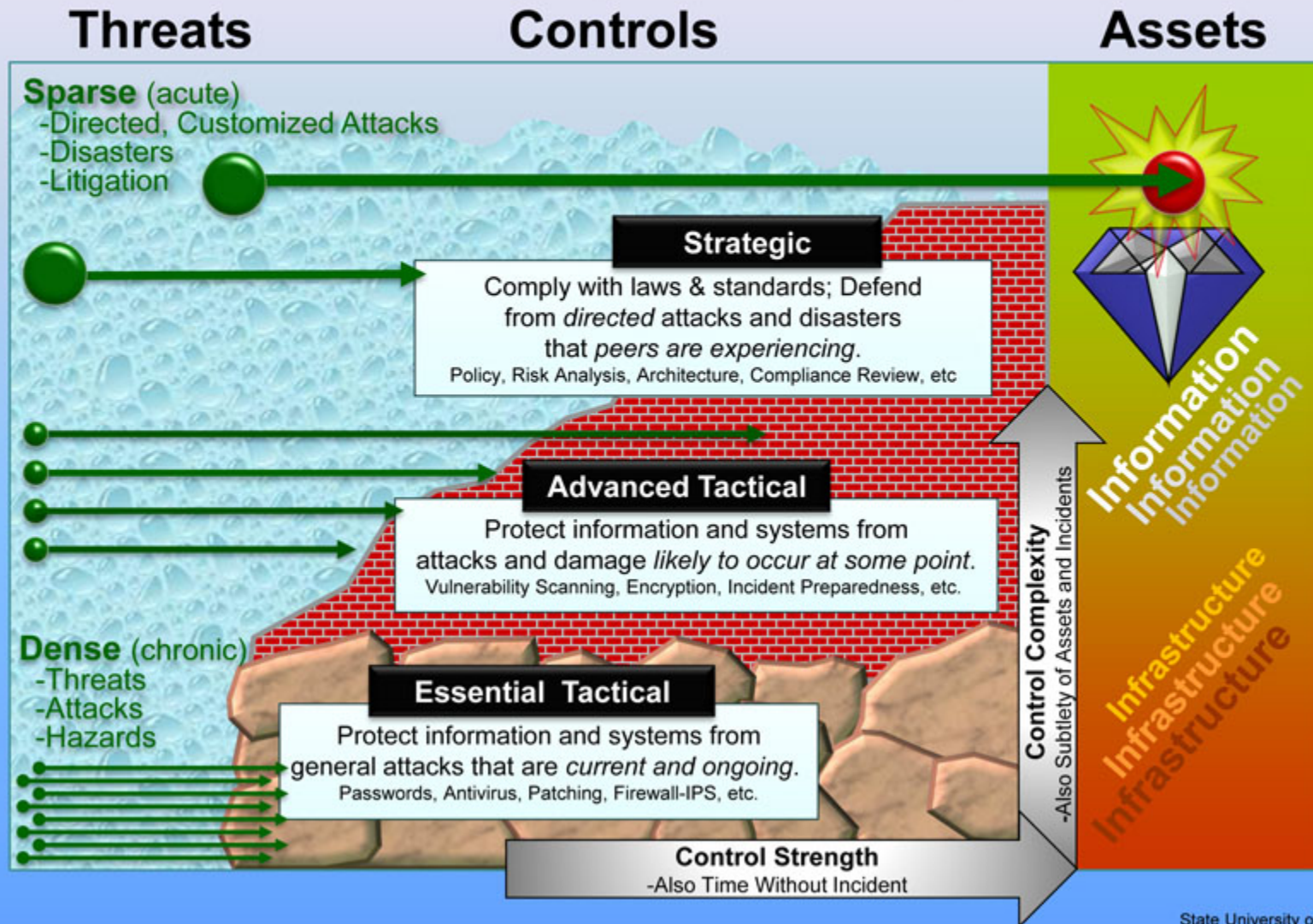
Hurricane Sandy: Keys to Effective Response

- Plan & Prepare
- Communication
- Flexibility
- Informed Decisions
- Teamwork



Levee Model of Security

-Information Security's Layered Threats, Controls, and Assets





**IS IT TIME FOR SUCH AN EPIPHANY AT
STONY BROOK?**

Is SBU following best practices?

Do we have appropriate policies?

Does everyone understand their responsibility?

Do we have adequate training? Is it mandatory?

Do we conduct security reviews?

Do we have the appropriate tools in place to protect our assets?

When the tools we have show problems to we follow up in a timely manner?

Is assessing security part of our culture?

Is SBU following best practices?

- Do we continually review and tune our practices to respond to changing threats?
- Do we have the data to determine how effective we are?
- Have our efforts to secure data kept pace with the rising threat profile? Or, are we falling behind?
- Are we compliant with standards and best practices

WHAT DOES THE DATA SHOW?

GLOBAL DATAGUARD POC

Global Dataguard is a managed service and security company that offers out of band solutions to accomplish and correlate the following:

- Scheduled/Automated Vulnerability Scans
- Network Behavior Analysis
- Log Centralization
- Signature Based IDS/IPS
- 24/7 Managed Service that evaluates collected data and prepares custom alerts/reports for internal consideration and action.



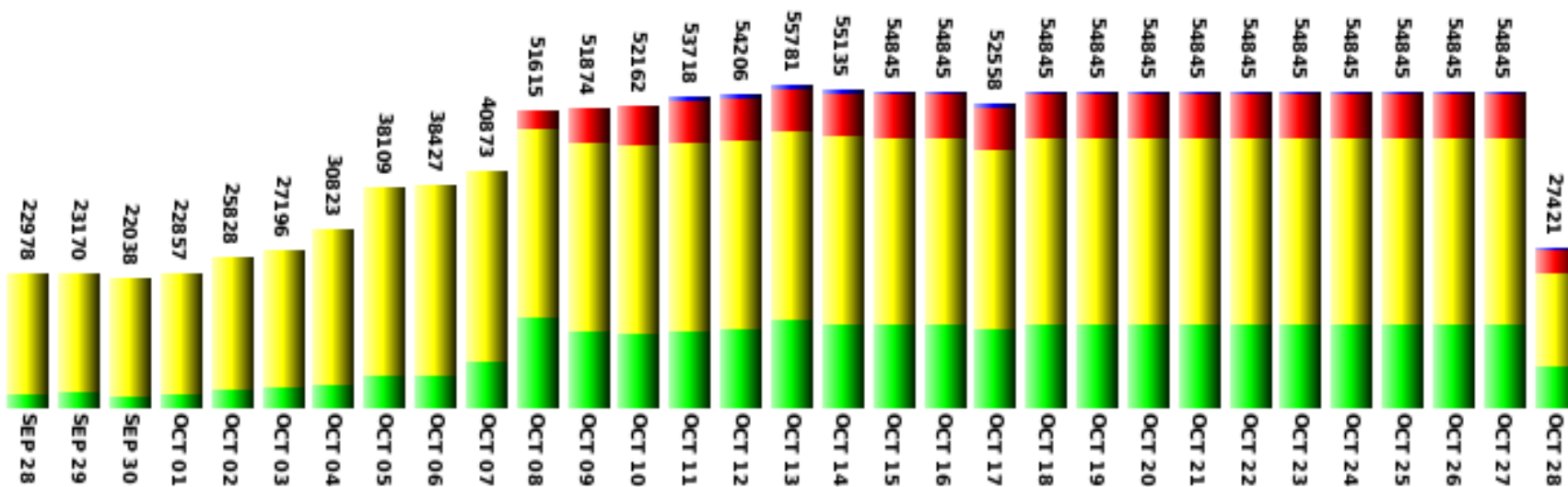
Global DataGuard
Unified Security Anywhere™

WHAT DOES THE DATA SHOW?

WE ARE BEING TARGETED.

30-Day Threat Remediation Graph

Global Network Vulnerability Vendor



Global Attack Radar

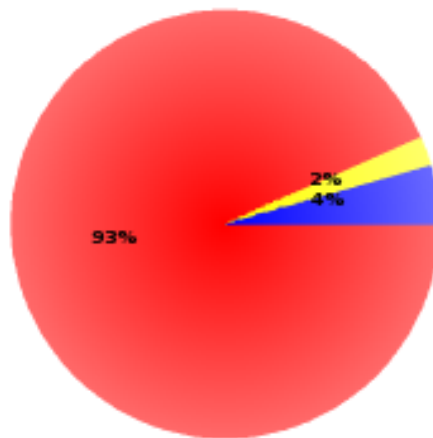


N. America - 0 S. America - 0
 Europe - 96.00 Africa - 0
 Asia - 0 Oceania - 0

Security Risk Breakdown

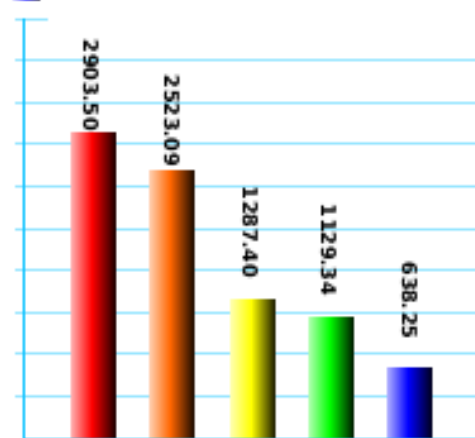
Last Scan Date: 2013-10-10

High Medium Low



Primary Attack Types

CONNECT: TCP-84 CONNECT: TCP-59
 CONNECT: TCP-44 FTP:FTP-LOGIN
 CONNECT: TCP-68



sbucampus01

Notes

Open Ticket

Clear All

Time	P	Type	Name	C1	Envelope	C2	C	I	Count	SSV
13:03:38	1	S	BD:ZEROACCESS-UDP	US	129.49.40.187 > 213.107.111.219	GB	<input type="checkbox"/>		3	97
13:13:38	1	S	BD:ZEROACCESS-UDP	US	129.49.40.187 > 196.214.54.125	ZA	<input type="checkbox"/>		3	98
13:43:34	1	S	BD:ZEROACCESS-UDP	US	129.49.40.187 > 69.42.6.100	US	<input type="checkbox"/>		3	102
13:07:27	2	S	P2P:EDONKEY-SEARCH-REPLY	KR	14.40.30.75 > 129.49.72.142	US	<input type="checkbox"/>		3	0
13:07:28	2	S	P2P:EDONKEY-SEARCH-REQ2	US	129.49.124.117 > 96.49.27.79	CA	<input type="checkbox"/>		3	0
13:07:31	2	S	P2P:EDONKEY-SEARCH-REPLY	TN	41.228.211.191 > 129.49.193.20	US	<input type="checkbox"/>		3	0
13:07:38	2	S	P2P:EDONKEY-SEARCH-REQ2	US	129.49.100.227 > 123.185.160.55	CN	<input type="checkbox"/>		3	0
13:07:45	2	S	WEB:HTTP-UNUSUAL-PORT	US	130.245.191.58 > 54.227.198.25	US	<input type="checkbox"/>		3	227
13:08:28	2	S	P2P:EDONKEY-SEARCH-REQ2	US	129.49.40.63 > 14.104.206.20	CN	<input type="checkbox"/>		3	0
13:08:31	2	S	P2P:EDONKEY-SEARCH-REQ2	US	129.49.40.187 > 67.168.221.61	US	<input type="checkbox"/>		3	0



Top Attacks by Country

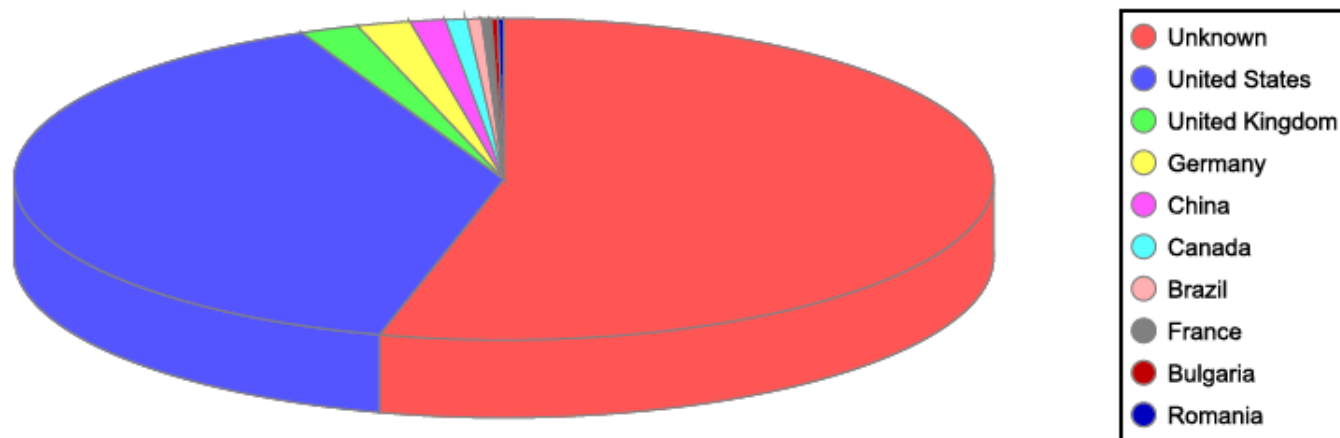
Start Time: Oct 25, 2013 12:00:00 AM EDT

End Time: Oct 31, 2013 11:30:55 AM EDT

Action Type: All

Severity: All

Description: [All search criteria are in summary page](#)



No.	Country Name	Hit Count
1	Unknown	21,523,9
2	United States	15,585,3
3	United Kingdom	765,2
4	Germany	699,5
5	China	459,8
6	Canada	284,9
7	Brazil	187,4
8	France	124,0
9	Bulgaria	88,1
10	Romania	75,5

WHAT DOES THE DATA SHOW?

WE ARE MAKING

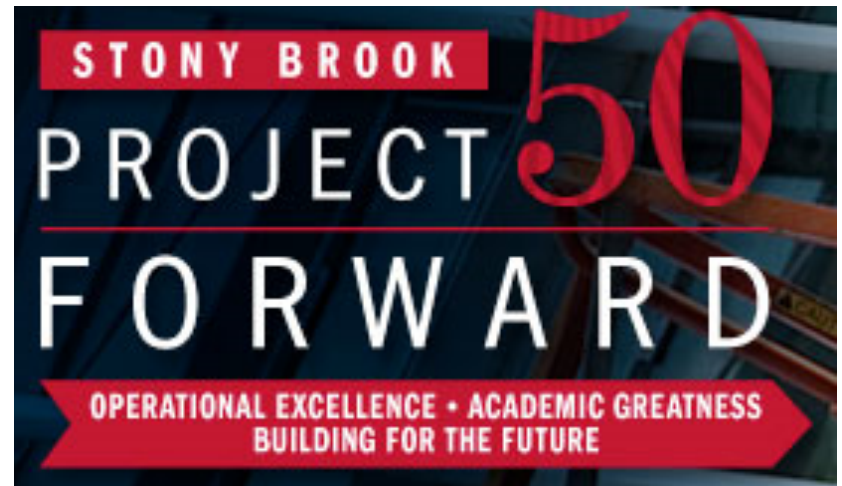
PROGRESS

- In a short period of time, this information has proved valuable.
 - Client Support and IT Partners have been working to help us locate and remediate infected machines.
 - On September 18th, the top ten offenders on the 129.49.x.x network generated 183,545 hits on our existing IPS. The same report on October 18th generated “only” 16,591 hits.
 - Networking has assisted in shutting off network access to breached computers when necessary.
 - Repeat offenders and computers that can not be located are being disabled.
 - Armed with the data GDG supplied, we are exploring how to better utilize some existing tools.
 - For example, previously we were seeing on average about 500,000 RDP successful alerts per day. It has now dropped to around 150,000 per day.

We still have much work to do

SO, WHAT IS DOIT DOING TO ADDRESS THE THREATS? PLANNING

- Developed a three year plan to improve security
 - Policies
 - Procedures
 - Practices
 - Infrastructure
- Presented it as a Project 50 Forward Project



SO, WHAT IS DOIT DOING TO IMPROVE SECURITY?

- Information Security, Client Support, Systems and Data Network Services are working together to:
 - Intervene on particular threats
 - Examine security practices
 - Better use existing tools
 - Rethink how we do business



Division of Information Technology

Some closing thoughts

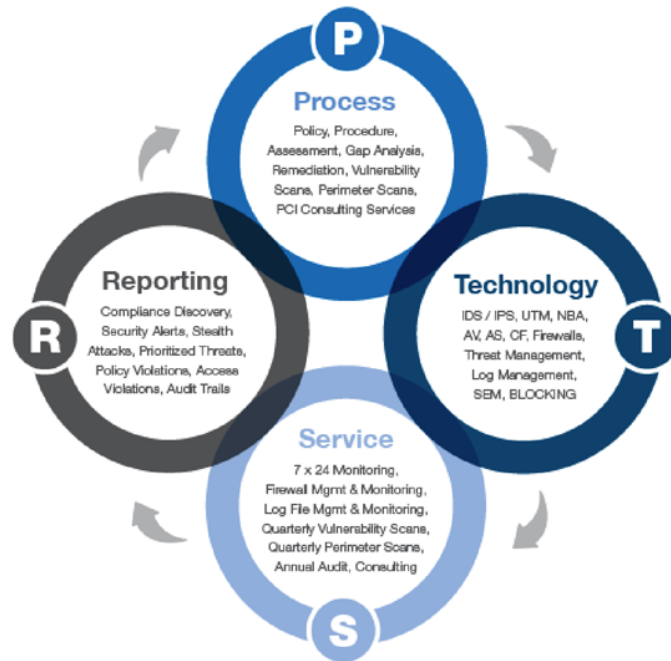
- Security is everyone's responsibility
- Those of you who manage systems must take special precautions to assure that the data on your systems are protected.
- Assume that there are no institutional safeguards in place to protect your data.
- Any safeguards that are put in place will then provide defense in depth
- Remember that security is a process not a product.

Five Modes of Action

- "DNA" of Risk Management



SECURITY IS A PROCESS



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