

Fighting Crime Now:

Prevention and Effective Surveillance

Or

Today's Effective Surveillance

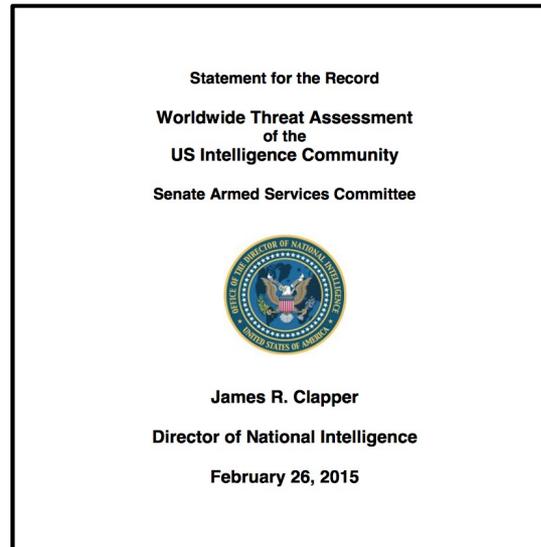
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ISS World, South Africa

Challenge of Terrorism

- Ottawa Parliament, Oct 2014
- Lindt Café, Australia, Dec 2014
- Charlie Hebdo, Jan 2015
- Italians arrest Vatican plotter, April 2015



Transnational Organized Crime - U.S. Senate Report



“Savvy, profit-driven criminal networks traffic in drugs, persons, wildlife and weapons, corrode security and governance, undermine legitimate economic activity and the rule of law; cost economies important revenues...”

Worldwide Threat Assessment, Feb. 26, 2015

Transnational Organized Crime - Interpol



INTERPOL

Organized criminals, acting globally, are
**“fast exploiting technology and
leaving governments and their
police forces behind.”**

Interpol, April 2015

Crime in the Digital Age

Cyber Crime

Terrorism

Cybercrime Cost

**\$400 Billion world-wide - Ponemon
Institute/McAfee Study, 2014**

Direct Costs:

- Theft of Intellectual Prop
- Financial Assets

Indirect Costs:

- Protection
- Remediation
- Reputation Damage



Cybercrime Cost

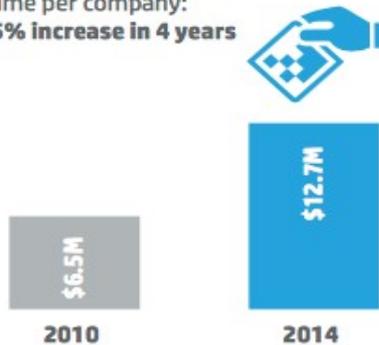
- **\$400 Billion world-wide** - Ponemon Institute/McAfee Study, 2014



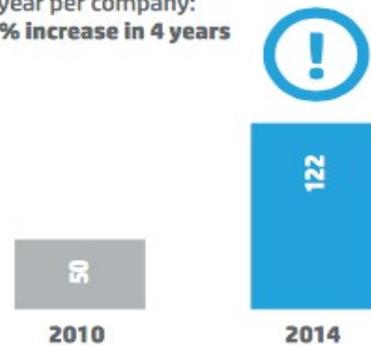
The problem*

Costs and incidence of attacks are high and growing.

Average cost of cyber crime per company:
95% increase in 4 years



Number of successful attacks per year per company:
144% increase in 4 years



Average time to resolve incidents:
221% increase in 4 years



HP Study, 2014

Crime in the Digital Age

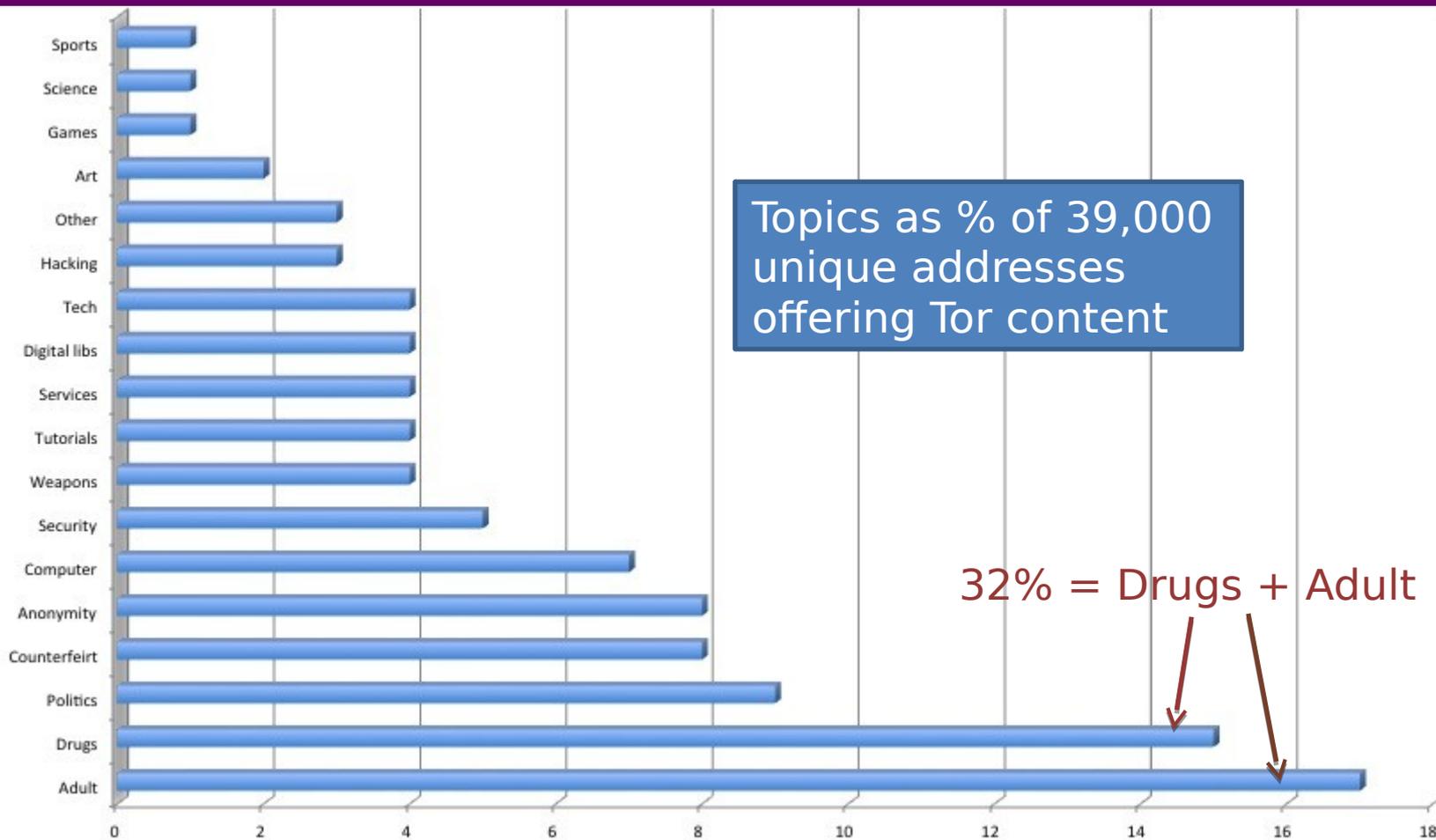
Cyber Crime

**Old Crime,
New Tools**

Terrorism



Topics discussed on Tor – 2013 study



Silk Road's Ross Ulbricht



Convicted February,
Sentenced to Life in
Prison May 2015

Dangerous Developments

- ◆ Rise of Digital Criminals
- ◆ Global Reach from the Comfort of Home
- ◆ Complete Anonymity
- ◆ Digital anonymous currency

Evolution of Networks

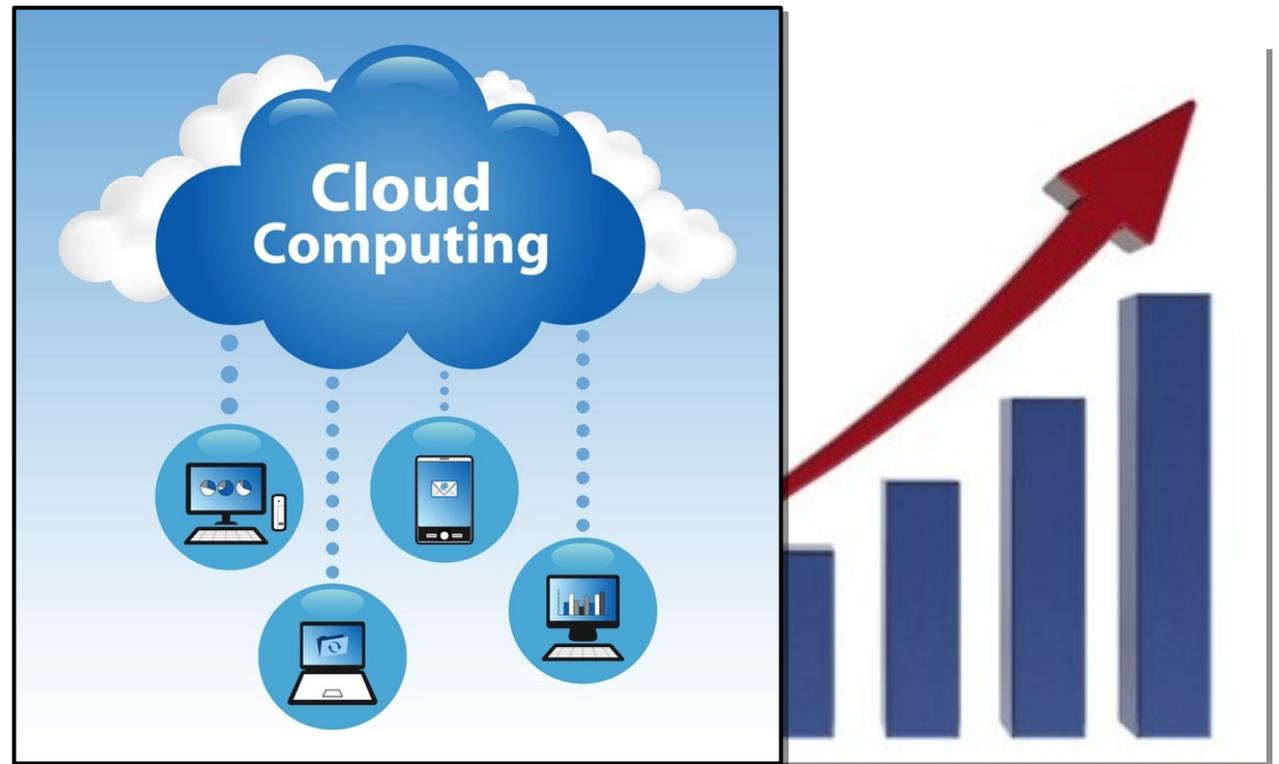




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Cloud Adoption

More and more, data is moving to the cloud.



Obama and Cameron on Encryption



Obama: Police and spies should not be locked out of encrypted smartphones and messaging apps.... Jan 16, 2015



Cameron: We should try to avoid the safe havens that could otherwise be created for terrorists to talk to each other.

U.S. Federal Bureau of Investigation



The pendulum has “swung too far” against the government.

FBI Director James Comey, Oct. 16, 2014

Britain's GCHQ



The Internet has become “command-and-control networks of choice for terrorists and criminals.”
Director Robert Hannigan, Nov. 3, 2014

French PM Manuel Valls



“We have to focus on the Internet and social networks, which are more than ever used to recruit, organize and disseminate technical knowhow to commit terrorist acts.... We must go further.”

PM Manuel Valls, Address to French Parliament, Jan. 13, 2014

Tim Cook, Apple

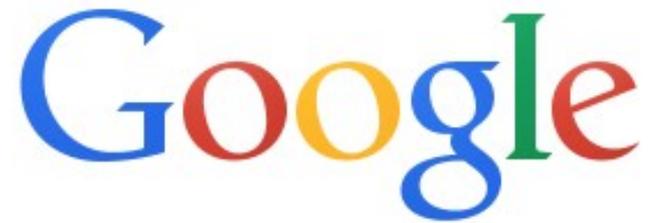


“We shouldn't give in to scare-mongering or to people who fundamentally don't understand the details...”

CEO Tim Cook, Nov. 3, 2014

Customers “...protected by end-to-end encryption across all your devices...”

Apple Website



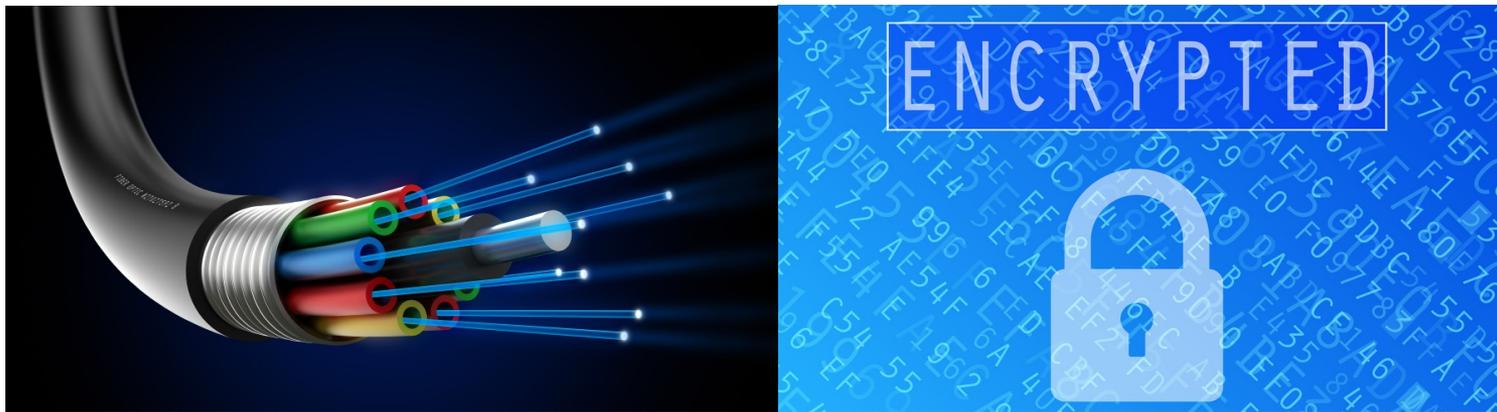
“We continue our ongoing efforts to encrypt all Google products and services.”

Google in *The Intercept*

Impact

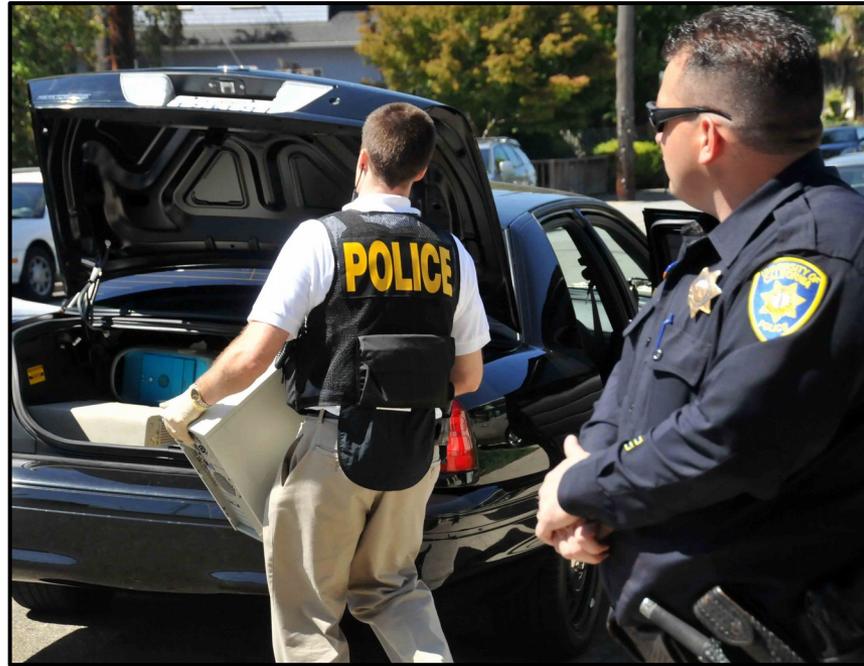
How does this change the surveillance ecosystem?

What does it all mean for Law Enforcement?



Seizing

Not effective anymore:



Is there a way around?

How does your suspect access the information?...



From the device...



Is there a way around?

You want to be on the device and see information when your suspect does.



But how can you do that?



REMOTE CONTROL SYSTEM

GALLILEO

THE HACKING SUITE FOR GOVERNMENTAL INTERCEPTION



RCS infrastructure

On the device.

Bypass encryption

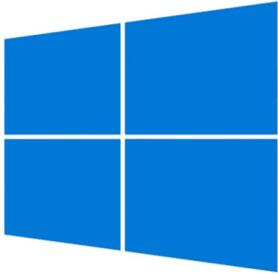
See what the suspect sees

Follow your suspect

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iOS



BlackBerry

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What will you see?

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Evidence

Remote Control System

Accounting **Operations** Intelligence Dashboard Alerting ¹ System Audit Monitor ²

All operations ▶ Swordfish ▶ Jimmy Page ▶ Evidence

Open Detail Show Summary Download Evidence Relevance Add Report Edit Note Show ID Filters Presets Reset filters Translation

Acquired	Received	Type	Info	Note	Agent
2015-05-18 12:57:55	2015-05-18 12:58:54	Camera			Laptop (1)
2015-05-18 12:57:57	2015-05-18 12:58:55	Addressbook	 Name: pangoeeye@mailcatch.com	Info:	Laptop (1)
2015-05-18 12:57:57	2015-05-18 12:58:55	Addressbook	 Name: scissor@mailcatch.com	Info:	Laptop (1)
2015-05-18 12:57:57	2015-05-18 12:58:55	Addressbook	 Name: Jimmy Page	Info:	Laptop (1)
2015-05-18 13:01:44	2015-05-18 13:02:46	Keylog	Content: secret123TP!	Program: TrueCrypt.exe Window: Enter password for C:\Users\ \RCS DemoDesktop\secret_op.tc	Laptop (1)
2015-05-18 13:09:45	2015-05-18 13:10:48	Chat	To: alejandro.reade jimmy.page  Program: SKYPE	Content: alejandro.reade: Here we are!	Laptop (1)
2015-05-28 13:09:52	2015-05-28 13:10:51	Call	Program: Skype Duration: 00:00:49 From: - To: alejandro.reade		Laptop (1)

Showing: 49/49

demo@demo disconnected Thu, May 28 14:18:08

Profiling

Remote Control System

Accounting Operations **Intelligence** Dashboard Alerting System Audit Monitor 3

All operations ▶ daVinci ▶ ★ John Doe

John Doe

Filter data from: to:



Born: 10/16/1962
Nationality: USA
Sex: Male
He is suspected to be a key figure of the terrorist cell.

Accounts:

- johndoe69
- johndoe@gmail.com
- johndoe
- johndoe@hotmail.com

Most Contacted:

jack.brown@gmail.com	34%
mary.smith@gmail.com	21%
unclatom	14%
bob75	12%
alice.white	12%

Last Positions Addresses Visited Places

Map Satellite Hybrid Terrain



Map data ©2012 Google, Sanborn - Terms of Use

- 850 bryant Street - San Francisco, CA
- 212 12th Street - San Francisco, CA
- 340 Harrison Street - San Francisco, CA
- 15 Bernice Street - San Francisco, CA

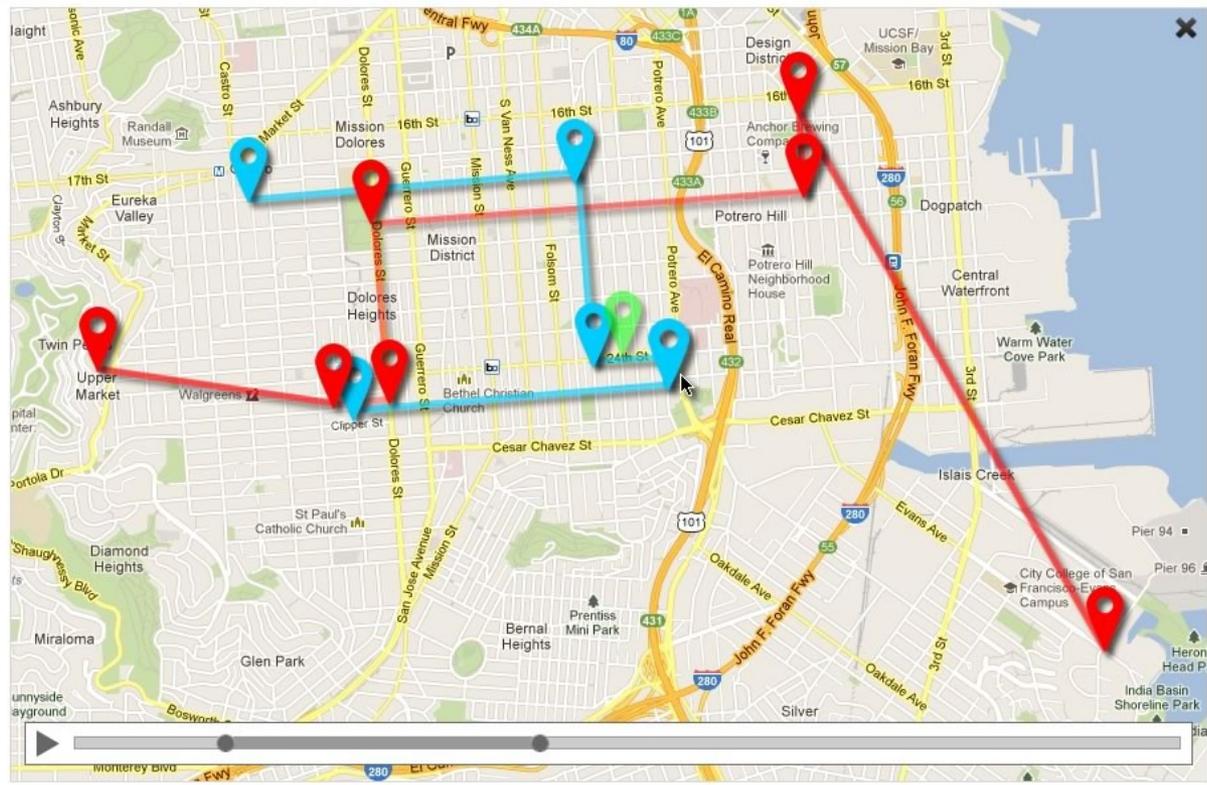
policeman@myserver connected Thu, Dec 20 10:07:48

Correlation

Remote Control System

Accounting Operations **Intelligence** Dashboard Alerting System Audit Monitor ³

All operations ▶ daVinci



Details

Target: John Doe
Address: 64, 25th Street

Latitude: 37.771008
Longitude: 122.41175

Filter by date:
from: 
to: 

policeman@myserver connected Thu, Dec 20 10:07:48

How can I deploy my agent?

When the target opens a document



Exploit Delivery Service

Always up to date

While the target browses the web





Send your target a SMS



QR Code



Web link

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Inject into downloaded **applications** Inject into **Web pages**



Invisible to antiviruses.

Prevent disclosure of your presence.

500+ tests every day.

There is much more.
Come see the live demo!

Today 15:00-16:00 Session A
**Intruding personal devices with Remote Control
System: Live Demo of latest attack and data
gathering techniques**

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Public Opinion

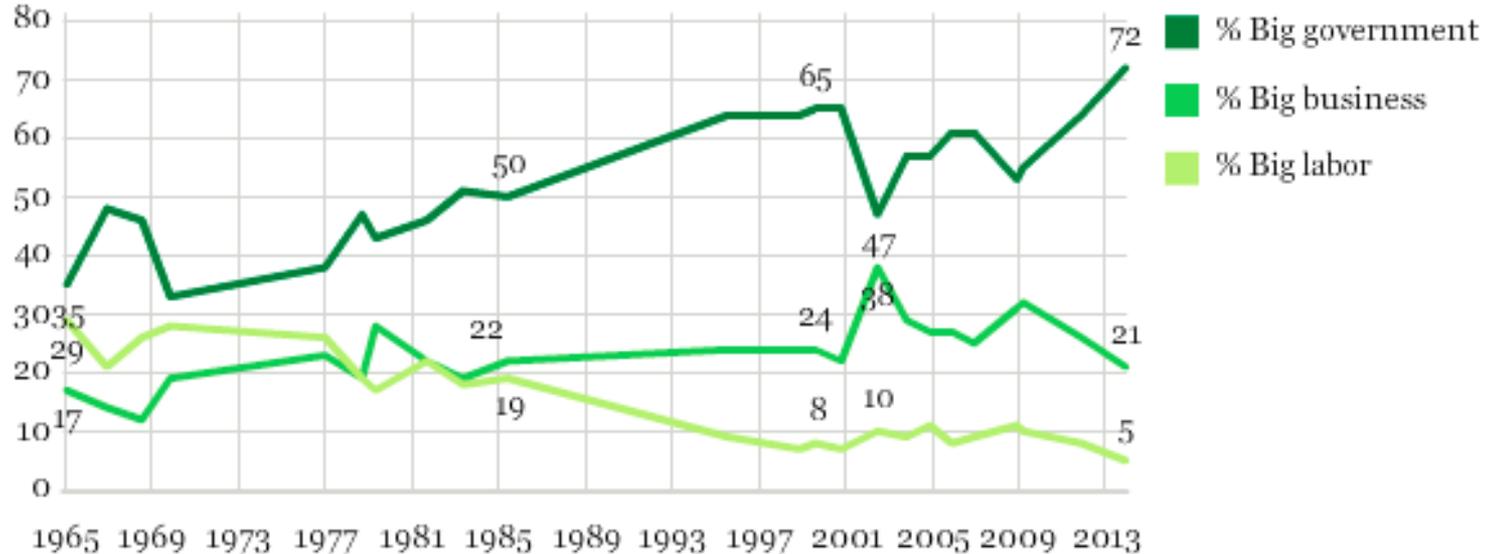
- **Pew Survey:** “... Struggle over privacy and tracking...will extend through the next decade.”
- **Post-Snowden:** 80% say government monitoring is a concern.



Big government, big worry

Views of Biggest Threat to U.S. in Future

In your opinion, which of the following will be the biggest threat to the country in the future -- big business, big labor, or big government?



GALLUP®

Activists

- **HackingTeam a Target:**
 - Citizen Lab
 - Human Rights Watch
 - Privacy International
 - Anonymous
 - Threats
- **States Around the World are Targets:**
 - Democracy advocates
 - Human Rights concerns



Wassenaar Arrangement

- Imposed by E.U.
Jan. 2015
- Strongest
regulation on
exports
- Likely to be
adopted by the
U.S.A. this year.



The Chilling Effect

- Increase **regulation...Restrictions on** use of **technology** to fight crime
- Advance of **technology** slowed or **stopped**
- Investigators of crime **go blind**
- **Safe refuge** for criminals online

What can Law Enforcement Do?

1. **Speak out** on the need for surveillance
2. Identify for the public the need for a **balance** between **privacy and security**
3. **Publicize** successful cases that rely on digital surveillance
4. Pledge to use offensive **surveillance only as allowed by law**
5. **Investigate with care**



Offensive Surveillance:

***Today's Changing, Challenging and Dangerous
World and Solutions for Law Enforcement***

Eric Rabe, HackingTeam
Chief Marketing &
Communications Officer