

Risk Assessment:

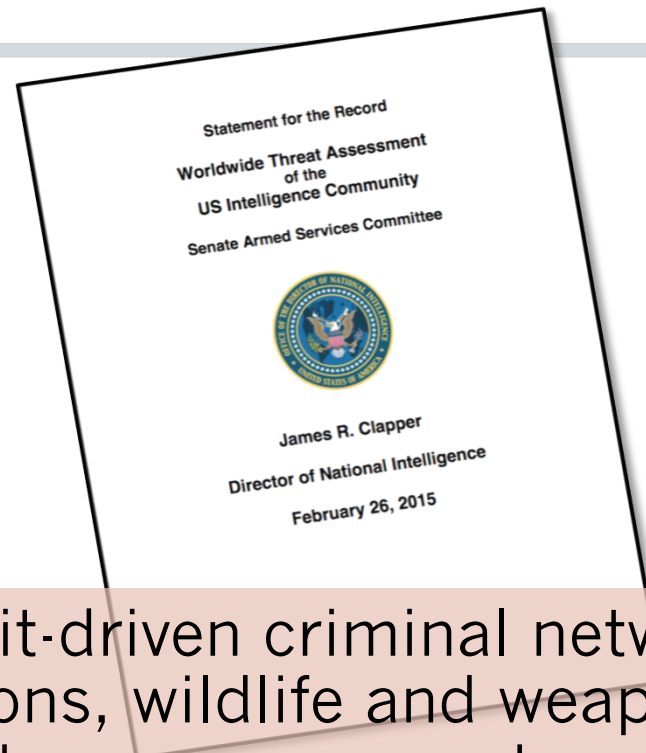
*IT Offensive Surveillance in Today's Changing,
Challenging and Dangerous World*

Eric Rabe,
Chief Marketing &
Communications Officer, HT

Kevin Mitnick... the first Internet crook?



Transnational Organized Crime Using Digital & Internet Technologies



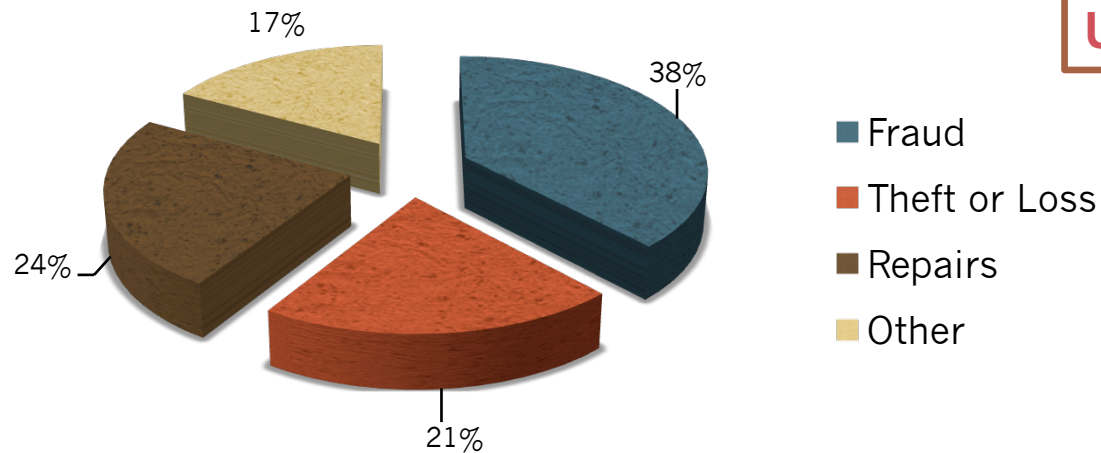
“Savvy, profit-driven criminal networks traffic in drugs, persons, wildlife and weapons, corrode security and governance, undermine legitimate economic activity and the rule of law; cost economies important revenues...”

Worldwide Threat Assessment, Feb. 26, 2015

Cost of Worldwide Cybercrime

Cost Worldwide: US\$113 Billion

% of Total Loss



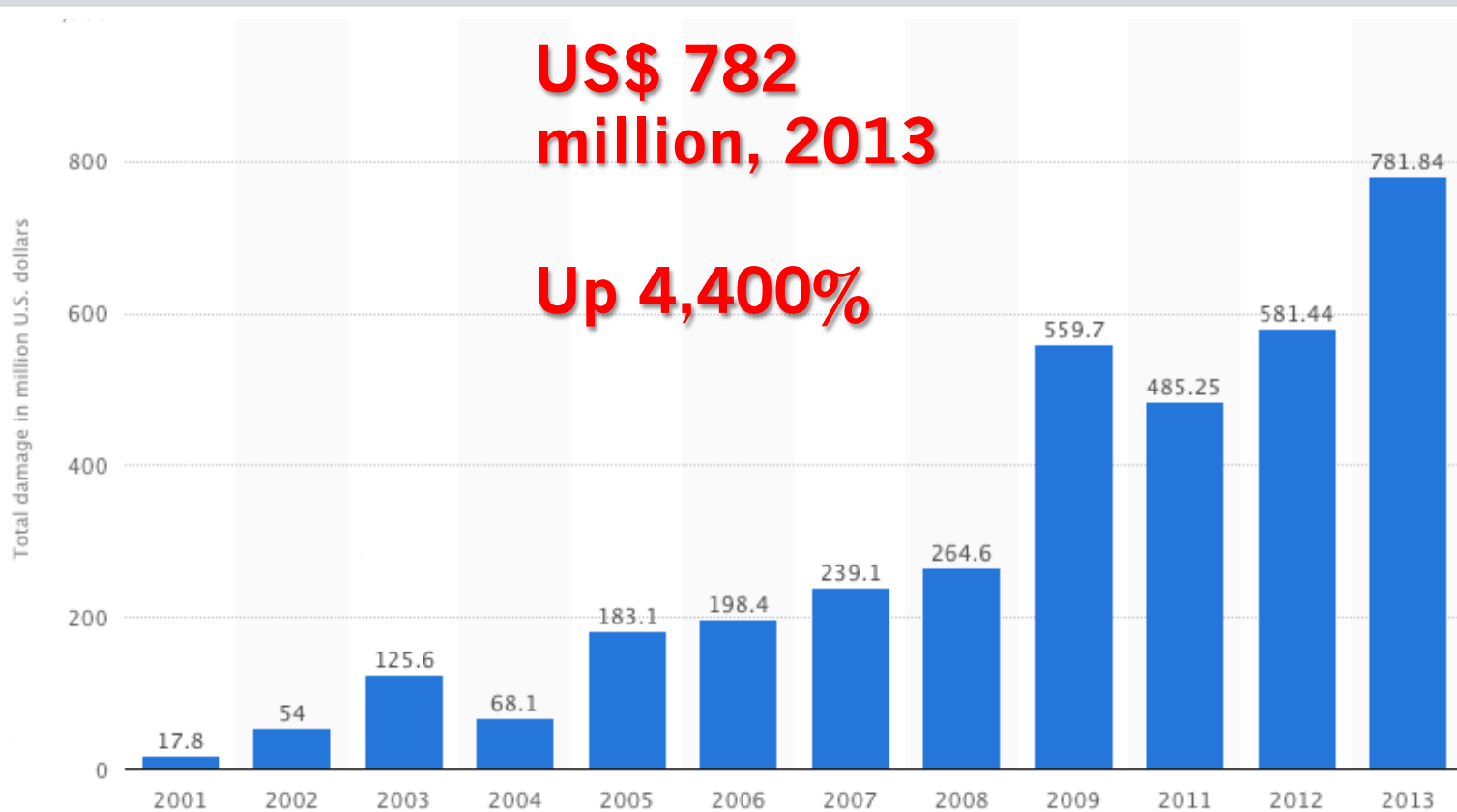
**Average annual
cost per victim:
US\$298**

2013, Infosec

Crime in the Digital Age

Cyber Crime

Monetary damage caused by cyber crime reported to the IC3 from 2001 to 2013



Internet Crime Complaint Center (IC3),
2014 report

Crime in the Digital Age

**Computer
Crime**

**Theft
from
Business**

**Old Crime,
New Tools**

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Anonymity Online

Protect your privacy. Defend yourself against network surveillance and traffic analysis.

[Download Tor](#)

- Tor prevents people from learning your location or browsing habits.
- Tor is for web browsers, instant messaging clients, and more.
- Tor is free and open source for Windows, Mac, Linux/Unix, and Android

What is Tor?

Tor is free software and an open network that helps you defend against traffic analysis, a form of network surveillance that threatens personal freedom and privacy, confidential business activities and relationships, and state security.

[Learn more about Tor »](#)

Why Anonymity Matters

Tor protects you by bouncing your communications around a distributed network of relays run by volunteers all around the world: it prevents somebody watching your Internet connection from learning what sites you visit, and it prevents the sites you visit from learning your physical location.

[Get involved with Tor »](#)

Our Projects



Tails

Live CD/USB operating system preconfigured to use Tor safely.



Orbot

Tor for Google Android devices.



Tor Browser

Tor Browser contains everything you need to safely browse the



Arm

Terminal (command line) application for monitoring and

Recent Blog Posts

[TorBirdy 0.1.4: Fifth Beta and B...](#)

Thu, 12 Mar 2015

Posted by: *sukhbir*

[Tor Weekly News — March 11th, 2015](#)

Wed, 11 Mar 2015

Posted by: *harmony*

[Tor 0.2.6.4-rc is released](#)

Tue, 10 Mar 2015

Posted by: *nickm*

[Tor Weekly News — March 4th, 2015](#)

Wed, 04 Mar 2015

Posted by: *karsten*

[Coming up in Tor 0.2.6...](#)

Tue, 03 Mar 2015

Posted by: *nickm*

[View all blog posts »](#)

Who Uses Tor?



Family & Friends

People like you and your family use Tor to protect themselves, their children, and their dignity while using the

Internet.



Businesses

Businesses use Tor to research competition, keep business strategies confidential, and facilitate internal

accountability.

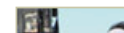


Activists

Activists use Tor to anonymously report abuses from danger zones.

Whistleblowers use Tor to safely report

on corruption.



Media

Silk Road's Ross Ulbricht



Convicted Feb. 2015
and awaiting sentencing

Crime in the Digital Age

**Computer
Crime**

**Online Theft
from
Business**

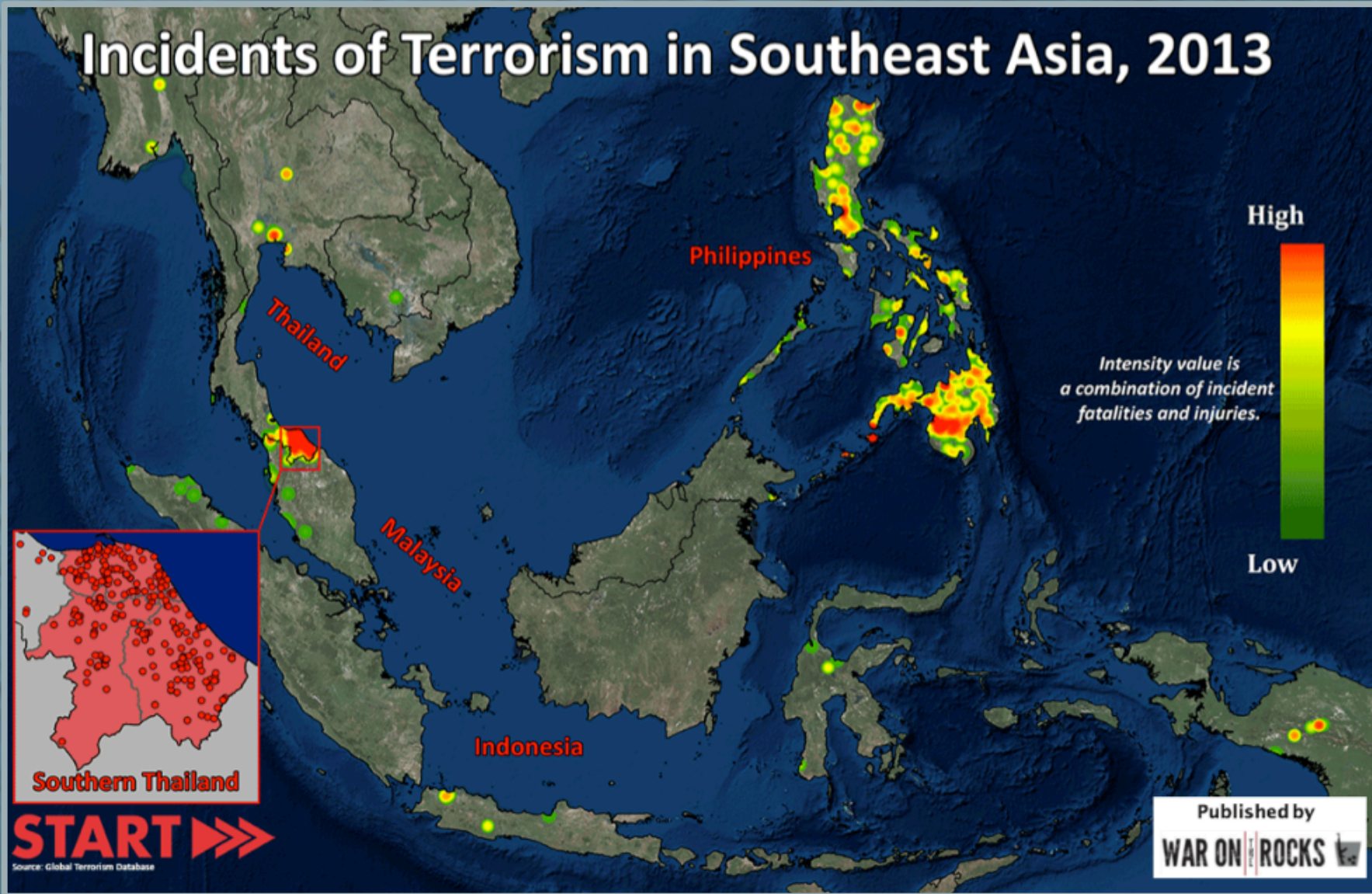
Terrorism

**Old Crime,
New Tools**

Mumbai Attacks



Incidents of Terrorism in Southeast Asia, 2013



Dangerous Developments

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

Evolution of Networks



]HackingTeam[

Rely on us.

REMOTE CONTROL SYSTEM

GALILEO

THE HACKING SUITE FOR GOVERNMENTAL INTERCEPTION

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

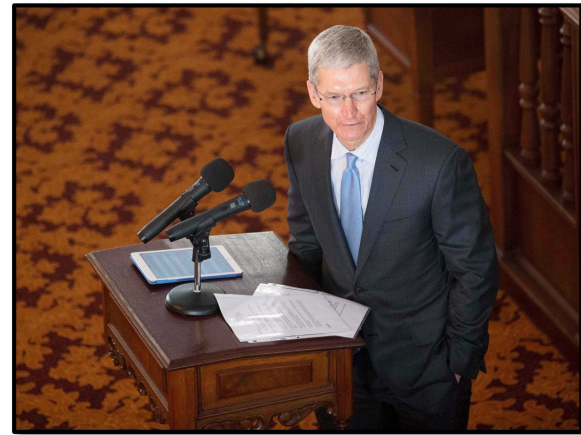
French PM Manuel Valls



“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*

Public Opinion

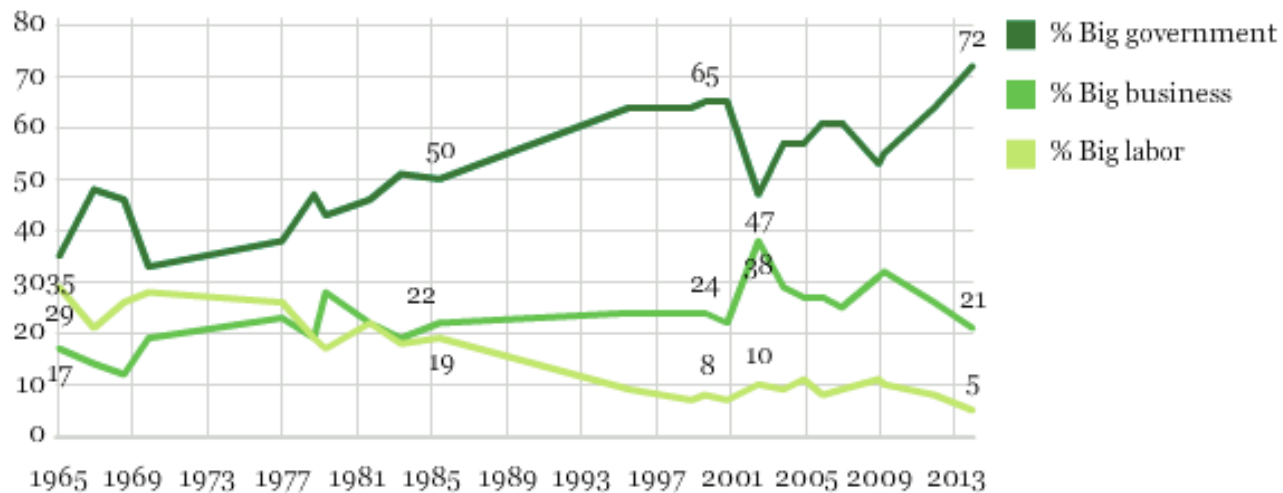
- **Pew Survey:** “...Struggle over privacy and tracking... will extend through the next decade.”
- **Post-Snowden:** 80% say government monitoring is a concern.



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



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**



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