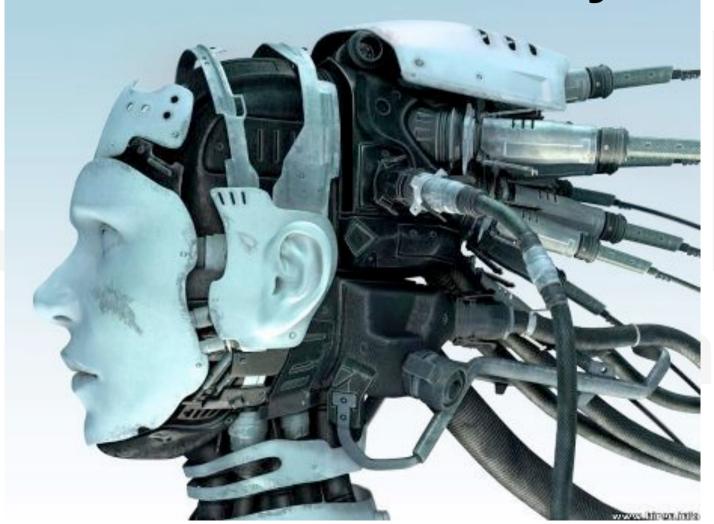
Roberto Preatoni



Modern Threats and Cyber War Lessons Learned? Maybe Not



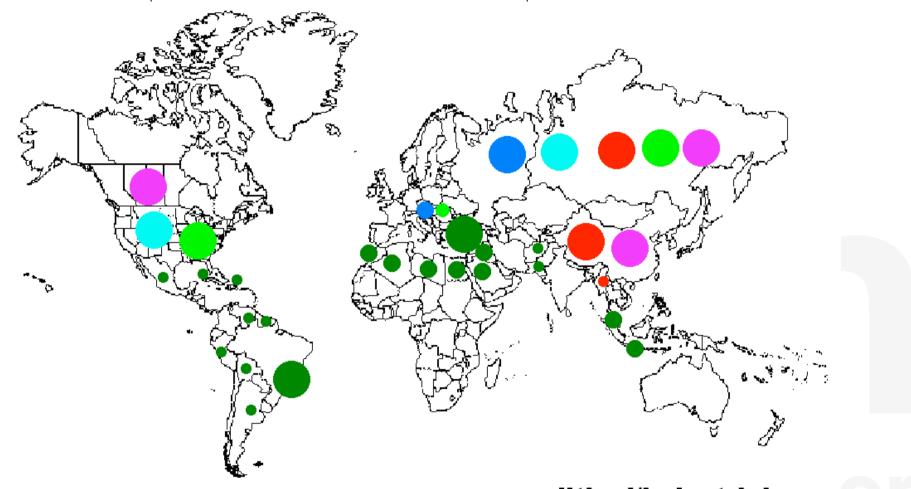


Am I a target? Is my company a target? Is my government a target? Are the countermeasures put in place causing me more harm than good?



World Cybercrime Map





- oarding
- **spamming**
- phishing

- political/industrial espionage
- Ddos/virus extortion
- Cyber Politics

NEW THREATS



OK, I KNOW'EM ALL, BUT...

WHAT'S NEXT?

ZONE-h unrestricted information Future conflicts dimensions **Technology** low high **Strong** High **Dirty war Systemic war** Power Cost **Mechanical war War and Peace ICT War** (asymmetric warfare) Weak Low

ELECTRONIC WARFARE



"It's the best strategy in an asymmetric conflict"

- Distributed attacks, high anonimity
- Possibility to use the same enemy's infrastructures
 - Low cost of technology implementation and R&D
- Wide range of critical infrastructures to be attacked
 - Possibility to carry out unconventional activities
- Direct contact with the enemy's command and control center at the highest ranks



INTERNET + ASYMMETRIC CONFLICT MEANS:



In the traditional wars to fight a country it takes a country In asymmetric Internet based conflicts, to fight a country it can take just a few or just one motivated and even not so much skilled hacker.

New Cyber Crime Fields



- Cyber Politics
- Cyber industrial and private espionage

the internet thermometer

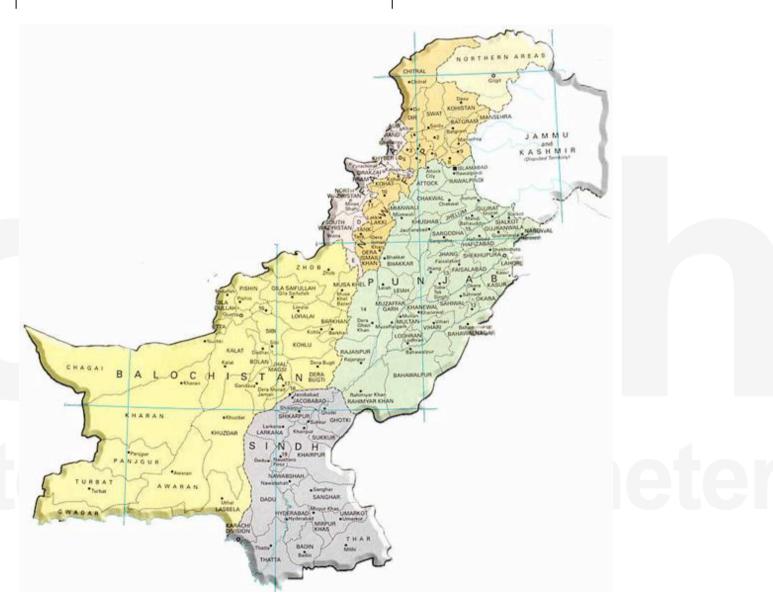
CYBER Politics



- 2001 Pakistan vs West
- 2002 USA vs China
- 2004 South America vs USA
- 2007 Arab countries vs Denmark
- 2007 Russia vs Estonia
- •2008 Russia vs Georgia

2001 Pakistan vs West





2002 United States vs China





the internet



2004 South America Vs United States



In year 2004, a large number of Brasilian hacker crews united their efforts with other South American hackers in launching hacking campaigns against USA in protest to the Bushist imperialistic regime.

For the first time ever, hackers from Chile, Venezuela and even Cuba, participated in a joint cyber-war against one of the major political player of the planet, gaining factual support even from Pakistani hackers.

2007 Arab countries vs Denmark



In year 2007 several hackers from Arab countries launched coordinated defacing and Ddos attacks against Nordic countries particularly against Denmark in protest to the publication of some cartoons portraying Prophet Mohamed.

The Danish economy suffered some losses and it took a couple of weeks to re-gain the normal Internet operability.

2007 Russia vs

Estonia





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Last Updated: Thursday, 17 May 2007, 14:52 GMT 15:52 UK





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The cyber raiders hitting Estonia

As Estonia appeals to its Nato and EU partners for help against cyber-attacks it links to Russia, the BBC News website's Patrick Jackson investigates who may be responsible.

Estonia, one of the most internet-savvy states in the European Union, has been under sustained attack from hackers since the ethnic Russian riots sparked in late April by its removal of a Soviet war memorial from Tallinn city centre.



2008 Russia vs Georgia



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The first modern cyberwar?

Russian attacks on Georgian websites are only a sideshow to the main conflict, but they highlight a major threat to the internet



Aaron Mannes and James Hendler guardian.co.uk, Friday 22 August 2008 19.00 BST Article history

The Russian-Georgian conflict is being described as the first time cyberattacks have accompanied an actual war. Last year, the Russian-Estonian spat was described as the first modern cyber-war. These descriptions over dramatise events and are a distraction from the more prosaic, but









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CYBER Espionage



- 2001 Pakistan vs India
- •2005 China vs EU (political)
- 2005 China vs Italy (industrial)
- 2006 Russia vs USA (militar)
- 2008 China vs rest of the world
- 2009 China vs USA (preemptive war?)

2001 Pakistan vs India





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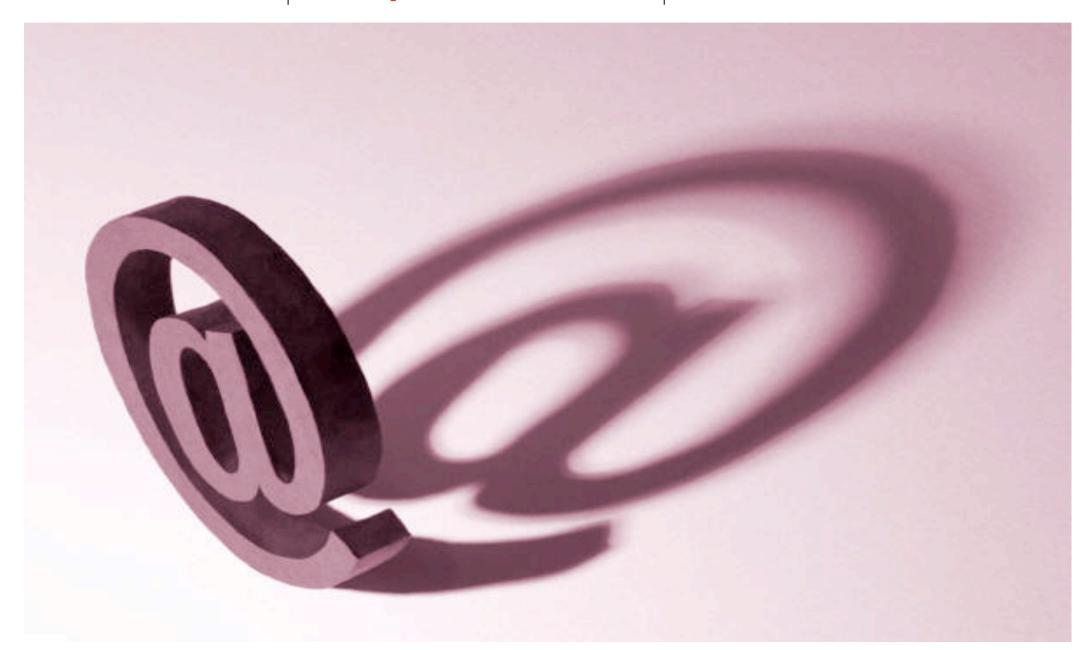


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Right to

2005 China vs European Union

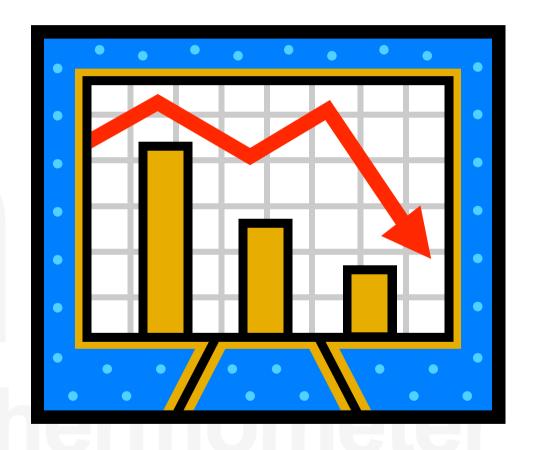




2005 China vs Italy



In year 2005 China launched an extensive cyber espionage campaign against Italian shoe factories and fashion houses causing a dramatic loss to the industry income.



2006 Russia vs USA

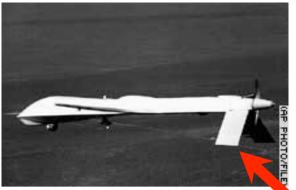


THE SECOND GULF WAR

"The difference between the first Gulf War and the second one is that in the second one the US troops enjoied 42 times the bandwidth than in the first one thanks to the US Command Centers uplinks in Qatar and Kuwait"

Lt.Col.Ernest "Rock" Marcone





·SPY DRONES



•STEALTH PLANES



•DEPLOYED SPIES



•SATELLITE IMAGINERY



•BLUE FORCE TRACKER







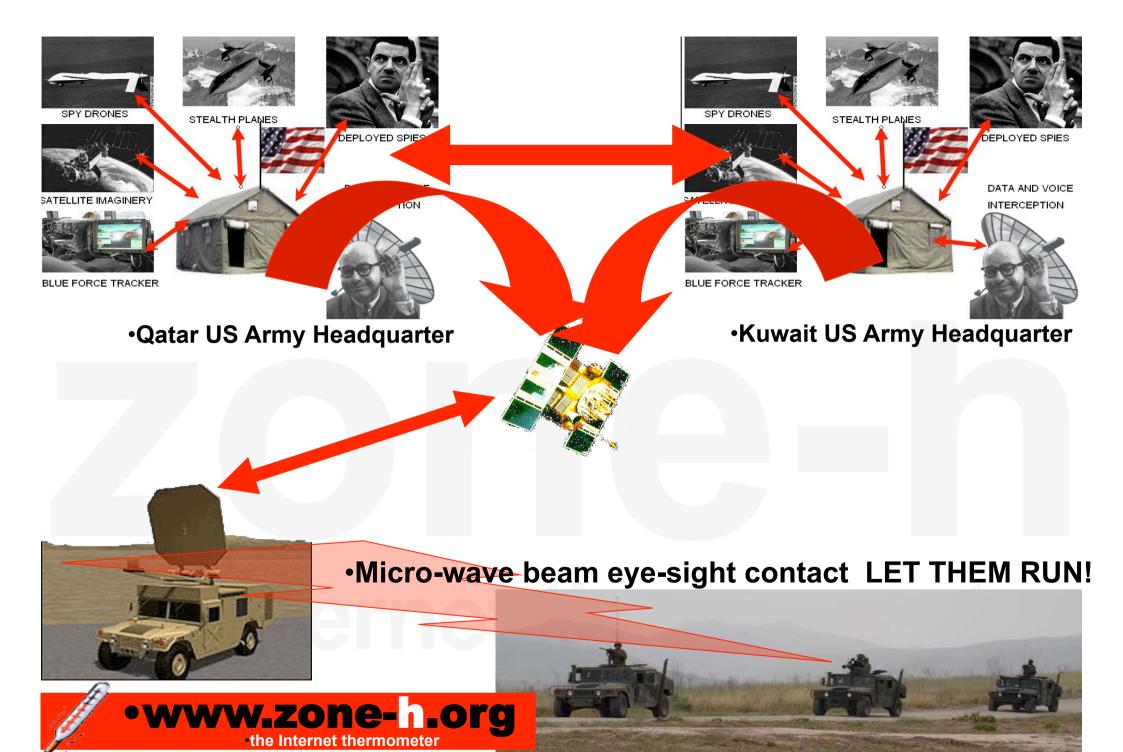
• www_zone-n_org
• the Internet thermometer



·WAS IT WORKING? 'Hell, NO!''

"We had to stop the Humvees to re-gain connectivity and the tactical downloads took even up to 12 hours ..."









- "The tactical systems were downloading nothing most of the time and when they were downloading they downloaded irrealistic data"
 - "The system was so slow in distributing the intelligence that we knew about the enemy presence only when it was in front of us and shooting"
 - (too much of intelligence = no intelligence)







•Customer: U.S. Army

Definitized Value: \$14.8B (*21.2B)

•Period of Performance:

May 2003 thru Dec 2011 (*2014)

•*Result of recent Program restructuring

FUTURE COMBAT SYSTEMS One Team-The Army/Defense/Industry



F.C.S. unmanned vehicles









Warfighter Information Network-Tactical (WIN-T)

•"The WIN-T network provides command, control, communications, computers, intelligence, surveillance and reconnaissance (C4ISR) support capabilities that are mobile, secure, survivable, seamless, and capable of supporting multimedia tactical information systems within the warfighters' battlespace."

•MOSAIC: Working with CECOM-RDEC, Rockwell Collins has developed IP, mobility and Quality of Service (QoS) networking capabilities as part of the MOSAIC program. MOSAIC is an ad hoc, self-routing network, with key elements being migrated into WIN-T,

FCS and JTRS/WNW.

•The Future Force





2008 China vs Rest of the world



In year 2008 most of the countries reportedly suffered from cyber-espionage attacks originating from within the Chinese territory.

Was it the demonstration that China was fearlessly attacking the rest of the world or just a convenient way to hide traditional western originated espionage activity behind Chinese proxies?

2009 China vs







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Security Strategy

CIA: Cyberattacks cut power to "multiple cities"

Info made public after weighing up pros and cons...

Tags: cia, cyberattack, evidence, attacks

By Tom Espiner

Published: 21 January 2008 14:53 GMT

The CIA has said a cyberattack caused a power blackout in multiple cities in a country outside the US. Security training body the Sans Institute reported the CIA's disclosure.



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Lessons not learned



- Germany (parliament law against security tools)
- France (Sarkozy doctrine)
- Italy (Pisanu decree)
- Sweden (The Pirate Bay case)
- All countries (blindness toward multi layered threats)
- All countries (blindness toward excessive data retention)

Germany



Before year 2007, Germany was the only country in the world which parliament was successfully communicating with the hacker community, seeking for advices and help on general IT law matters.

In Year 2007 the German parliament issued a law to ban the possession of penetration testing tools, even though the whole German hacker community tried to explain that it was a useless counter-measure against cybercrime

2008 France



In year 2008, the French prime minister Sarkozy started to lobby a law toward the European Parliament under which each citizen committing a cyber-crime or even downloading music was to be forcefully disconnected from the Internet for a long period of time.

The ISP should be entitled to enforce such law.

the internet thermometer

2006 Italy

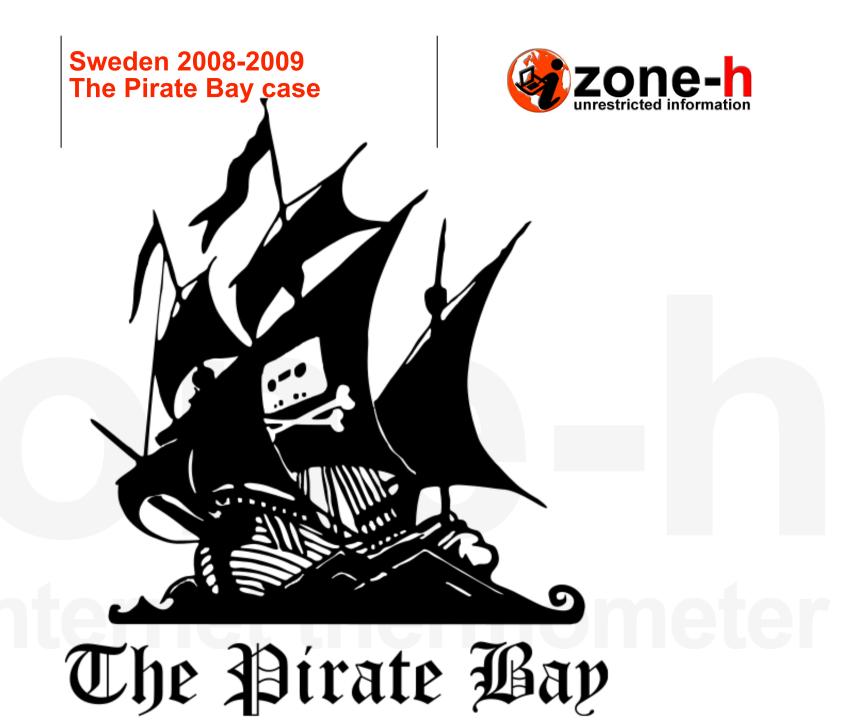


In year 2006, the Italian Ministry of Interior Pisanu issued an anti-terrorism decree under which, all the hot spot and wired Internet connections couldn't be granted to unidentified subjects.

This never helped in reality to fight against criminality but disrupted the communications and services throughout all the country's hotels and airports.









The music and movie industries are blaming file sharing as the reason behind a reduction of their incomes. The industry lobbied the Swedish authorities in seizing the equipment of the Pirate Bay torrent tracker, whose managers were found guilty in April 2009 after a controversial trial.







THE WRONG SOLUTION

Being INCAPABLE even to understand the file sharing phenomenon from its bare social, motivational and technical foundations, authorities are moving from the concept of punishing the wrongdoers to the concept of punishing those who provides "per se" legitimate technical solutions.

Under this point of view the ISPs, CERN, and all the search engines should be accounted as guilty

Modern threats to economy: file sharing





The Pirate Bay

http://torrents.thepiratebay.org/4856158/Iron_Man_%5BCz%5DDvDRip%5BbY_sOtY%5D.4856158.TPB.torrent



Iron.Man.DVD-SCREENER-LEAK.Divx [FN] (1646023) - Torrent Portal ...

9 Jan 2008 ... TorrentPortal only hosts .torrent files for Archive Purposes. All data gathered is done so by automated processes or users. ...

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Multi layered threats



WHAT ELSE?







http://www.eff.org/Privacy/printers/





3G PHONES







•rtsp://media-1.datamerica.com/defcon/dc-11/video/2003_Defcon_V29-Roberto_Preatoni-Future_Frontiers_of_Hacking-video.rm

Lesson learned?



Use proprietary software and hardware when possible. And when not possible, use at least well reviewed open sourced software

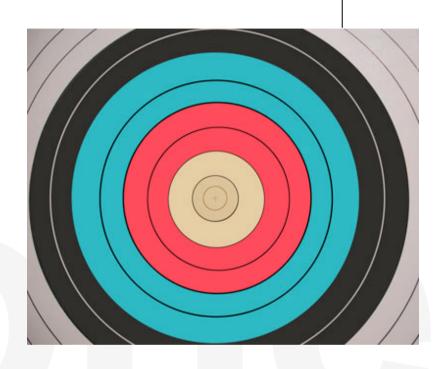
Lesson learned?



Excessive data retention causes more troubles than benefits.

There is a hidden danger from the social point of view as once adopted and enforced a data retentive policy, it'll take a revolution to take it down (remember the London airport case?)





ONCE AGAIN, AM I A TARGET OF CRIMINALS OR OF MY OWN GOVERNMENT?



Who were the best security aware managers in world's history?

















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