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Agenda

- Introductions
- The real conflict: terminologies
- Cyber Terrorism
 - Definition(s)
 - The confusion
- Cyber Terrorism: the yes and the no
 - Focus: funding (money and underground digital currencies)
- Cybercrime
 - Scenarios and Actors
- Cybercrime, Information Warfare and Cyber Terrorism: the links
- Attack scenarios
 - Finance (mass spear-phishing)
 - Mobile Operators (hacking, SS7/SIGTRAN)
 - Energy Plants (SCADA, ICS)
 - Air Control Systems (ADS-B,ACARS)
 - Railways (GSM-R)
 - Naval ships (AIS)
 - E-Health (hacking)
- The WEF
- Conclusions







The Speaker

- President, Founder, The Security Brokers
- Principal, CyberDefcon Ltd.
- Indipendent Special Senior Advisor on Cybercrime @ UNICRI (United Nations Interregional Crime & Justice Research Institute)
- Former PSG Member, ENISA (Permanent Stakeholders Group @ European Union Network & Information Security Agency)
- Founder, @ **CLUSIT** (Italian Information Security Association)
- Steering Committee, AIP/OPSI, Privacy & Security Observatory
- Board of Directors, **ISECOM**
- Board of Directors, **OWASP** Italian Chapter
- Cultural Attachè. Scientific Committee, APWG European Chapter
- Board Member, AIIC (Italian Association of Critical Infrastructures)
- Supporter at various security communities























European Network and Information













First of all

No common spelling...

"Cybersecurity, Cyber-security, Cyber Security?"

No common definitions...

Cybercrime is...?

No clear actors...

Cybercrime/wa/terrorism?

No common components?...



The conflict on terminologies /1

- Over the last days we've listened to different interpretations of «Cyber Terrorism».
- The phrase **«Cyber Terror**» appearead for the first time in the **mid-eighties**.
 - Barry C. Collin, a senior research fellow of the Institute for Security and Intelligence in California, defined Cyber Terror at that time as: the convergence of cybernetics and terrorism»: an elegant and simple definition.
 - It wasn't enough tough, to make clear distiction with terms like Cybercrime, Cyber Activism (Hacktivism) and Cyber Extremism.
- Back in 1997, Mark Pollit from the FBI defined Cyber Terrorism as: The premeditated, politically motivated attack against information, computer systems, computer programs, and data which result in violence against non-combatant targets by sub-national groups or clandestine agents (FBI, 1997).
- In **2004**, **FBI** redefined the term of Cyber Terrorism as (Lourdeau, 2004):
 - A criminal act perpetrated by the use of computers and telecommunications capabilities, resulting in violence, destruction and/or disruption of services, where the intended purpose is to create fear by causing confusion and uncertainty within a given population, with the goal of influencing a government or population to conform to a particular political, social or ideological agenda (FBI, 2004).



The conflict on terminologies /2

In 2002, the US Center for Strategic and International Studies defined Cyber Terrorism as:

The use of computer network tools to shut down critical national infrastructure (such as energy, transportation, government operations) or to coerce or intimidate a government or civilian population (Lewis, 2002).

■ The **UK Terrorism Act** goes further:

The use or threat of action designed to influence the government or an international governmental organisation or to intimidate the public, or a section of the public; made for the purposes of advancing a political, religious, racial or ideological cause.

It involves or causes:

- serious violence against a person;
- serious damage to a property;
- a threat to a person's life;
- a serious risk to the health and safety of the public; or
- serious interference with or disruption to an electronic system (UK Terrorism Act 2000).

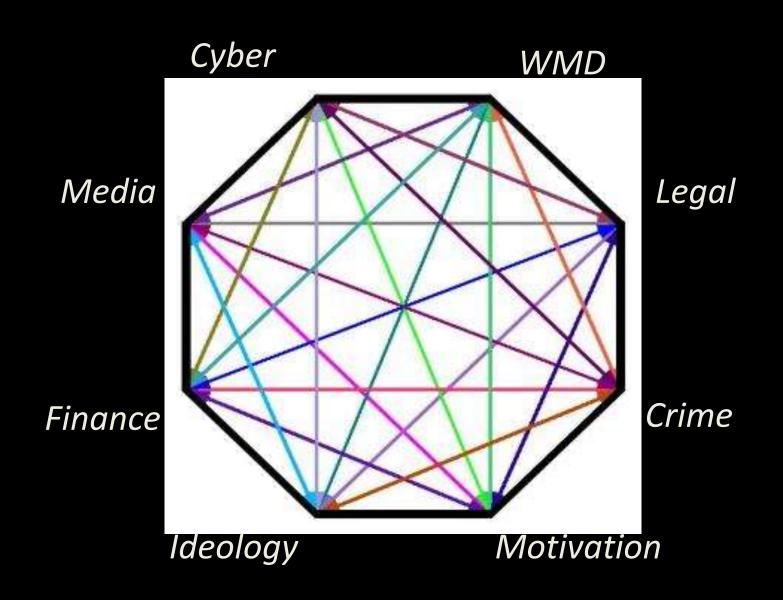


The conflict on terminologies /3

- No commonly agreed definition of terrorism (!)
- International Acts and treaties;
 - UN Resolutions 1368&1373
 - NAC decision dated 03 Oct 2001
 - EU Counter-Terrorism strategy
- Terrorist Organizations lists (even if... see later)
- International Law Authorities: Enough tools for combatting terrorism?
- Political will of all nations



Dimension of modern, global terrorism



Don't miss different perspexctives!

- Has a Cyberterrorism attack already happened?
 - NO (thanks God!)
- As of today, terrorist organizations make use of the Internet in order to:
 - Publicity/Advertising and Propaganda
 - Data Mining
 - Recruiting and Mobilization
 - Fundraising
 - Networking / Sharing Information
 - Training
 - Planning and Coordination
 - Claiming attack's responsability, showing «what they have been able to do»
- The point is that they may make much worse, if they would know how to make it.
 - We'll speak about this later.



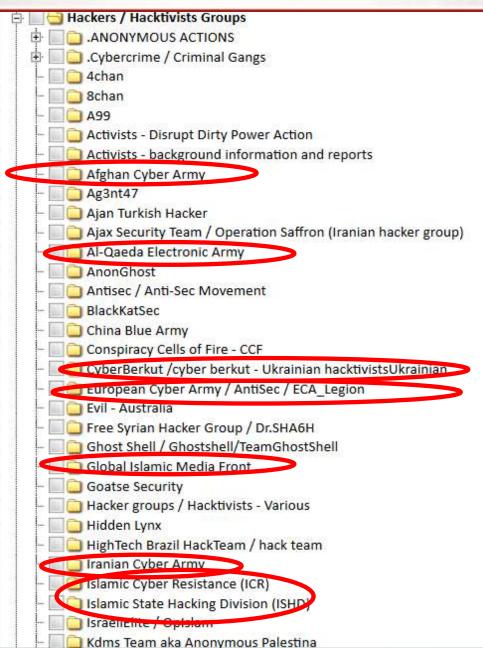
Making propaganda

	rrorism / Govt Intelligence (8)
T = =	. Specific Terrorist Groups (5)
	Abu Sayyaf
	Ajnad Misr/Soldiers of Egypt
	Ajnad al-Sham
	Al Qaeda/al-Qaida /Al Queda / AQIM/AQAP/AQSL
	Al-Murabitoon
	Al-Qassam / Al-Qassam
- 星	📄 Al-Shabaab / Al Shabaab / al-Shabab
	ansar Bayt al-Maqdis
-	a As-Sahab
- 星	🛅 Boko Haram
	Cyber Caliphate / CyberCaliphate
-	🗀 Hezbollah
	Discount
-	Houthi militants / Houthi group / Houthi rebel
L	IS /ISIS/Islamic State/ISIL/Takfiris/AQI/ Daish/ Daesh
L.	abhat al-Nusra
	al-Islam
	□ Jund al-Khilafa
	☐ Khorasan
	Specific Terrorist Groups - Various
	Tehreek-e-Taliban / Taliban
- W	Inspire / Azan / Dabiq Terrorist Magazines
1	. Terrorist / Govt Intel Alert
	Terrorist / Govt Intel Background reports and Info
	.Terrorist / Govt Intel News
	Green Dam
	Kvlin

Remaining subjects for your subscription	99
Global	100
Activated subjects	19
Remaining subjects for your subscription	81
Organization	10
Activated Search terms	C
Remaining search terms for your subscription	10

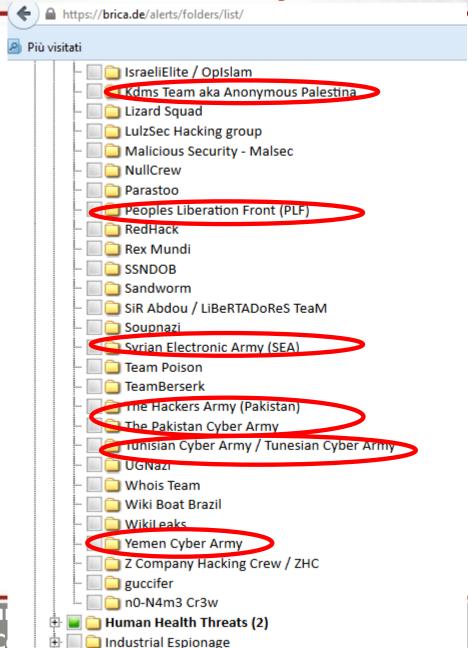


Hackers, Hacktivists = Cyber Terrorists?



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Hackers, Hacktivists = Cyber Terrorists?



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Funding: «Cyber Hawala?

You probably know about "HAWALA"

Hawala (also known as hundi) is an informal value transfer system based on the performance and honour of a huge network of money brokers





Learning from terrorism financial models

Many of electronic payment systems are following the HAWALA principle And built on the top of similar infrastructure

Now backed by digital inftastructure



No traces in banking network

Money disappear in one place, pop up in another



Lets look at some examples



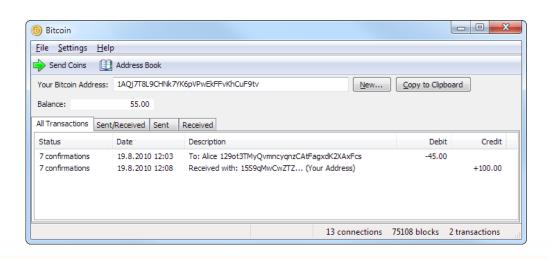


Digital currencies

* Don't think just about **bitcoins**!











Getting to know "Underground" money systems

- WMZ web money one wmz = one USD
- Drop money mule
- CC creditcards

- WMZ эквивалент USD WME – эквивалент EUR WMU – эквивалент UAH WMB – эквивалент BYR WMY – эквивалент UZS WMG – эквивалент 1GG
- Abuse resistant Safe to host any kind of fraudulent service
- Partnerka partnership program



There are many:

- Web Money (WMZ)
- Yandex Money
- LR (liberty reserve)
- Epassporte (dead!)

Where is webmoney office in Thailand?

Webmoney Gate Czech	Прага	Чехия
Webmoney в Брянске	Брянск	Россия
WebMoney Club	Орел	Россия
WmPerm.RU	Пермь	Россия
wmTrader.BIZ	OMCK	Россия
WMCashing	Санкт-Петербург	Россия
WebMoney центр в Великобритании	Нортхэмптон	Великобритания
oWMT.ru - Генеральный дилер Webmoney Transfer	OMCK	Россия
Webmoney.kg	Бишкек	Кыргызстан
WMT-Tula, сервис WebMoney в г. Тула	Тула	Россия
Moscow Transfer	Москва	Россия
WMZ.lv	Рига	Латвия
Webmoney Israel	Хадера	Израиль
WebMoney Exchange Point, Pattaya, Thailand	Патайя	Тайланд
Финансовый цен Ростовский обме	gangsters	are ;-)
Webmoney24	Санкт-Петербург	Россия
Обменный пункт Webmoney в Екатеринбурге	Екатеринбург	Россия
Е-money - электронные деньги в Кыргызстане	Бишкек	Кыргызстан



Credit card "dumps" websites, work only with "trusted" systems. Why?



AlertPay, SMS, LiqPay



They feature "awesome" geographical locations

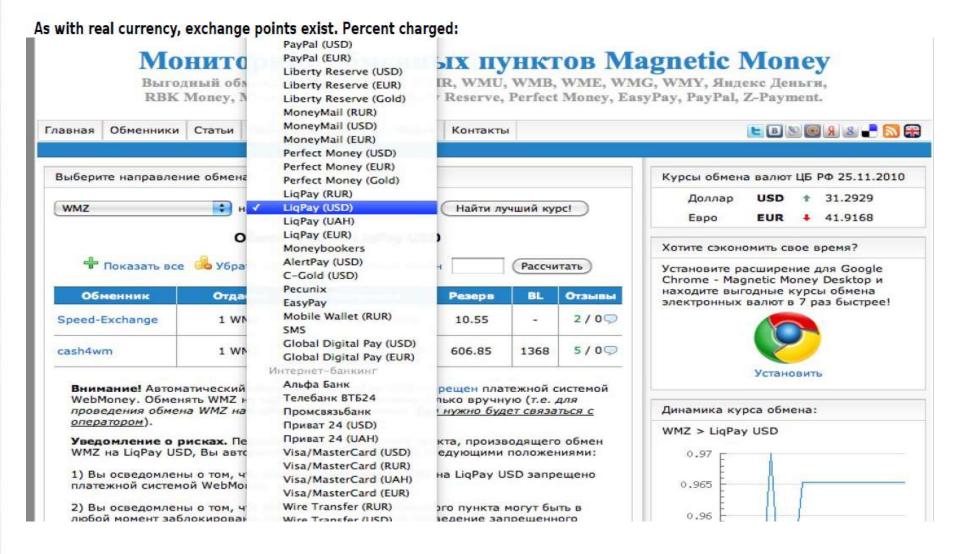
Liberty Reserve – largest payment processor and money transfer ...



www.libertyreserve.com/ - 頁庫存檔

Oldest, safest and most popular payment processor operating in Costa Rica and serving millions all around a world. Store your funds privately in gold, Euro or ...







The scenario(s) and the Actors



Crime -> Today

You got the **information**, you got the **power**..

Simply put, this happens because the "information" can be transformed at once into "something else":

- 1. Competitive advantage (geo/political, business, personal relationships)
- 2. Sensible/critical information (blackmailing, extorsion)
- 3. Money (Cash-out techniques, Black Market & Underground Economy)
- * ... that's why all of us we want to "be secure".
- * It's not by chance that it's named "IS": Information Security ©
 - * The **trend** of the «*cyber-prefix*» is from **very recent years**, tough.



Cybercrime

☐ Cybercrime:

"The use of IT tools and telecommunication networks in order to **commit crimes** in **different manners**".

The axiom of the whole model:

"acquiring different types of data (information), which can be transformed into an advantage."

☐ Key points:

- Virtual (pyramidal approach, anonimity, C&C, flexible and scalable, moving quickly and rebuilding fast, use of "cross" products and services in different scenarios and different business models)
- Transnational
- Multi-market (buyers)
- Differentiating products and services
- Low "entry-fee"
- **ROI** /Return of Investment (on each single operation, which means that, exponentially, it can be industrialized)
- Tax & (cyber) Law heaven



Why?

«Cybercrime ranks as one of the top four economic crimes»

PriceWaterhouseCoopers LLC Global Economic Crime Survey 2011 "2013 Cybercrime financial turnover apparently scored up more than Drugs dealing, Human Trafficking and Weapons Trafficking turnovers"

Various sources (UN, USDOJ, INTERPOL, 2013)

Financial Turnover, <u>estimation</u>: 12-18 BLN USD\$/year





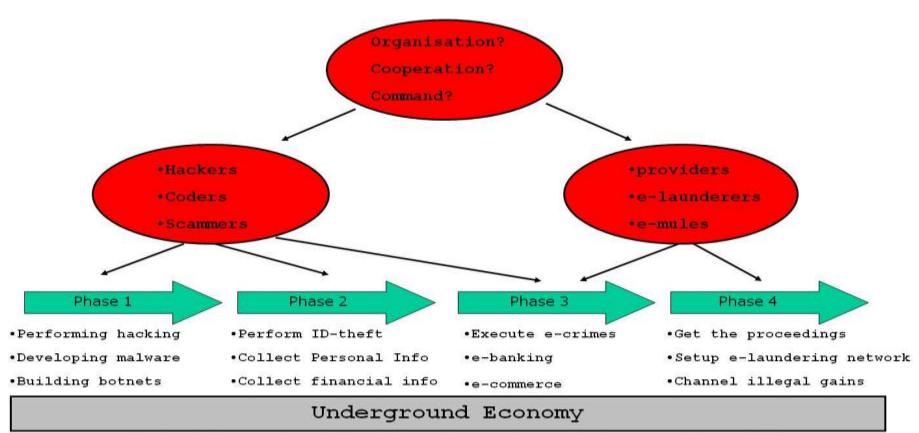


From Cybercrime to...

- We are speaking about an ecosystem which is very often underevaluated: most of times, Cybercrime is the starting or transit point towards different ecosystems:
 - Information Warfare
 - Black Ops
 - Cyber Espionage
 - Hacktivism
 - (private) Cyber Armies
 - Cyber Terrorism (?)
 - Underground Economy and Black Markets
 - Organized Crime
 - Carders
 - Botnet owners
 - Odays
 - Malware factories (APTs, code writing outsourcing)
 - Lonely wolves
 - "cyber"-Mercenaries



Cybercrime MO



· trade stolen goods, stolen information, malware, tools, expertise, skills





Profiling Actors



New Actors joined in

- Cybercrime and Information Warfare have a very wide spectrum of action and use intrusion techniques which are nowadays, somehow, available to a growing amount of Actors, which use them in order to accomplish different goals, with approaches and intensity which may deeply vary.
- * All of the above is launched against any kind of targets: Critical Infrastructures, Governative Systems, Military Systems, Private Companies of any kind, Banks, Medias, Interest Groups, Private Citizens....
 - Mational States
 - * IC / LEAs
 - * Organized Cybercrime
 - * Hacktivists
 - * Industrial Spies
 - **X** Terrorists
 - * Corporations
 - * Cyber Mercenaries

Everyone against everybody





Welcome to HPP!



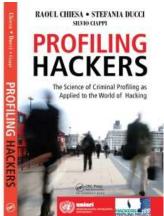


HPP V1.0

- * Back in **2004** we launched the Hacker's Profiling Project HPP:
 http://www.unicri.it/special topics/cyber threats/
- * Since that year:
 - * +1.200 questionnaires collected & analyzed
 - * 9 Hackers profiles emerged
 - * Two books (one in English)
 - * Profilo Hacker, Apogeo, 2007
 - * Profiling Hackers: the Science of Criminal Profiling as Applied to the World of Hacking, Taylor&Francis Group, CRC Press (2009)



building peace



advancing security, serving justice.





	OFFENDER ID	LONE / GROUP HACKER	TARGET	MOTIVATIONS / PURPOSES
Wanna Be Lamer	9-16 years "I would like to be a hacker, but I can't"	GROUP	End-User	For fashion, It's "cool" => to boast and brag
Script Kiddie	10-18 years The script boy	GROUP: but they act alone	SME / Specific security flaws	To give vent of their anger / attract mass-media attention
Cracker	17-30 years The destructor, burned ground	LONE	Business company	To demonstrate their power / attract mass-media attention
Ethical Hacker	15-50 years The "ethical" hacker's world	LONE / GROUP (only for fun)	Vendor / Technology	For curiosity (to learn) and altruistic purposes
Quiet, Paranoid, Skilled Hacker	16-40 years The very specialized and paranoid attacker	LONE	On necessity	For curiosity (to learn) => egoistic purposes
Syber-Warrior	18-50 years The soldier, hacking for money	LONE	"Symbol" business company / End-User	For profit
Industrial Spy	22-45 years Industrial espionage	LONE	Business company / Corporation	For profit
Government Agent	25-45 years CIA, Mossad, FBI, etc.	LONE / GROUP	Government / Suspected Terrorist/ Strategic company/ Individual	Espionage/ Counter-espionage Vulnerability test Activity-monitoring
Military Hacker	25-45 years	LONE / GROUP	Government / Strategic company	Monitoring / controlling / crashing systems

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Money, Fame, Politics,

Hesoteric request (i.e.,

hack "Thuraya" for us)

Activity-monitoring

Religion, etc...

Big money

Intelligence?

For profit

Wireless Networks, Internet

Café, neighborhood, etc..

Companies, associations,

Competitors (Telecom

Italia Affair), end-users

"Symbols": from Dali Lama

to UN, passing through

CNIs and business

Business company /

Strategic company/

Government / Strategic

Government / Suspected

companies

Corporation

Terrorist/

Individual

company

High-level targets

whatever

PROFILE	MAY BE LINKED TO	WILL CHANGE ITS	TARGET	advancing security, serving justice, building peace (NEW) MOTIVATIONS
				unicri advancing security serving justice

				advancing security, serving justice, building peace
PROFILE	MAY BE LINKED TO	WILL CHANGE ITS BEHAVIOR?	TARGET	(NEW) MOTIVATIONS & PURPOSES

No

No

Yes

Yes

Yes

Yes

Probably

Probably

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Probably

Urban hacks

Phishing

Black ops

Black ops

Black ops

CNIs attacks

Gov. attacks

Spam

Wanna Be Lamer

Script Kiddie

Ethical Hacker

Cyber-Warrior

Industrial Spy

Government Agent

Military Hacker

Quiet, Paranoid, Skilled

Cracker

Hacker

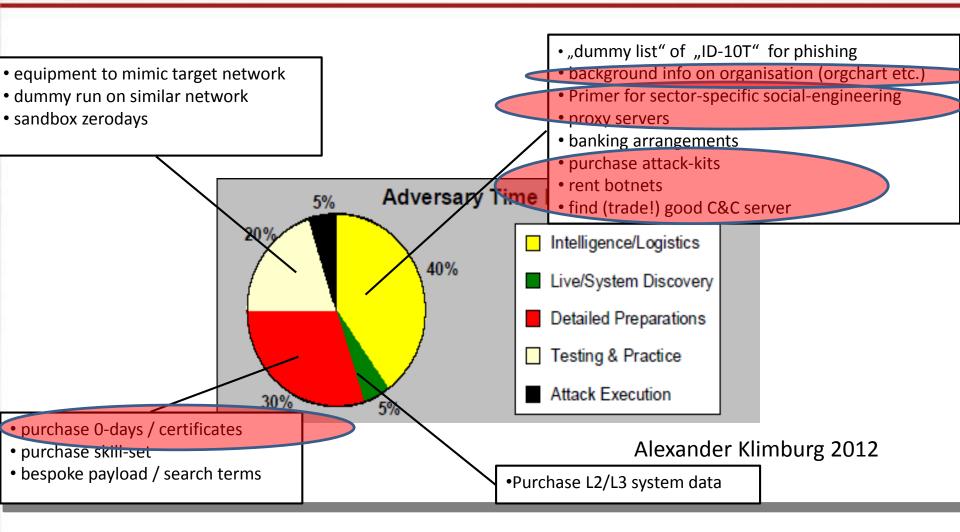
HPP V2.0: what happened?

- **★** VERY **simple**:
- * Lack of funding: for phases 3&4 we need support!
 - * HW, SW, Analysts, Translators
- * We started back in **2004**: «romantic hackers», + we foreseen those «new» actors tough: **.GOV**, **.MIL**, **Intelligence.**
- * We missed out:
 - * Hacktivism (!);
 - * Cybercriminals out of the «hobbystic» approach;
 - × OC;
 - \times The financial aspects (Follow the Money!!);
 - * Cyberterrorists (do they really exist?)





Making "Cyber War"...





«Attack attribution»

"The greatest challenge is finding out who is actually launching the attack".

Major General Keith B. Alexander, Commander US CYBERCOM / NSA, testimony May 8th 2009, "Cyberspace as a Warfighting Domain" – US Congress

"Attribution is not really an issue". Senior DoD official, 2012 Aspen Strategy Group

Attribution:

- √ tactical level = irrelevant
- √ operational level = helpful
- √ strategic level = important
- √ political (board) level = critical



Source: Alexander Klimburg, 2012



Mistyping may lead to (very) different scenarios...

Non-state proxies and "inadvertent Cyberwar":

"During a time of international crisis, a [presumed non-state CNE] proxy network of country A is used to wage a "serious (malicious destruction) cyber-attack" against country B."

How does country B know if:

- a) The attack is conducted with consent of Country A (**Cyberwar**)
- b) The attack is conducted by the proxy network itself without consent of Country A (Cyberterrorism)
- c) The attack is conducted by a Country C who has hijacked the proxy network? (False Flag Cyberwar)

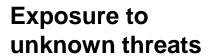
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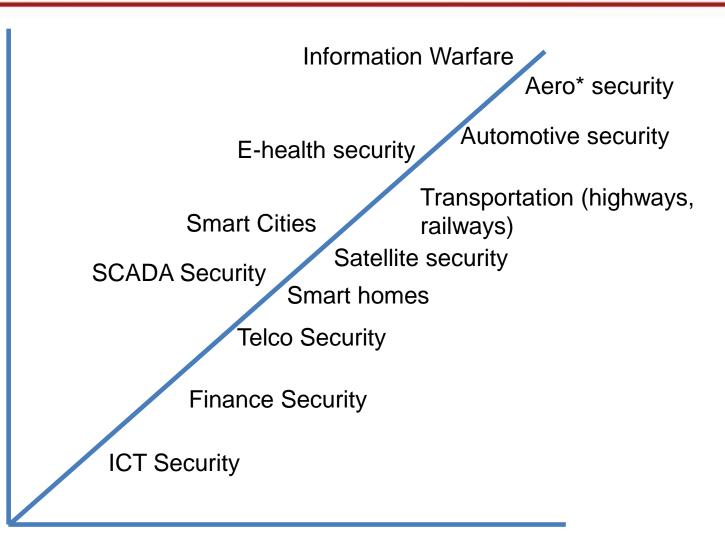


What if....



Ther enario





Punctual context



IT and ICT attacks... (currently available!)

... WHICH COULD BE USED BY TERRORIST ORGANIZATIONS

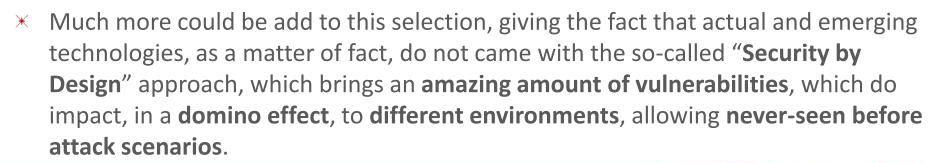
- * Giving all what we said, it's definitely clear and easy to understand how much IT and ICT based attacks may impact on a Nation State.
- During our research studies we encountered many different, concrete evidences of already-existing knowledge, developed by Security Researchers and Ethical Hackers.
- * As you have seen during my presentation, we have decided **not to focus** yet on those extremely technical details, while instead providing a first, **big picture** and general view on the **Cyber Terrorism topic**.
- Nevertheless, we want to point out some of those apparently niche knowledge we have scouted, studied and analyzed, thus applying them to a possible, global attack on a target country, which terrorists may already carry on now, since the needed information are, more or less, publicly available.



What's at stake?

Among all of our findings and **theoretical attack scenarios**, we focused on the following ones:

- **X** SCADA and Industrial Automation.
- Finance Sector: ATMs
- * Transportation, Avionics: ADS-B and ACARS
- * Transportation, Marine: AIS.
- **X** Transportation, Automotive.
- * Transportation, Highways, Railways.
- * Public Safety: IP-based CCTVs.
- Personal Privacy: Smart TVs.









Aircraft Security

- * The (ethical) hacking community discovered this long time ago
 - * Hugo Teso (DE) we'll see on next slides
 - * Renderman (CA)
 - * Ruben Santamarta (ES)
 - ★ Myself (IT)
 - * More security researchers







Hackers + Airplanes

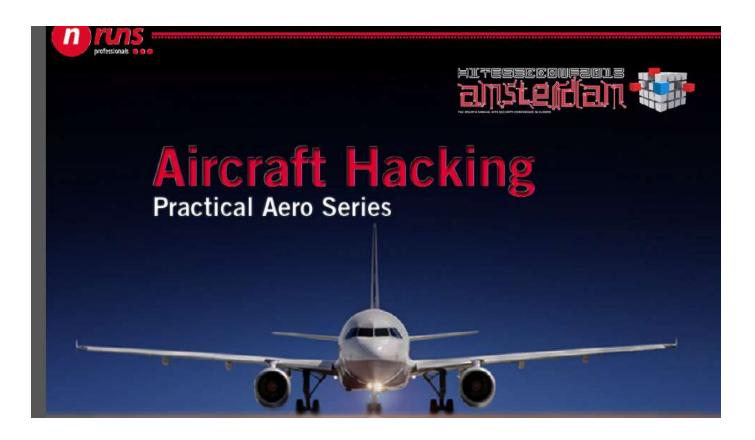
No Good Can Come Of This

Confidence 2012 Brad "RenderMan" Haines, CISSP www.renderlab.net render@renderlab.net Twitter: @IhackedWhat





 Back in 2013, I was attending a presentation at Hack in the Box in Amsterdam by Hugo Teso









ADS-B 101

- Automatic Dependent Surveillance-Broadcast
- → Radar substitute
- Position, velocity, identification, and other ATC/ATM-related information.
- → ADS-B has a data rate of 1 Mbit/sec.
- Used for locating and plotting targets



WHEN A FACEPALM IS NOT ENOUGH

ADS-B Security

- > None at all
- Attacks range from passive attacks (eavesdropping) to active attacks (message jamming, replaying, injection).
- → Target selection
 - » Public Data
 - » Local data (SDR*)
 - » Virtual Aircrafts

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* Software Defined Radio

ACARS 101

- Aircraft Communications
 Addressing and Reporting System
- Digital datalink for transmissions of messages between aircraft and ground stations
- → Multiple data can be sent from the ground to the A/C *
- + Used for passive "OS fingerprinting" and plotting targets

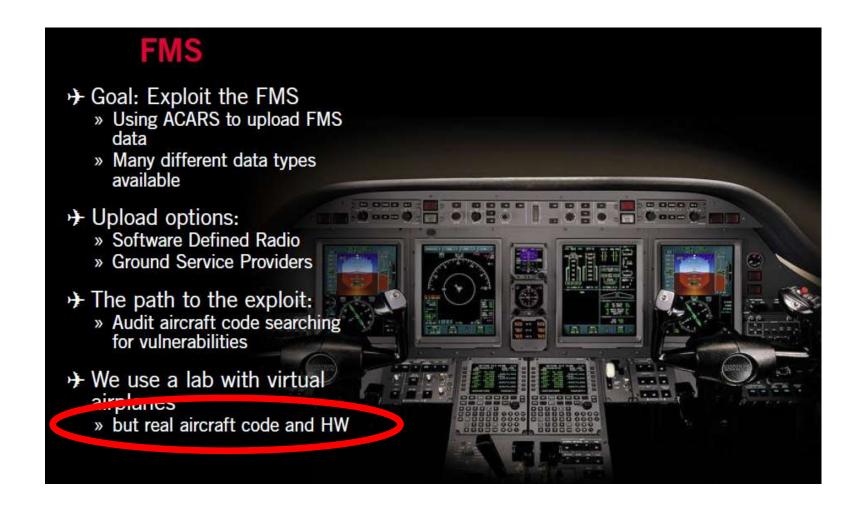
ACARS Security

- > None at all
 - » sometimes monoalphabetic ciphers
- Detailed flight and Aircraft information
 - » Public DB
 - » Local data (SDR)
 - » Virtual Aircrafts
- → Ground Service Providers
 - » Two main players
 - » Worldwide coverage

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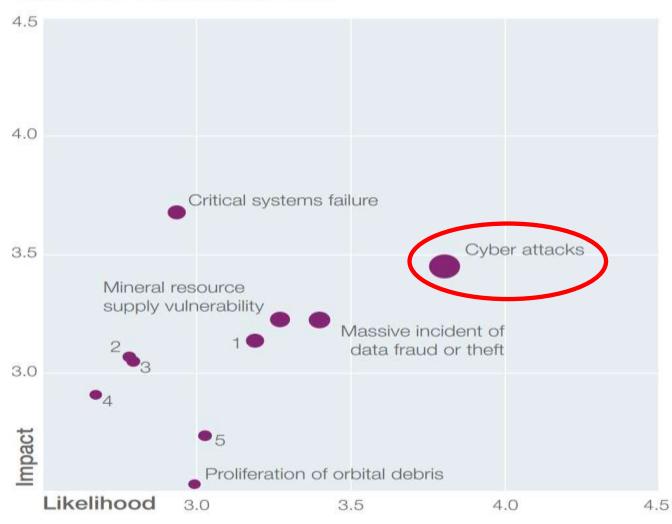






World Economic Forum







World Economic Forum

Figure 17: The Dark Side of Connectivity Constellation



Source: World Economic Forum

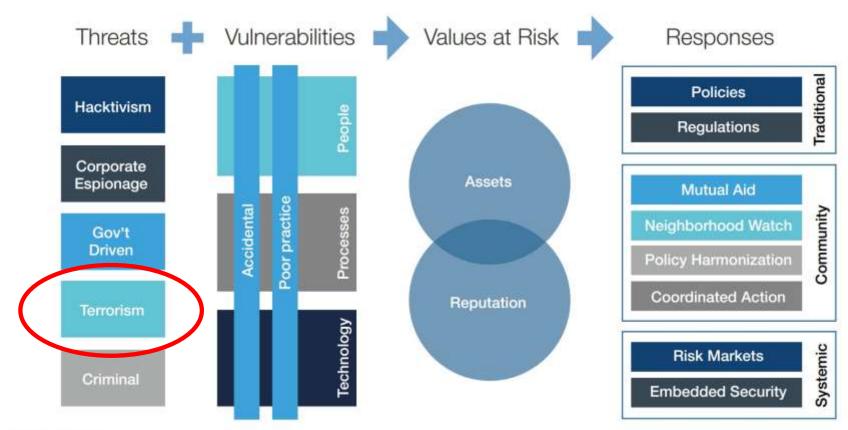
effective interference and disrupt commerce.

undermined.



World Economic Forum

Figure 41: Framework for Cyber Threats and Responses



Source: World Economic Forum



Hackmageddon

- * We think it is clear enough how the industry, manufacturers and system integrators, as well as Governments and Policy Makers, must immediately take actions in order to avoid that different, unconventional and unexpected scenarios became a reality.
- * Giving all the above, we may draw a final, **overall scenario**, on which the following attacks may be carried out by single or multiple **terrorist organizations**, acting both individually or in a **coordinated and concerted attack plan**.



- * 6AM, Monday: massive fire in the national oil and gas platforms all over the Country X coast. The incident is suspected to be the result of malfunction in the control systems of platforms.
- * 8AM, Monday: the late rescue operations suffer from big chaos and lack of coordination, as a result of unexpected breakdowns in the communication networks belonging to the security forces and civil defense.
- * 8PM, Monday: hot news appears on the prime time news at national and international TV channels. The collision of two air planes over the international airport at Country X capital looks like the result of a sophisticated Air Traffic Control cyberattack launched against the communications between the two involved planes and the flight control tower of the airport itself. The initial reports were speaking about an "unknown jamming source" on the radar and navigation systems of the international airport.



- * On Tuesday morning, all ATM machines are out of service in various areas of the country, due the to collapse of the internal networks and the main servers of Country X banks. Cybersecurity experts say that the ATMs were infected with a tailored worm, which disabled all of ATM's functionalities.
- * Later in the afternoon, random ATMs were reported to throw out cash, in the form of 10, 20, 50 and 100 Country X local currency (bills). Riots were reported in different areas of the involved cities, as well as urban guerrillas between Law Enforcement Officers and citizens.
- * On Tuesday afternoon, all of CCTV cameras installed in the capital city went out of order: Law Enforcement Agencies cannot monitor anymore the situation in the streets and public safety is at risk.



- * On Tuesday night, the navigation control infrastructure for ships ran by the Navy Control Authority reported multiple problems, ranging from ships suddenly disappearing from the radars to hi-jacked position of known ships, and unknown ships popping up on the radars themselves. Civilian and Military naval control systems literally went blind and can't be considered reliable anymore.
- * On Wednesday, cut off of all communications means in the country, especially the cellular and fixed telephone networks; the news are confirmed, Country X is under a massive, violent cyberattack, for which the terrorist organization "ABC" claimed to be responsible, and the cyber group "Souls of Allah" the executors. All of the vital sectors of Country X can't be considered reliable, and citizens are asked to not leave their homes. Schools and Universities, as well as Public Offices, have been closed for security reasons.
- * On Thursday, multiple citizens suffered apparently poisoning from public water and needed urgent medical help. The hospital of main cities of Country X reported more than 3000 injured people. Security experts reported SCADA attacks to the Water Systems of five different cities.



- * **7PM, Saturday**: the whole country is without electrical energy. Massive and distributed cyberattacks to the National Electric Grid have been reported. The national energy company can't grant anymore the delivery of electricity for most than 75% of the whole country; electricity power groups and UPS systems will end their self-power capacity by 3 to 6 hours.
- * **5AM, Sunday**: more than 30.000 soldiers from the terrorist group "ABC" invaded Country X. Disorders, murders, violence and rapes are reported in all of the main cities and small towns of the country. The Prime Minister has been assassinated and the Parliament has been assaulted; right now the military forces are fighting battles with the terrorist troops in many district of the capital; robberies rise up and the situation is close to a state of Civil War. National security is not granted anymore and the overall stability of Country X is at risk. Citizens are escaping from the country, crossing borders by all possible means and entering in Country B and Country C as "war refugees".



Conclusions

- Everything has changed. We are sitting on a fully unstable chair. This field of research is totally new to everyone. Too much stuff is just too much underevaluated here.
- The technologies and environments we are speaking about, which automatically lead to different types of combined, asymmetric
 Cyber Attacks, if designed and weaponized into a single, distributed attack framework, would cause significant impacts, disruptions and public panic in a given target country.
- What we are speaking about it's not Hollywood, while definitely it could lead to 1982 Wargames movie and that famous «Global Termo Nuclear War»
- Critical Infrastructures play a critical role here.
- Ask for technical solutions from the Security Industry, be compliant with security standards and regulations, but don't forget both taking from and giving back to the security communities.



Contacts, Q&A

- * Need anything, got doubts, wanna ask me smth?
 - * rc [at] security-brokers [dot] com
 - * Pub key: http://www.security-brokers.com/keys/rc pub.asc

Thanks for your attention!

QUESTIONS?



