Privacy in Play

Mingo Olmos, CSO *ackcent*
Mobile World Center, MWC 2017
Feb 28th 2017

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Autoritat Catalana de Protecció de Dades

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Casino Rama CYBERATTACK prompts $50M class-action lawsuit

Casino became aware of security breach on Nov. 4 2016; stolen information dates back to 2014

PlayStation and Xbox forums hacked exposing 2.5 million gamers' personal details

Millions of gamers' personal details have been shared publicly online

NBA 2K's Face-Scanning feature complies with law

With the growth of digital avatars and face-scanning technology, many tech companies have been hit with suits challenging privacy protections

Where hackers take their money
# Casinos, Cryptocurrency, and Virtual Worlds

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cyber security top 5 myths

movies
big ones
motivation
technical issue
not me

FACT **OR** MYTH?

CPE1704TKS

CANAL+ FILM HD

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ATTACK ORIGINS

#	COUNTRY
65	United States
62	China
7	Ukraine
6	Netherlands
5	Spain
4	South Korea
3	Colombia
2	Romania
2	Moldova

ATTACK TYPES

#	PORT	SERVICE TYPE
48	25	smtp
37	23	telnet
25	8080	http-alt
16	5900	rfb
10	3389	ms-wbt-server
6	50864	xsan-filesystem
5	3306	mysql
2	21027	unknown
2	445	microsoft-ds

ATTACK TARGETS

#	COUNTRY
93	United States
32	United Arab Emirat...
20	Spain
12	Italy
5	Singapore
1	Saudi Arabia
1	Portugal
1	Belgium

LIVE ATTACKS

TIMESTAMP	ATTACKER	ATTACKER IP	ATTACKER GEO	TARGET GEO	ATTACK TYPE	PORT
22:43:52.855	China Unicom Chongqing Province Network	113.207.76.26	Chongqing, CN	San Francisco, ...	unknown	51508
22:43:52.551	Romtelecom Data Network	92.82.237.58	Bucharest, RO	San Francisco, ...	telnet	23
22:43:52.400	Microsoft Corporation	65.55.169.250	Washington, US	De Kalb Junctio...	smtp	25
22:43:51.946	Zhenjiang Sky Netbar	218.3.55.177	Zhenjiang, CN	Madrid, ES	telnet	23
22:43:51.904	Colombia Telecomunicaciones S.A. Esp	190.69.53.223	Bogota, CO	De Kalb Junctio...	telnet	23
22:43:51.465	Microsoft Corporation	157.56.110.252	Redmond, US	De Kalb Junctio...	smtp	25
22:43:50.828	Zhenjiang Sky Netbar	218.3.55.177	Zhenjiang, CN	Madrid, ES	telnet	23
22:43:50.824	Zhenjiang Sky Netbar	218.3.55.177	Zhenjiang, CN	Madrid, ES	telnet	23
22:43:50.822	Zhenjiang Sky Netbar	218.3.55.177	Zhenjiang, CN	Madrid, ES	telnet	23

http://map.norsecorp.com

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motivations behind a cyber attack

organized cyber crime

3.3%

10.9%

12.0%

73.9%

- **■ Cyber Crime**
- **■ Hacktivism**
- **■ Cyber Espionage**
- **■ Cyber Warfare**

Source: HACKMAGEDDON march 2016

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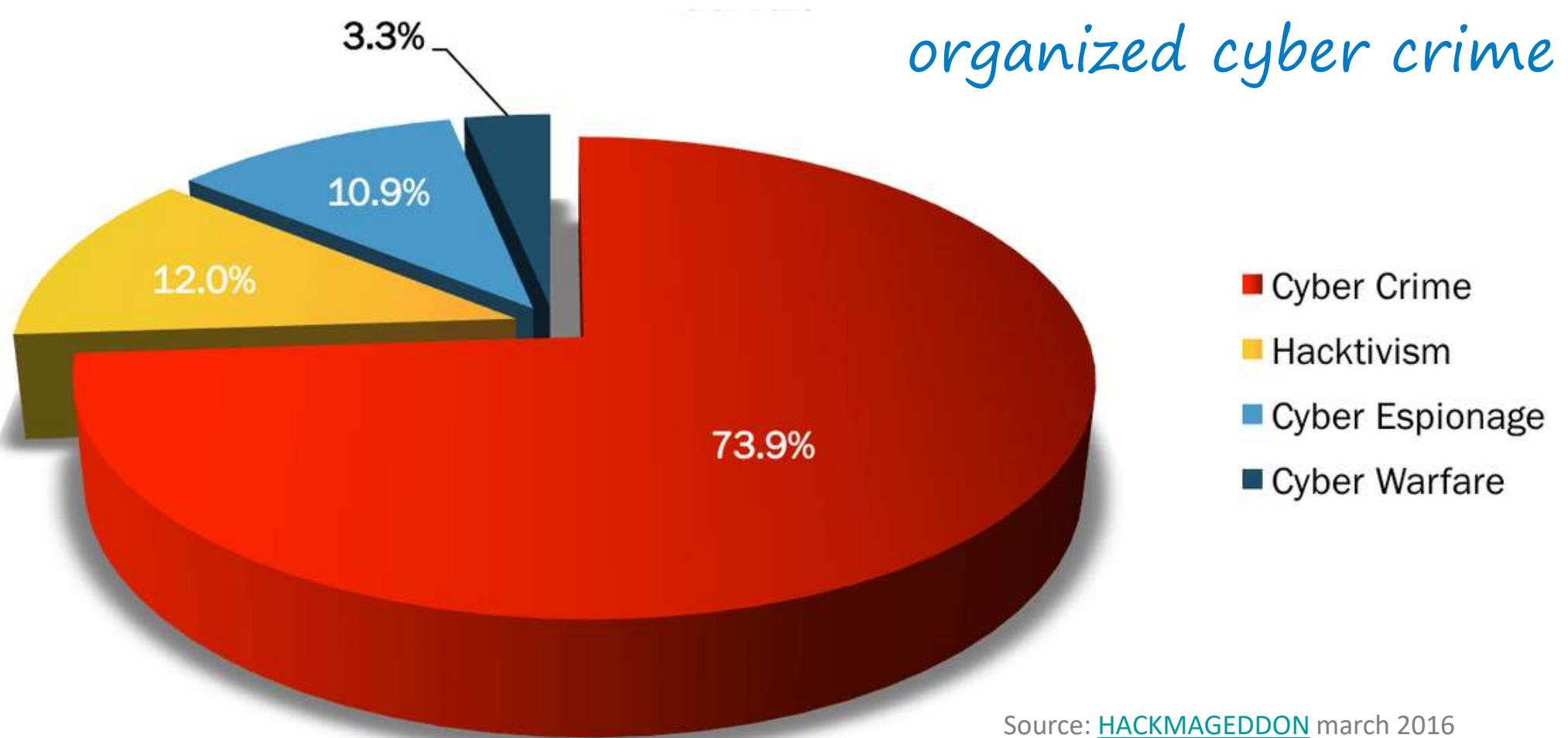
Ramnicu Valcea (Romania)

Hackerville

FOTO @ GEORGE CRISTIAN ENACHE

IN SEARCH OF
THE MOST
DANGEROUS TOWN
ON THE INTERNET
DIRECTED BY SEAN DUNNE

cybercrime automation

>50% Internet traffic is not human

world's biggest data breaches
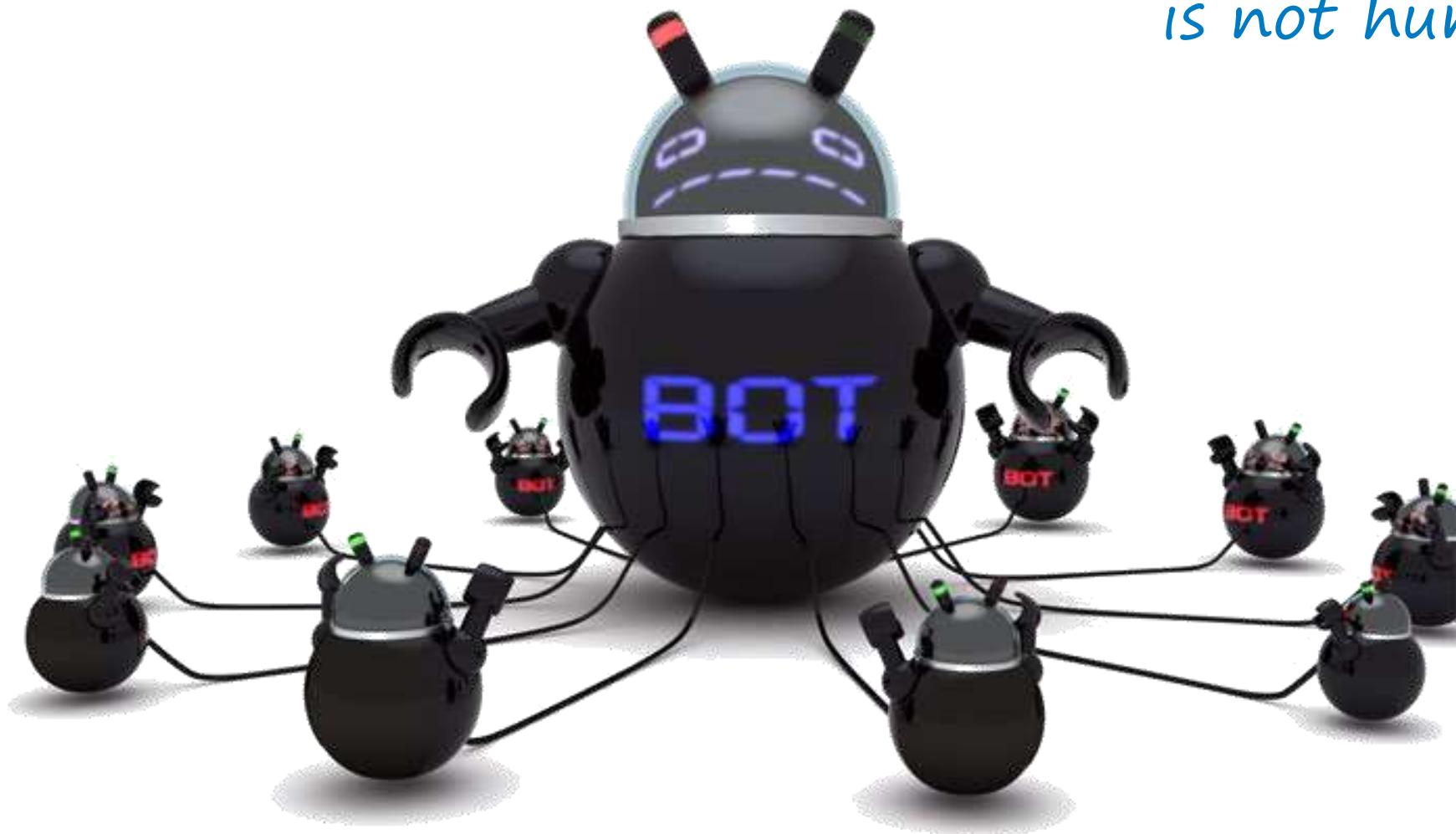
http://www.informationisbeautiful.net/visualizations/worlds-biggest-data-breaches-hacks
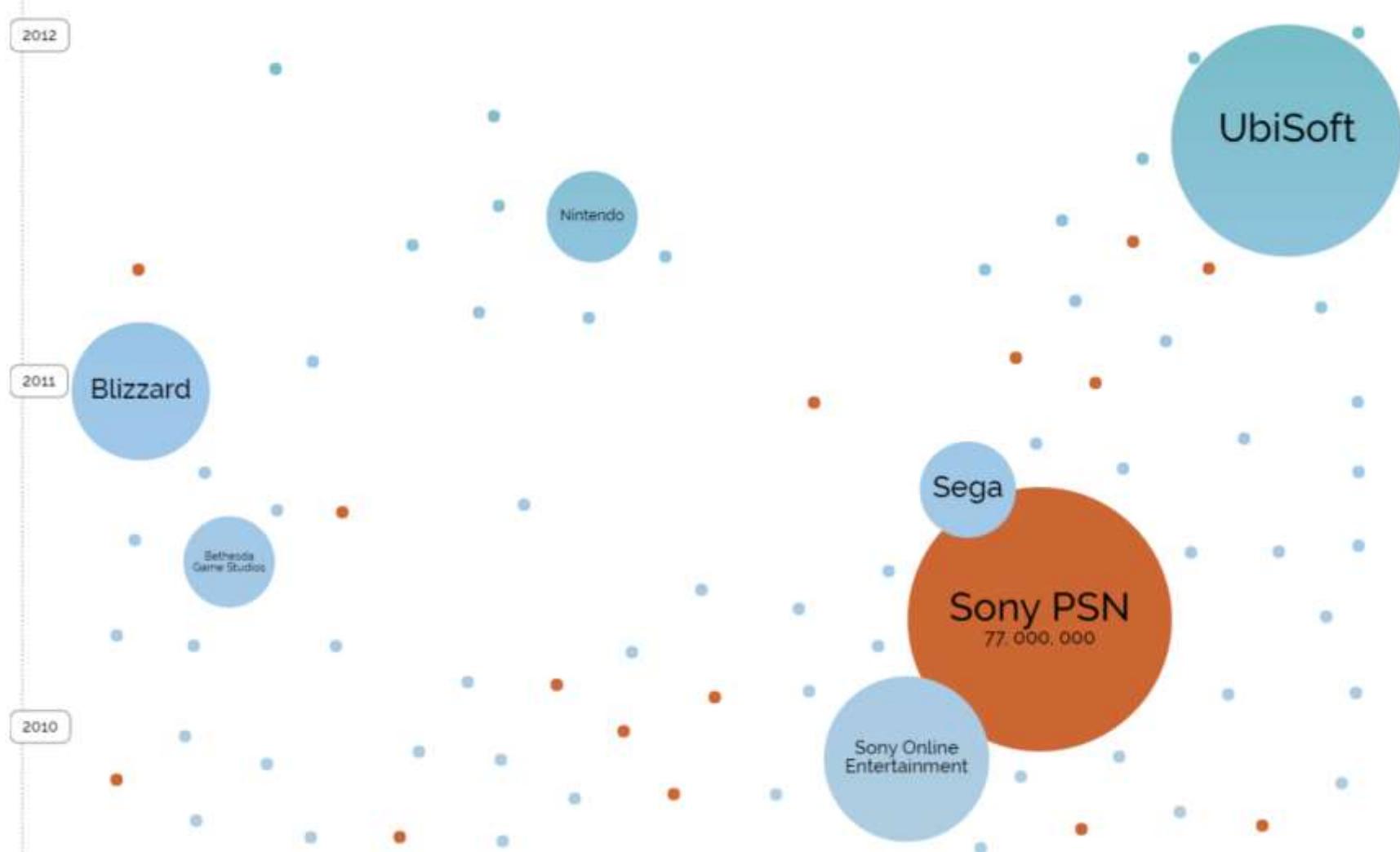
they want your credentials


TOP 20 MOST COMMON PASSWORDS
(as a percentage of all passwords)

1.	123456	4.1%
2.	password	1.3%
3.	12345	0.8%
4.	1234	0.6%
5.	football	0.3%
6.	qwerty	0.3%
7.	1234567890	0.3%
8.	1234567	0.3%
9.	princess	0.3%
10.	solo	0.2%
11.	login	0.2%
12.	welcome	0.2%
13.	loveme	0.2%
14.	hottie	0.2%
15.	abc123	0.2%
16.	121212	0.2%
17.	123654789	0.2%
18.	flower	0.2%
19.	passw0rd	0.2%
20.	dragon	0.1%

Source: Skyhigh Networks july 2015

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Darknet marketplaces
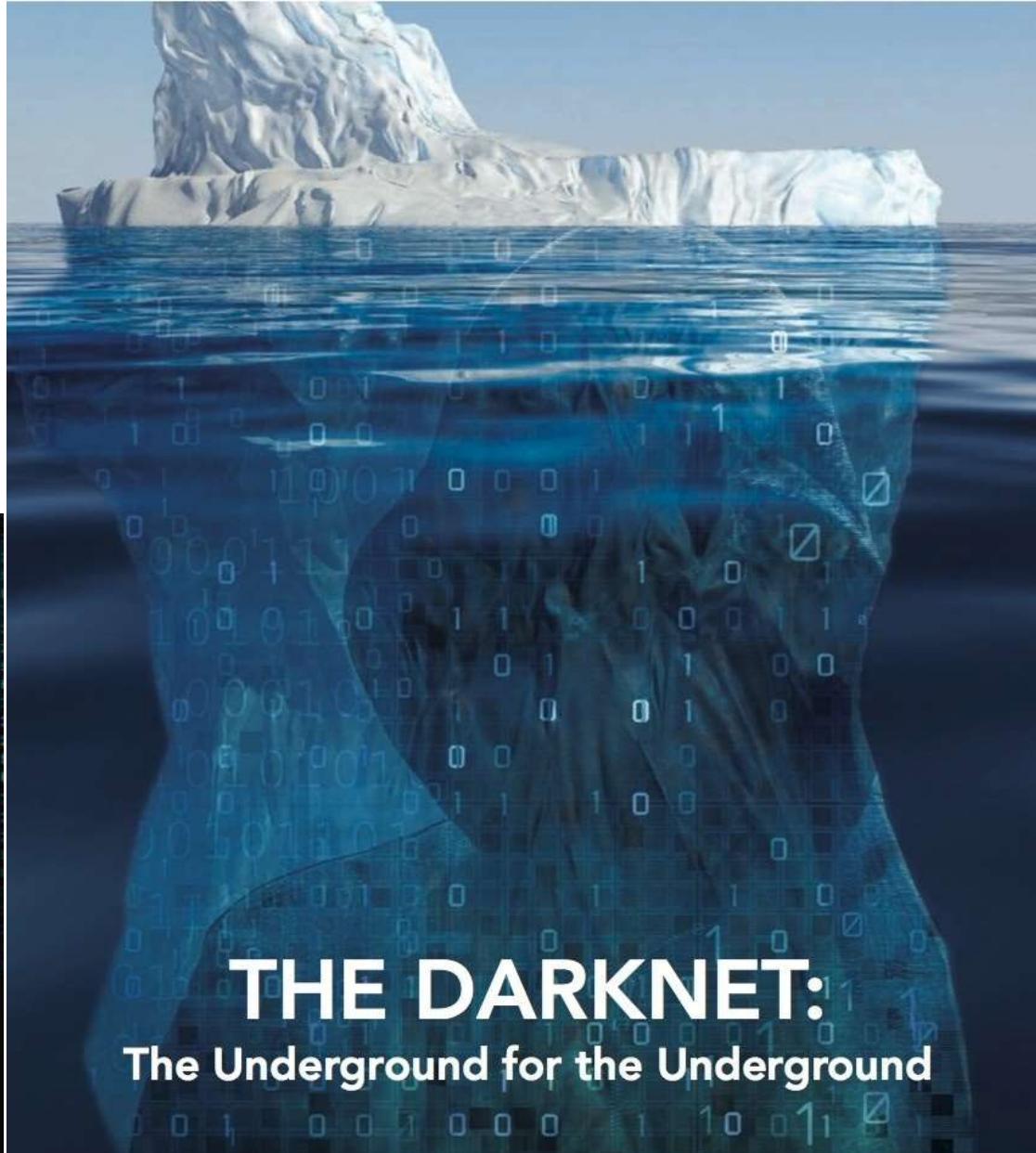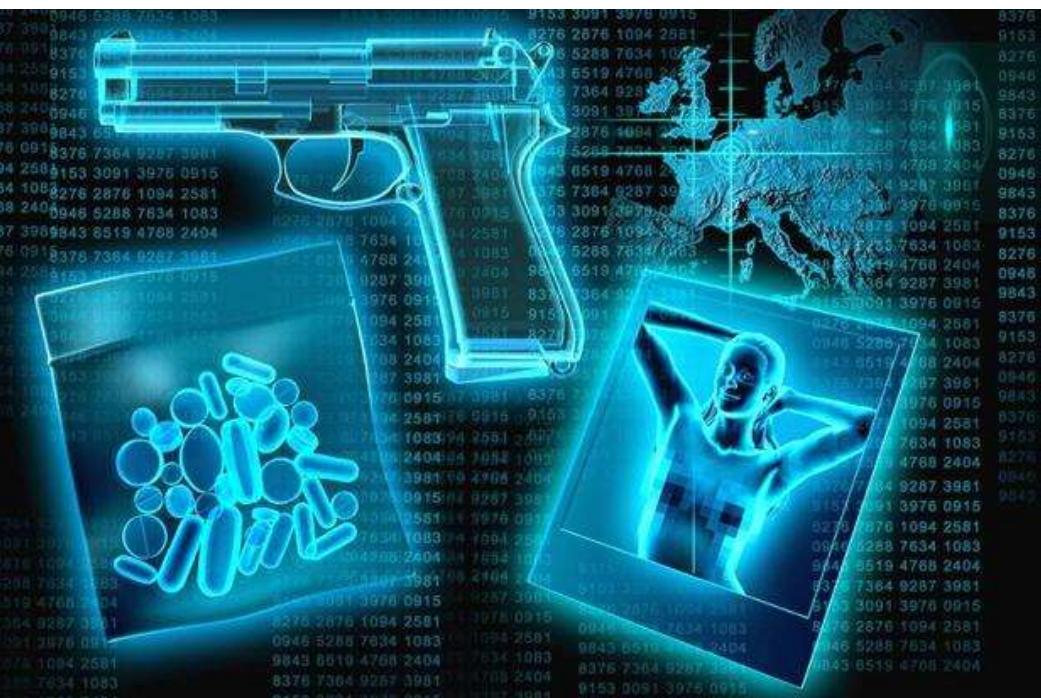
THE DARKNET:
The Underground for the Underground

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cyber security top5 recommendations

be aware (sensitization)
assess your digital risk
compare to physical world
implement some measures
part of your digital life

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