

Cyberspace

Cybercrime

Cyber Safety Cyber Awareness Cyber Responsibility

Cybersecurity



Cyberspace

Internet All protocols, all globally routable addresses

Surface Web Portions of the WWW indexed by search engines

World Wide Web

Deep Web Part of the web accessible through a browser but not indexed by search engines (e.g. password required)

Dark Web Dark Net services partially accessible through a browser

Dark

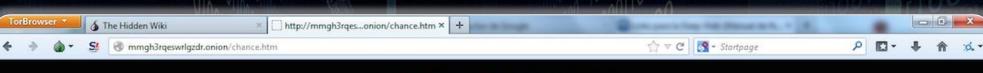
Net

Deep Web

EUROPEAN CENTRAL BANK	ECB website
Registration Forms	ECB Extranet login
	Please note that passwords and codes are case sensitive
	User ID or e-mail address:
	Password:
	PBZUZA
	Insert the code shown above
	Login Already registered and forgot your password?



Dark Web



LAST CHANCE

If you don't know what's ahead already, you're probably in the wrong place.

<u>LEAVE</u>

ENTER



Cyberspace

Cybercrime

Cyber Safety

Cyber Awareness

Cyber Responsibility

Cybersecurity

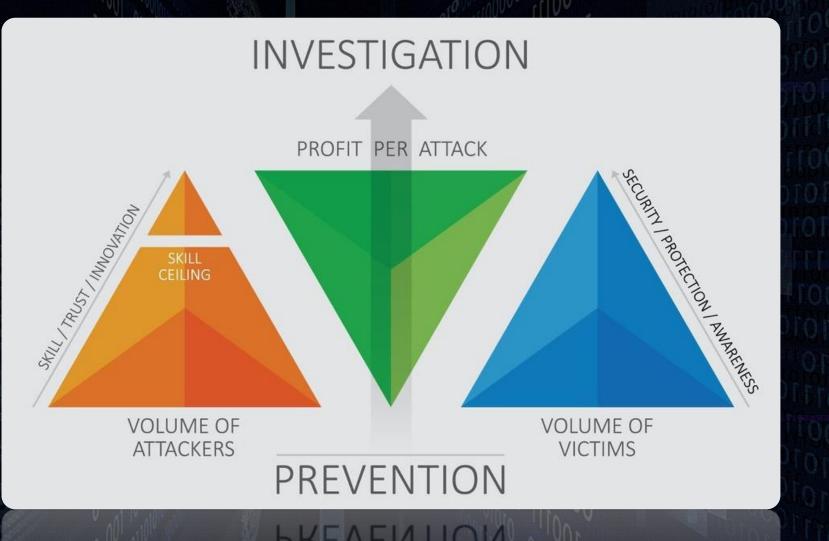


Cybercrime

- Cybercrime against persons.
- Cybercrime against property.
- Cybercrime against government.



Cybercrime Trichotomy



Cybercrime Modus Operandi

Cryptoware/ransomware

Malware attacks

Social engineering

P2P crime EMV/NFC/CNP/ATM attacks

Spear phishing

DDoS attacks (AaS)

C2C transactions



Cyberspace Cybercrime

Cyber Safety

Cyber Awareness

Cyber Responsibility

Cybersecurity

EC3

🚿 EURCPOI

Cyber Safety

The internet

never

forgets



Cyberspace Cybercrime Cyber Safety Cyber Awareness

Cyber Responsibility

Cybersecurity



Cyber Awareness

How "at home" are you in cyberspace?

How safe do you feel in cyberspace?

How is your personal cybersecurity?

Did you logon to the WiFi hotspot here?

Which one did you choose?



Cyber Awareness

So now you know to avoid SSID "square guest"

Which hotspot did you choose instead?

And who told you that one is safe?



Cyber Awareness



Skill-based Error

Mistake

Slip of Action

Memory Lapse

Rule-based

Knowledge-based



Cyberspace Cybercrime Cyber Safety (1000 10010 Cyber Awareness¹⁰¹⁰ [[

Cyber Responsibility

Cybersecurity



Cyber Responsibility

- Example: Cloud services are available as free, "fremium" and paid;
 - lack of anti-automation.
 - host malicious domains using legitimate hosting providers.
 - cloud services used for high power & high impact attacks.
 - attackers can obtain processing power, disk space, and network bandwidth for free.

Automated online theft is utilising the exact same flexibility and freedom you get from having your software and services hosted in the cloud.



Cyber Responsibility

- Ensure (at least) 2FA or MFA to access online (cloud) environments for both employers and customers/clients.
- Ensure the authentication forces the user to be:
 - In a certain location
 - In possession of certain authentication tools:
 - Knowledge factors (something you know)
 - Password/-phrase
 - Possession factors (something you have)
 - Connected tokens
 - Disconnected tokens
 - Inherence factors (something you are)
 - Biometrics



Cyberspace Cybercrime Cyber Safety (1000 10010 Cyber Awareness¹⁰¹⁰ [[Cyber Responsibility 10

Cybersecurity

EE3 European Cybe

SEUR: POL

Cybersecurity





10

Cybersecurity

(intelligence driven defense),

- Predictive
- Proactive (sustainable security),
- Reactive (compliant security),
- Preventive/Corrective (basic security)
- Effectively detect, prevent and respond to cyber threats against technology infrastructure.
- Information security management.
- Collaboration with business information risk management.
- Develop in-house built applications.
- Implement third-party solution.



Cybersecurity

- Ensure positive proofs-of-concept before implemetation.
 - Purpose built, but also purpose functional?
 - Scaleability of the solutions (future proof?).
- Ensure the use of test-driven development technologies.
- Stay up to date in your working areas; developments, new solutions, exposed vulnerabilities and threats.
- And one of the most difficult challenges in the corporate environment:

DARE TO LEARN FROM AND SHARE YOUR OWN AND OTHER'S MISTAKES!



CONTACT



Lars van Mulligen Forensic Specialist lars.vanmulligen@europol.europa.eu +31(0) 70 302 5131 +31(0) 6 248 23 209



