



# How cybersecurity relates our lives?

Pasi Kämppi 04.04.2017

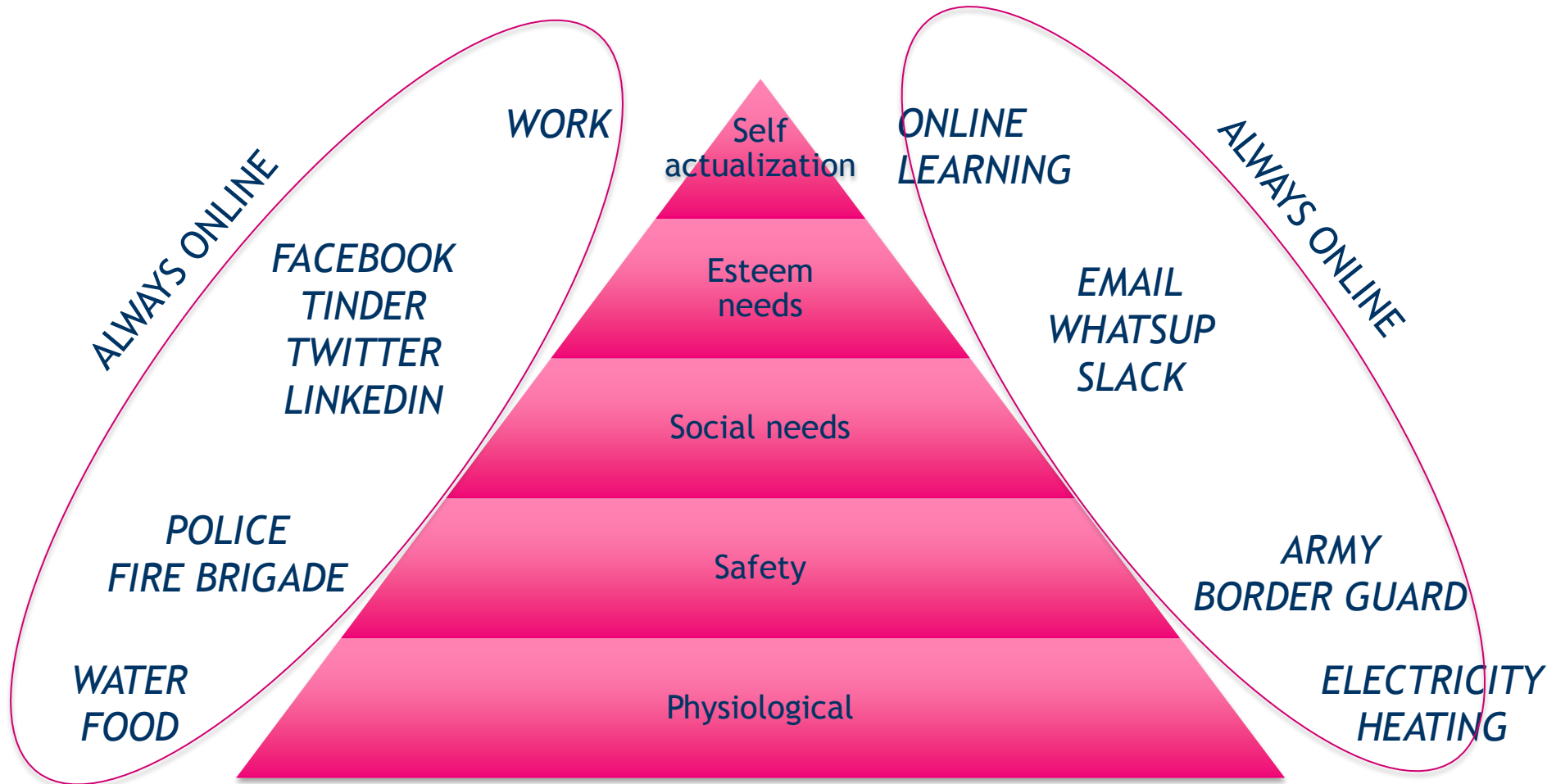
# What is going on in cyber world?



Source: <https://cybermap.kaspersky.com/#>

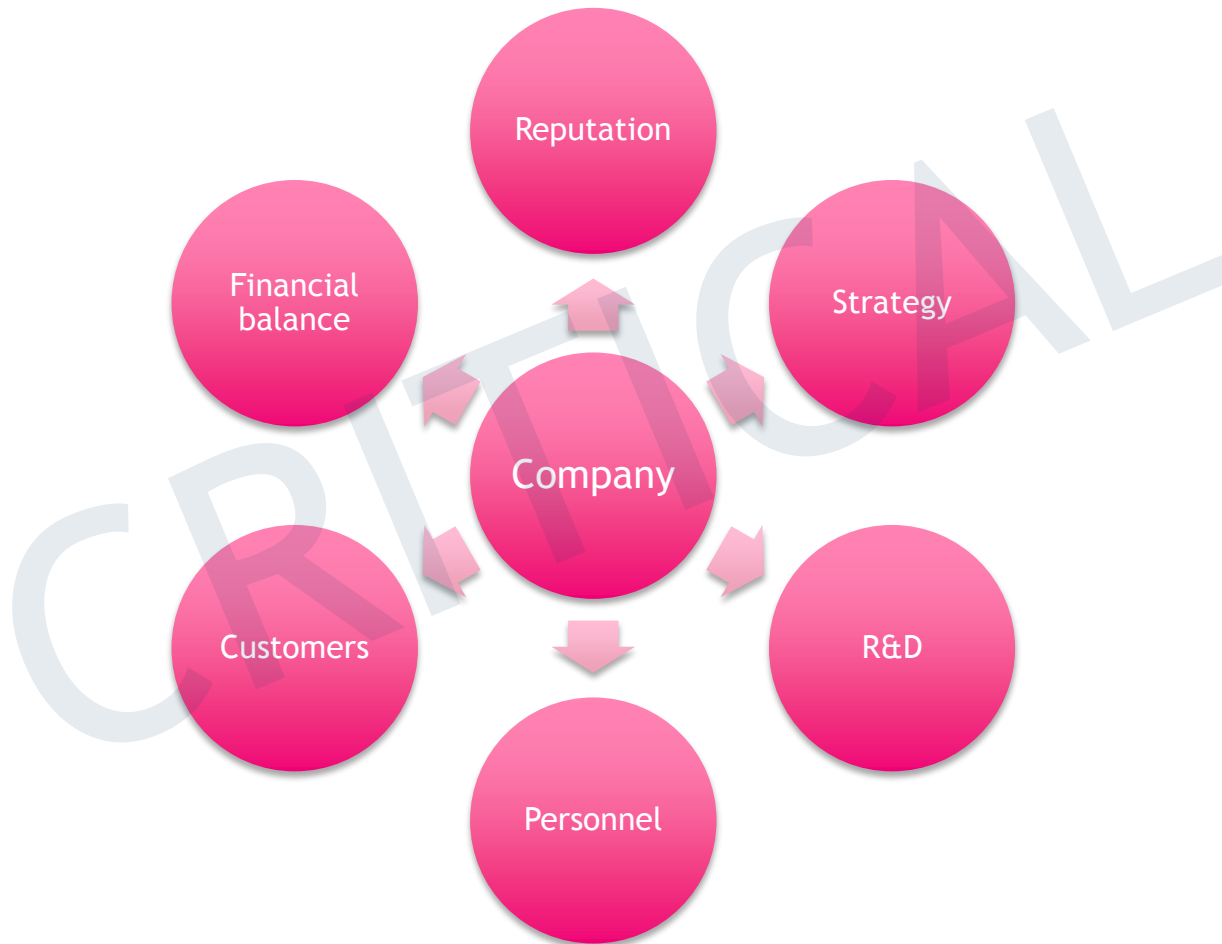
Source: <http://map.norsecorp.com/#>

# What is critical for individual people?

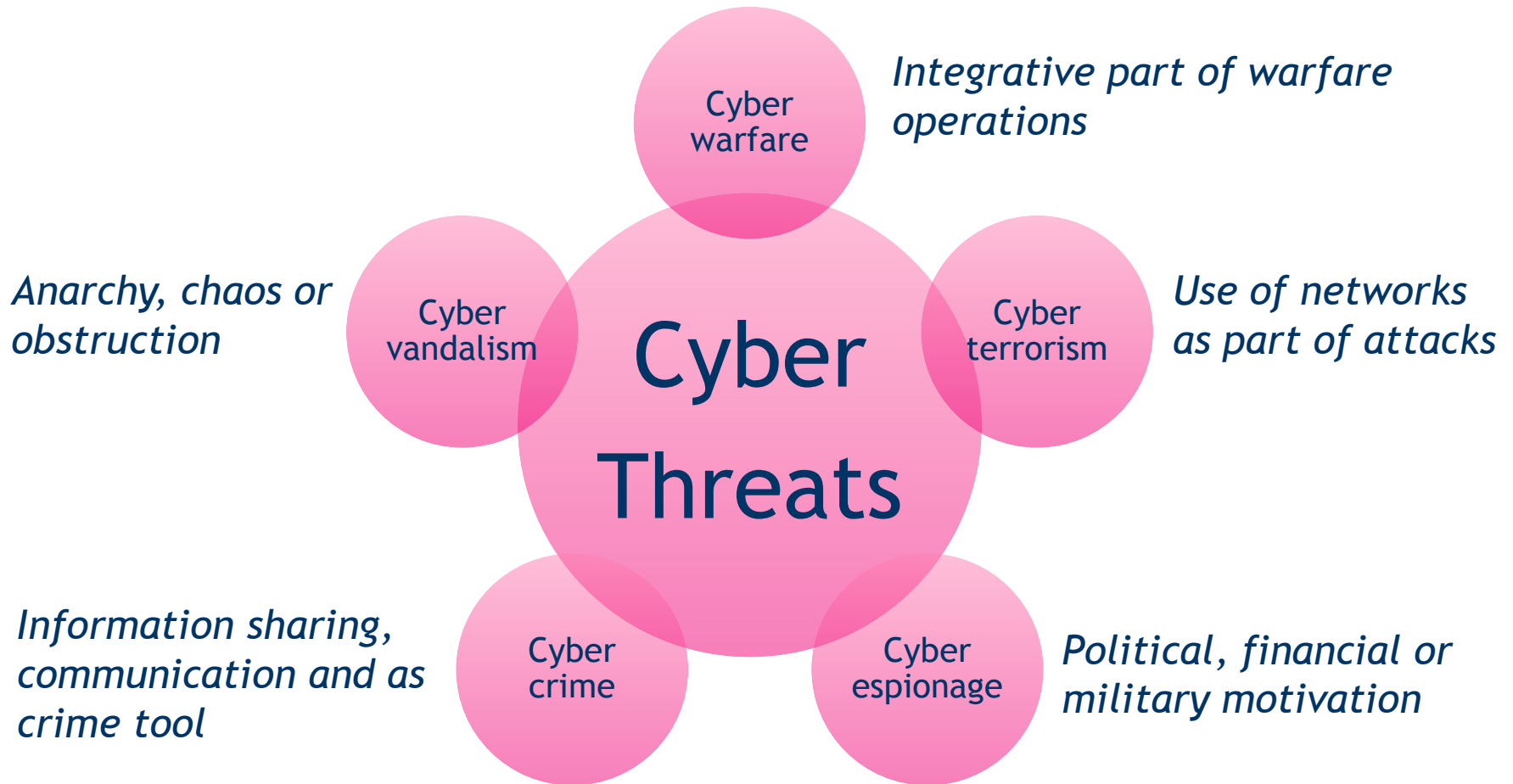


Maslow hierarchy of needs

# What is critical for companies?

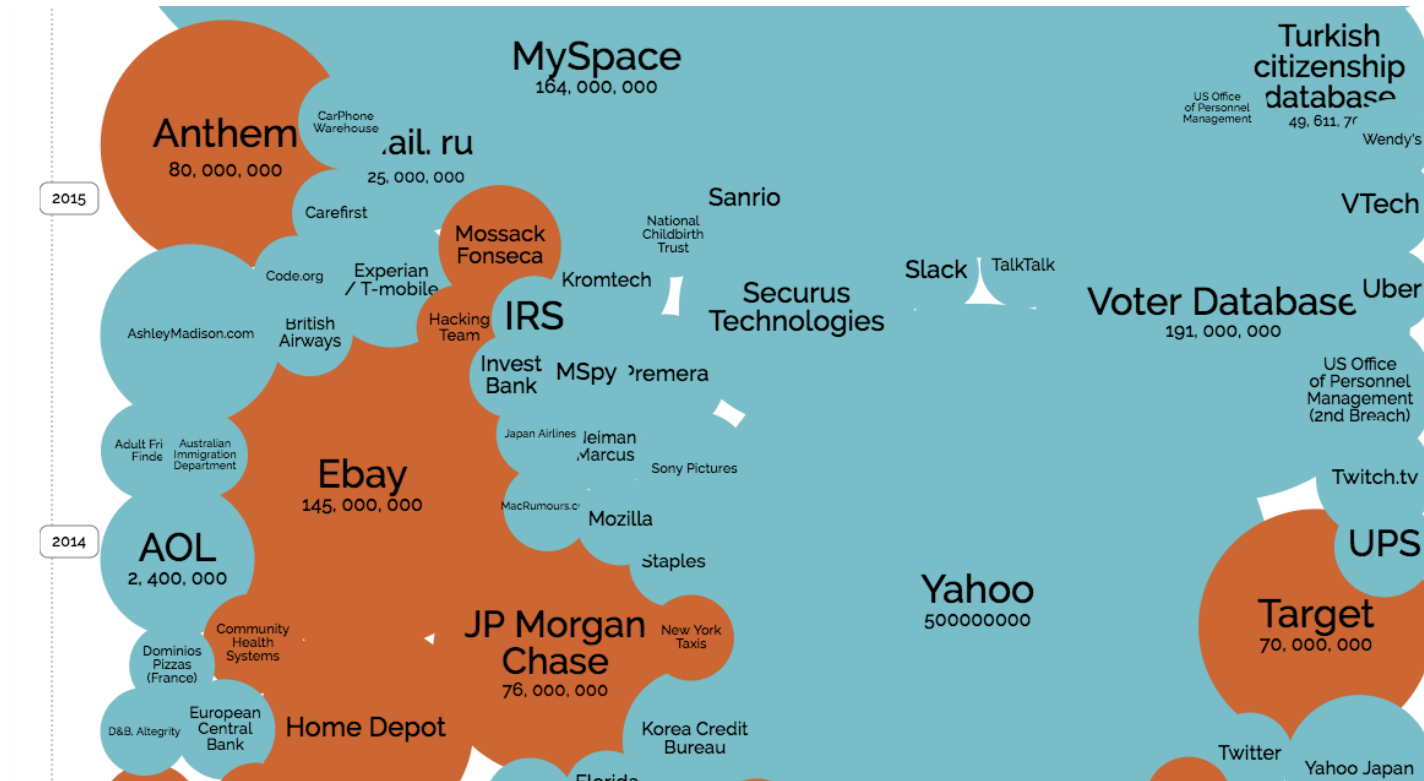


# Cyber threats?



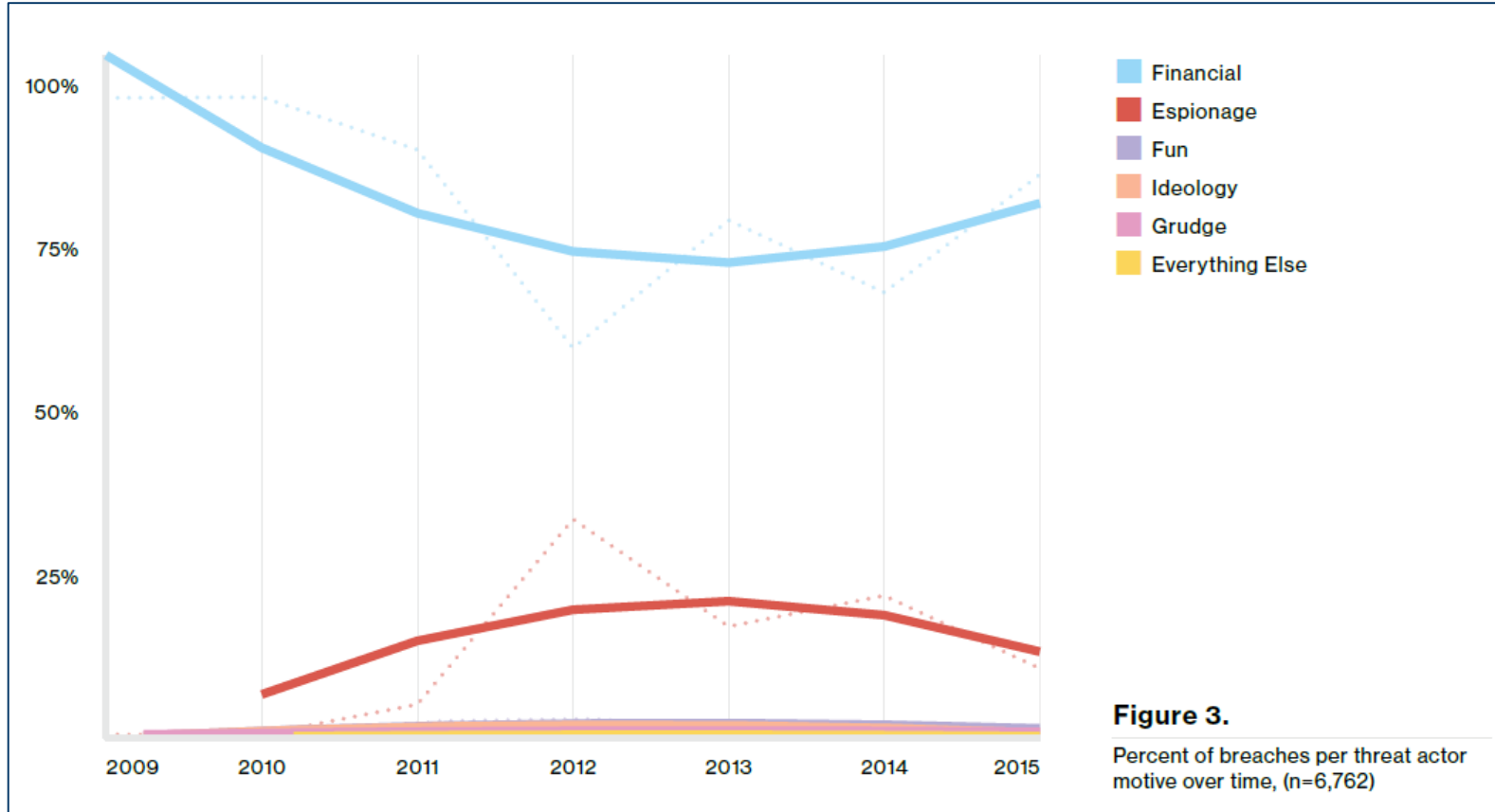
Source: Lecture material, Martti Lehto

# What has already happened?



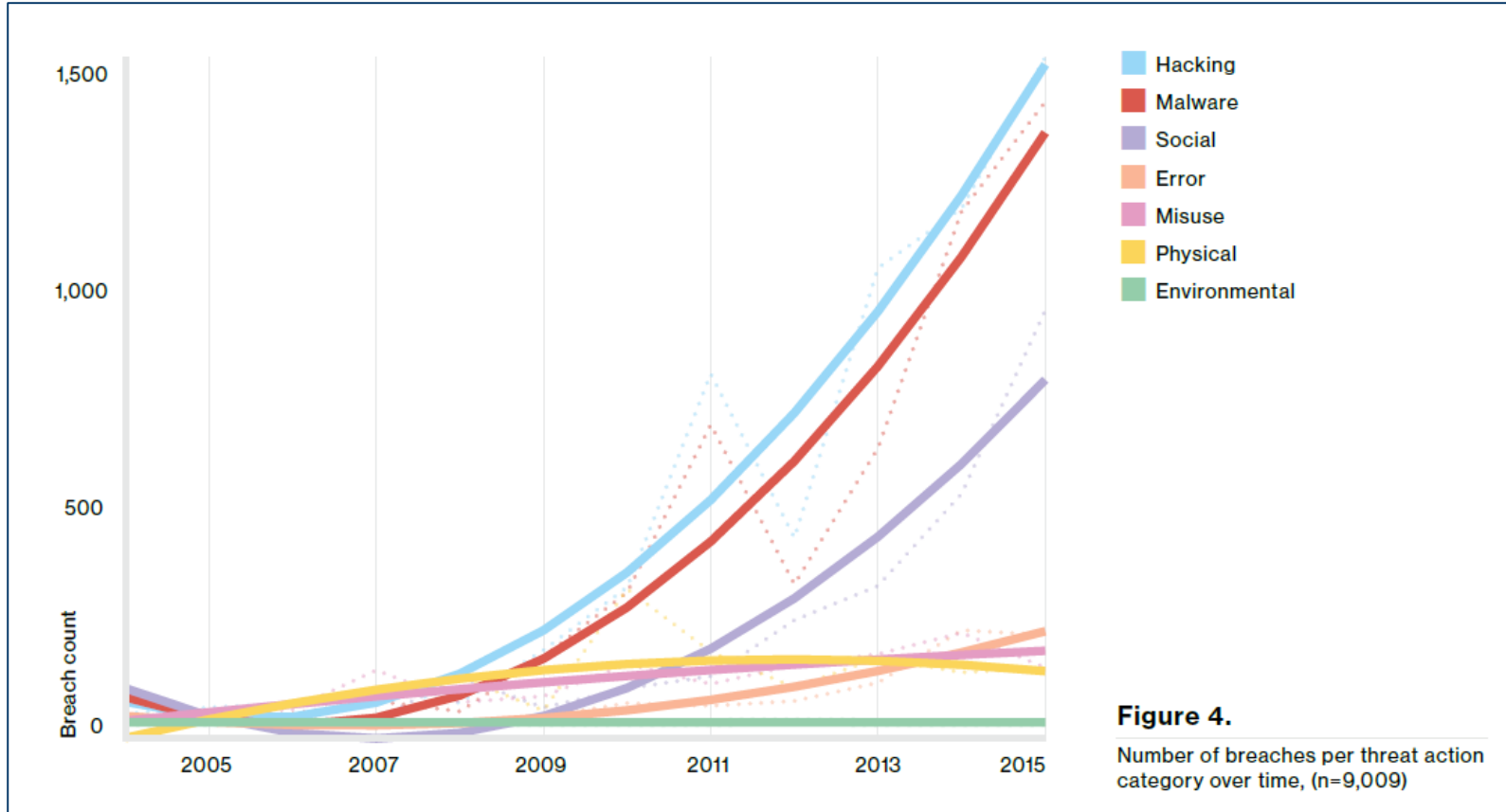
Source: <http://www.informationisbeautiful.net/visualizations/worlds-biggest-data-breaches-hacks/>

# Trends (motivation)



Source: Verizon 2016 Data Breach Investigations Report

# Trends (action category)



Source: Verizon 2016 Data Breach Investigations Report



# Ethics for hackers

Facebook likes (1000)  
\$15

Twitter followers (10000)  
\$15

Hacking course  
\$75

## Black Hat hackers



Criminals

Botnet (1000 computers)  
\$200

Credit card number (Premium)  
\$250

Social security number  
\$5

## White Hat hackers



Penetration testers  
(ethical hackers)

## Grey Hat hackers



Between black and white

# MOTIVATION FOR HACKING?

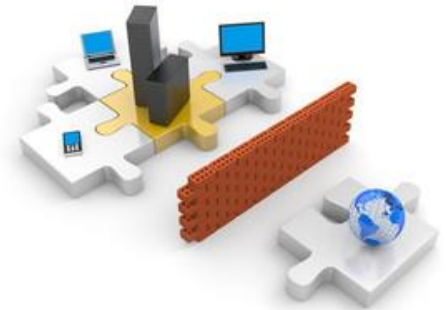
# Ethics for information owner

Training against  
social engineering

Phishing, whaling,  
dumpster diving,  
shoulder surfing



Technological protection



The person has access for confidential information

*Safeguards or training do not matter if  
the person has personal intention  
for abuse or misuse.*

# Cybersecurity education in Laurea

## Information Infrastructure and Security (15 ECTS)

- Networking Infrastructure
- Network Applications
- Network Project

## Information Security Management (15 ECTS)

- Introduction to Information Security
- Information Security Management
- Information Security Development Project

## Cybersecurity Technologies (30 ECTS)

- System Security
- Network Security
- Enterprise Applications Security
- Cybersecurity
- Emerging Technologies Project 1&2

# The final question

Why anyone would use their resources  
to hack your system?



# Questions or comments?

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