De cyberarena

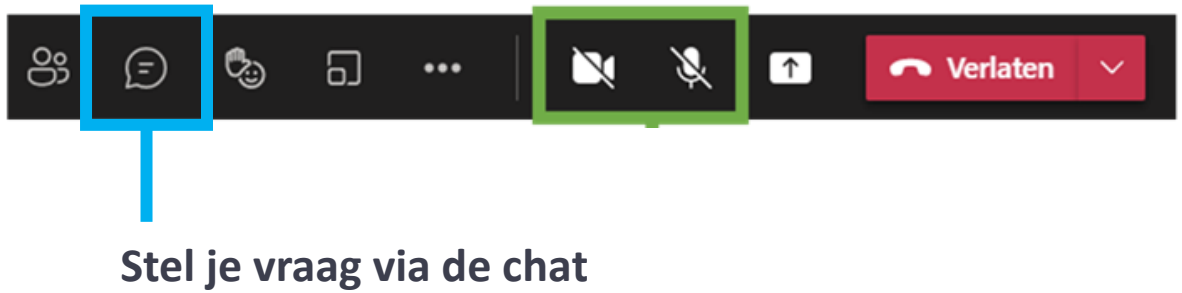
Cyberveiligheid voor lokale medewerkers zonder IT-expertise

WELKOM

Enkele praktische afspraken

Tijdens het webinar

Vraag stellen?



Programma

10:00 tot 10:05 - Inleiding bij het Project Cyberveilige Gemeenten
10:05 tot 11:00 - Toelichting door prof. Vincent Naessens
11:00 tot 11:15 - Vraag en antwoord
11:15 tot 11:20 - Slotwoord

Project Cyberveilige Gemeenten

vvsg

howest hogeschool

AGENTSCHAP BINNENLANDS BESTUUR

AUDIT VLAANDEREN

DIGITAAL VLAANDEREN

Project Cyberveilige Gemeenten

Naar aanleiding van de cyberaanval in Willebroek en de toenemende dreiging van cybercriminaliteit besloot de Vlaamse Overheid op voorstel van minister Bart Somers om 2,18 miljoen euro te investeren in de cyberveiligheid van lokale besturen

Samen met **ABB**, **Audit Vlaanderen**, **Digitaal Vlaanderen** en de **VVSG** werd volgend aanbod uitgewerkt:

1. Ontwikkeling Cyber Security Toolkit
2. ICT-veiligheidsaudits met cofinanciering via Audit Vlaanderen
3. Traject Ethisch Hacken in samenwerking met Howest
4. Training en sensibilisering

Cybersecurity Toolkit

In 2021 werkt VVSG samen met een taskforce van lokale experten aan sjablonen, checklists en plannen waar lokale besturen vrij gebruik van kunnen maken. De toolkit zal o.a. bestaan uit…

- Business Continuïteitsplan
- Crisiscommunicatieplan
- Informatieveiligheidsplan
- Draaiboek cybercriminaliteit
- Responsible disclosure
- Nieuw sensibiliseringsmateriaal

Meer op: www.vvsg.be/kennisitem/vvsg/project-cyberveilige-gemeenten

ICT-veiligheidsaudits

Basisaudit

- Interne en externe penetratietesten op minimum 3 systemen
- Controle op zwakke wachtwoorden
- Controle op toegangen en rechten
- Nazicht op basis van documenten
- Consultancy op maat van het bestuur

6 auditdagen waarvan 1 dag consultancy, met 2/3e cofinanciering.

Aanvullende audit (*50% cofinanciering)*

- Technische ondersteuning bij oplossen kwetsbaarheden
- Advies bij oplossen kwetsbaarheden
- Advies over verdere ontwikkeling of uitbouw van ICT-systemen en ICT-omgeving
- Begeleiding bij de opmaak van een bedrijfscontinuïteitsplan
- Workshop: simulatie van een cyberaanval
- …

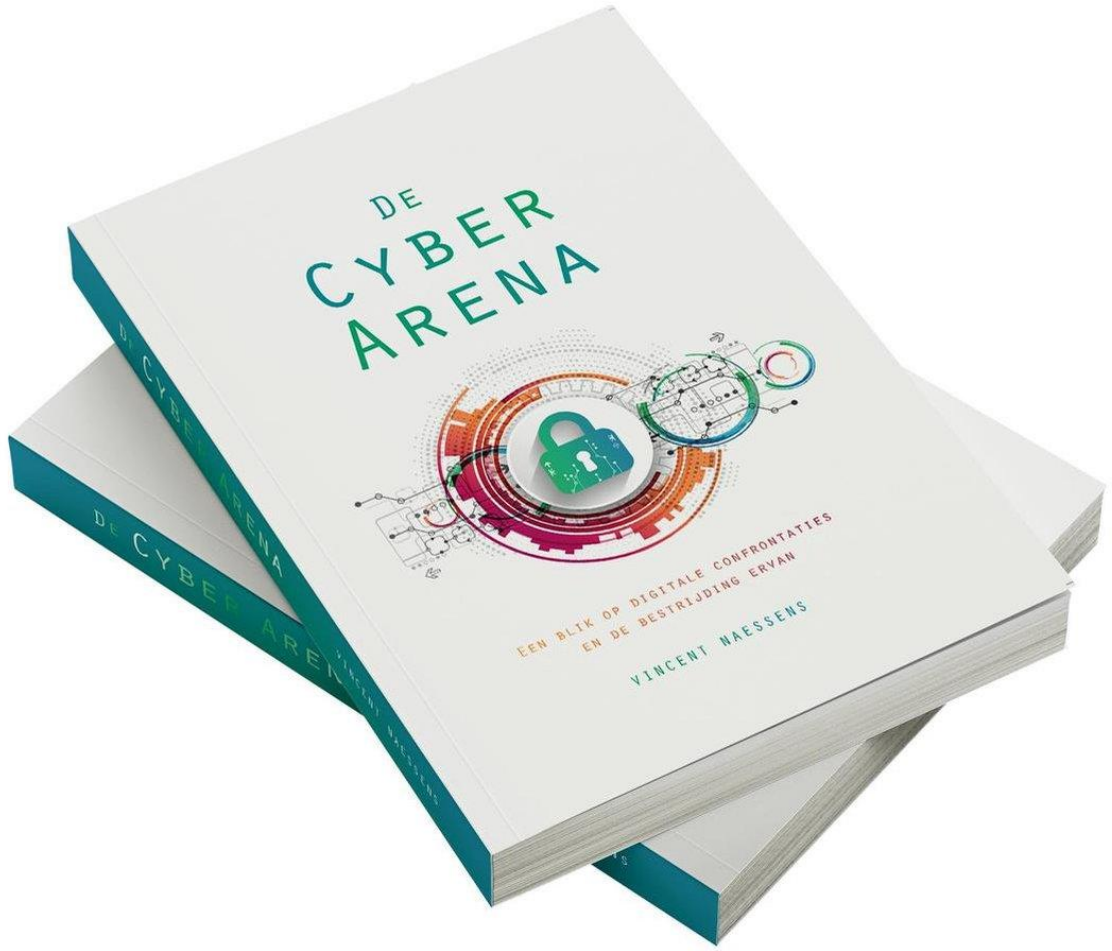
Traject Ethisch Hacken

- VVSG sloeg de handen in elkaar met Howest om een gratis samenwerking met ethische hackers mogelijk te maken.
- Gedurende enkele dagen nemen studenten de IT-omgeving en organisatie onder de loep via diverse testen: interne en externe pentesten, phishing mail campagne, bevraging DPO of CISO, …
- Deelnemende lokale besturen ontvangen een rapport met de gevonden kwetsbaarheden en aanbevelingen.
- In **najaar 2021** gaat een **2e editie** van het traject door.

Training en sensibilisering

- “De mens is de zwakste schakel”
- IT-technische bescherming is cruciaal, maar het is daarbij ook van belang dat lokale besturen en medewerkers zich bewust zijn van de risico’s.
- Via sensibiliserende infosessies en webinars met lokale besturen en experten trachten we op dit luik te werken.
- **Vandaag:** Professor Computerwetenschappen en auteur van De Cyber Arena Vincent Naessens.

De cyberarena - prof. dr. Vincent Naessens



The CyberArena

https://www.decyberarena.be/

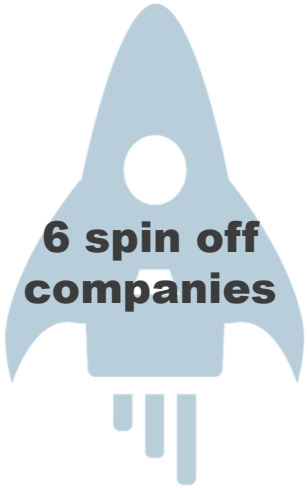
Vincent Naessens, KU Leuven

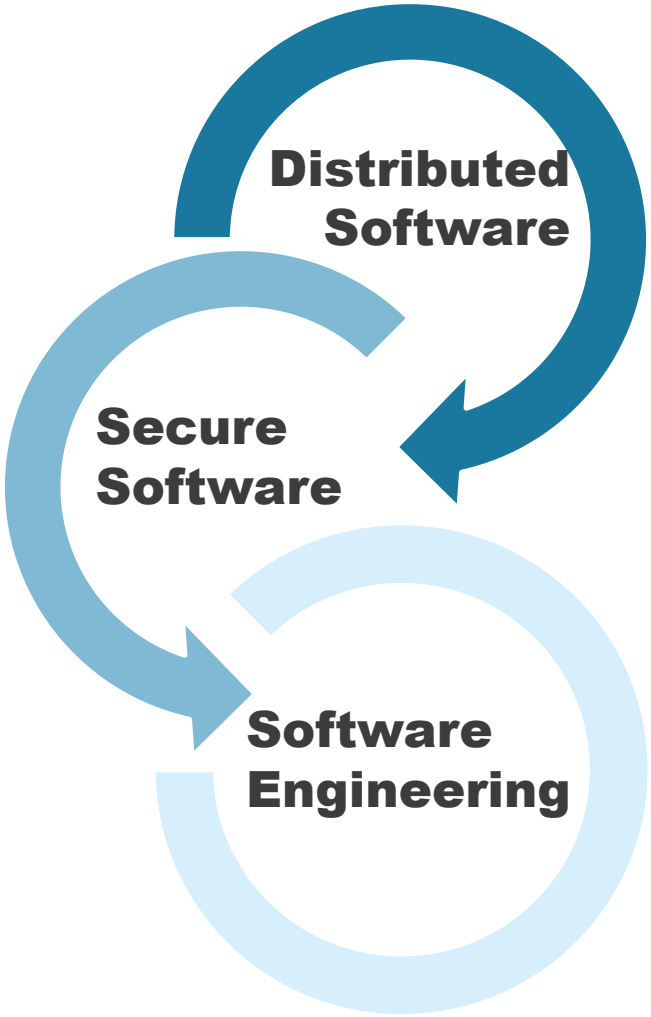
DistriNet

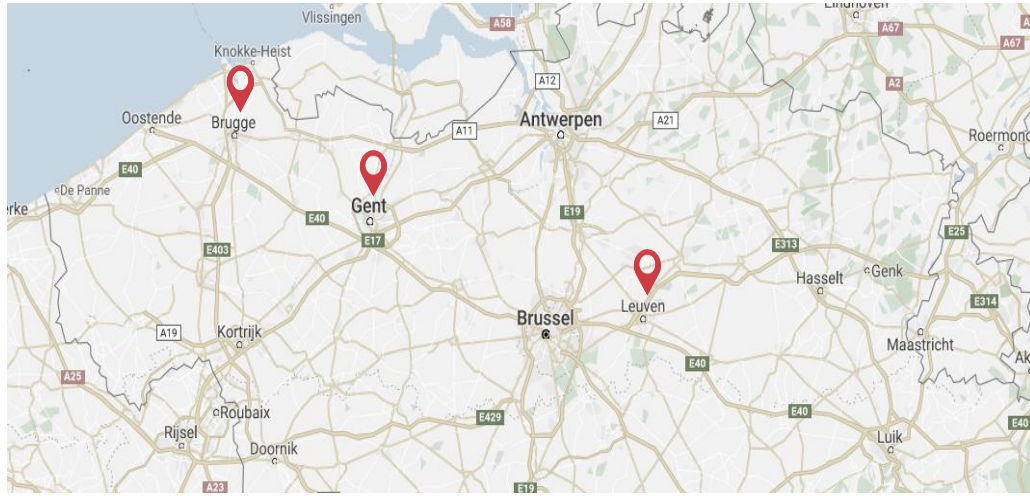
DistriNet in a Nutshell

100+ people

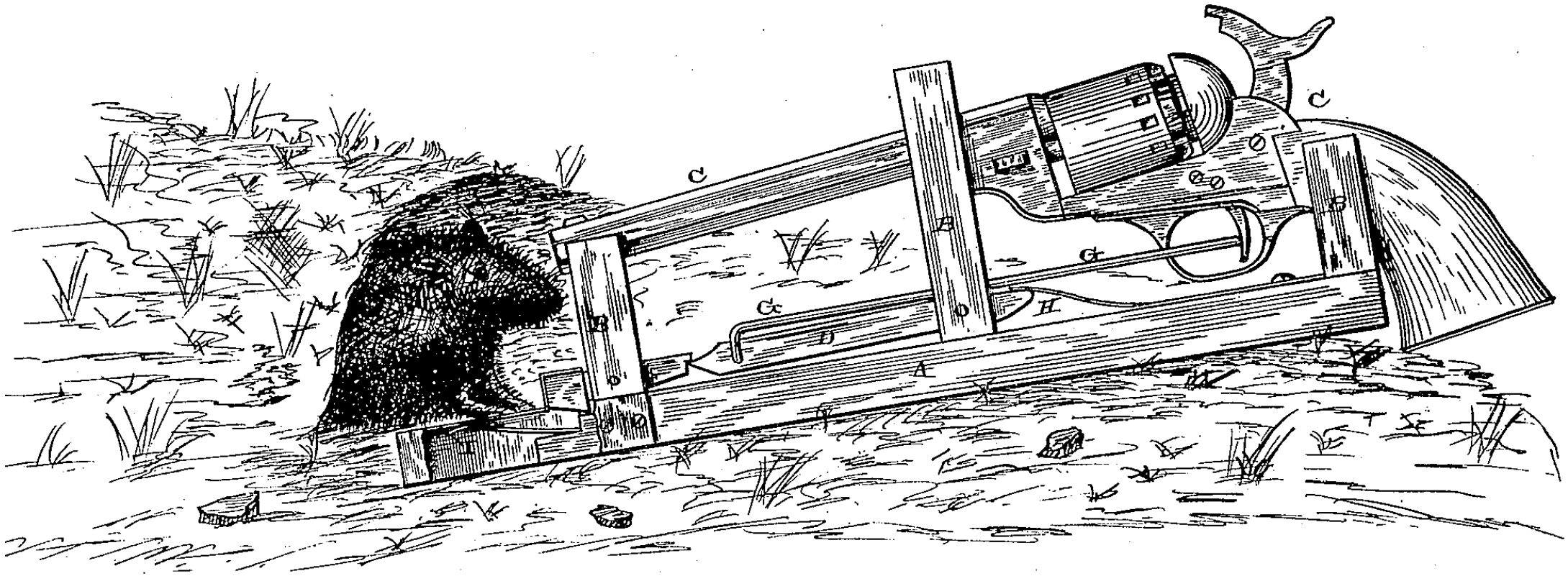
8 professors
11 research managers
2 business office
15 postdocs
70+ PhD students







100 + industry collaborations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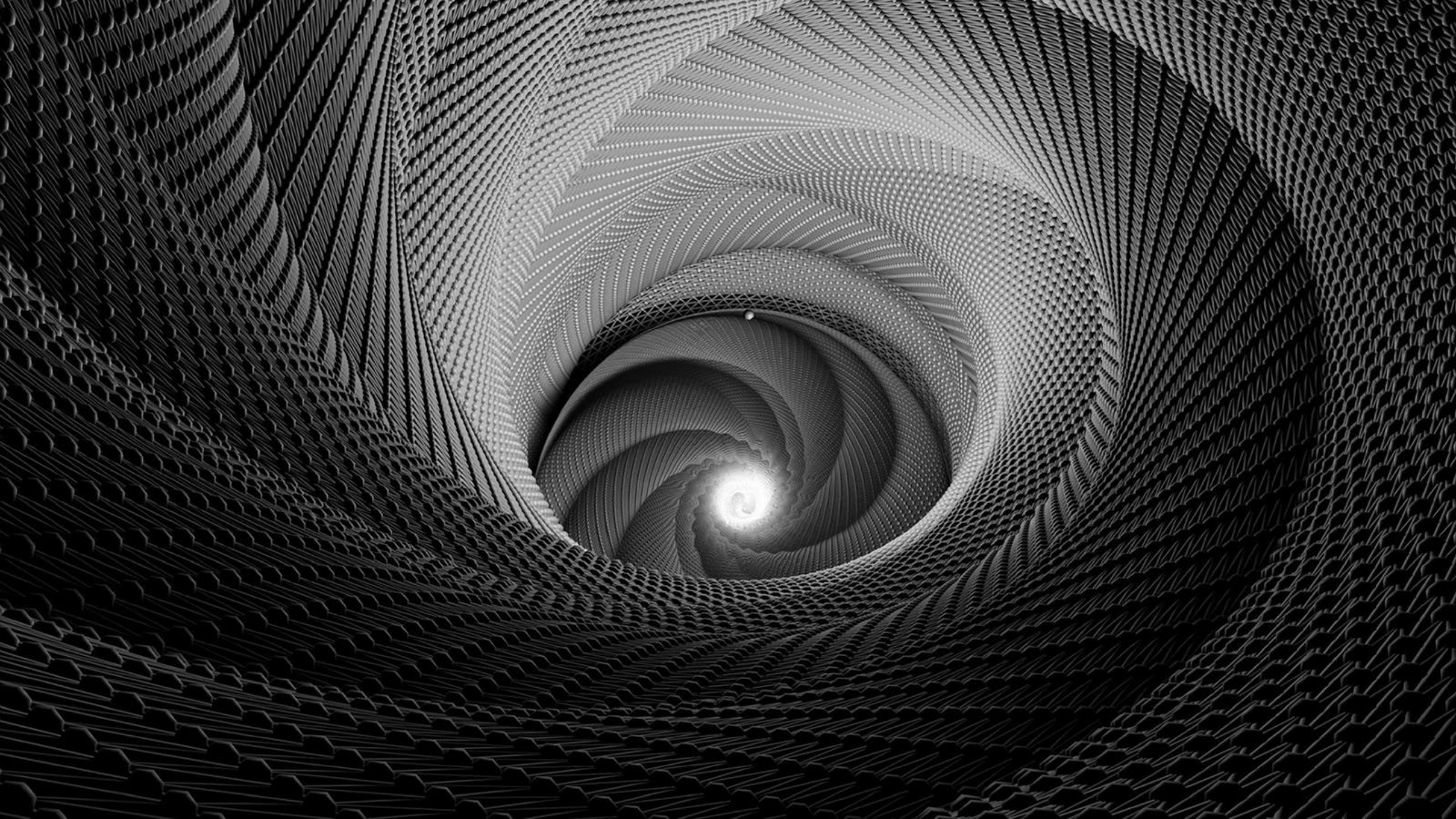
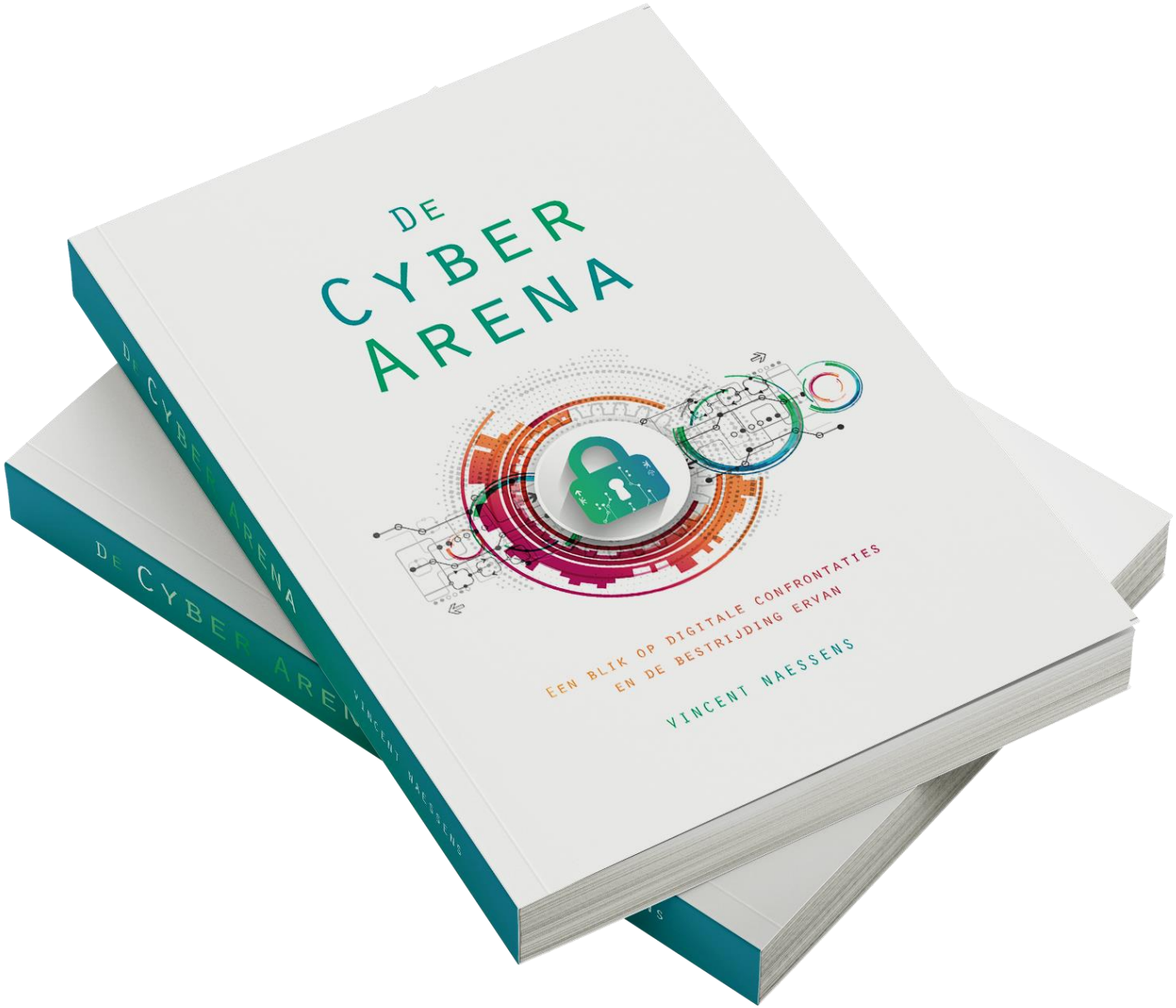
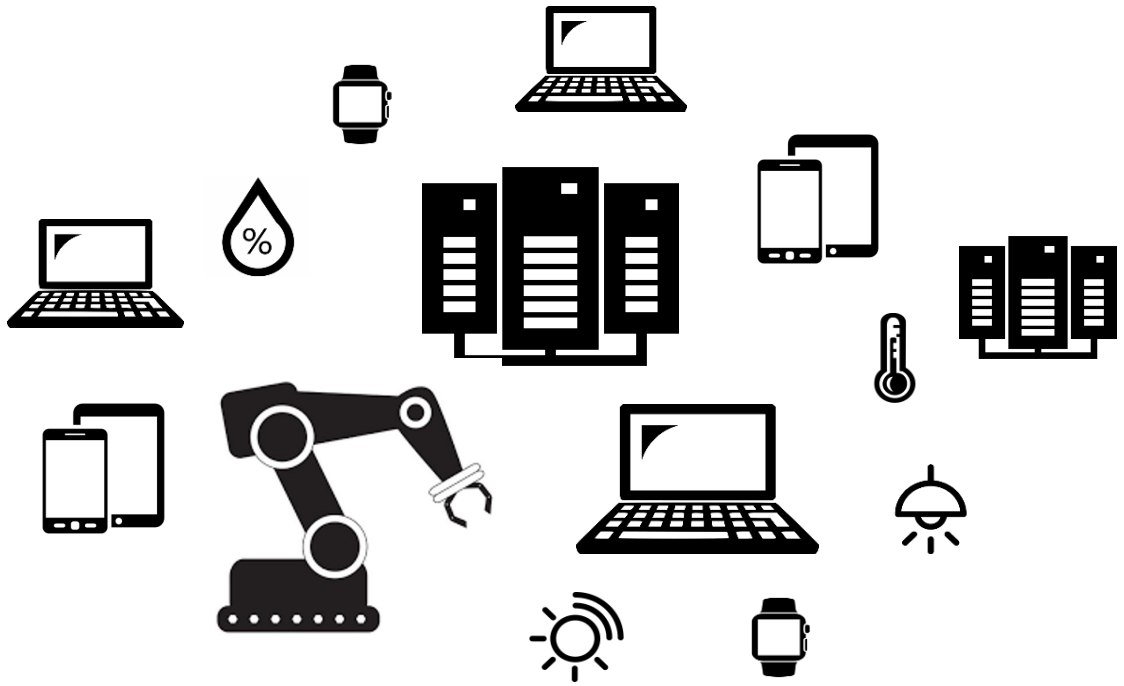




amazon.com

Standaard Boekhandel



Workstations

Mobile Devices

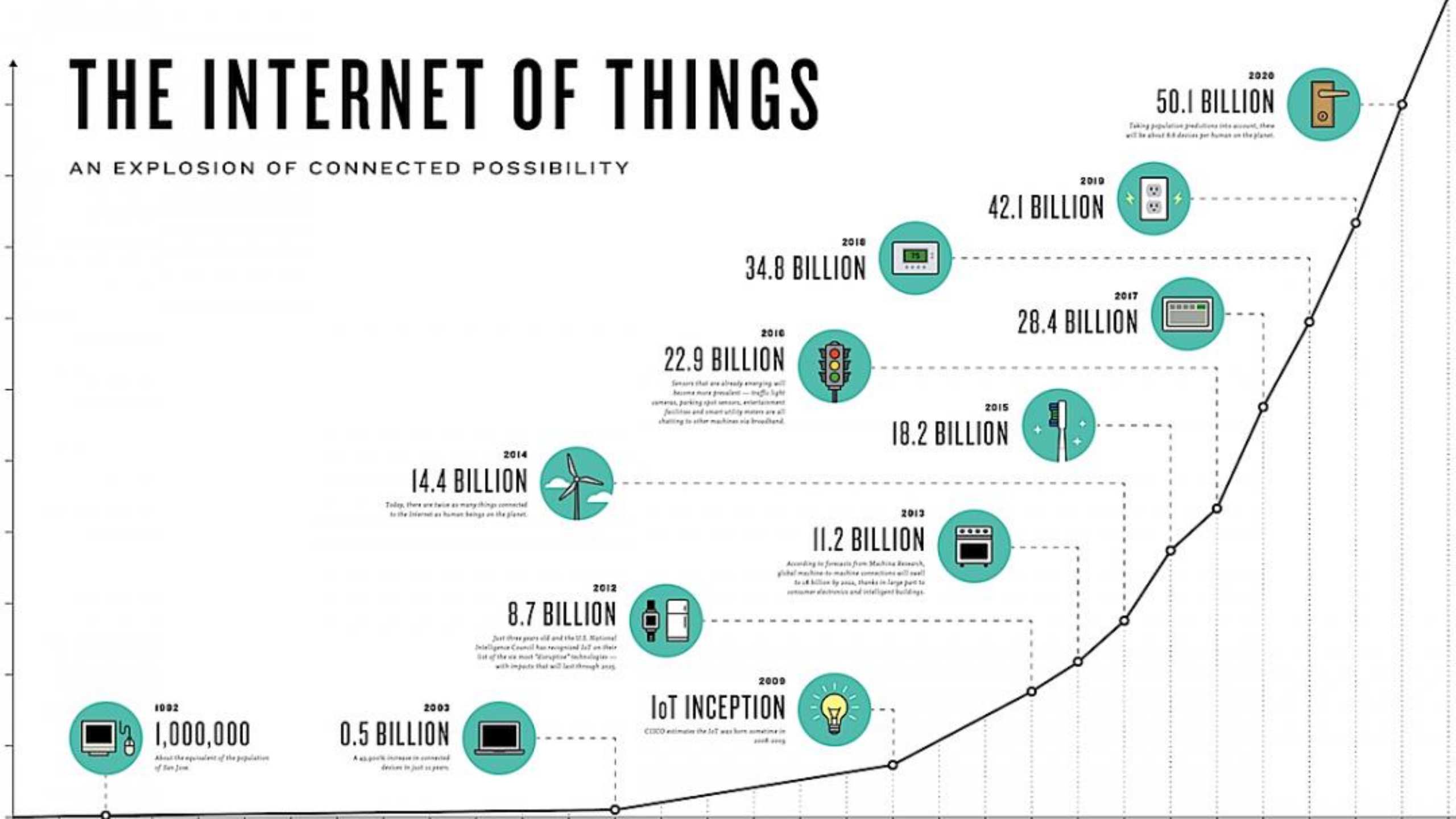
Cloud Systems

Cyberphysical Systems

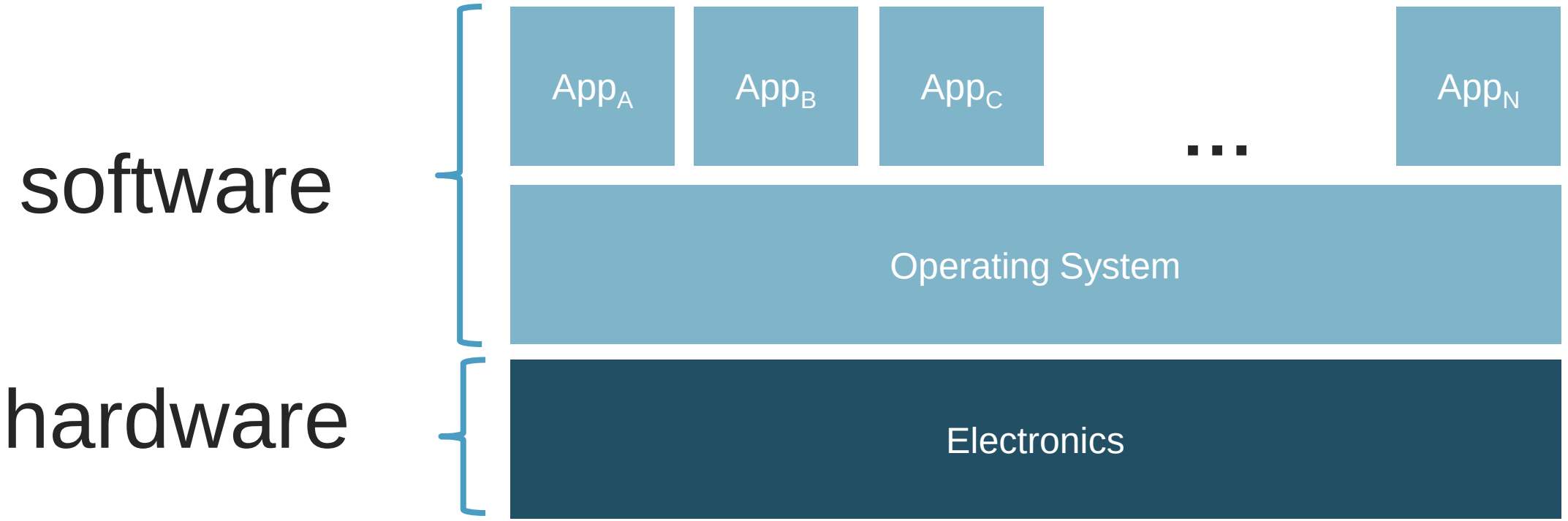
IoT Devices

THE INTERNET OF THINGS

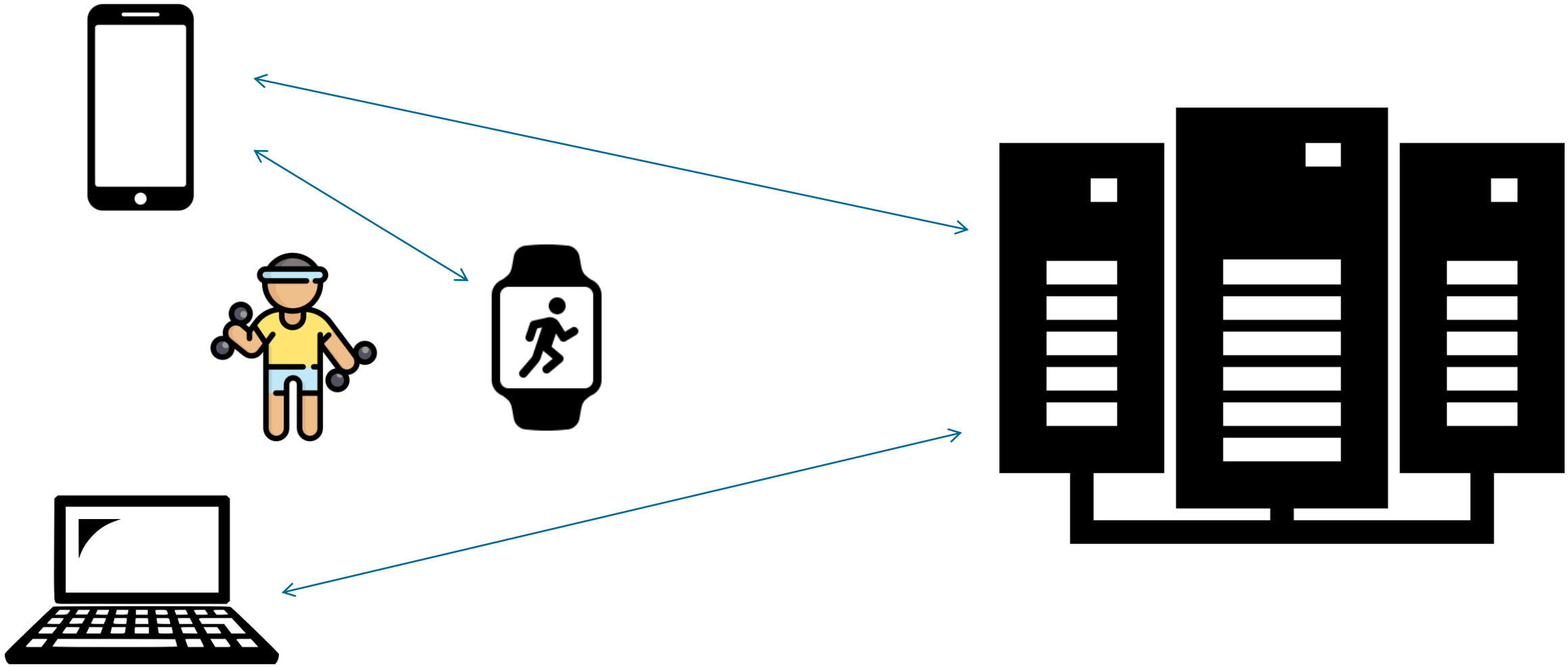
AN EXPLOSION OF CONNECTED POSSIBILITY



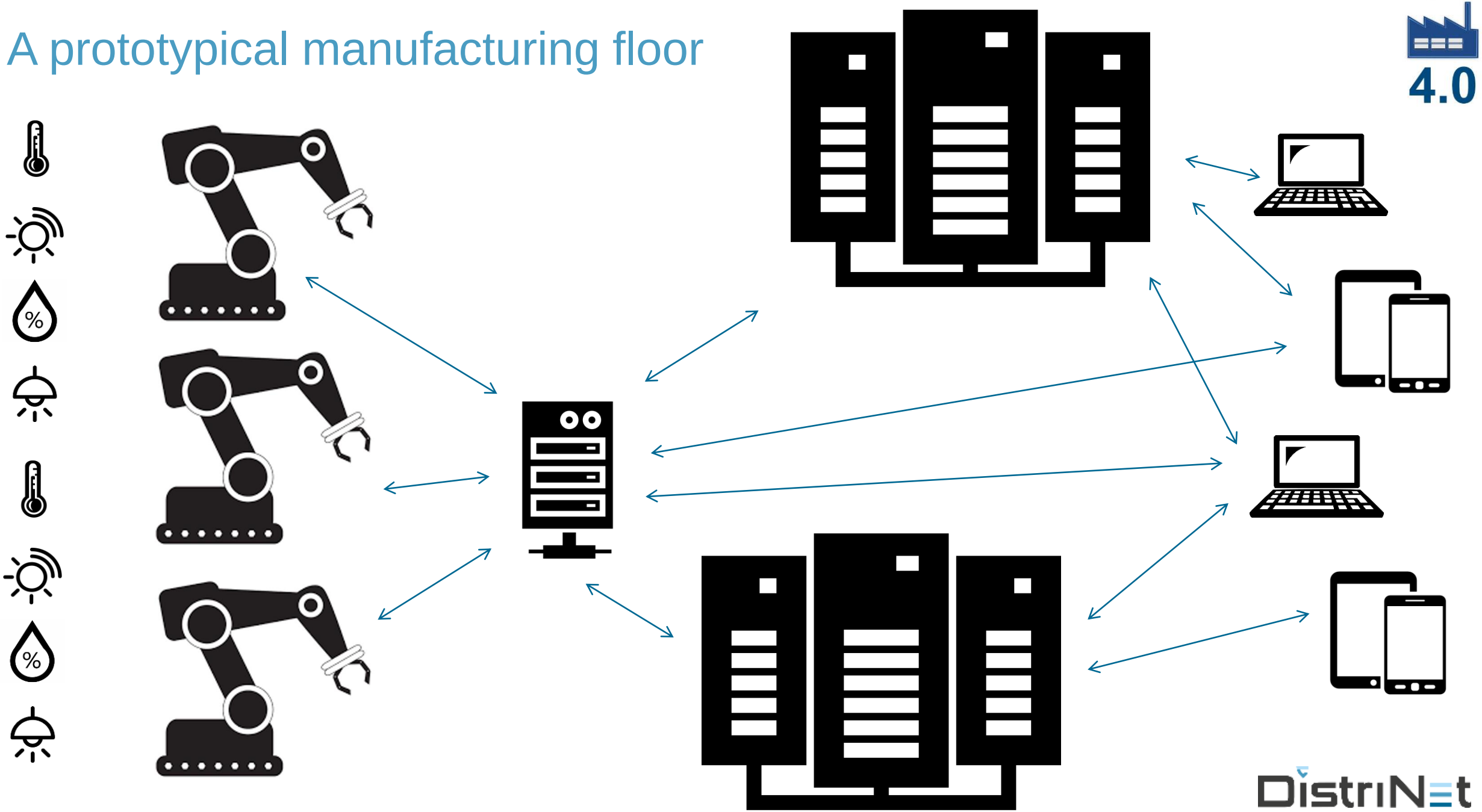
The Anatomy of a Computing System



The FitBit ecosystem

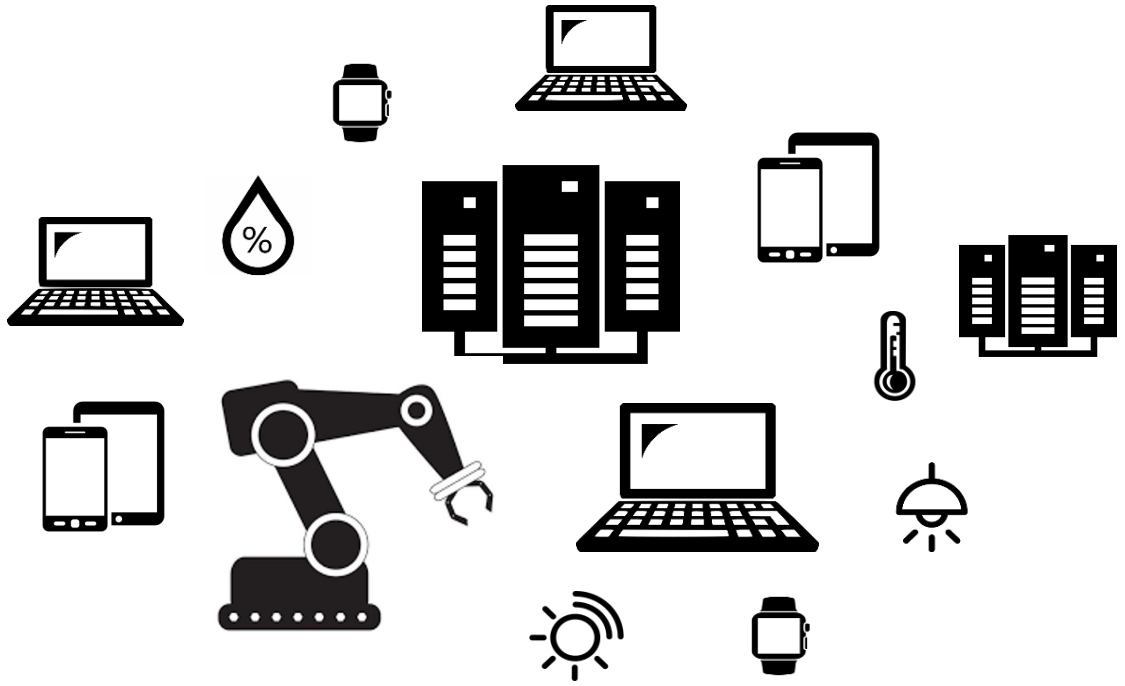


A prototypical manufacturing floor



Digital ecosystems are vulnerable

DistriNet



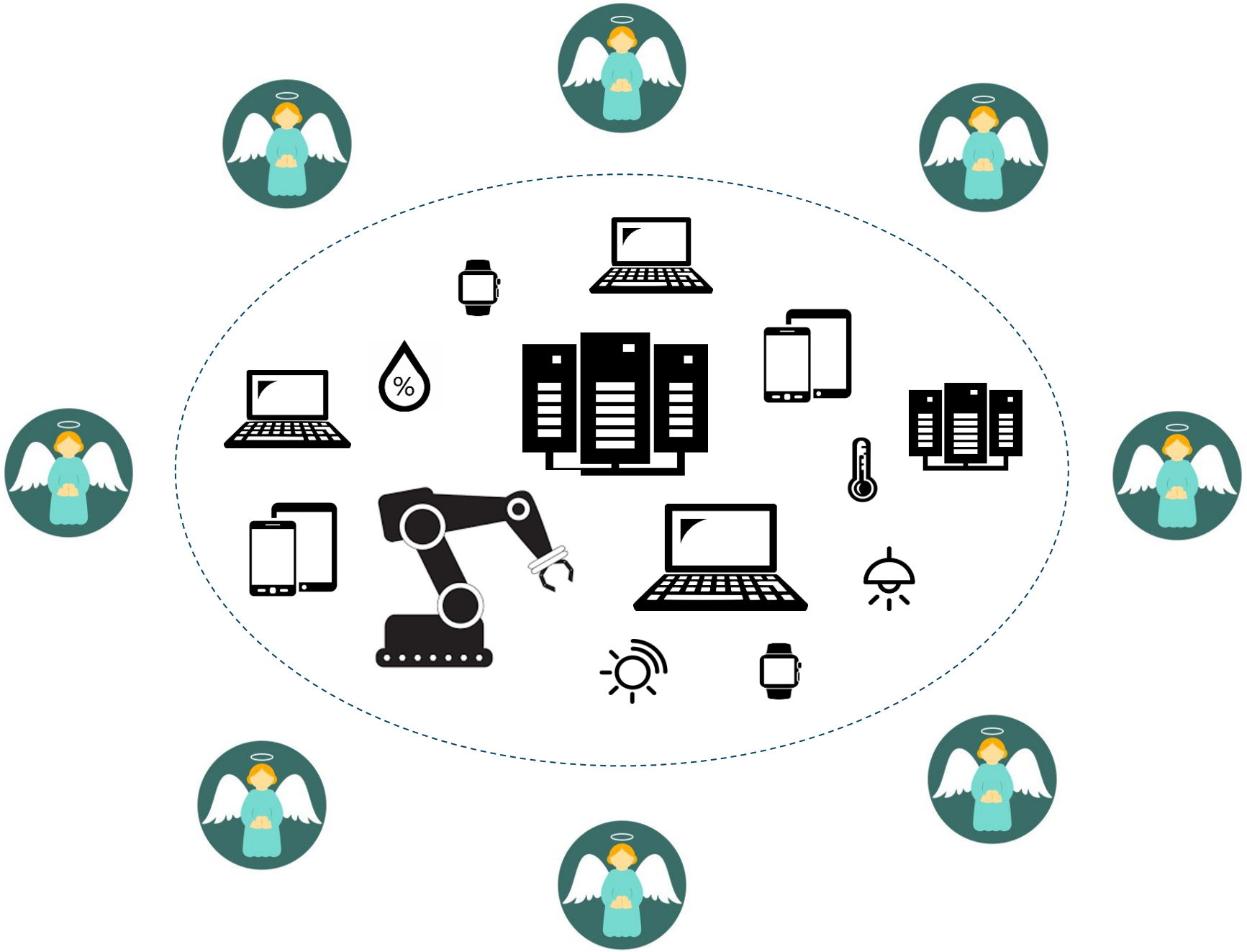
Analysis

Design

Implementation

Deployment

Usage



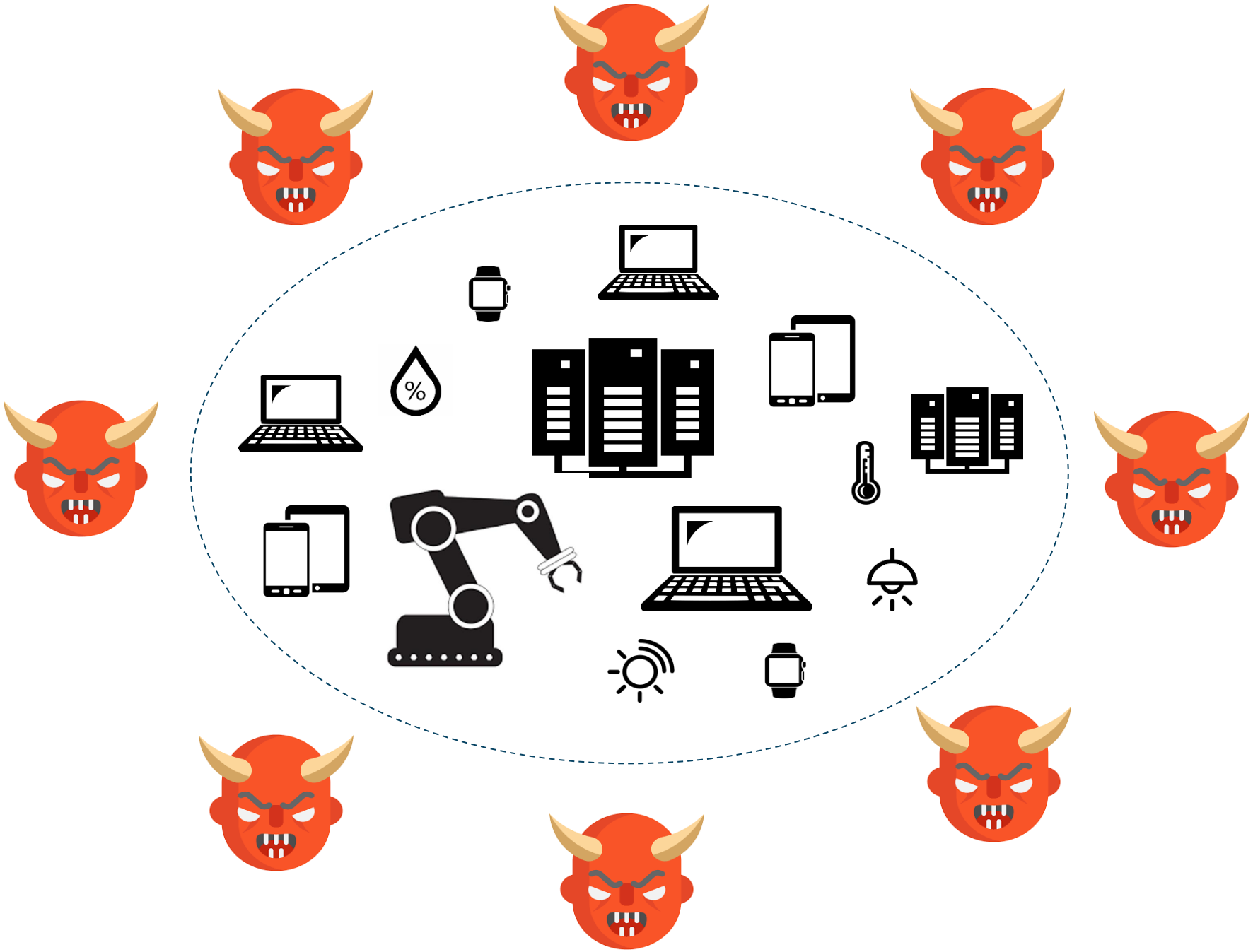
Analysis

Design

Implementation

Deployment

Usage



Analysis

Design

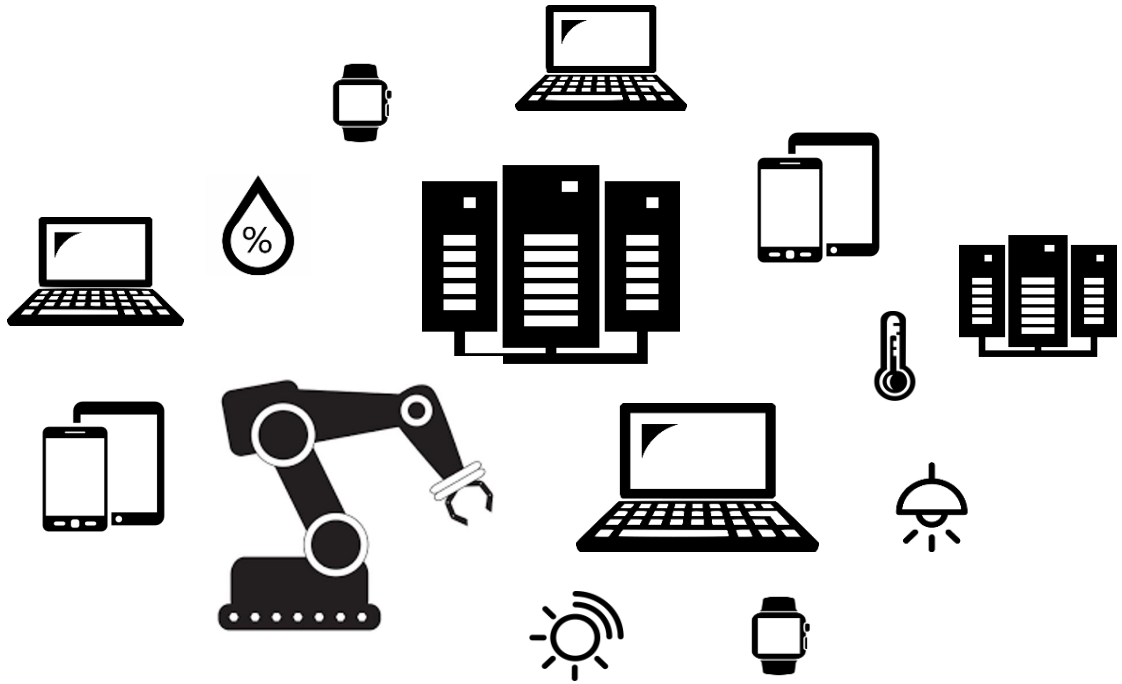
Implementation

Deployment

Usage


7ETV942


SPEED
LIMIT
35



Analysis

Design

Implementation

Deployment

Usage

Analysis

Design

Implementation

Deployment

Usage

Analysis

Design

Implementation

Deployment

Usage

#1	1234	10.713%
#2	1111	6.016%
#3	0000	1.881%
#4	1212	1.197%
#5	7777	0.745%
#6	1004	0.616%
#7	2000	0.613%
#8	4444	0.526%
#9	2222	0.516%
#10	6969	0.512%
#11	9999	0.451%
#12	3333	0.419%
#13	5555	0.395%
#14	6666	0.391%
#15	1122	0.366%
#16	1313	0.304%
#17	8888	0.303%
#18	4321	0.293%
#19	2001	0.290%
#20	1010	0.285%

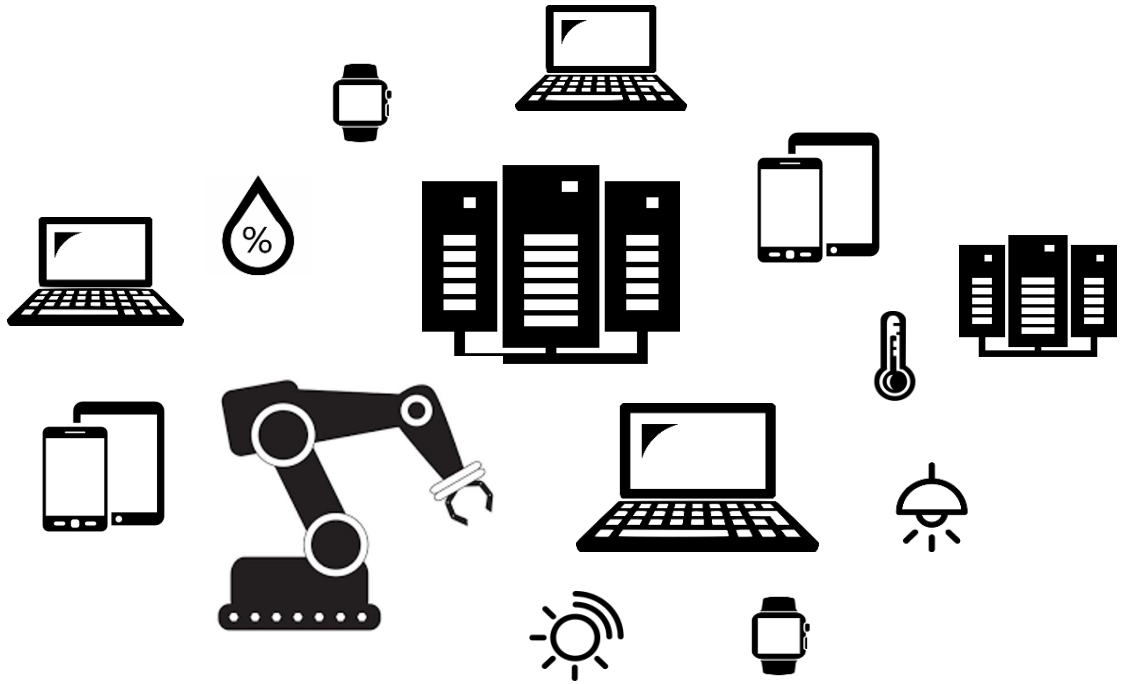
Analysis

Design

Implementation

Deployment

Usage



Analysis

Design

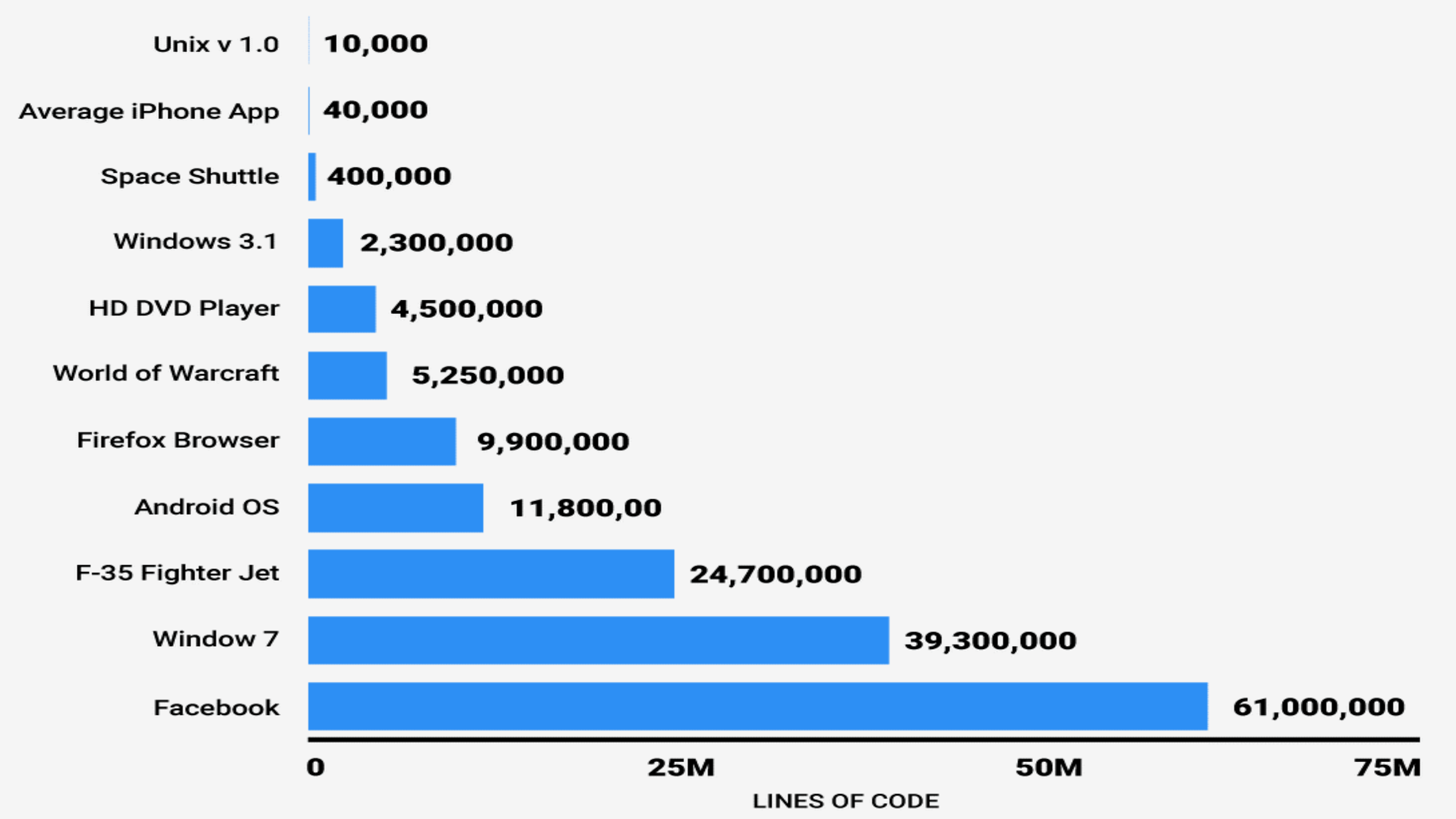
Implementation

Deployment

Usage

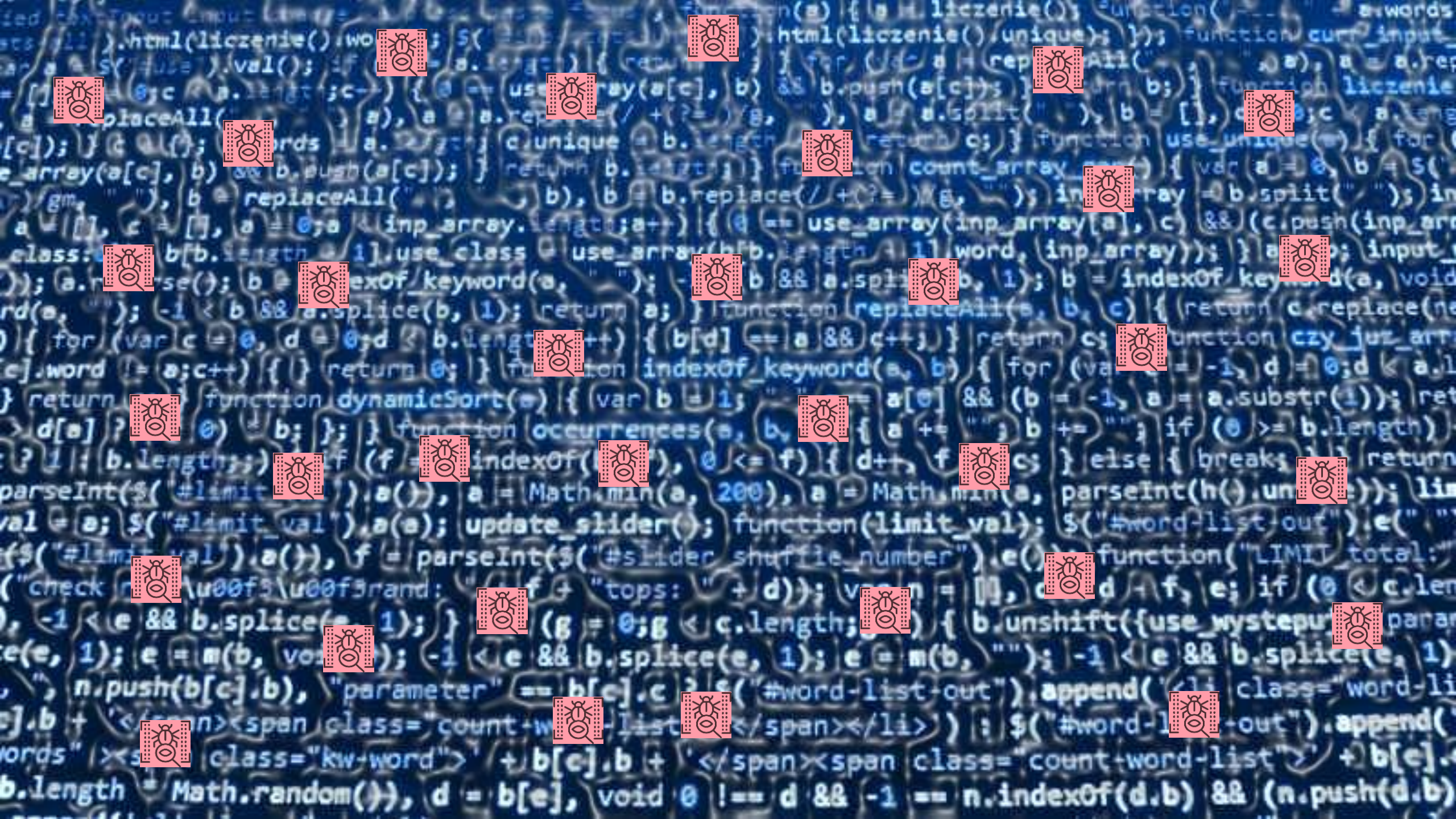
15 bugs per 1,000 lines of code make it to customers

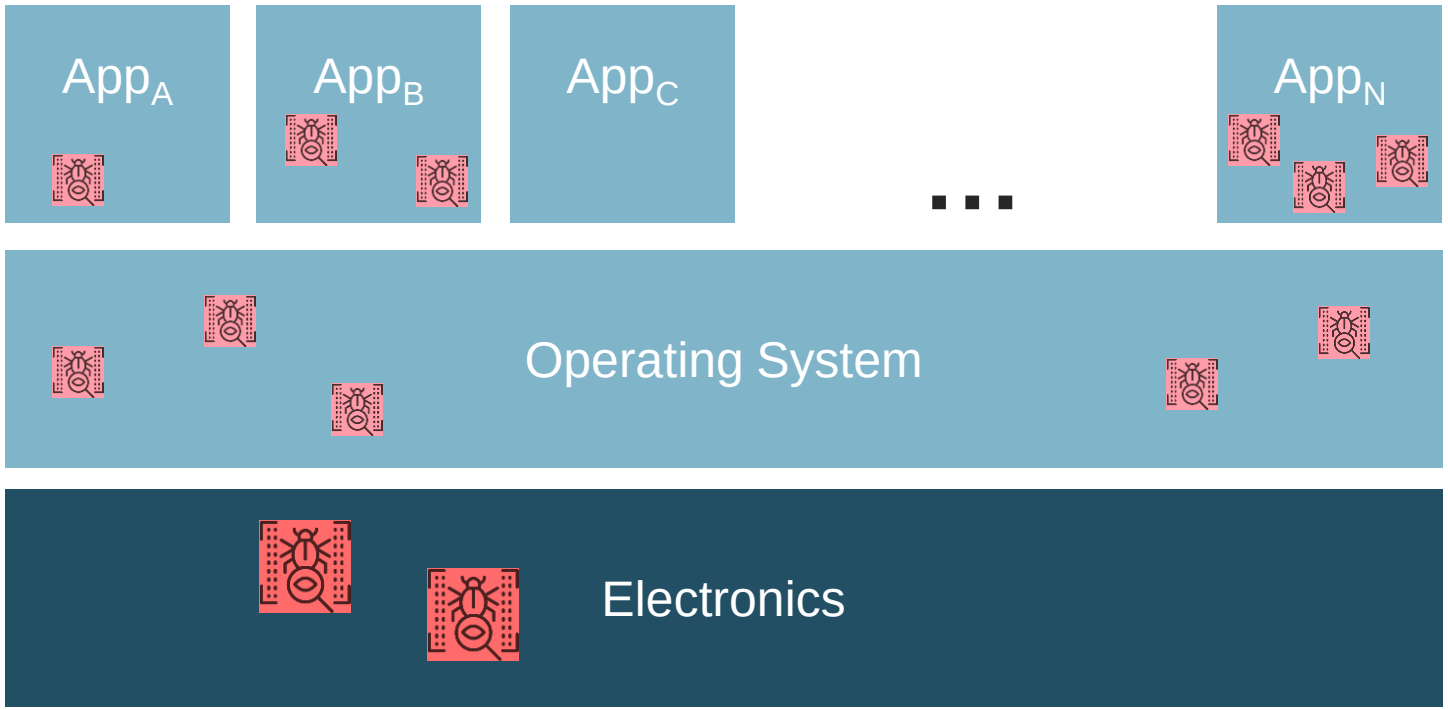
(that's bad)

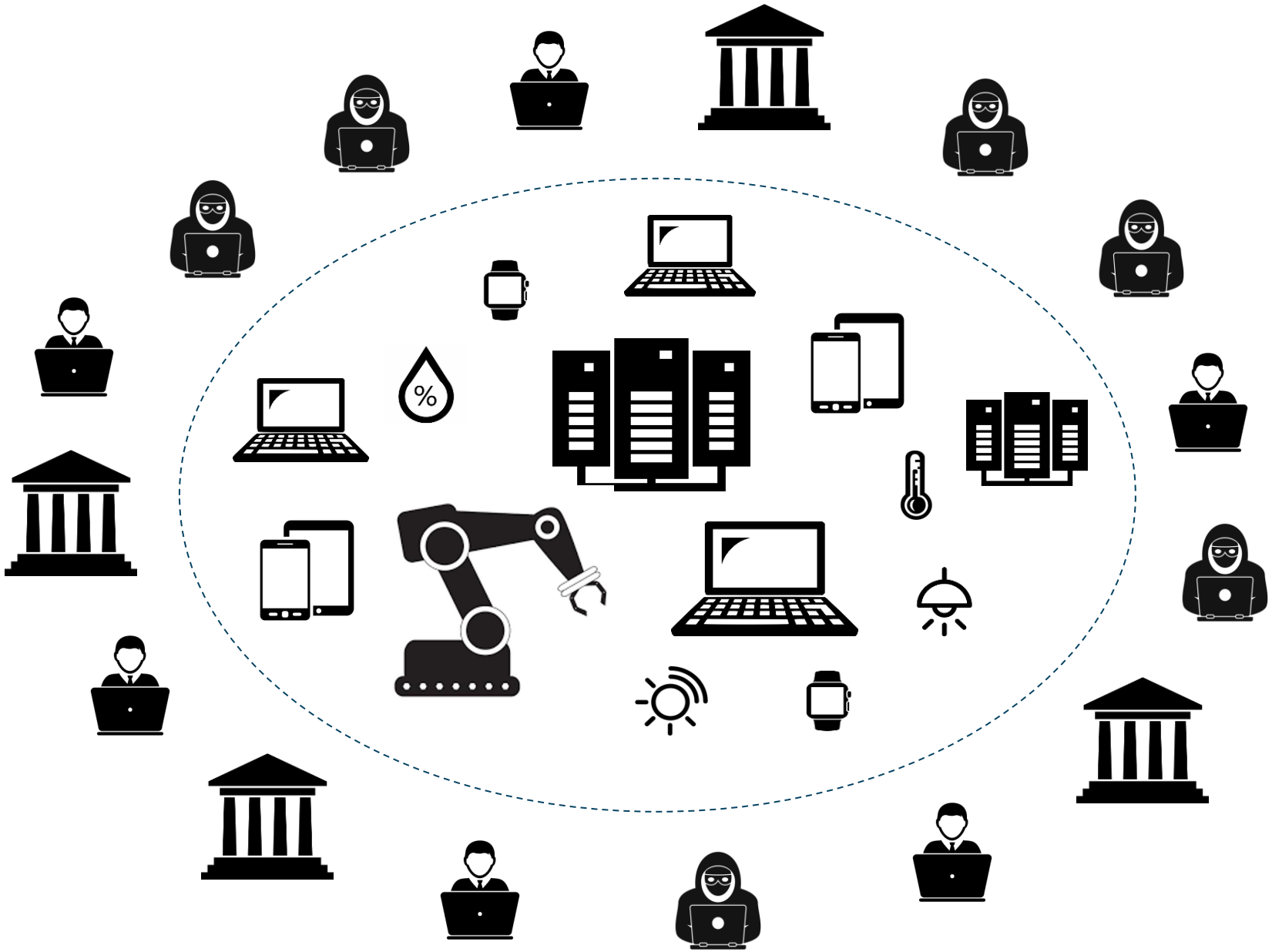

Unix v 1.0
10,000
Average iPhone App
40,000
Space Shuttle
400,000
Windows 3.1
2,300,000
HD DVD Player
4,500,000
World of Warcraft
5,250,000
Firefox Browser
9,900,000
Android OS
11,800,00
F-35 Fighter Jet
24,700,000
Window 7
39,300,000
Facebook
61,000,000
0
25M
50M
75M
LINES OF CODE

GUESS WHAT REQUIRES 150 MILLION LINES OF CODE....

DistriNet




App$_A$
App$_B$
App$_C$
...
App$_N$
Operating System
Electronics




CAVARICCI

Henry Holland

Henry Holland shows Vogue what he's wearing - every day for one month

DAY 11

DAY 12

DAY 12

Presidencia Española eu trío.es

A A A Contact

HOME | THE SPANISH PRESIDENCY | AGENDA | DOCUMENTS & NEWS | THE EUROP

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- The Spanish presidency
- Agenda
- Documents & News
- The European Union
- Spain in focus
- Press

TOP SEARCHES

Noticia UE Bruselas UE Política Presidencia Cultura Política Cultura

Resultados de búsqueda

¡¡ No se han encontrado Resultados !!

Error

org.opencms.search.CmsSearchException: Búsqueda de 'query:[


Diyarbakir
Gaziantep
Ar Raqqah
SYRIA
Damascus
Amman
Qom
IRAN
Dubai
مقام معظم رهبری:
انتقام سختی در انتظار جنایتکارانی است که دست پلید خود را به خون شهید سلیمانی و دیگر شهدای حادثه‌ی دیشب آلودند. او چهره‌ی بین المللی مقاومت است و همه‌ی دلبستگان مقاومت

Criminal organisations

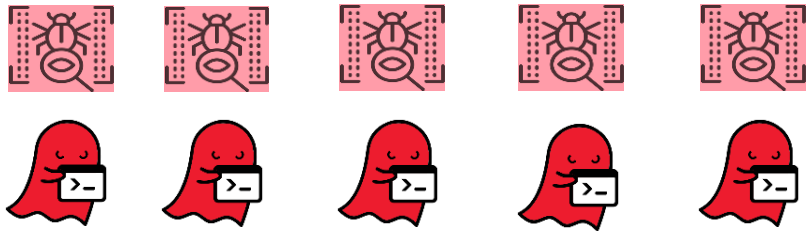
Security companies

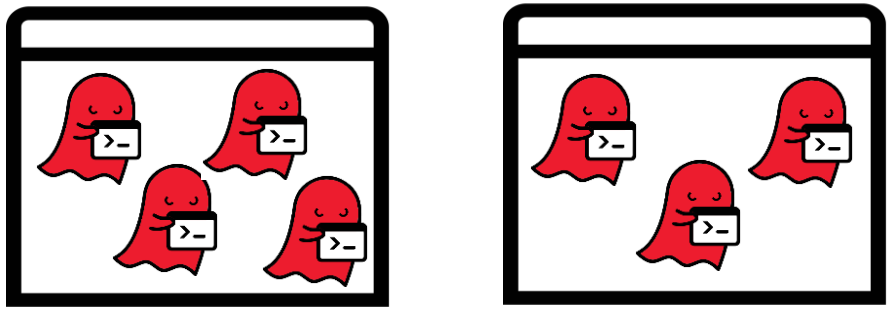
Governments

Criminal organisations

Security companies

Governments





QUICK SEARCH

Quick search offers... Sort

NOTIFICATION'S

Mail Box 0
Support Tickets 0
Vendor Dashboard 0
Buyer Dashboard 0
Autoshop 0
BTC Wallet 0
Affiliates 0
My Requests 0

BROWSE CATEGORIES

Access Autoshop 291
Fraud 251
Drugs & Chemicals 682
Porn & Erotica 61
Services 62
Guides & Tutorials 165
Counterfeit Items 120
Digital Products 65
Jewels & Gold 26
Software & Malware 57
> Exploits 21
> *Botnets & Malware* 16
> Security Software 20
> Other 0
Security & Hosting 66

*** Bitcoin Stealer 4.3 + Mass AddressGenerator ***
#507 | Sold by: YMarker | Category: Software & Malware » Botnets & Malware | Offer since: Nov 15, 2019 | Auto-dispatch:
Quantity left: *Unlimited*
Views: 1852
Purchase: 42
Offer Class: Digital
Origin Country: Worldwide
Ships To: Worldwide
Payment type: Escrow
- 4 reviews (100.00%)
USD 4.10
(0.00042)

★★★ CARDER'S ULTIMATE PACK★★★
#515 | Sold by: YMarker | Category: Software & Malware » Botnets & Malware | Offer since: Nov 15, 2019 | Auto-dispatch:
Quantity left: *Unlimited*
Views: 1576
Purchase: 101
Offer Class: Digital
Origin Country: Worldwide
Ships To: Worldwide
Payment type: Escrow
- 2 reviews (100.00%)
USD 5.99
(0.00061)

★ ZeuS Bot ★ Botnet & GUIDE 2020 ★
#516 | Sold by: YMarker | Category: Software & Malware » Botnets & Malware | Offer since: Nov 17, 2019 | Auto-dispatch:
Quantity left: *Unlimited*
Views: 1161
Purchase: 96
Offer Class: Digital
Origin Country: Worldwide
Ships To: Worldwide
Payment type: Escrow
- 2 reviews (100.00%)
USD 7.00
(0.00072)

DROID JACK Andriod RAT
#510 | Sold by: YMarker | Category: Software & Malware » Botnets & Malware | Offer since: Nov 15, 2019 | Auto-dispatch:
Quantity left: *Unlimited*
Views: 850
Purchase: 92
Offer Class: Digital
Origin Country: Worldwide
Ships To: Worldwide
Payment type: Escrow
- 1 reviews (100.00%)
USD 1.99
(0.00020)

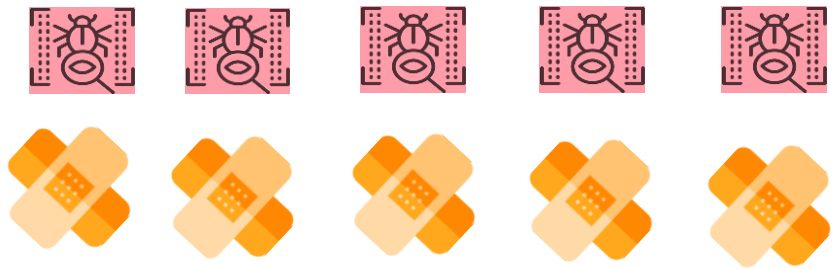
The Ultimate Blackmail Bitcoin Ransomware
#506 | Sold by: YMarker | Category: Software & Malware » Botnets & Malware | Offer since: Nov 15, 2019 | Auto-dispatch:
Quantity left: *Unlimited*
Views: 1528
Purchase: 50
Offer Class: Digital
Origin Country: Worldwide
Ships To: Worldwide
Payment type: Escrow
- 1 reviews (100.00%)
USD 4.99
(0.00051)

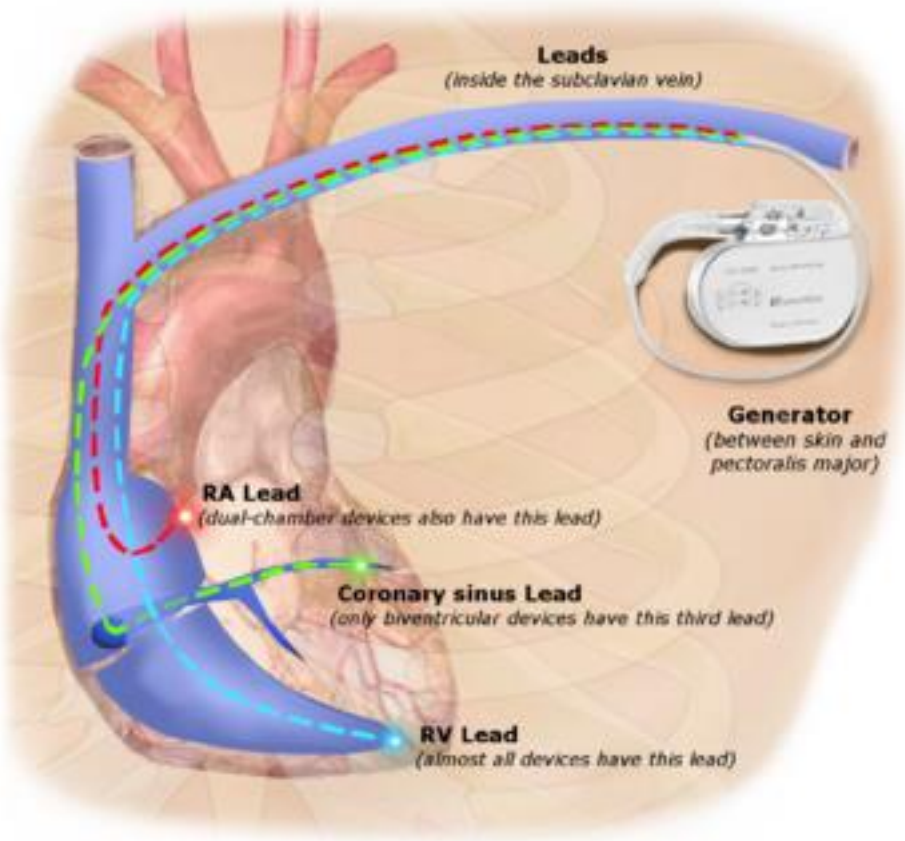
HACK MEGA PACK: RATS, KEYLOGGER, CRACKS MORE
#503 | Sold by: YMarker | Category: Software & Malware » Botnets & Malware | Offer since: Nov 15, 2019 | Auto-dispatch:
Quantity left: *Unlimited*
Views: 1509
Purchase: 99
Offer Class: Digital
Origin Country: Worldwide
Ships To: Worldwide
Payment type: Escrow
- 0 reviews (100%)
USD 5.99
(0.00061)

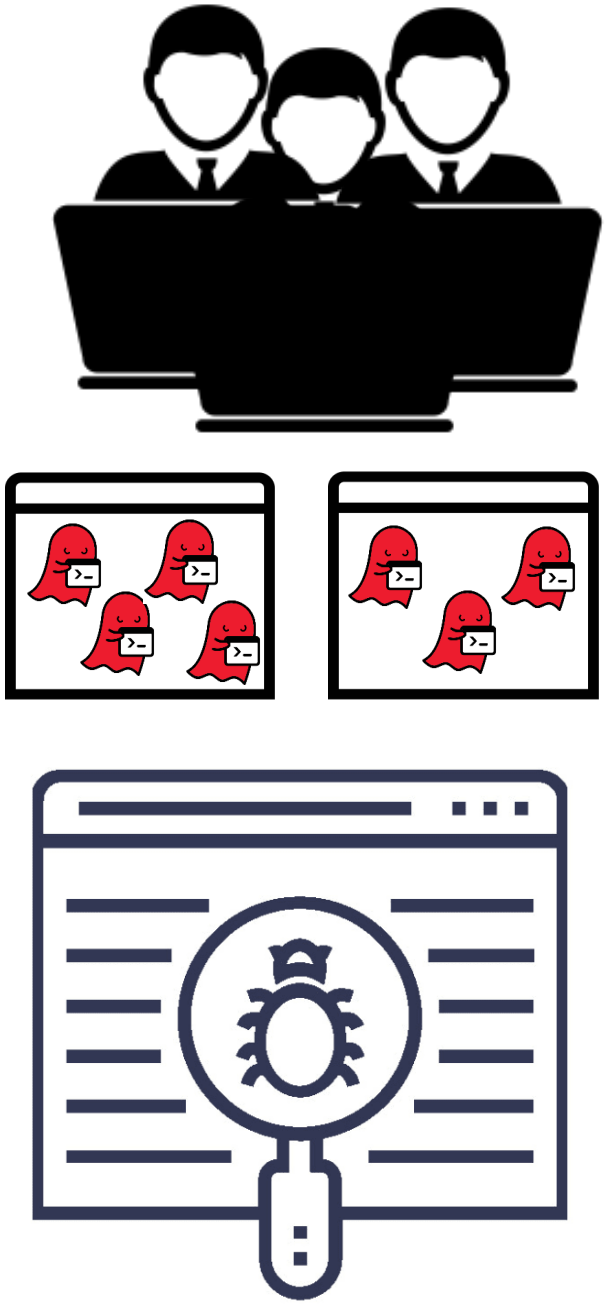
Criminal organisations

Security companies

Governments




Leads
(inside the subclavian vein)
Generator
(between skin and pectoralis major)
RA Lead
(dual-chamber devices also have this lead)
Coronary sinus Lead
(only biventricular devices have this third lead)
RV Lead
(almost all devices have this lead)



Criminal organisations

Security companies

Governments

China has started ranking citizens with a creepy 'social credit' system — here's what you can do wrong, and the embarrassing, demeaning ways they can punish you

- Bad driving
- Smoking in non-smoking zones
- Playing too many Video games
- Frivolous purchases
- Postings on Social media

1. Banning you from flying or getting the train.
2. Throttling your internet speeds.
3. Banning you — or your kids — from the best schools.
4. Stopping you getting the best jobs.
5. Keeping you out of the best hotels.
6. Getting your dog taken away.

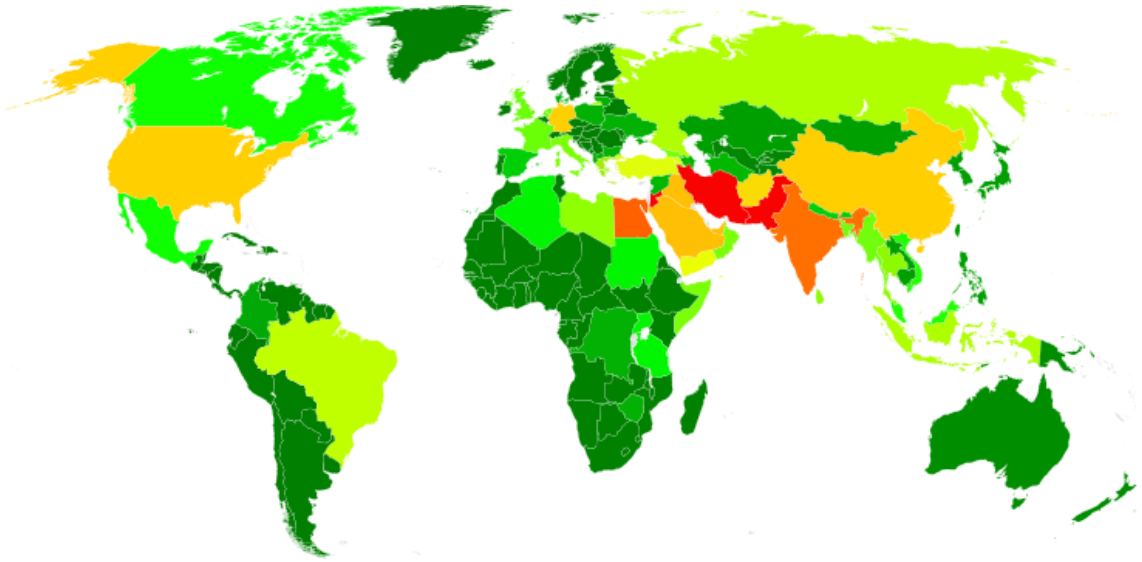

HUAWEI
US
BAN


NAL SEC
ITY AGE

Example: National Security Agency (NSA)

Mission Statement

The National Security Agency/Central Security Service (NSA/CSS) leads the U.S. Government in cryptology that encompasses both Signals Intelligence (SIGINT) and Information Assurance (IA) products and services, and enables Computer Network Operations (CNO) in order to gain a decision advantage for the Nation and our allies under all circumstances.



(TS//SI//NF) PRISM Collection Details

Current Providers

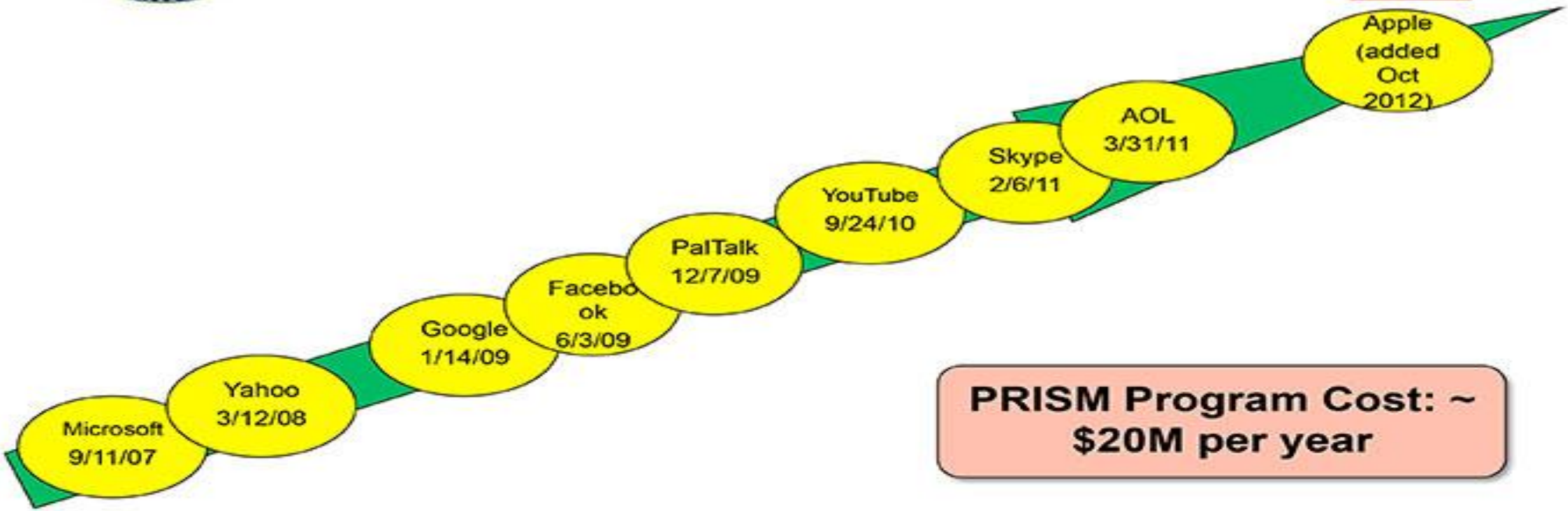
- Microsoft (Hotmail, etc.)
- Google
- Yahoo!
- Facebook
- PalTalk
- YouTube
- Skype
- AOL
- Apple

What Will You Receive in Collection (Surveillance and Stored Comms)? It varies by provider. In general:

- E-mail
- Chat – video, voice
- Videos
- Photos
- Stored data
- VoIP
- File transfers
- Video Conferencing
- Notifications of target activity – logins, etc.
- Online Social Networking details
- **Special Requests**

Complete list and details on PRISM web page:
Go PRISMFAA

(TS//SI//NF) Dates When PRISM Collection Began For Each Provider



PRISM Program Cost: ~ $20M per year

Regering wil ook communicatiediensten als WhatsApp verplichten om gegevens te bewaren

Swiss Crypto AG spying scandal shakes reputation for neutrality

By Imogen Foulkes
BBC News, Bern

16 February 2020

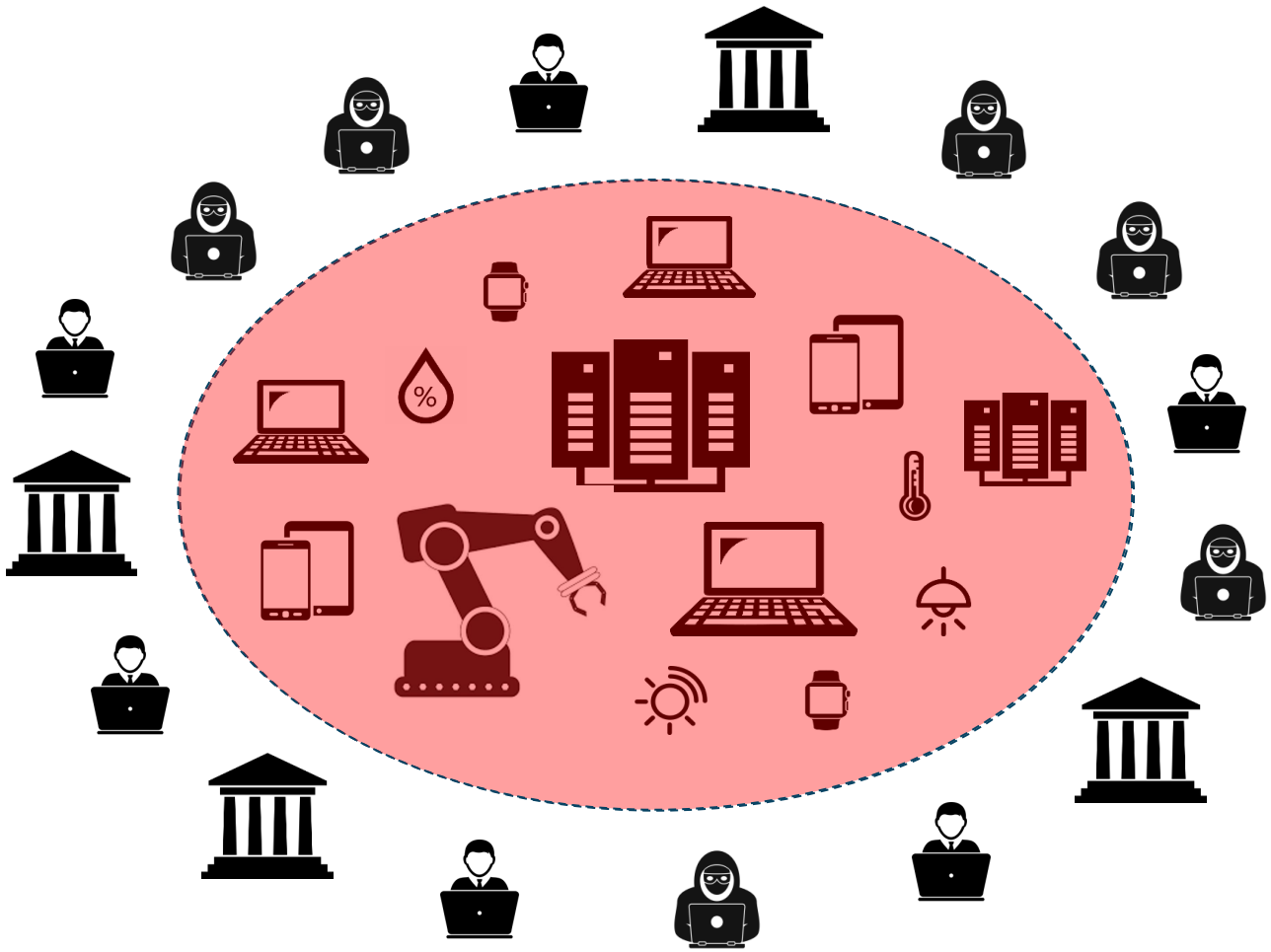
Has the Crypto AG scandal shattered Swiss neutrality?

NSA spying row: Denmark accused of helping US spy on European officials

31 May

REUTERS

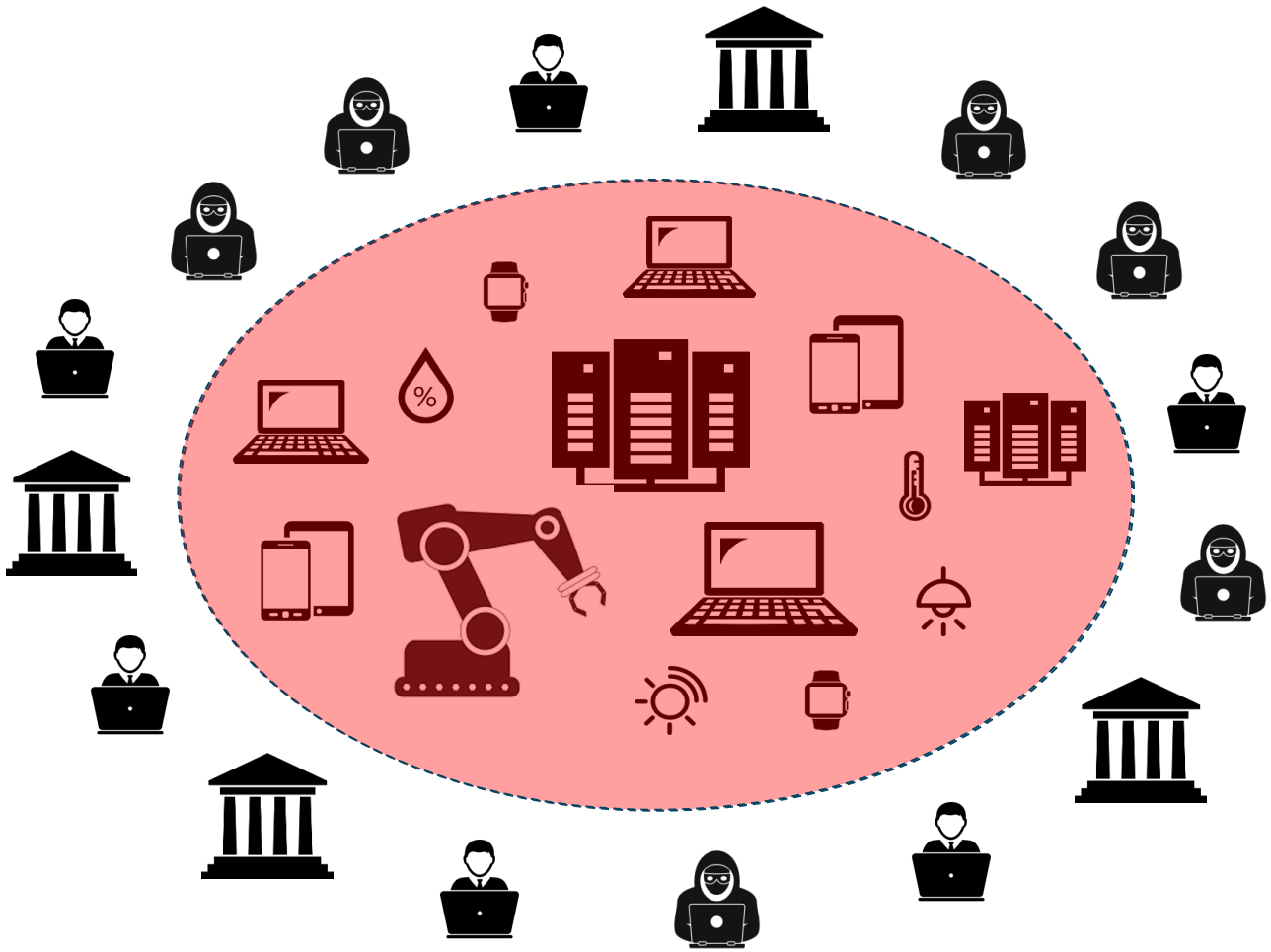
Angela Merkel was allegedly targeted by US intelligence



Retrieving sensitive data

Disrupting systems

Hijacking infrastructure



Retrieving sensitive data

Disrupting systems

Hijacking infrastructure

The internet's undersea world

The vast majority of the world's communications are not carried by satellites but an altogether older technology: cables under the earth's oceans. As a ship accidentally wipes out Asia's net access, this map shows how we rely on collections of wires of less than 10cm diameter to link us all together

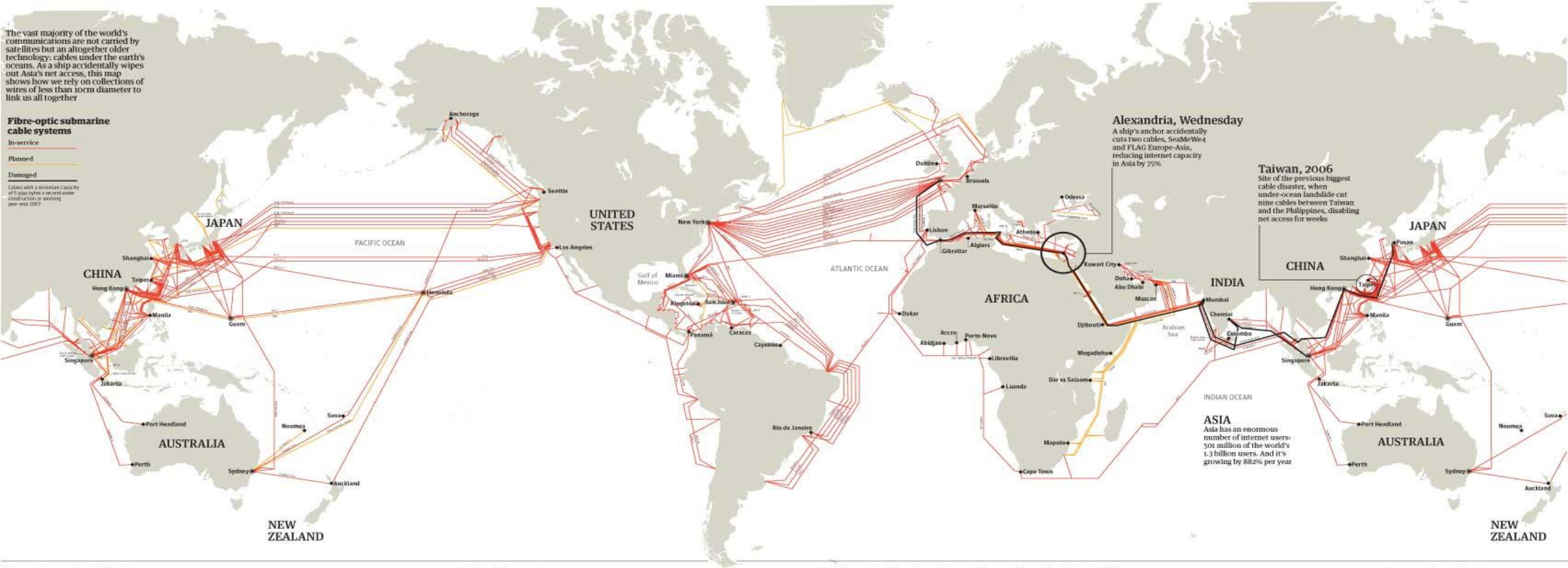
Fibre-optic submarine cable systems

In-service

Planned

Damaged

Cables with a minimum capacity of 5 giga bytes a second under construction or working year-end 2007



Alexandria, Wednesday

A ship's anchor accidentally cuts two cables, SeaMeWe4 and FLAG Europe-Asia, reducing internet capacity in Asia by 75%

Taiwan, 2006

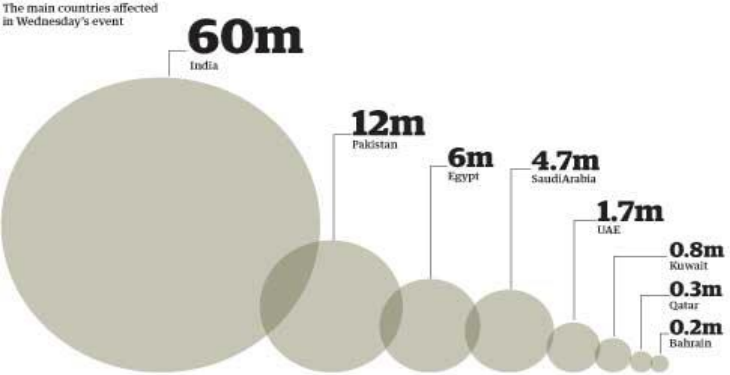
Site of the previous biggest cable disaster, when under-ocean landslide cut nine cables between Taiwan and the Philippines, disabling net access for weeks

ASIA

Asia has an enormous number of internet users: 501 million of the world's 1.3 billion users. And it's growing by 882% per year

Internet users affected by the Alexandria accident

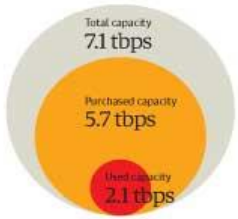
The main countries affected in Wednesday's event



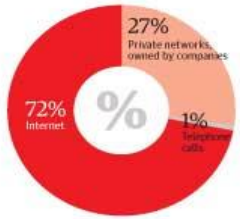
World cable capacity

Submarine cable operators light (turn on) capacity on their systems to sell bandwidth to other carriers. Carriers buy extra capacity, mainly to hold in reserve. On the trans-Atlantic route 80% of the bandwidth is purchased, but only 29% is used

Capacity in terabytes a second



What makes up "used capacity"?



The longest submarine cables

The SeaMeWe-3 system from Norden in Germany to Keoje, South Korea connects 32 different countries with 39 landing points

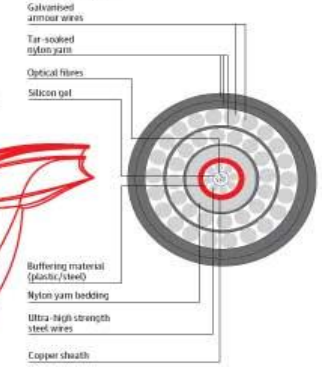
SeaMeWe-3	39,000 km
Southern Cross	30,500 km
China-US	30,476 km
FLAG Europe-Asia	28,000 km
South America-1	25,000 km

The world's cables in bandwidth

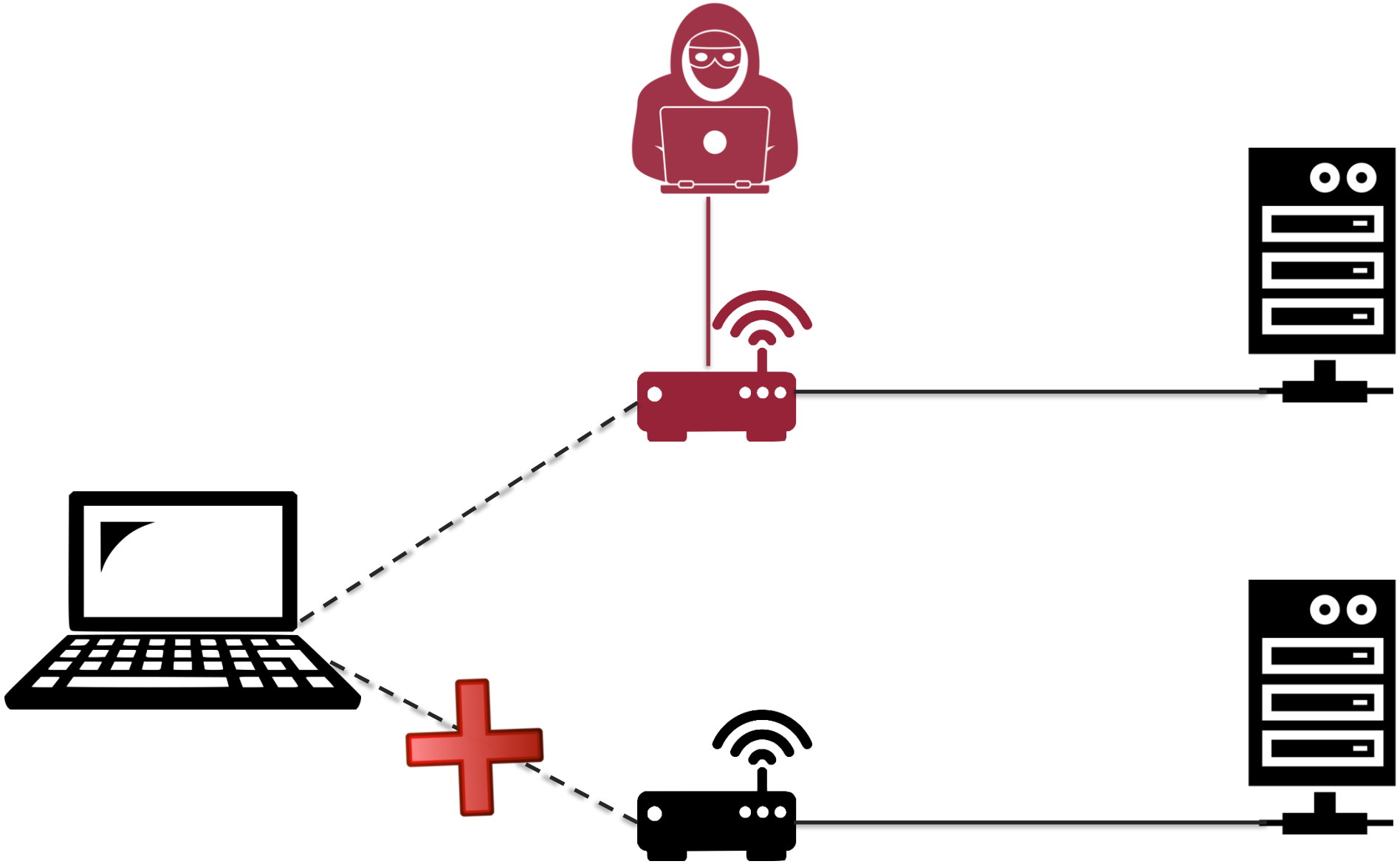
The first intercontinental telephony submarine cable system, TAT-1, connected North America to Europe in 1958 and had an initial capacity of 640,000 bytes per second. Since then, total trans-Atlantic cable capacity has soared to over 7 trillion bps

Cross-section of a cable

Cables of this strength are typically 69 mm in diameter and weigh over 10,000 kilograms a kilometer. In deeper waters, lighter and less insulated cables are used



SOURCE: TELEGEOGRAPHY.COM SUBMARINE CABLE MAP 2008 INTERNET STATISTICS FROM INTERNETWORLDSTATS.COM



Hackers stole millions of Facebook users' highly sensitive data — and the FBI has asked it not to say who might be behind it

Data stolen from hundreds of thousands of British Airways customers in major breach

Here's how to check if you were one of the 500 million customers affected by the Marriott hack

Retrieving sensitive data

Disrupting systems

Hijacking infrastructure

Retrieving sensitive data

Disrupting systems

Hijacking infrastructure

Retrieving sensitive data

Disrupting systems

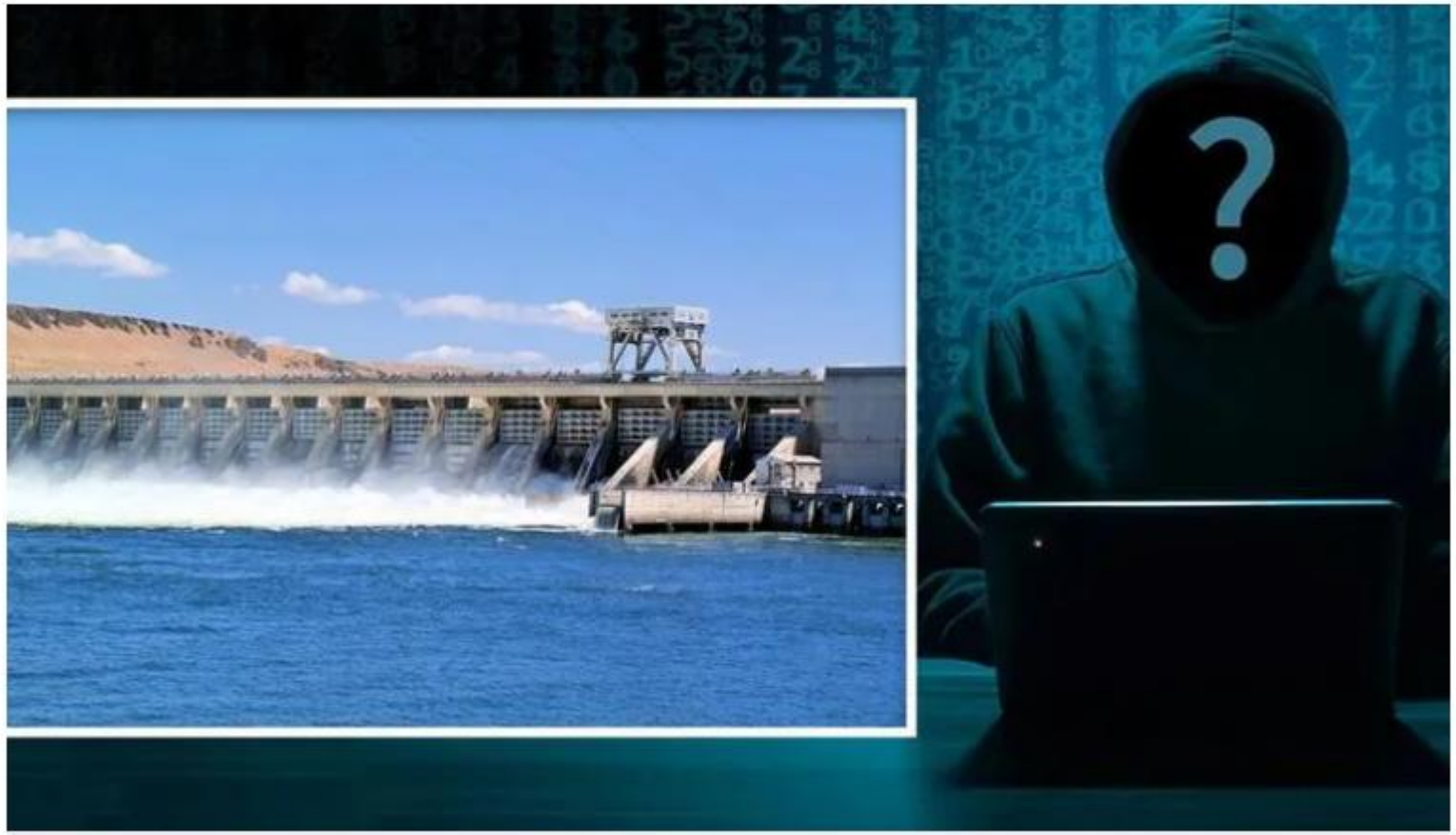
Hijacking infrastructure

Last Updated: 21st June, 2021 10:16 IST

Water Treatment Plant Vulnerable To Hack Attacks Directed Towards Bay Area: FBI Report

In January, a hacker tried to poison a water treatment plant that served parts of the San Francisco Bay Area, used username and password of a former employee

Written By Vidyashree S



Credit: PIXABAY

Retrieving sensitive data

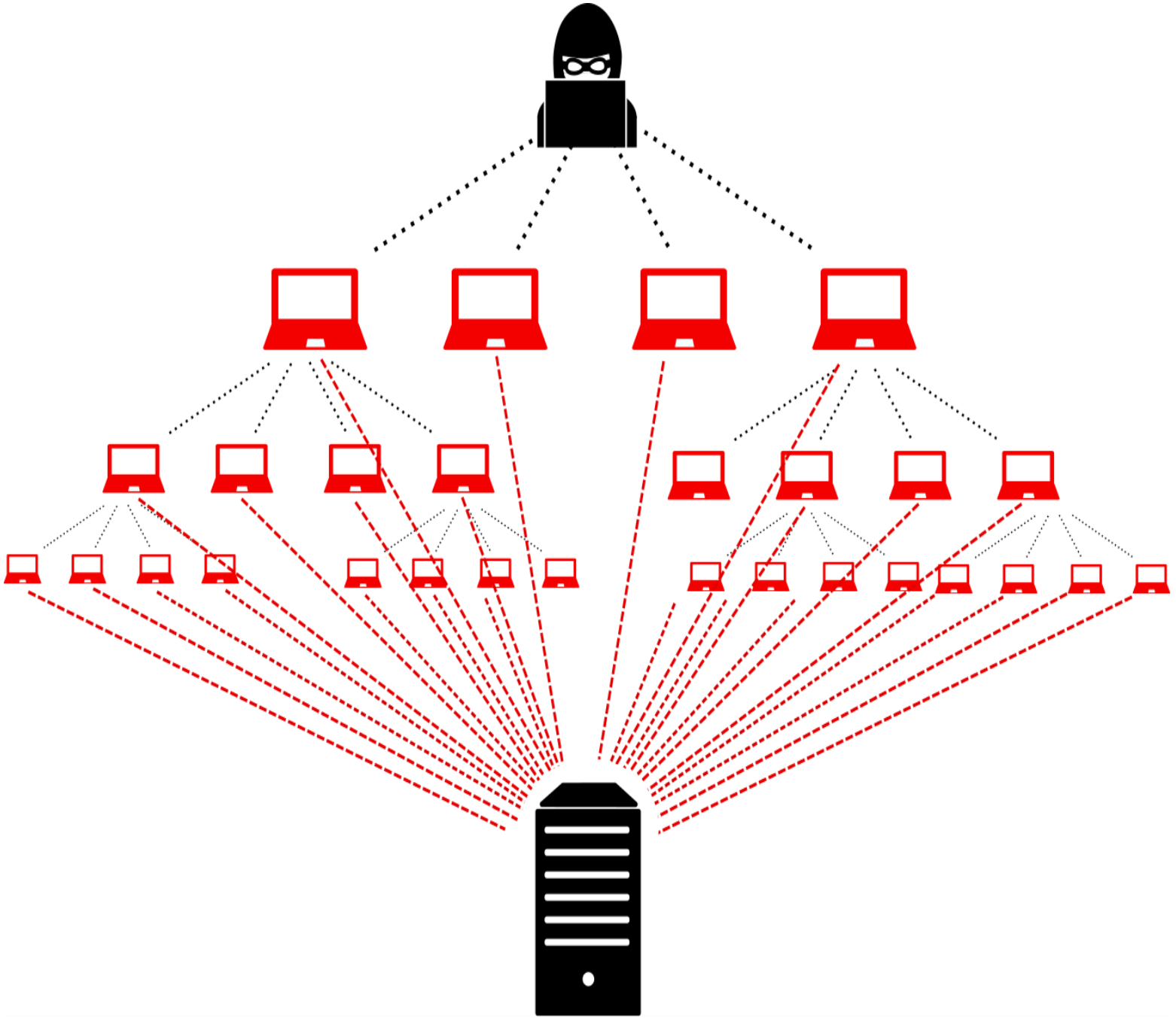
Disrupting systems

Hijacking infrastructure

Retrieving sensitive data

Disrupting systems

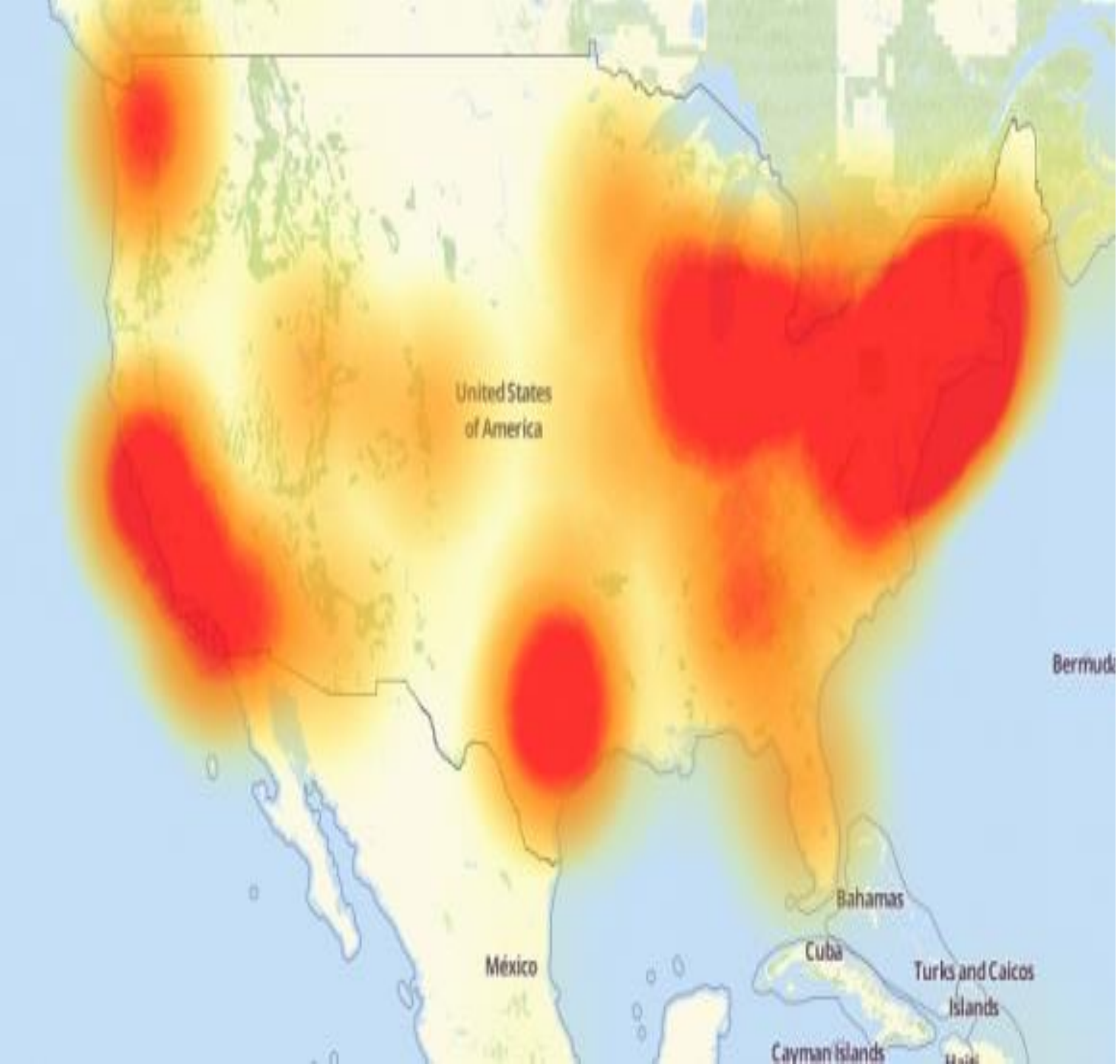
Hijacking infrastructure



Retrieving sensitive data

Disrupting systems

Hijacking infrastructure



Retrieving sensitive data

Disrupting systems

Hijacking infrastructure

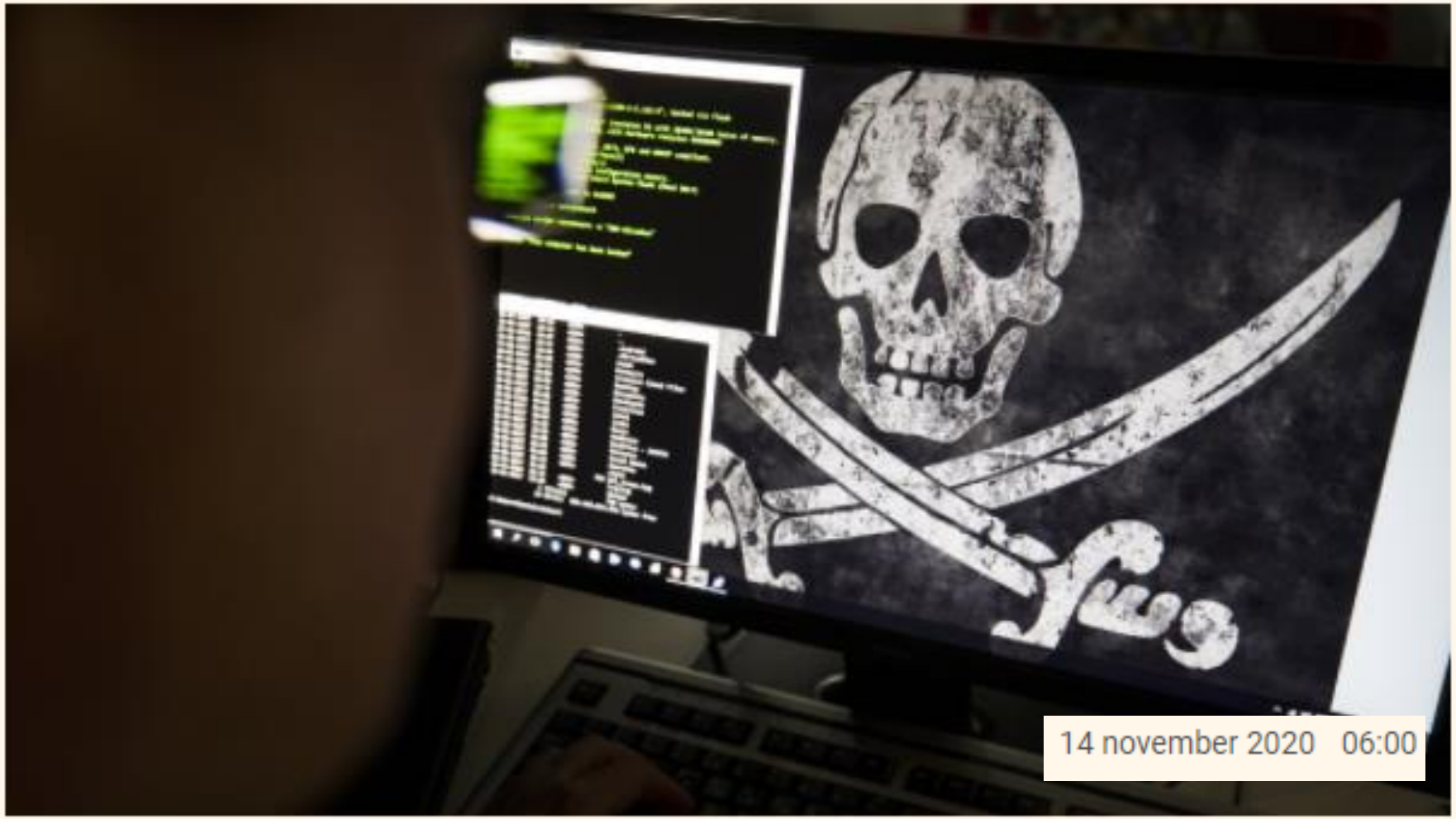
Retrieving sensitive data

Disrupting systems

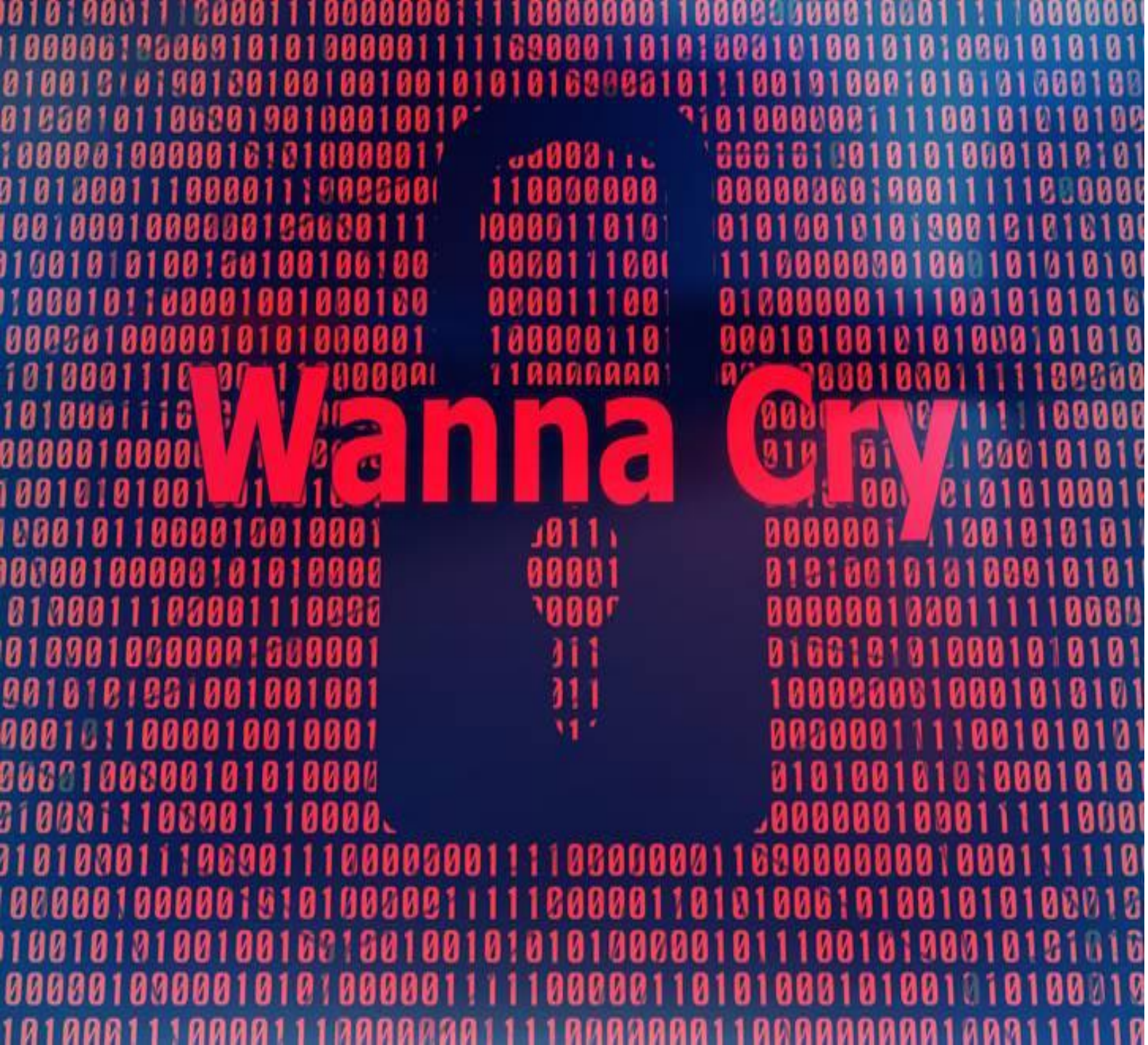
Hijacking infrastructure

Bedrijven betalen hackers 100 miljoen euro losgeld

DE TIJD



14 november 2020 06:00

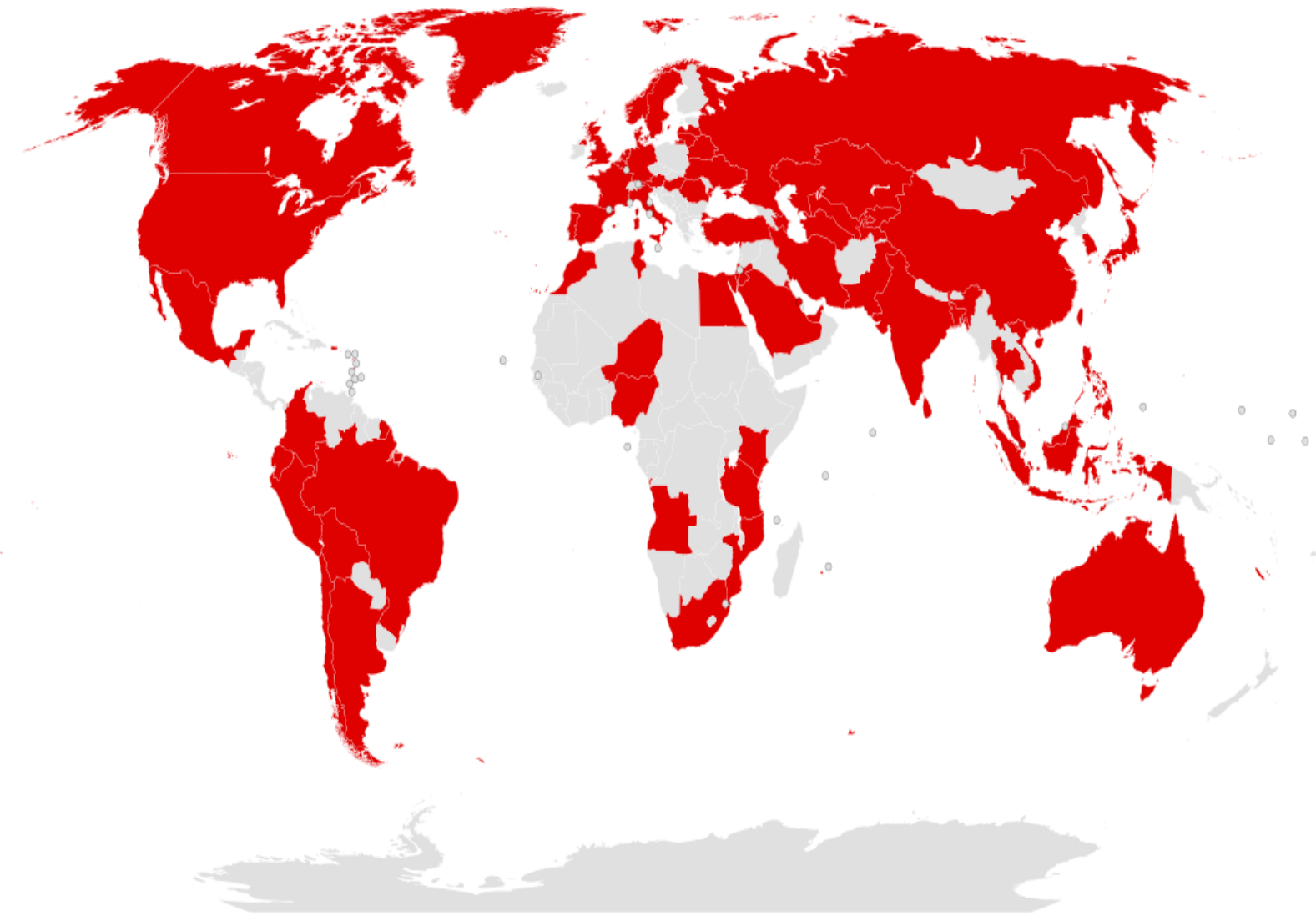


Retrieving sensitive data

Disrupting systems

Hijacking infrastructure

12 mei 2017



>230.000 infected computers
in 150 countries

Retrieving sensitive data

Disrupting systems

Hijacking infrastructure

Step 2

Step 1

Retrieving sensitive data

Disrupting systems

Hijacking infrastructure

Photographer: Samuel Corum/Bloomberg

Cybersecurity

Hackers Breached Colonial Pipeline Using Compromised Password

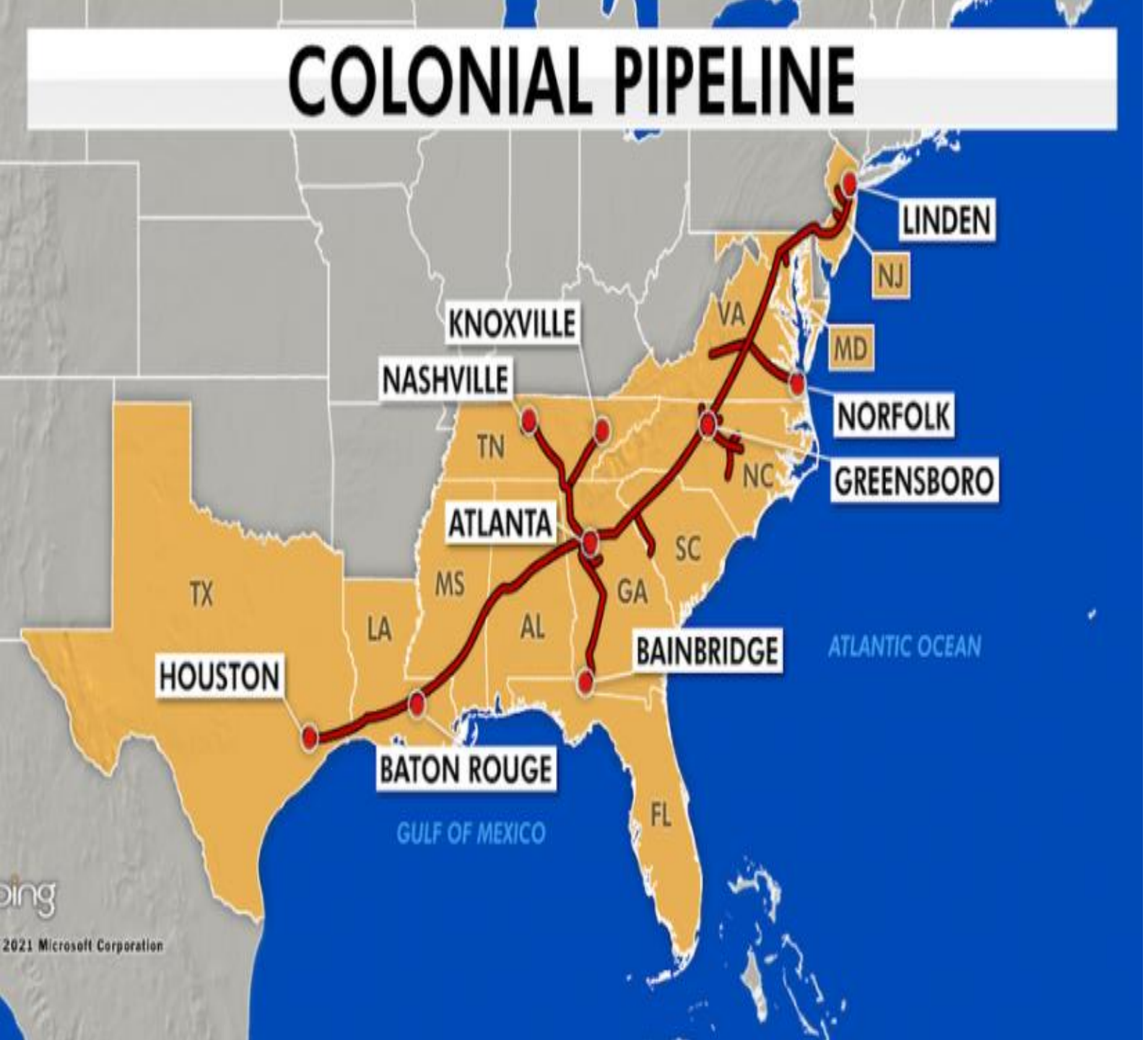
By William Turton and Kartikay Mehrotra

4 juni 2021 21:58 CEST

Retrieving sensitive data

Disrupting systems

Hijacking infrastructure



Retrieving sensitive data

Disrupting systems

Hijacking infrastructure

By Xinhua

Published: May 13, 2021 12:43 AM

Cars line up at a Costco gasoline station on Wednesday in Atlanta, Georgia due to an expected gasoline shortage after Georgia-based gas company Colonial Pipeline reported a ransomware attack on May 7. Photo: Xinhua

Retrieving sensitive data

Disrupting systems

Hijacking infrastructure

Business and Economy Updates >

Colonial Pipeline paid 75 Bitcoin, or roughly $5 million, to hackers.

Retrieving sensitive data

Disrupting systems

Hijacking infrastructure

How A New Team Of Feds Hacked The Hackers And Got Colonial Pipeline's Ransom Back

June 8, 2021 · 2:08 AM ET

VANESSA ROMO

Retrieving sensitive data

Disrupting systems

Hijacking infrastructure

Bitcoin sinks after Colonial Pipeline ransom recovery

The recovery of nearly all of the Bitcoin ransom paid to Colonial Pipeline hackers is undermining the perception that Bitcoin is beyond the control of any government.

Retrieving sensitive data

Disrupting systems

Hijacking infrastructure

Iraanse bitcoins hullen Teheran in smog

De Iraanse hoofdstad Teheran verdwijnt onder een dikke deken van smog. ©AFP

Retrieving sensitive data

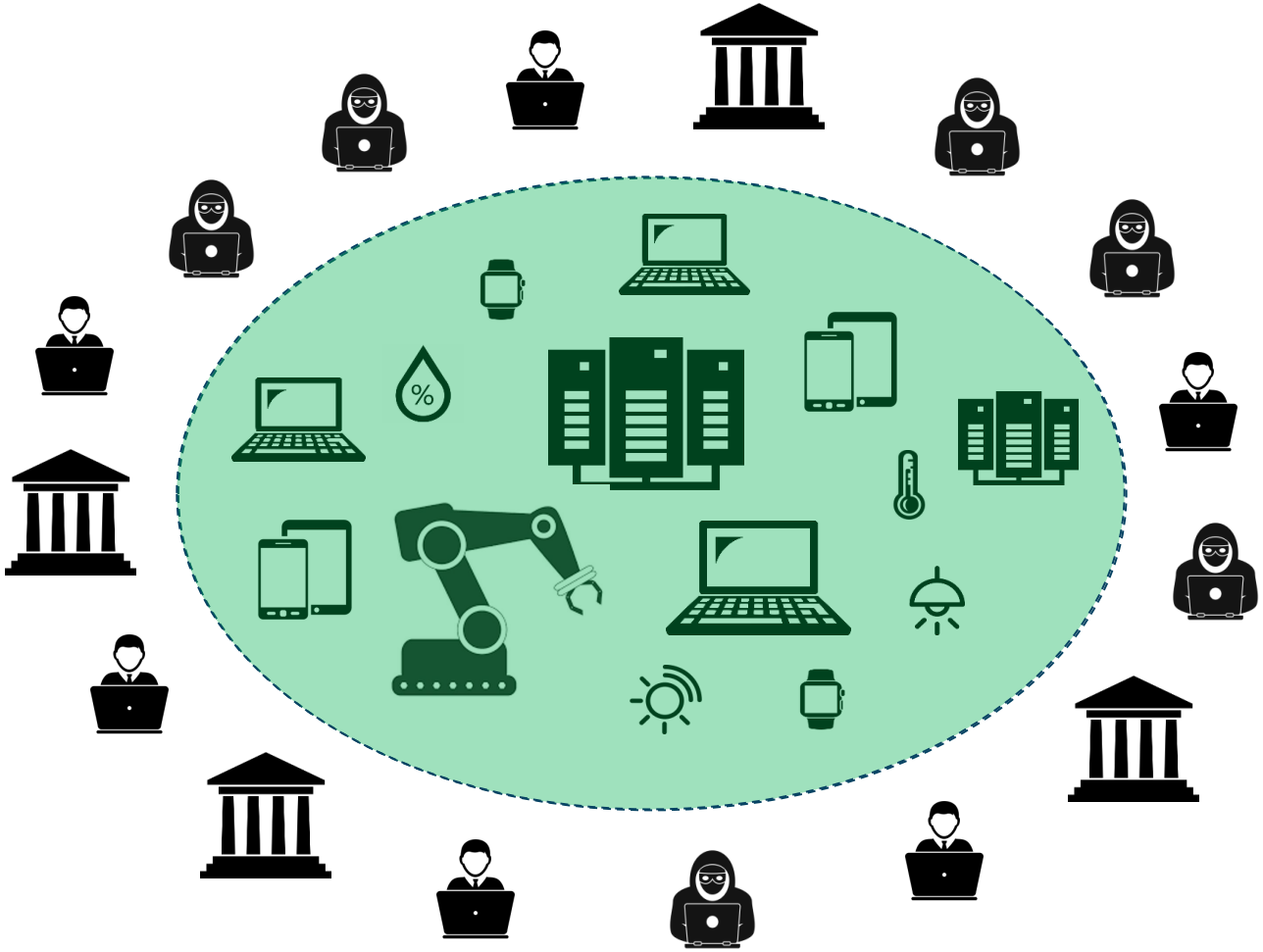
Disrupting systems

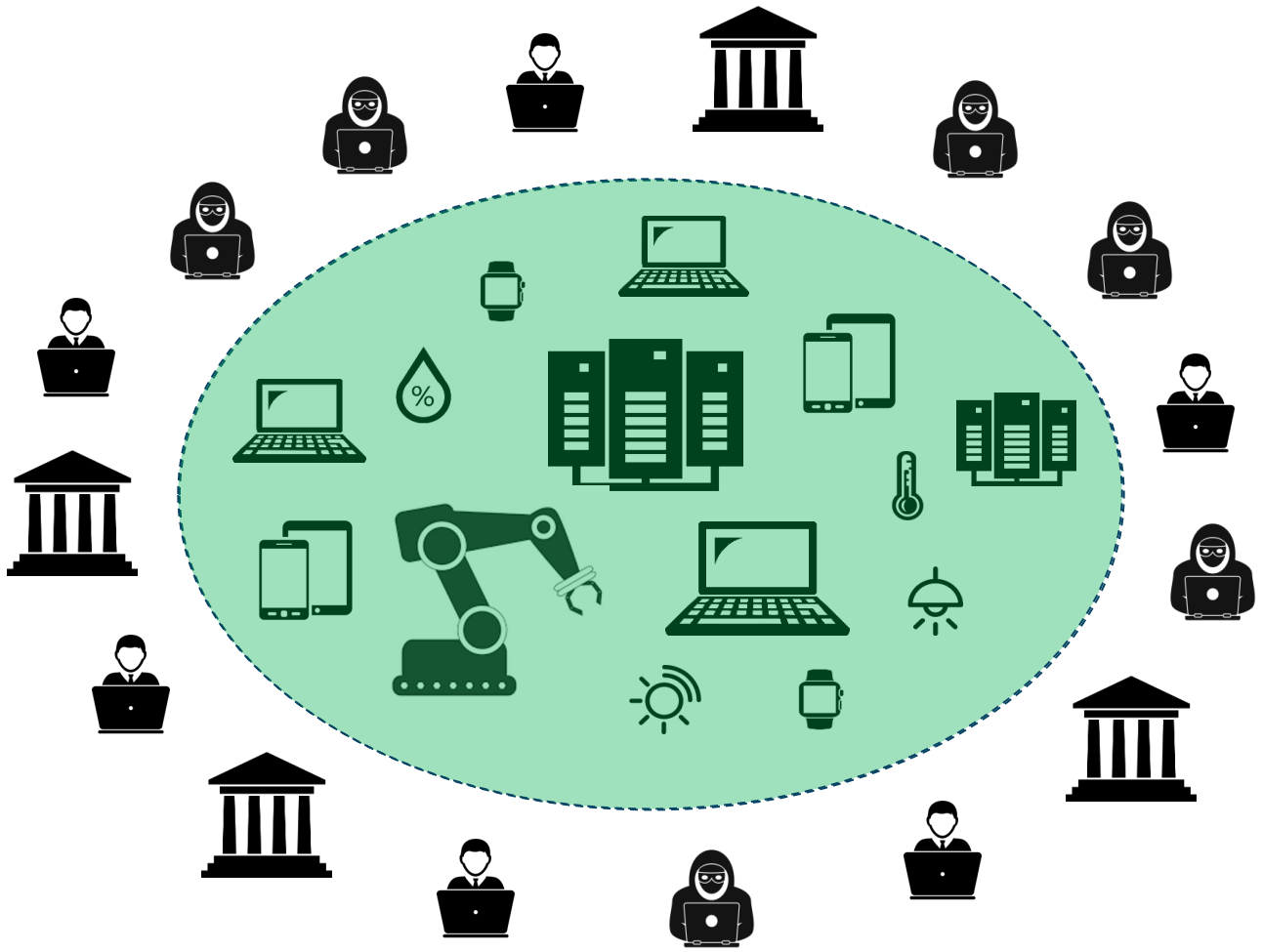
Hijacking infrastructure

Retrieving sensitive data

Disrupting systems

Hijacking infrastructure





Analysis

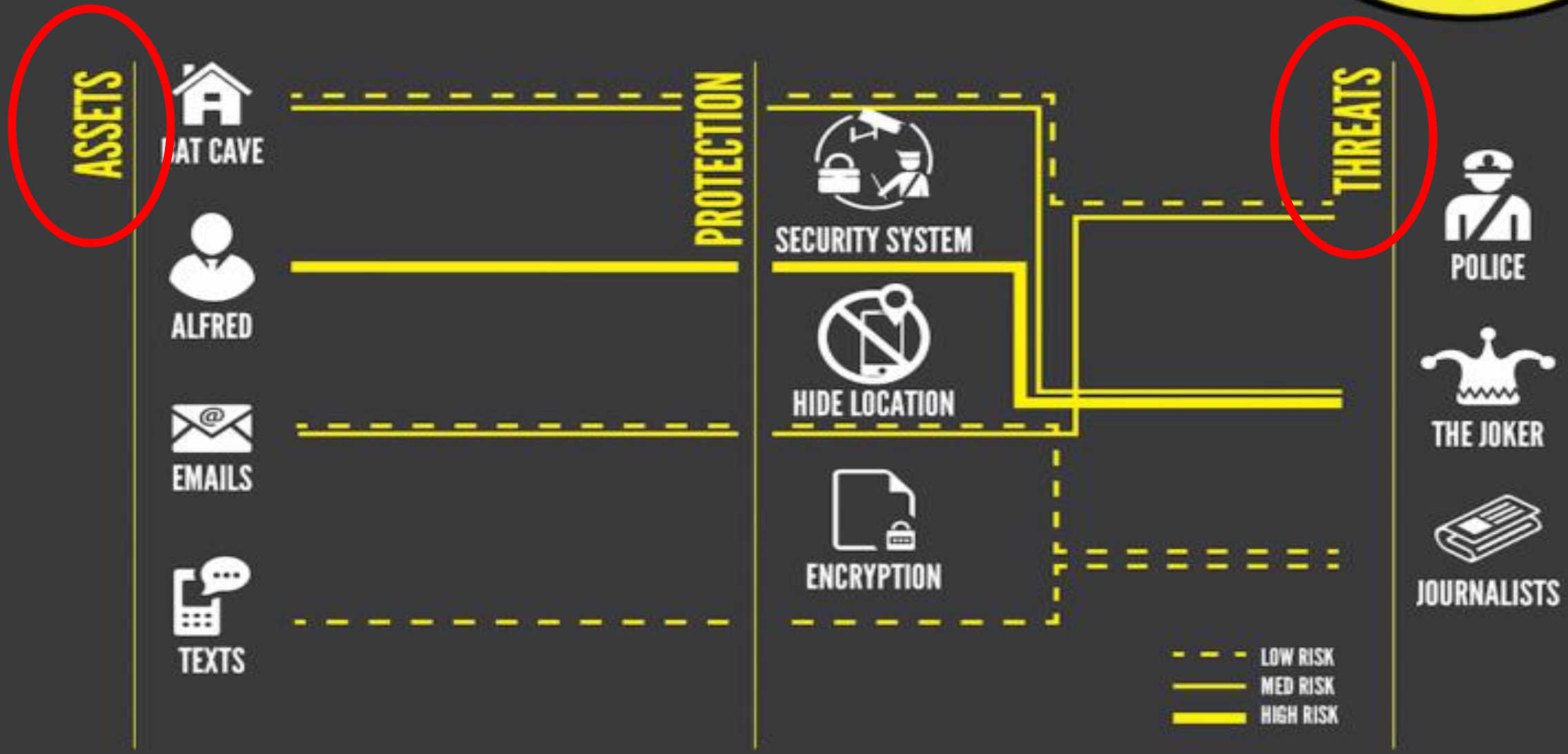
Design

Implementation

Deployment

Usage

BRUCE WAYNE/BATMAN'S THREAT MODEL

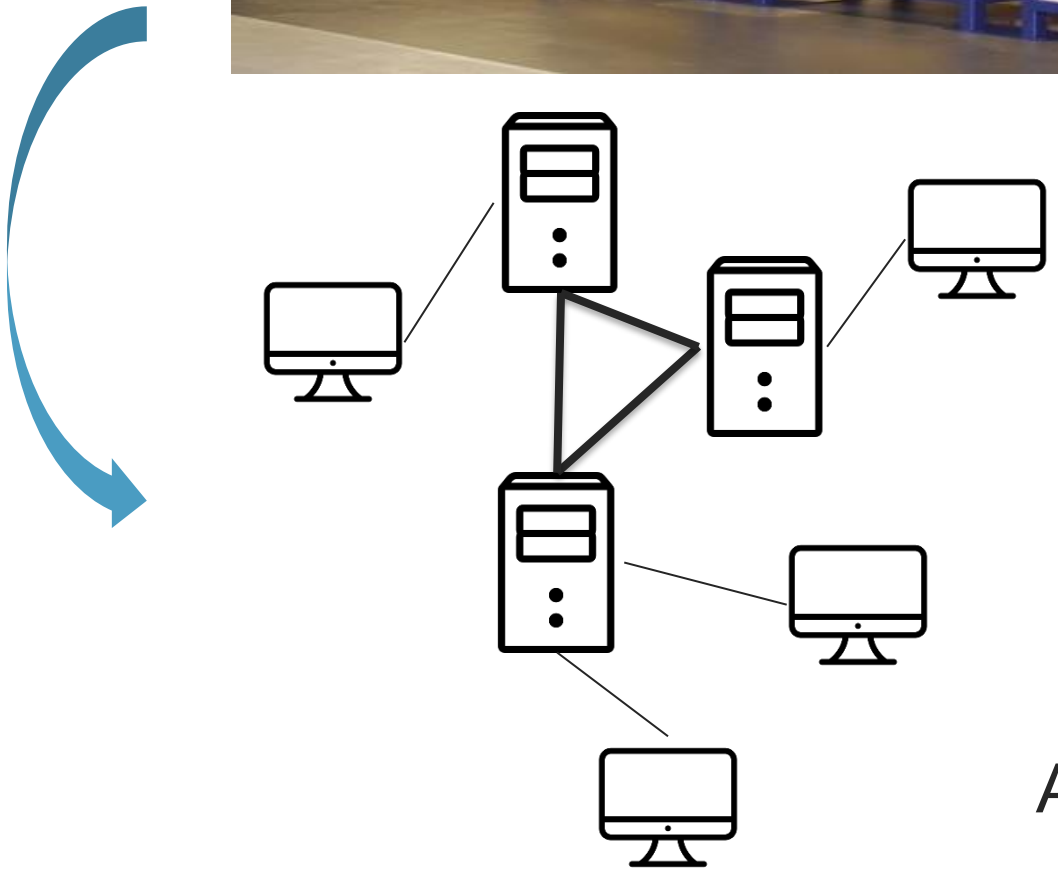


A QUICK START TO PRIVACY THREAT MODELING

YOUR FEEDBACK MATTERS!

WWW.LINDDUN.ORG/GO

LINDDUN
PRIVACY THREAT MODELING



Distributed Software Architectures

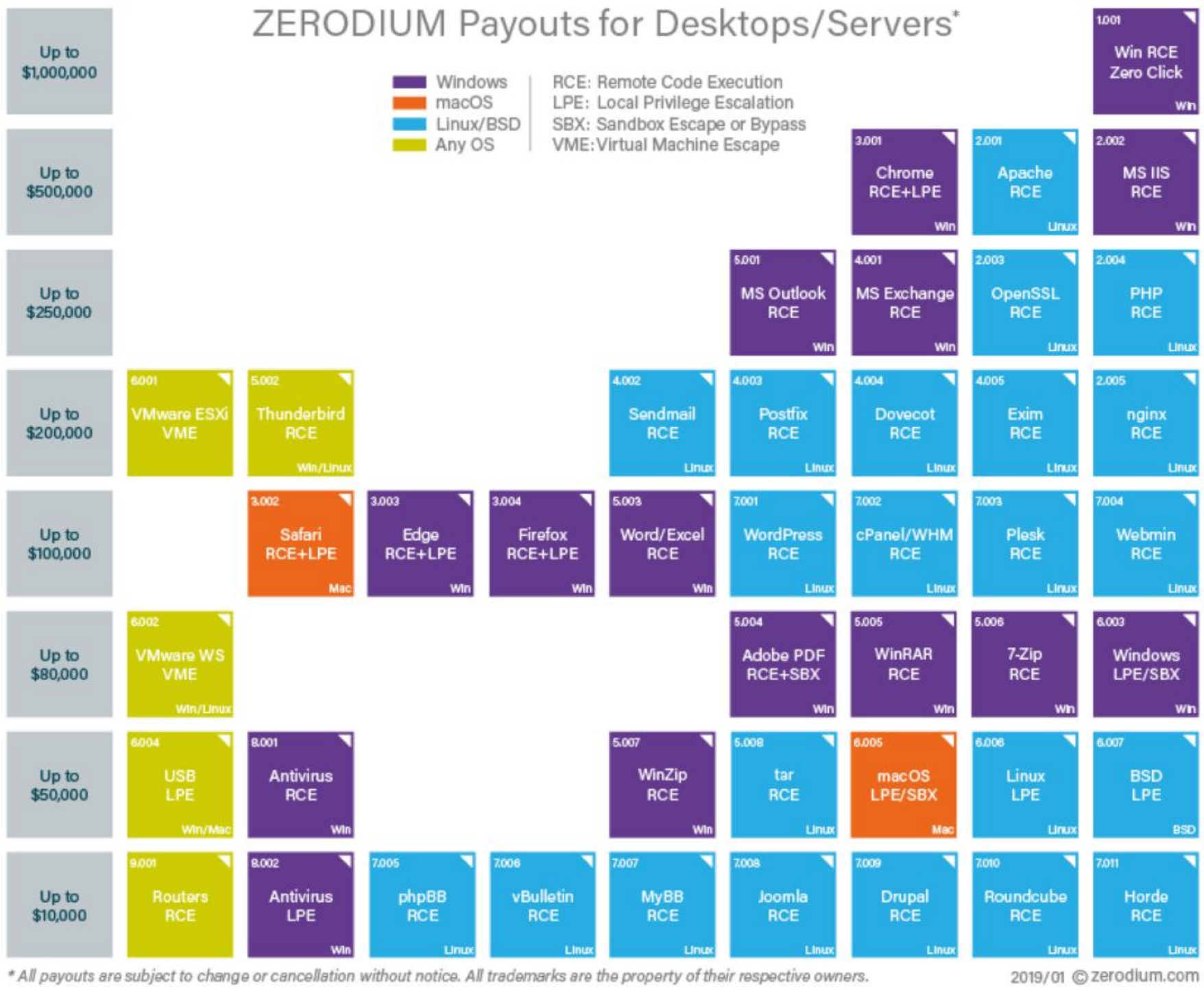
Analysis

Design

Implementation

Deployment

Usage



Analysis

Design

Implementation

Deployment

Usage

INTIGRITI
ETHICAL HACKING PLATFORM

ACTIVE PROGRAMS +70

Get hacked before you get hacked

Analysis

Design

Implementation

Deployment

Usage

BOUNTIES PAID +1 mio

RESEARCHERS +10.000

Europe's #1 ethical hacking and bug bounty platform

Cybercriminals Hold $115,000-Prize Contest to Find New Cryptocurrency Hacks

June 02, 2021 Ravie Lakshmanan

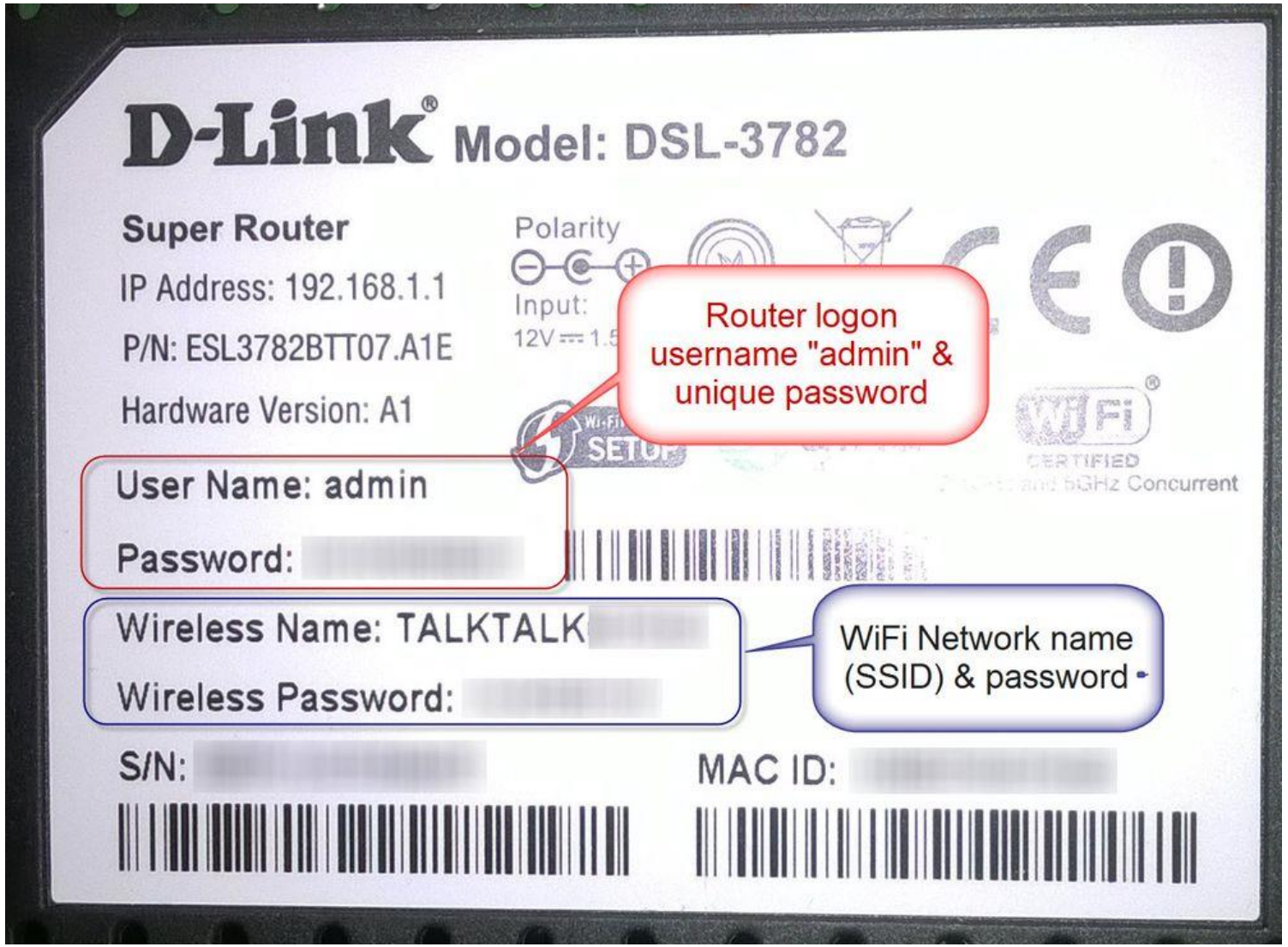
Analysis

Design

Implementation

Deployment

Usage



Analysis

Design

Implementation

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Usage

Analysis

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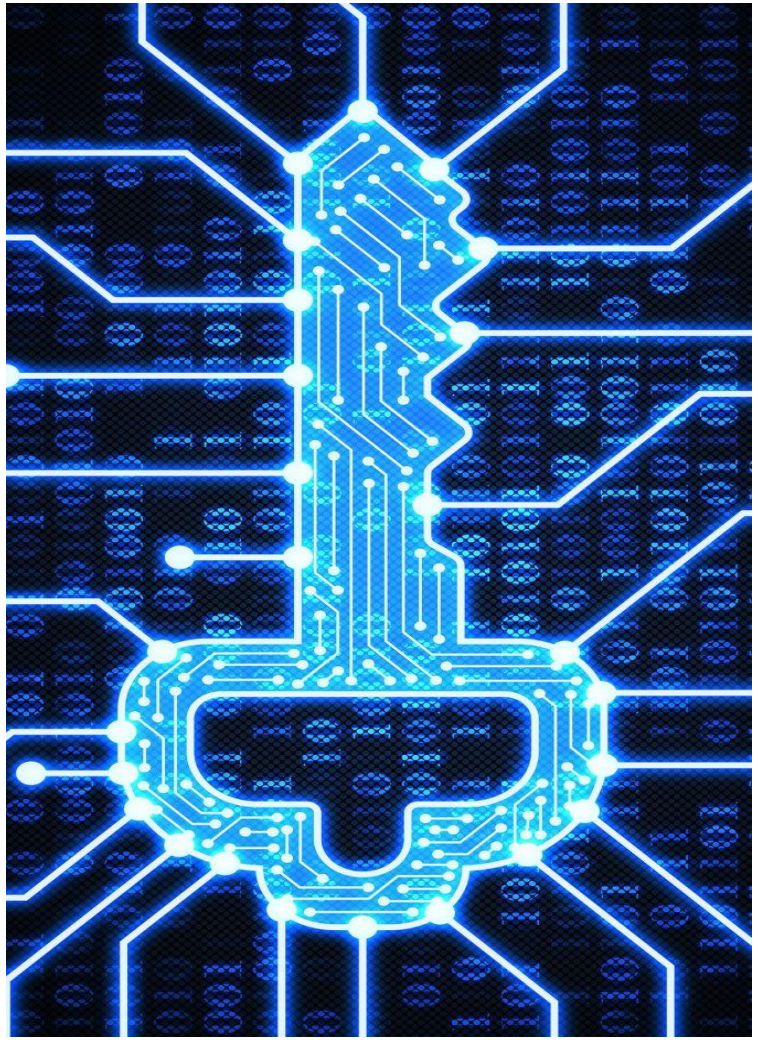
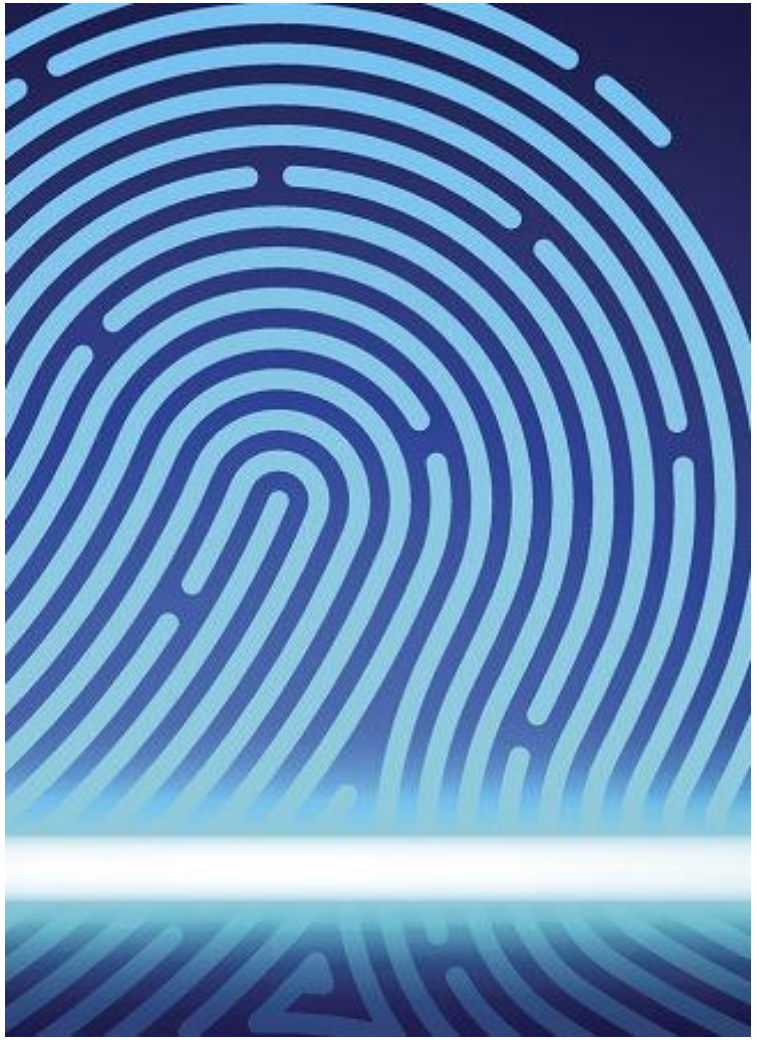
Implementation

Deployment

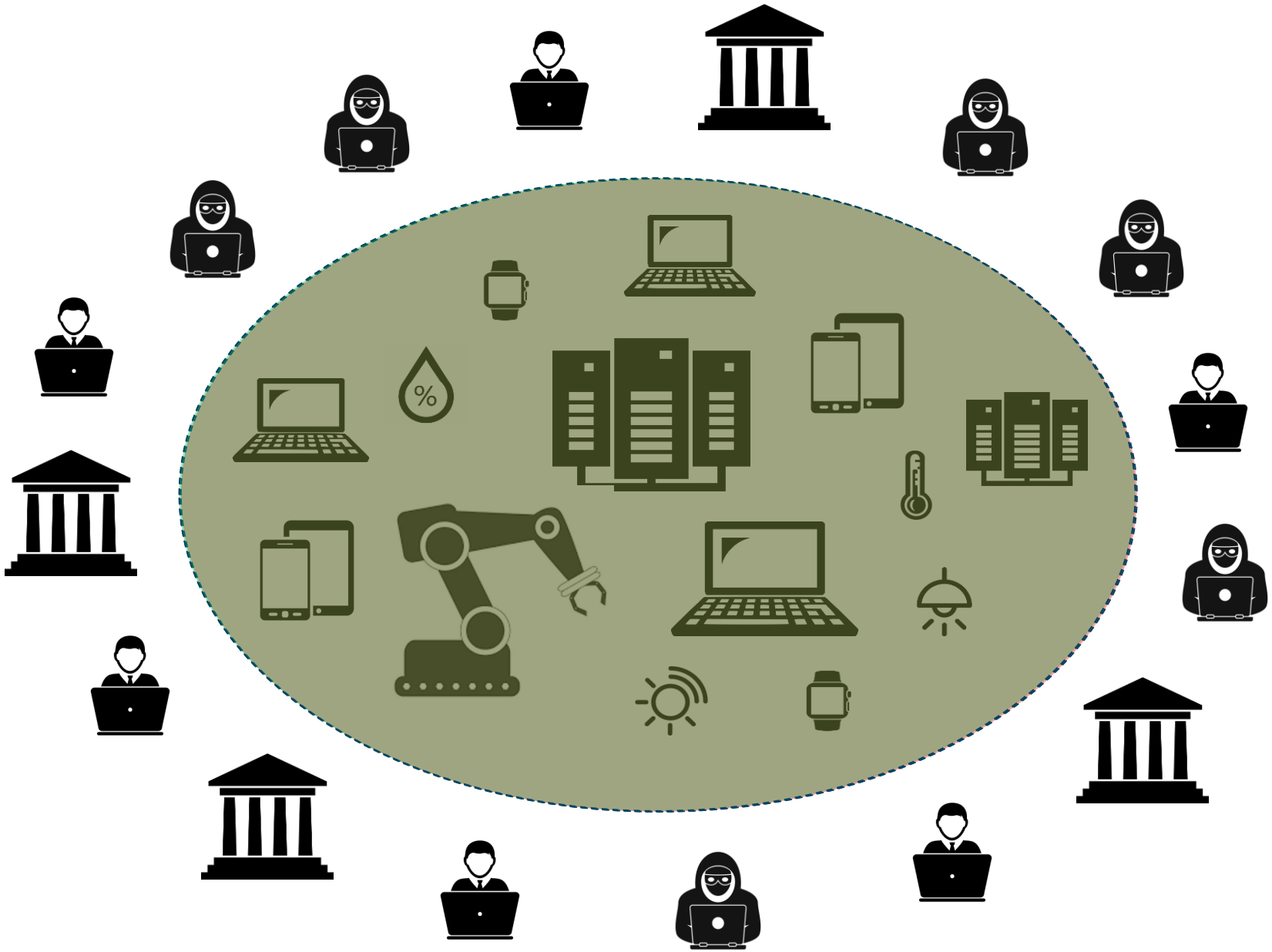
Usage

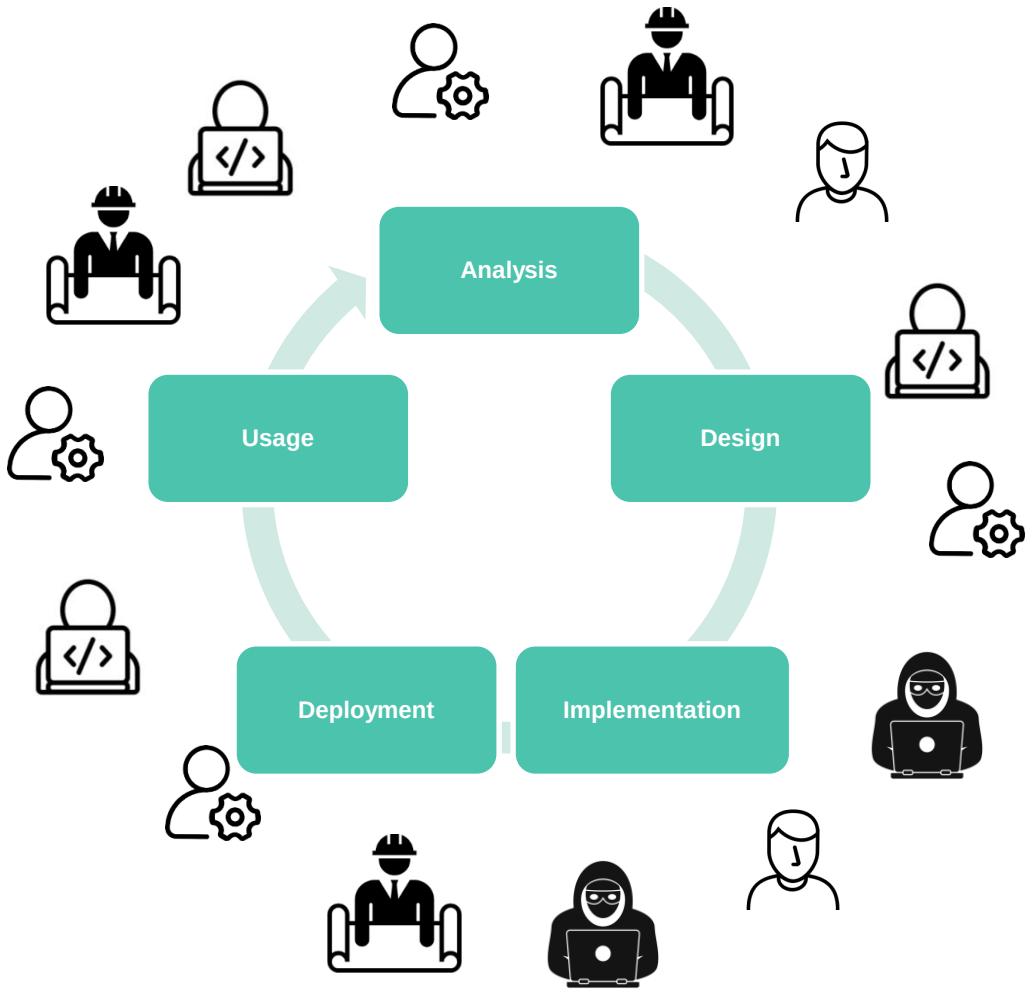


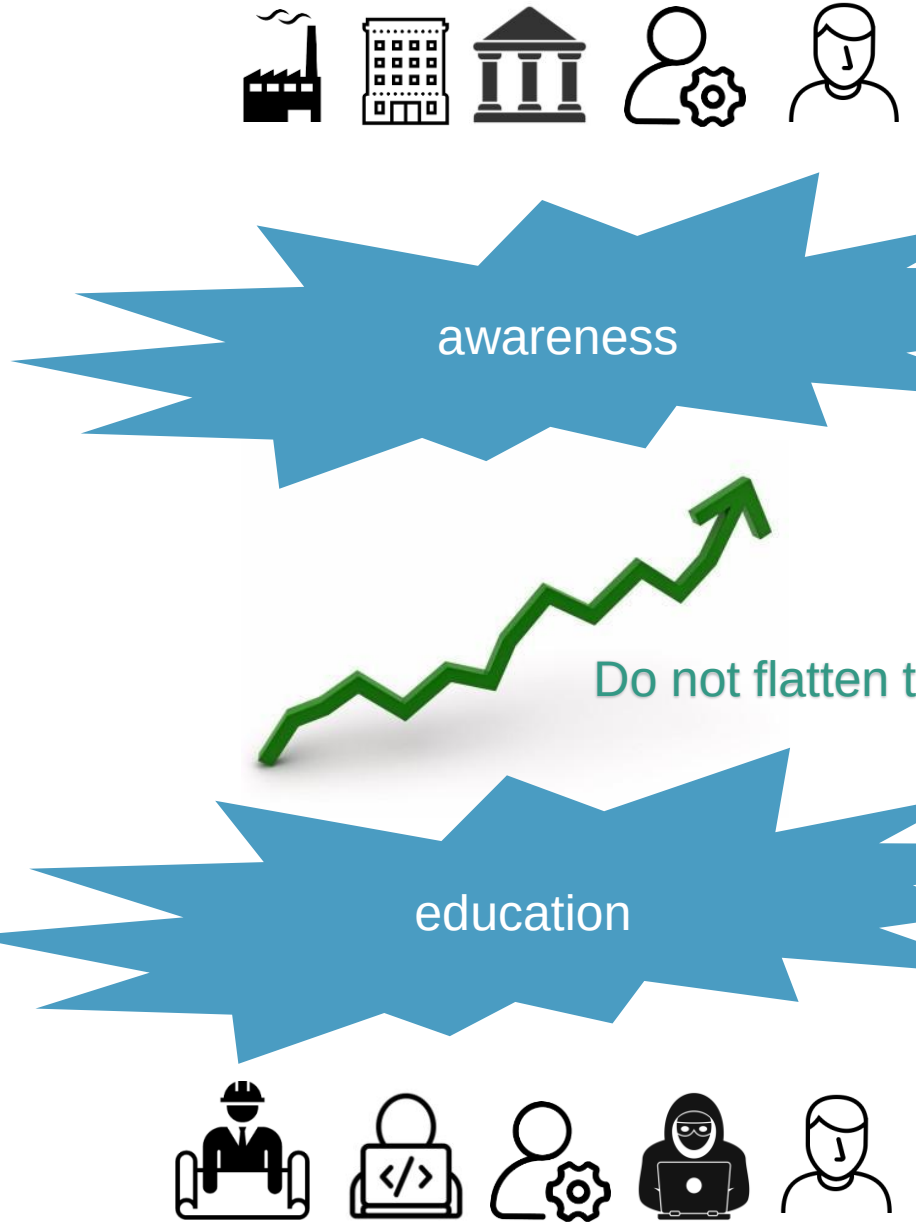


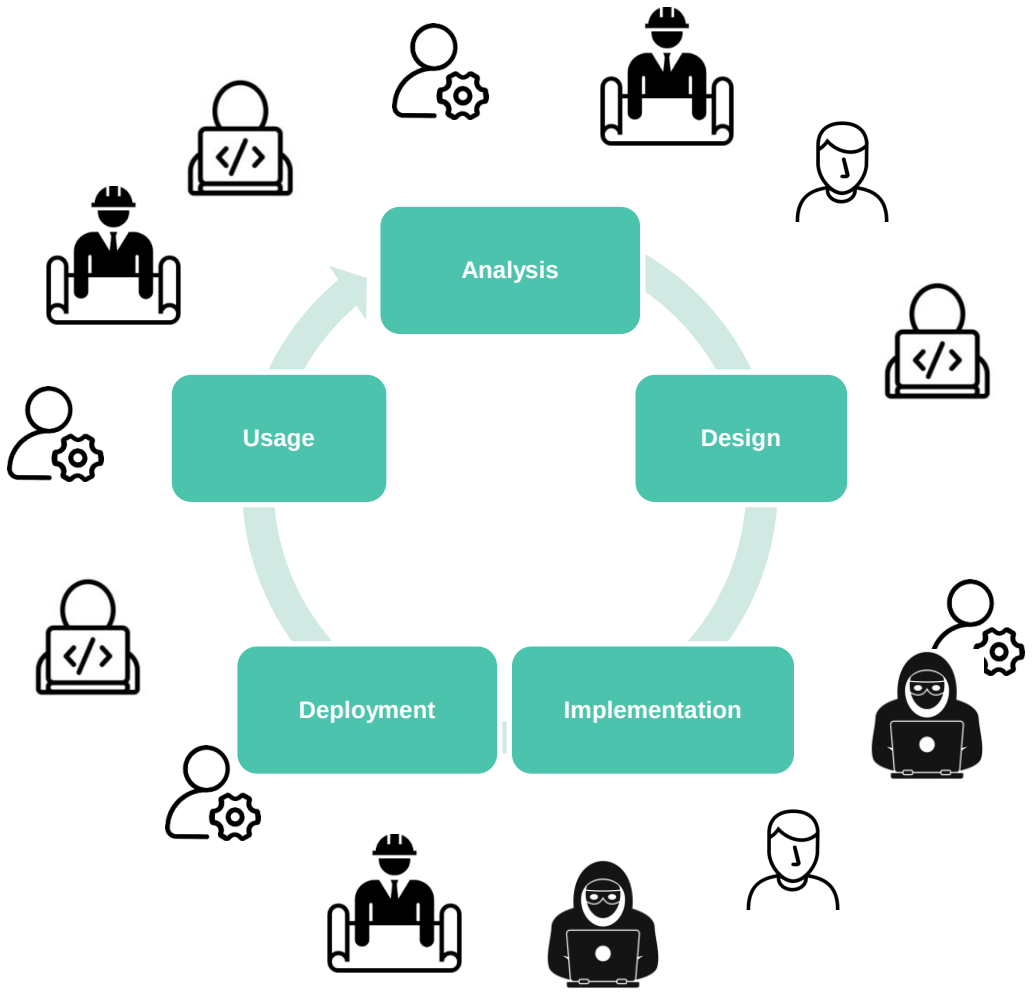

Wachtwoorden zijn
niet meer van deze tijd.
R1dd3r123
Bescherm je online accounts
met tweestapsverificatie.
Check safeonweb.be
BEVEILIG JE ONLINE ACCOUNTS DUBBEL
MET TWEESTAPSVERIFICATIE (2FA).
DA'S MAKKELIJK ÉN VEILIGER.
ALLE INFO OP SAFEONWEB.BE


CONCLUSION
CONCLUSION
CONCLUSION




Analysis
Design
Implementation
Deployment
Usage


awareness
Do not flatten the curve!
education



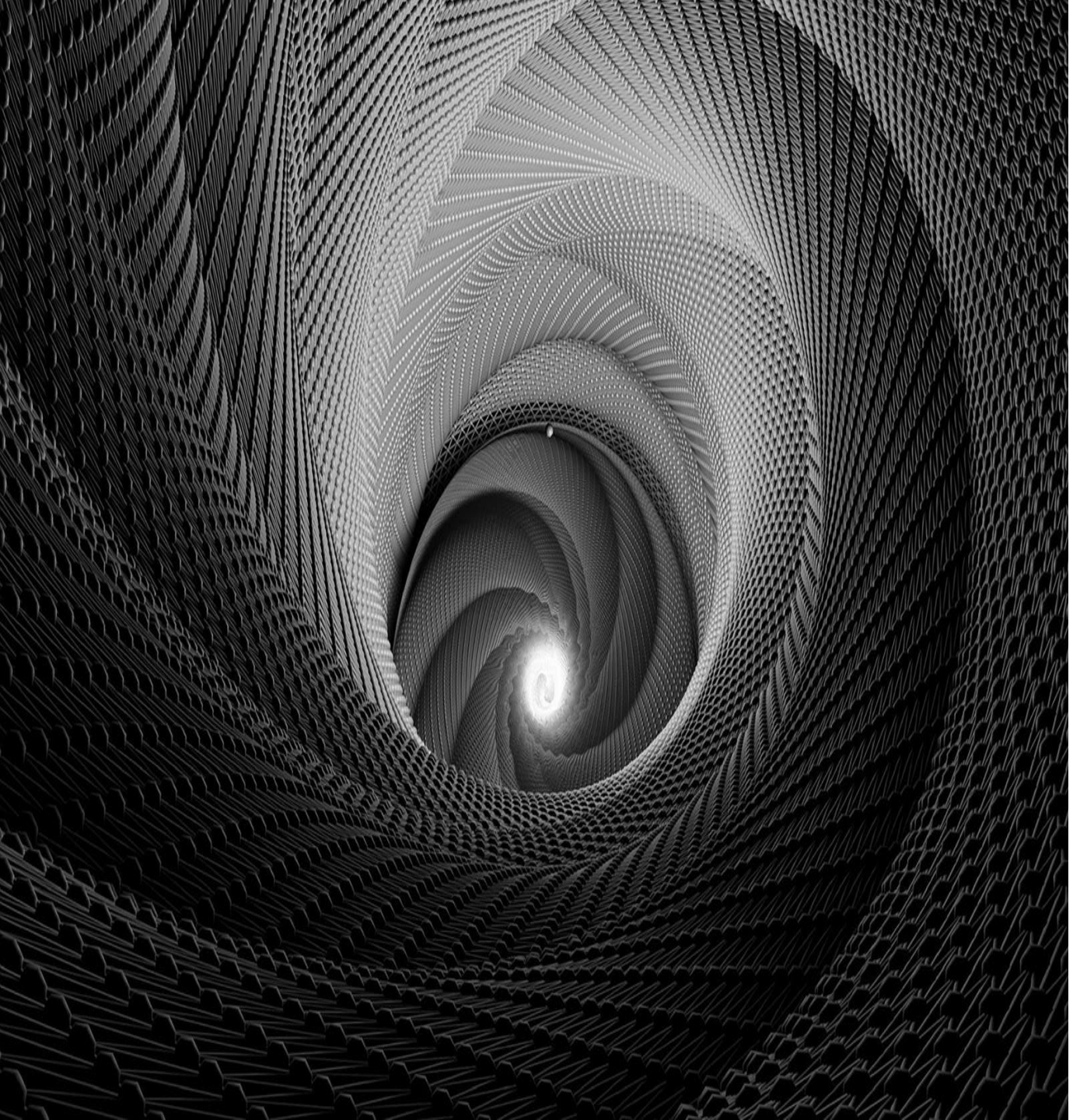
threat modeling — Analysis

decentralisation — Design

bug bounty programs — Implementation

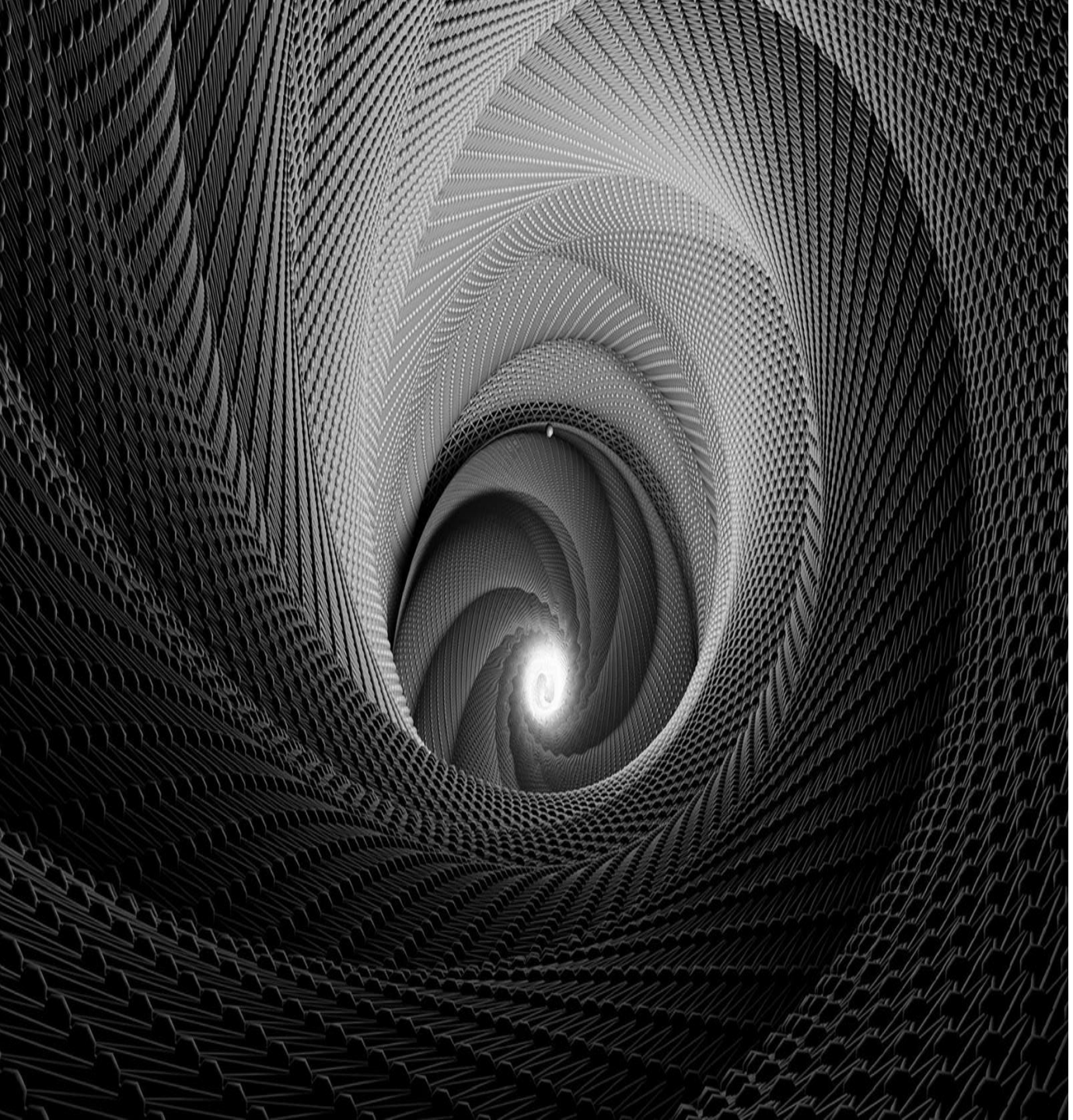
security technologies — Deployment

continuous focus — Usage



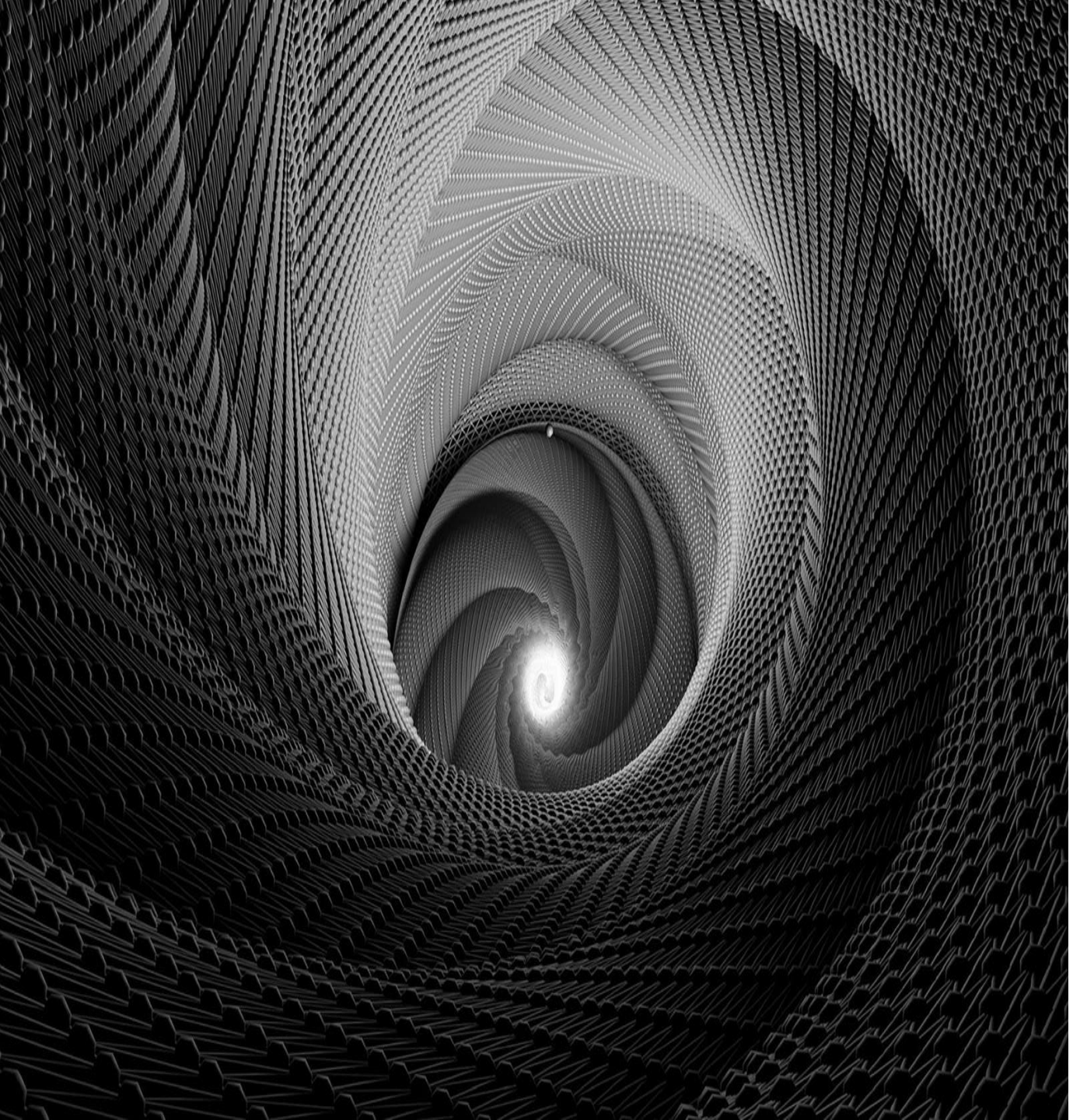
Upscaling actions

Embracing innovation



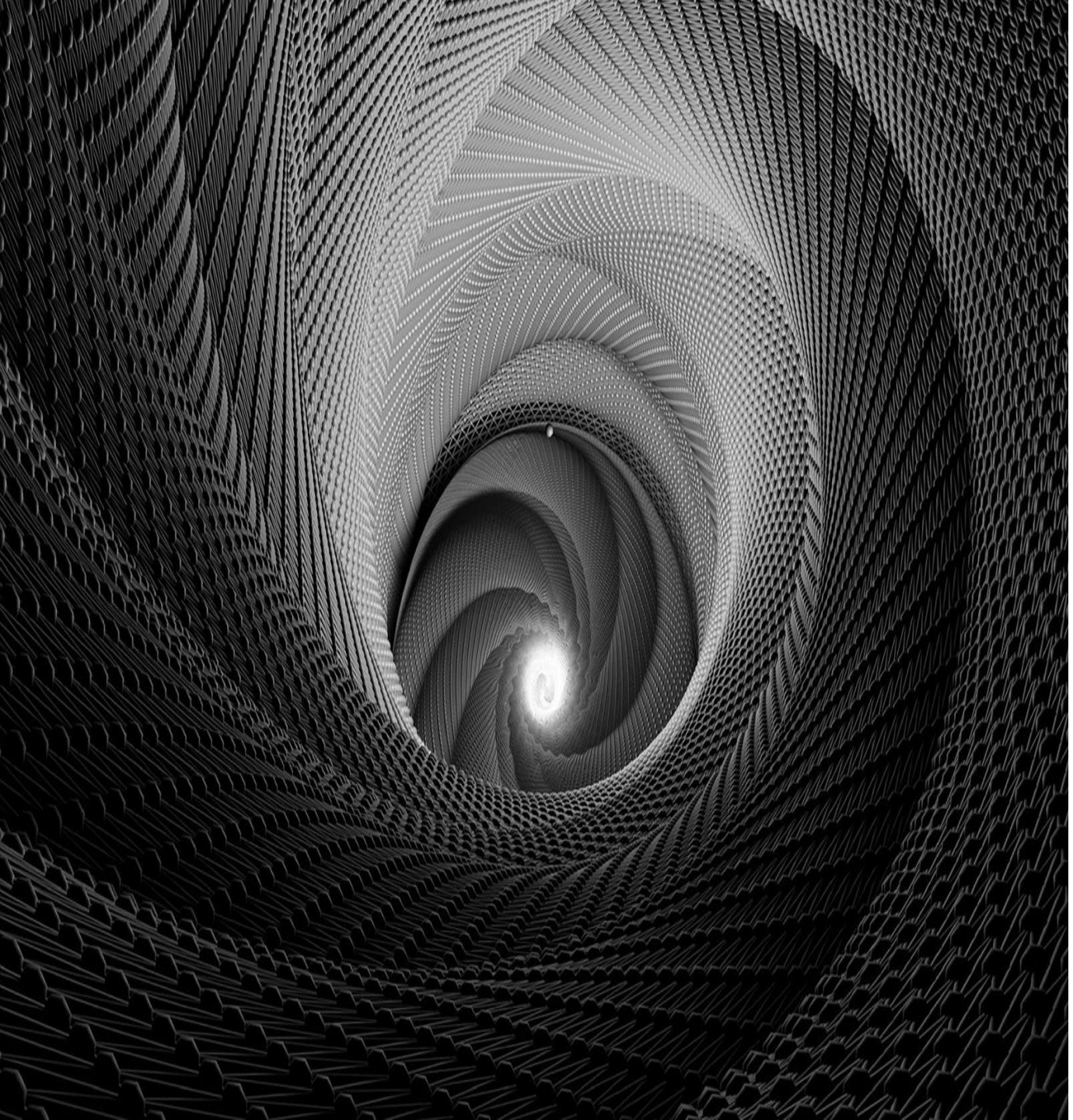
Upscaling actions

Bug Bounty Program



Upscaling actions

CERT.be
The Federal Cyber Emergency Team



Upscaling actions

© Photo News

Minister van Defensie broedt op vijfde legercomponent rond cyber


DE
CYBER
ARENA
EEN BLIK OP DIGITALE CONFRONTATIES
EN DE BESTRIJDING ERVAN
VINCENT NAESSENS

“If you spend more on coffee than on IT security, you will be hacked. What's more, you deserve to be hacked.”

White House Cybersecurity Advisor, Richard Clarke

Vraag en antwoord

Tot slot

- Het **webinar en de presentatie** zullen beschikbaar gesteld worden op het projectportaal.
- Inschrijven voor de 2e editie van het **Traject Ethisch Hacken** is mogelijk op de VVSG-website.
- In kader van het Project Cyberveilige Gemeenten zijn we op zoek naar **inspirerende lokale praktijken** voor een praktijkenbundel, voorstellen insturen kan via cyberveiligheid@vvsg.be.
- Het boek **De Cyber Arena** kan online besteld worden.

Bedankt voor je aandacht.

Meer info op www.vvsg.be

Vragen? Tomas.coppens@vvsg.be

vvsg

Bischoffsheimlaan 1-8
1000 Brussel

02 211 55 00

info@vvsg.be
www.vvsg.be