

# De cyberarena

Cyberveiligheid voor lokale  
medewerkers zonder IT-expertise

# WELKOM

## Enkele praktische afspraken

Tijdens het webinar



Laat je microfoon uit

Vraag stellen?



Stel je vraag via de chat

# 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



**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](http://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-systeem 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.



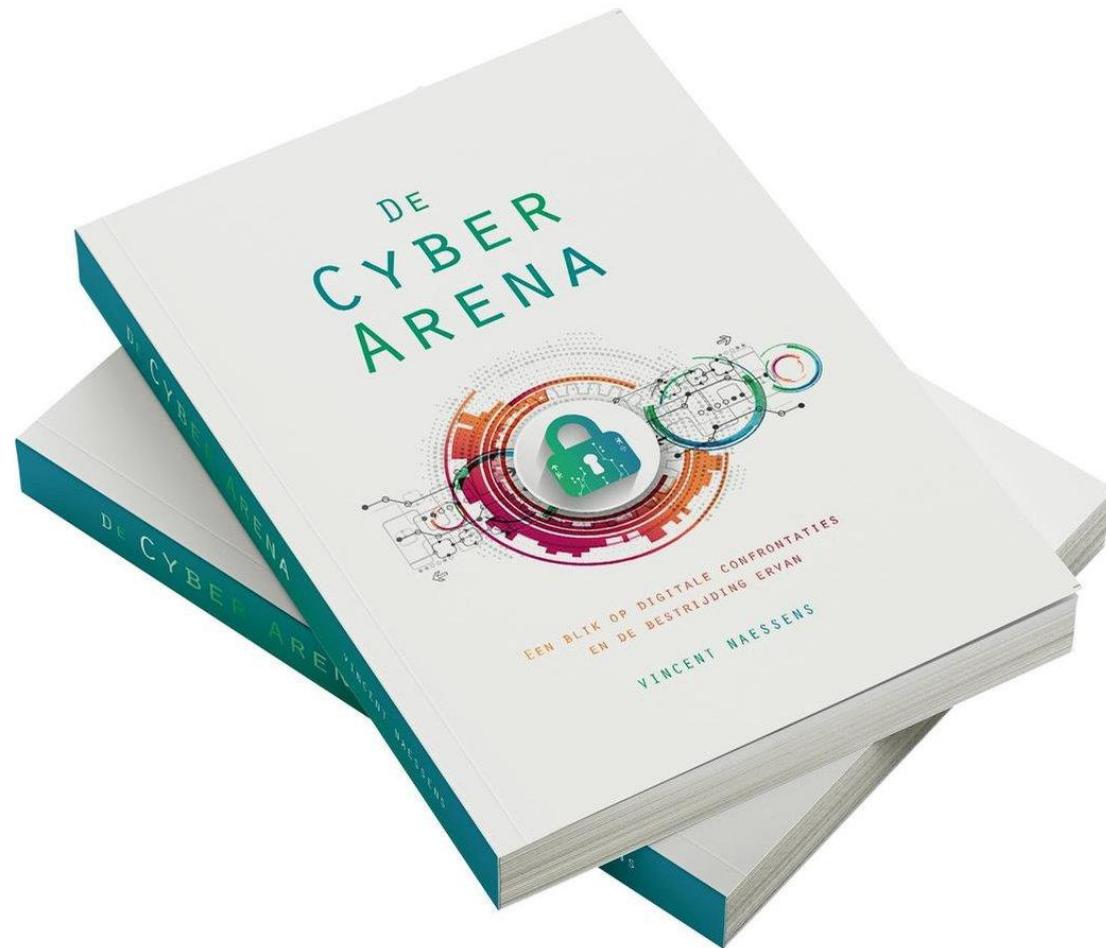
# Training en sensibilisering

- “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.



**vincent naessens**  
@vincentnaessens  
computer science @Distrinet @LeuvenU #Gent || cybersecurity & privacy research  
auteur #DeCyberArena || tweet met mate || geen politiek polariserend gekwetter  
② Ghent, Belgium ⌂ decyberarena.be Joined June 2016  
**58 Following 72 Followers**  
Followed by KU Leuven

# De cyberarena - prof. dr. Vincent Naessens

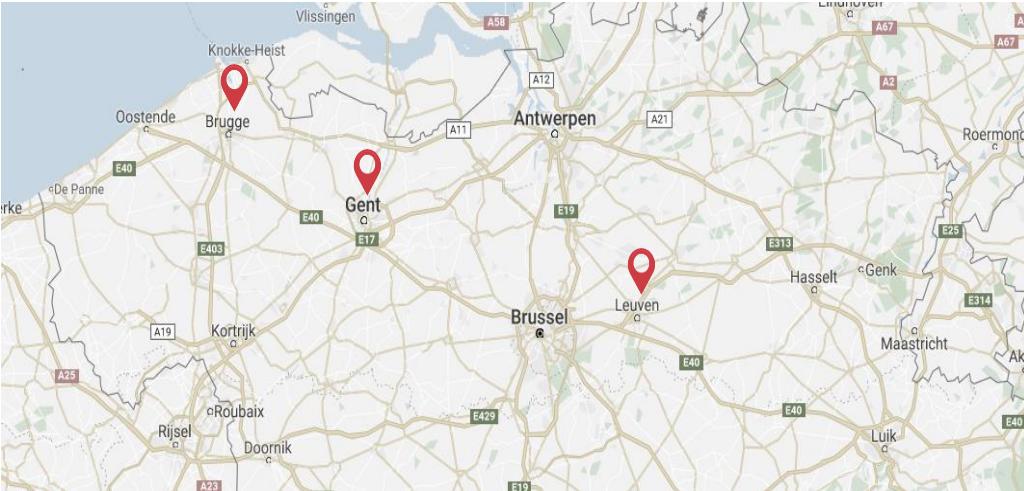
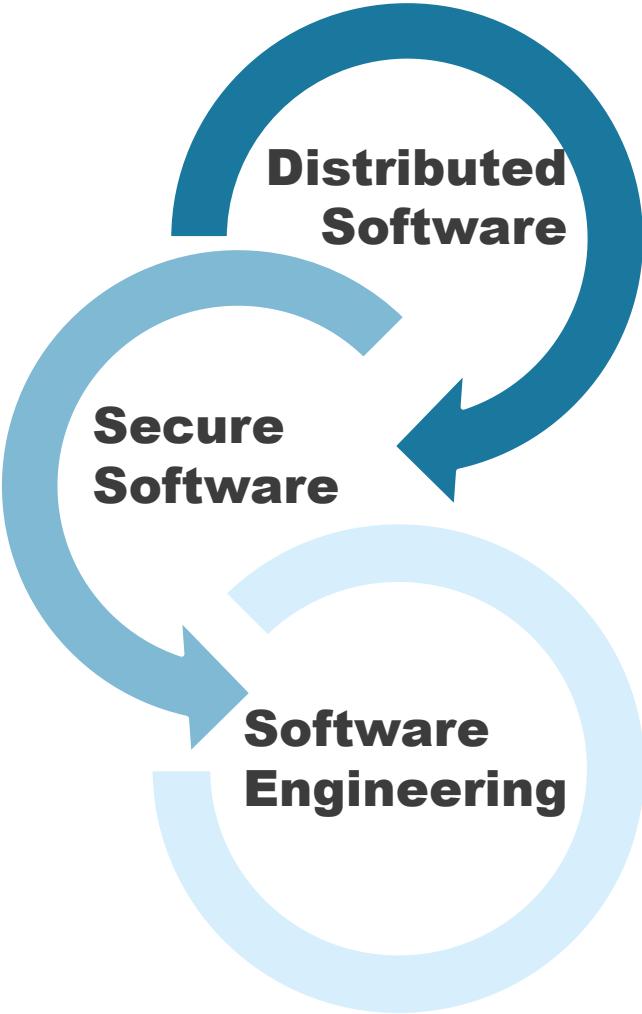
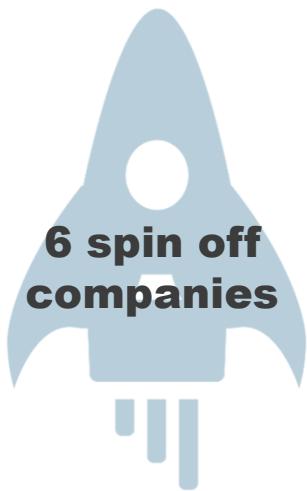


# The CyberArena

<https://www.decyberarena.be/>

*Vincent Naessens, KU Leuven*

# DistriNet in a Nutshell

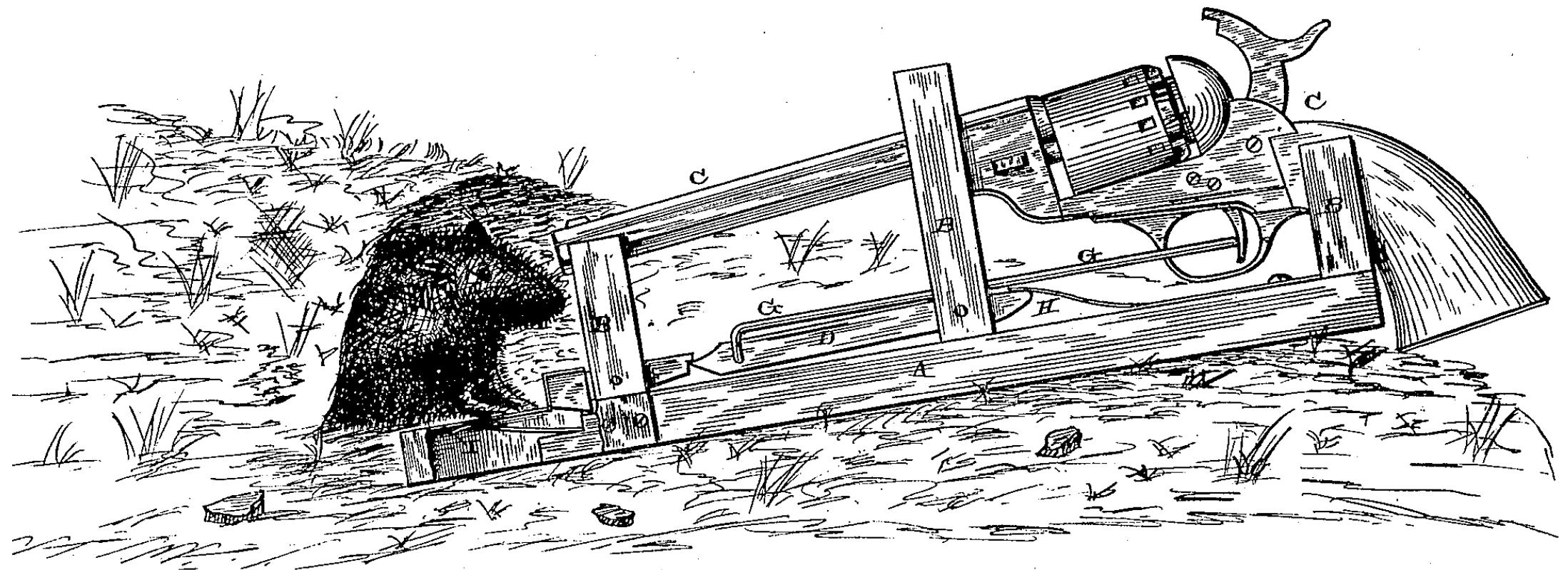






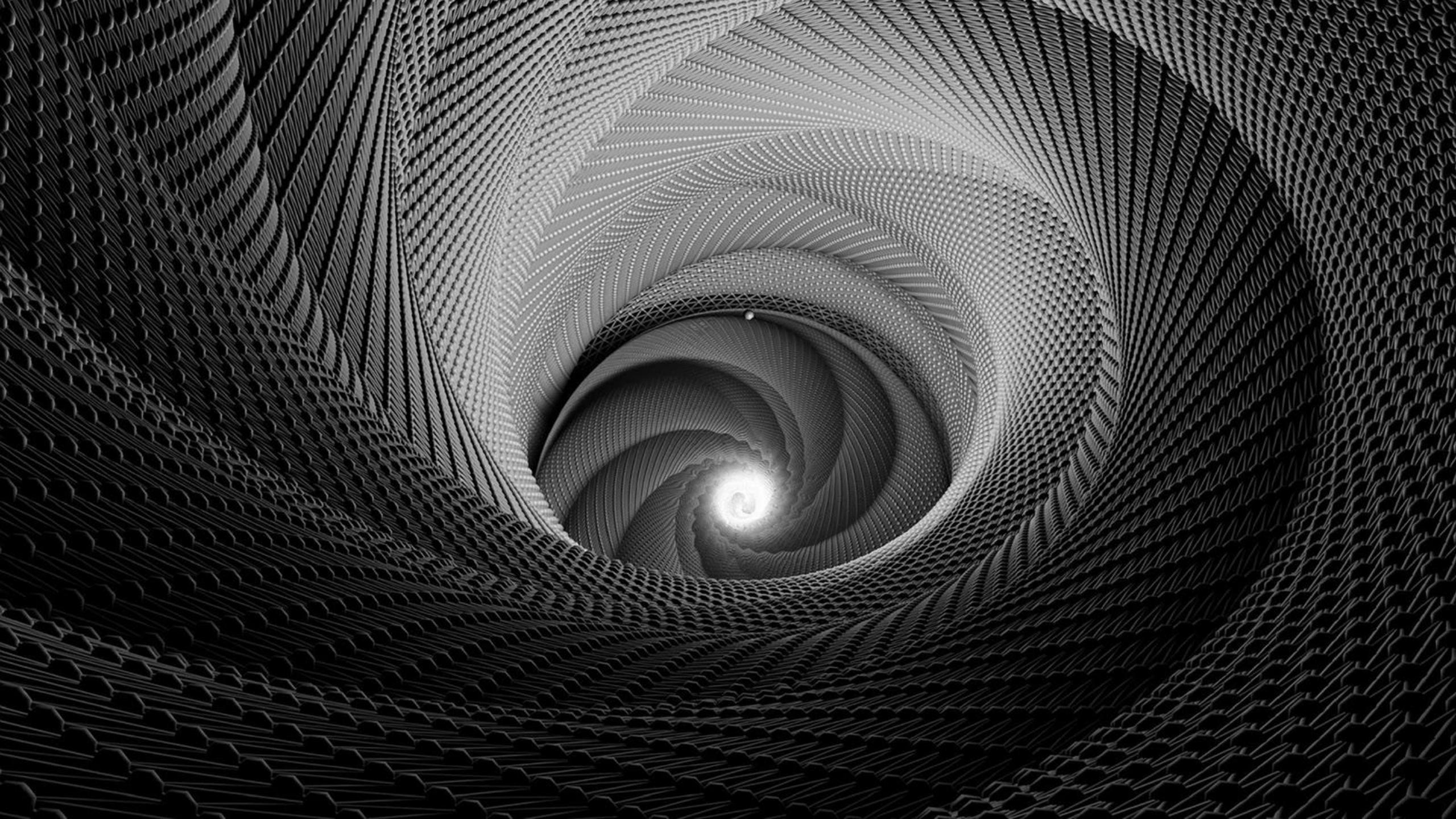


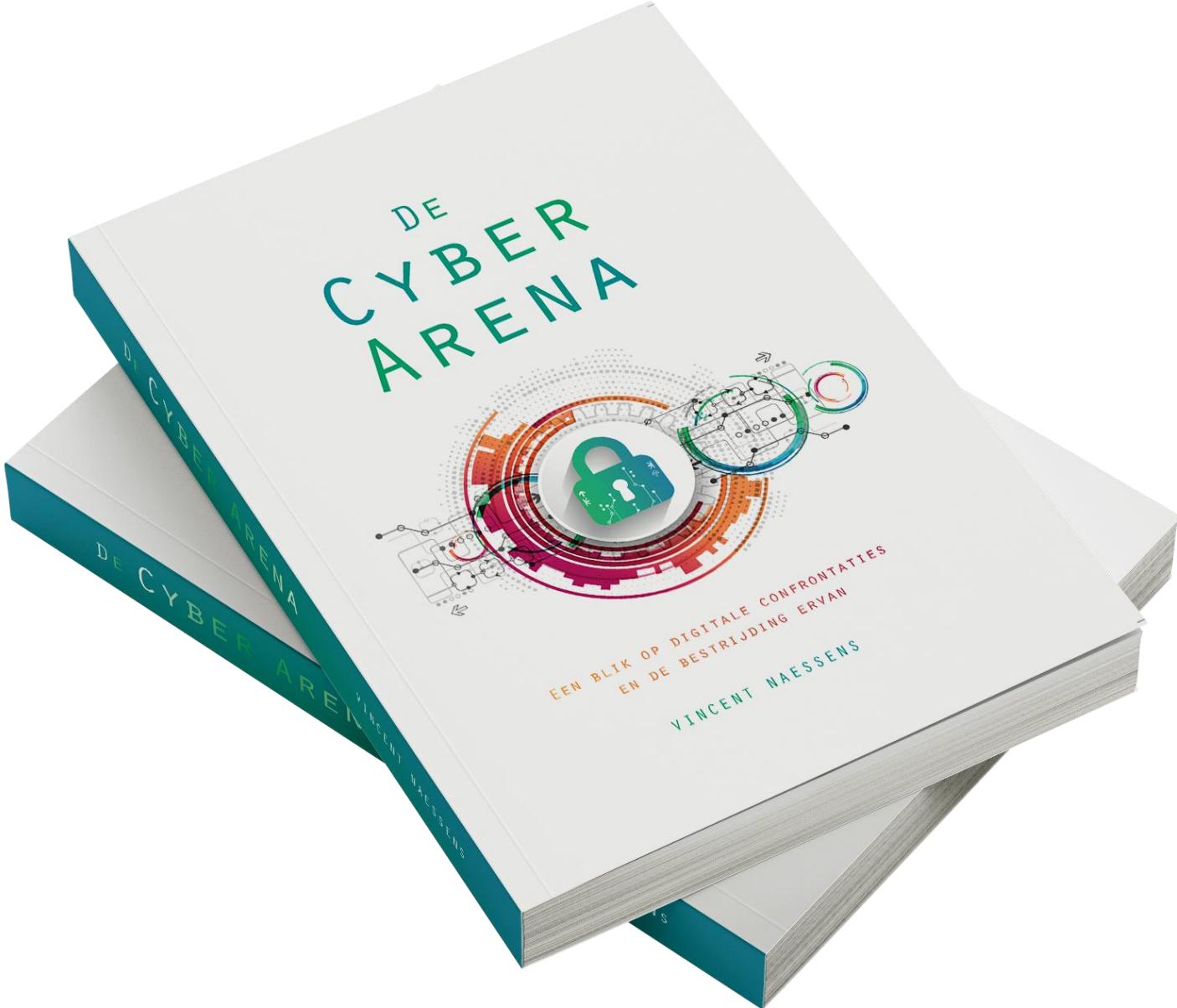








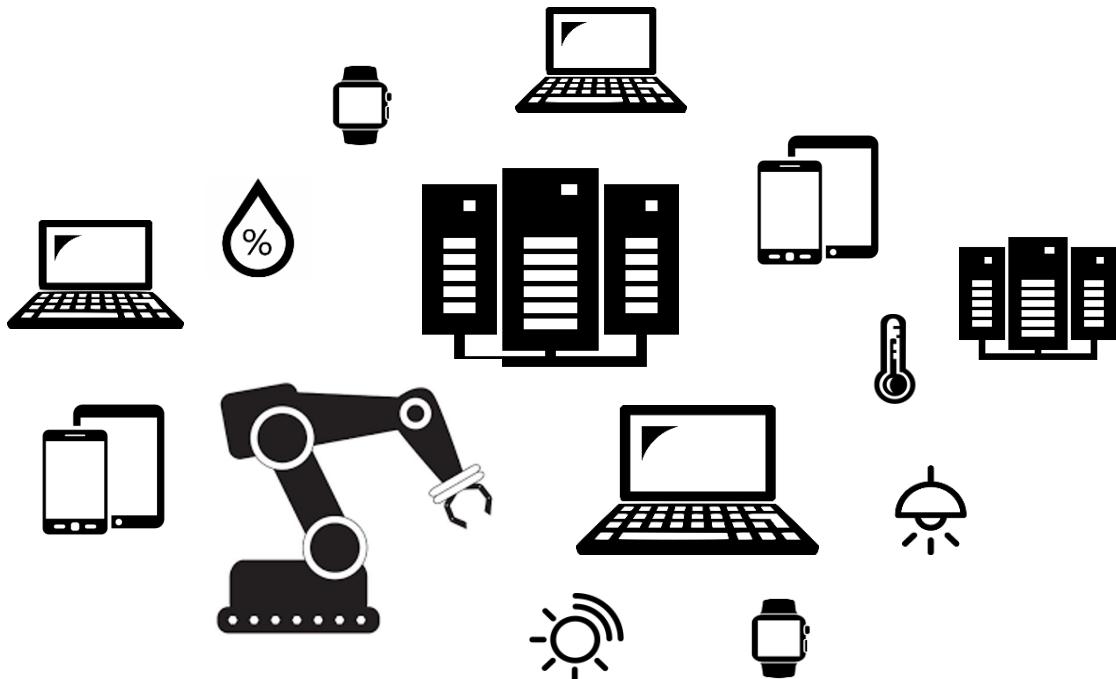




amazon.com

 Standaard  
Boekhandel

Workstations



Mobile Devices

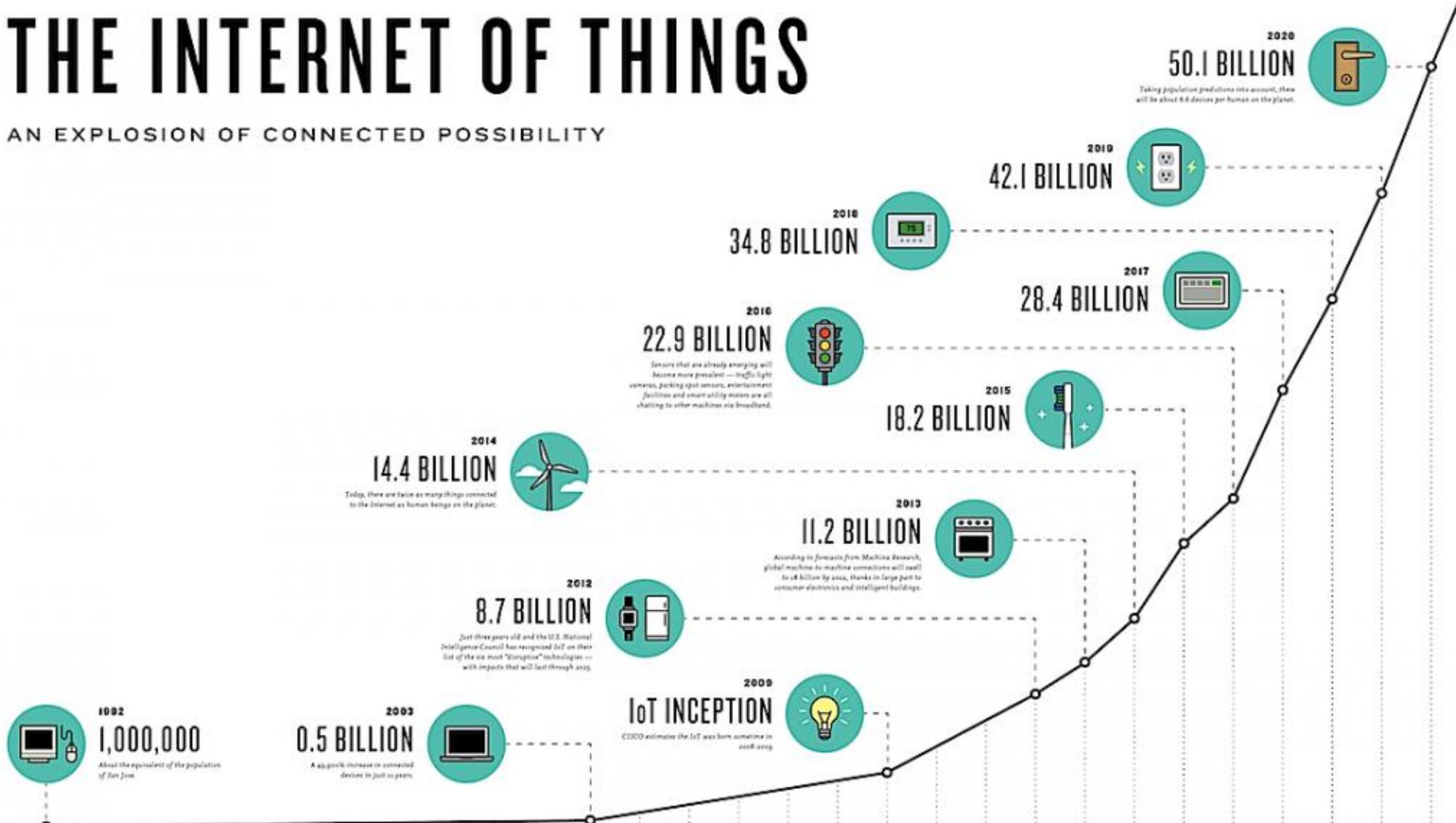
Cloud Systems

Cyberphysical Systems

IoT Devices

# THE INTERNET OF THINGS

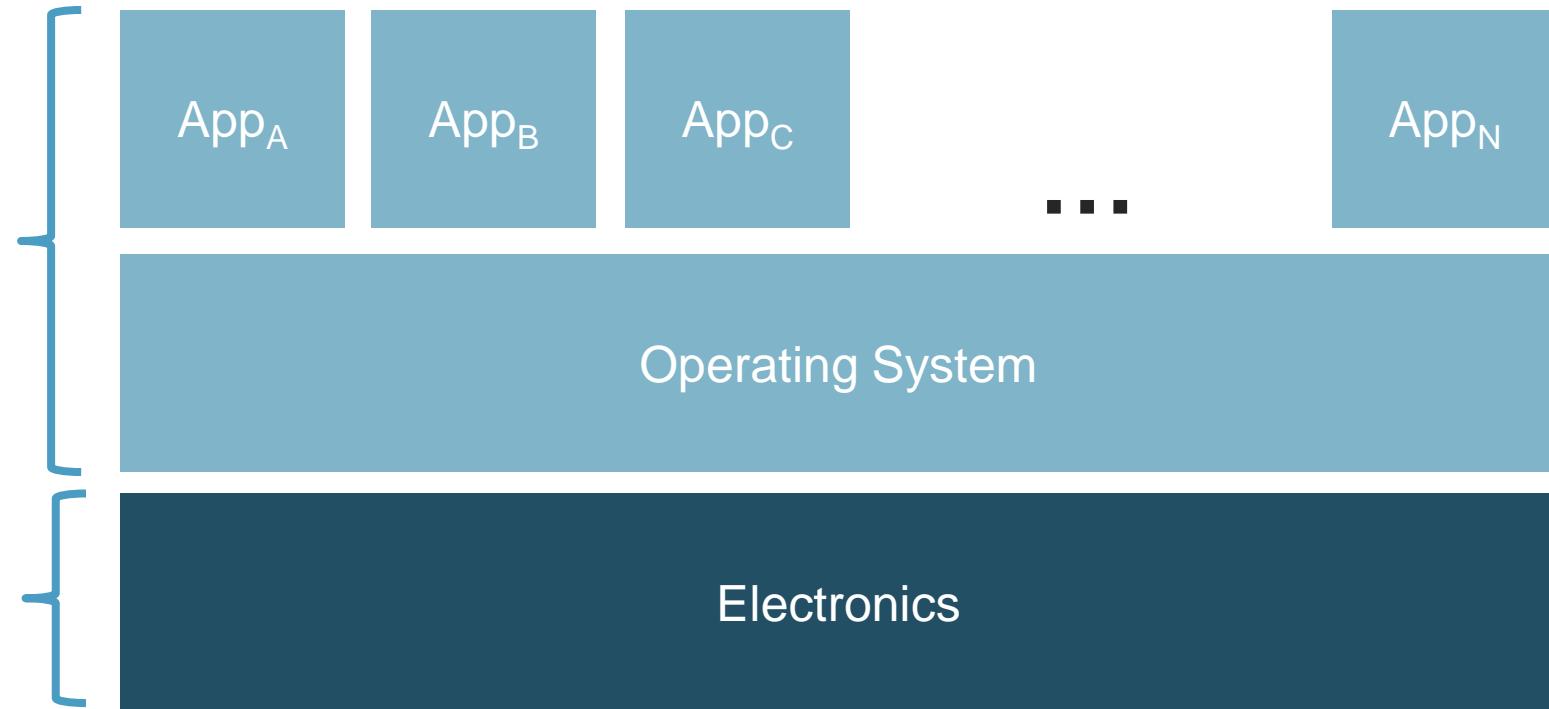
AN EXPLOSION OF CONNECTED POSSIBILITY



# The Anatomy of a Computing System

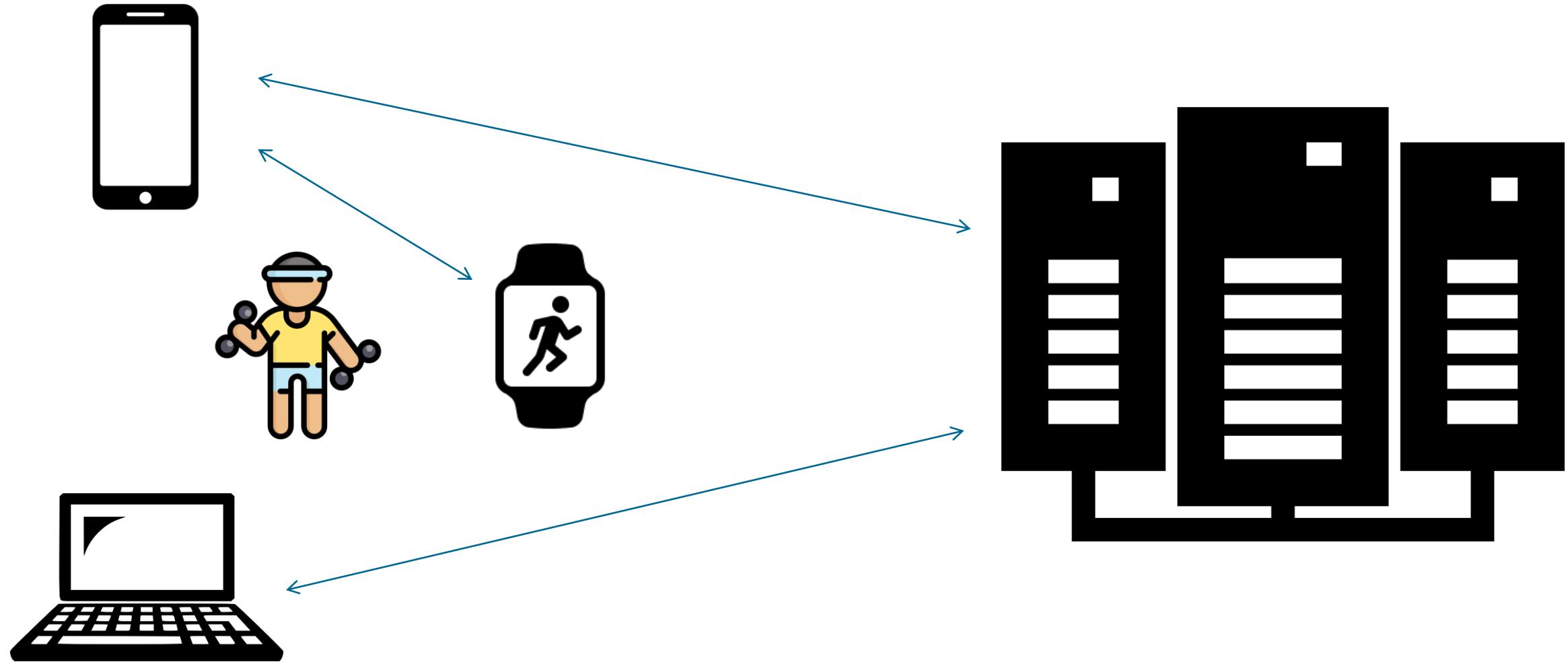
software

hardware

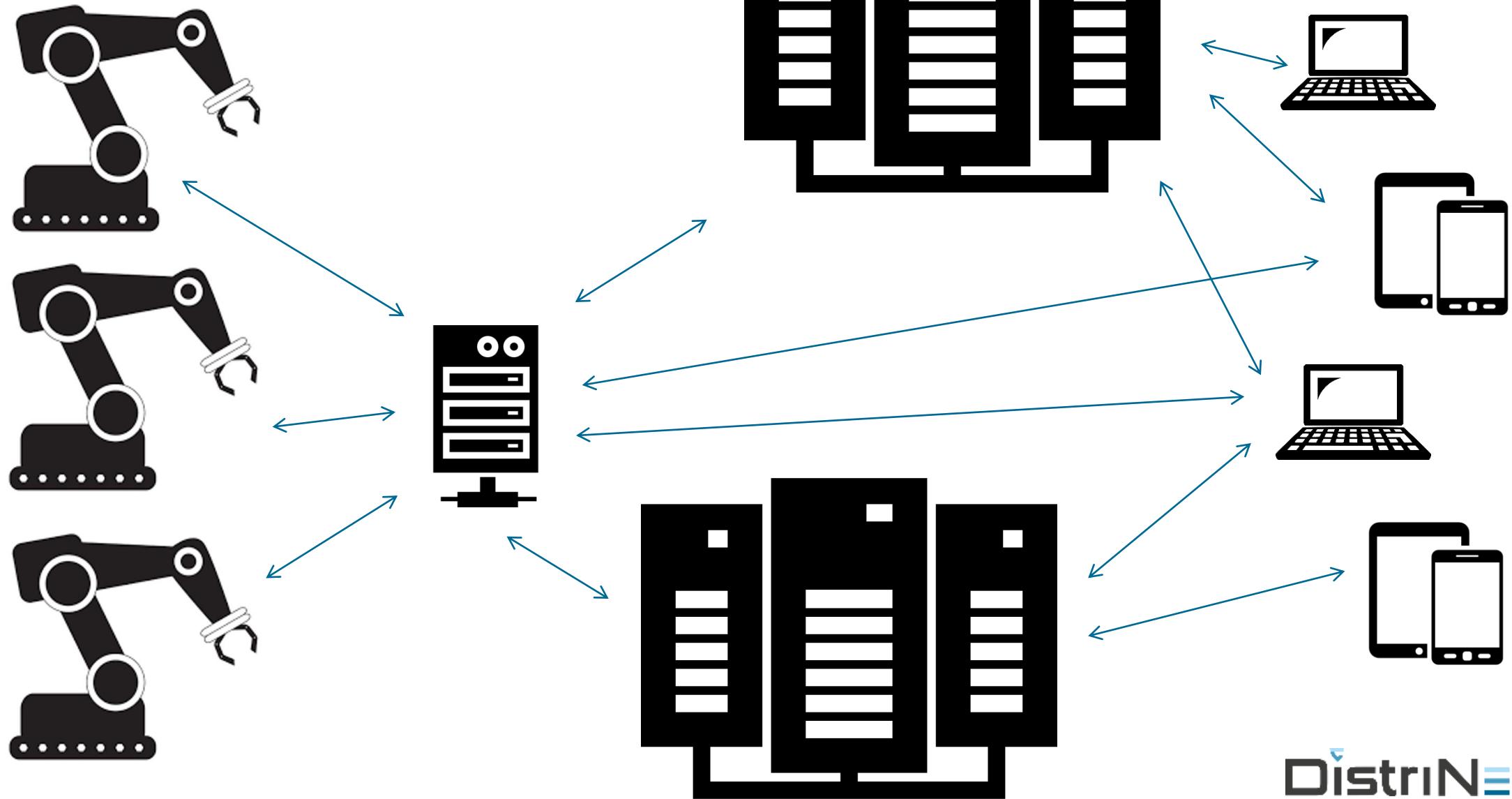




# The FitBit ecosystem



# A prototypical manufacturing floor



# Digital ecosystems

are

# vulnerable



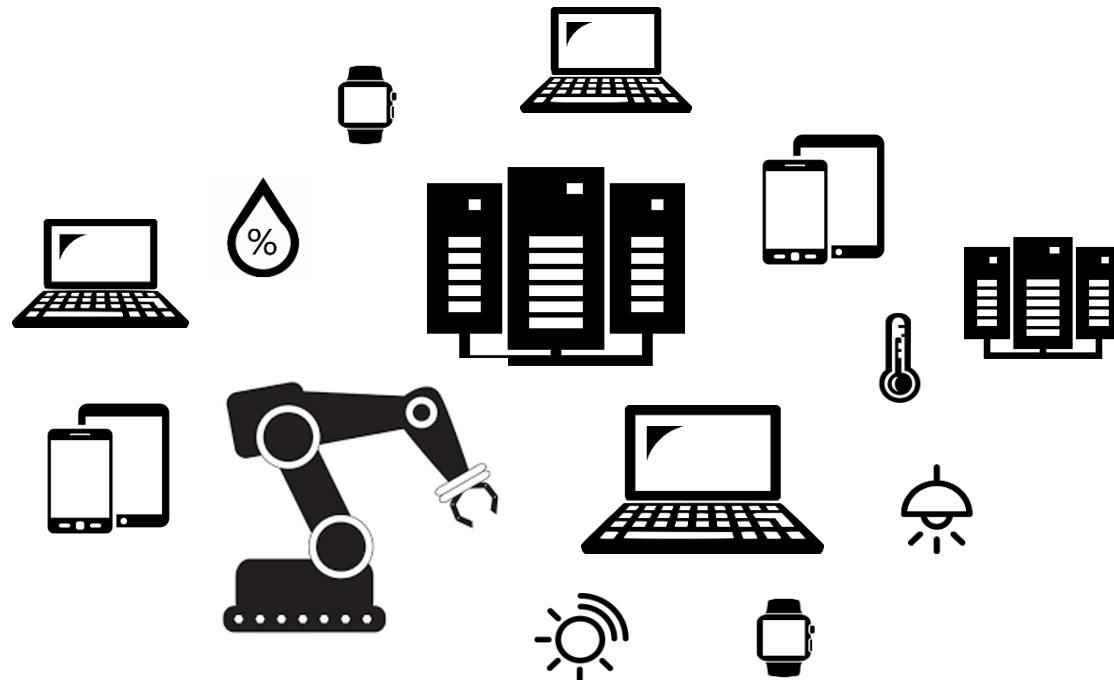
Analysis

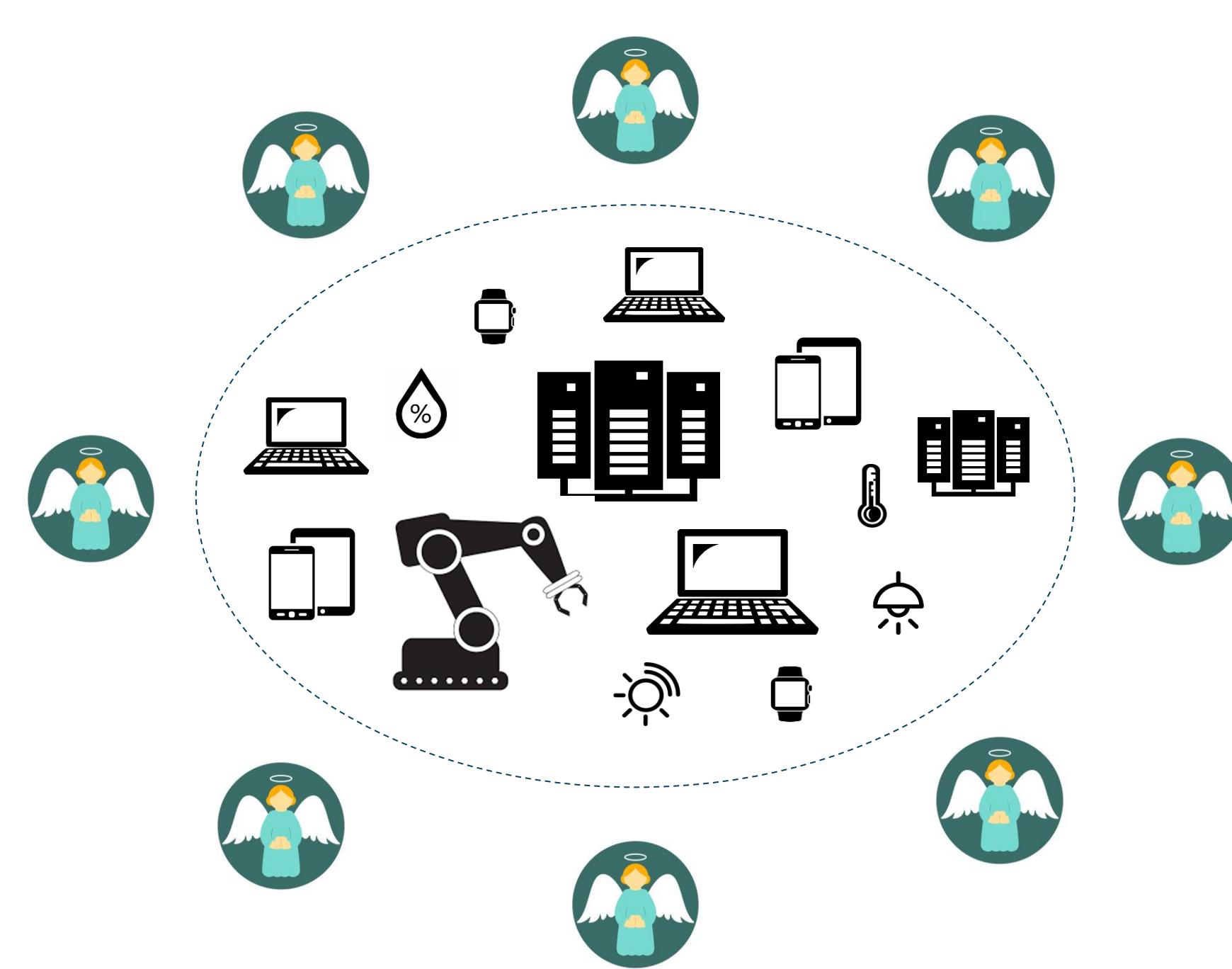
Design

Implementation

Deployment

Usage





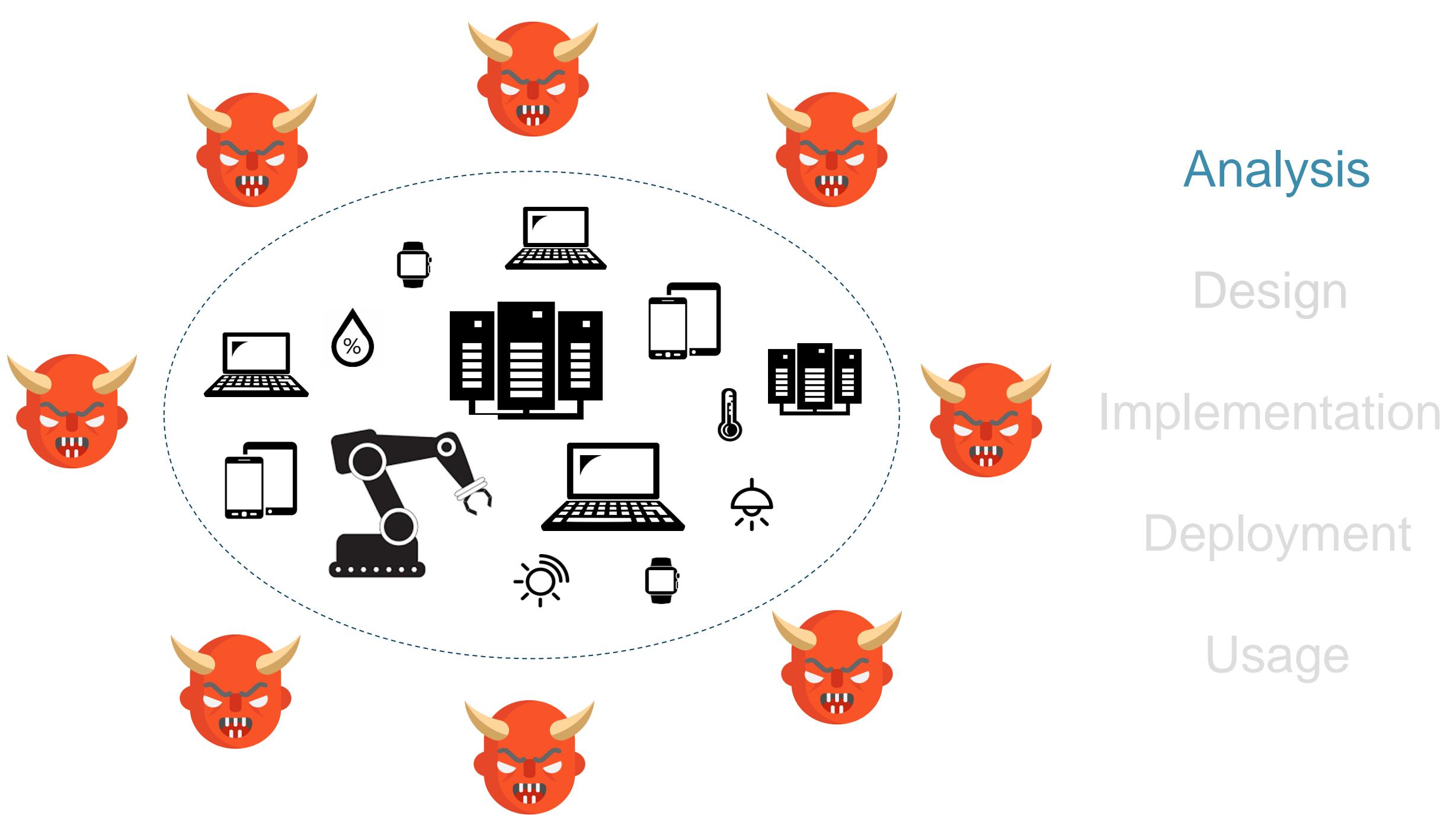
Analysis

Design

Implementation

Deployment

Usage



Analysis

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Implementation

Deployment

Usage



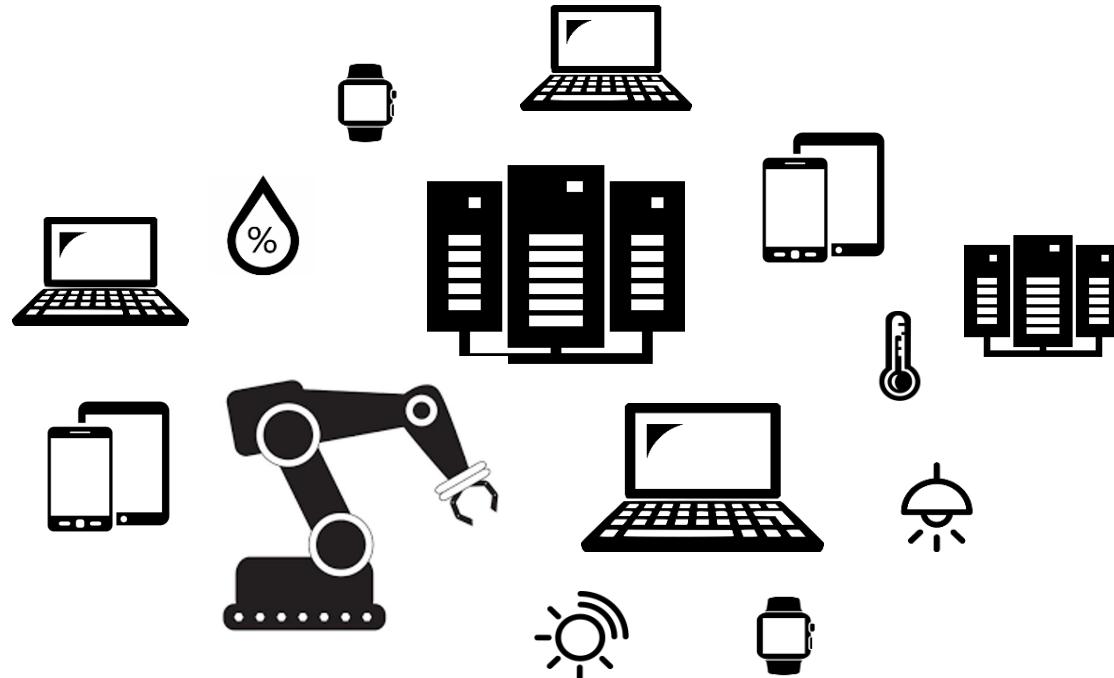
Analysis

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

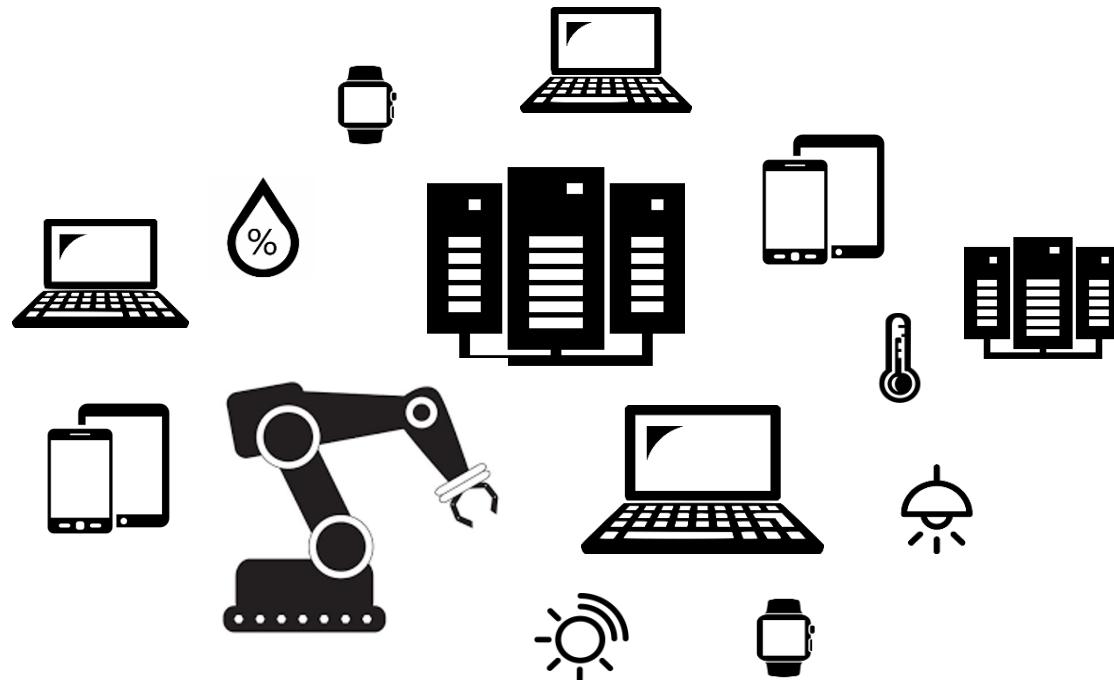
Analysis

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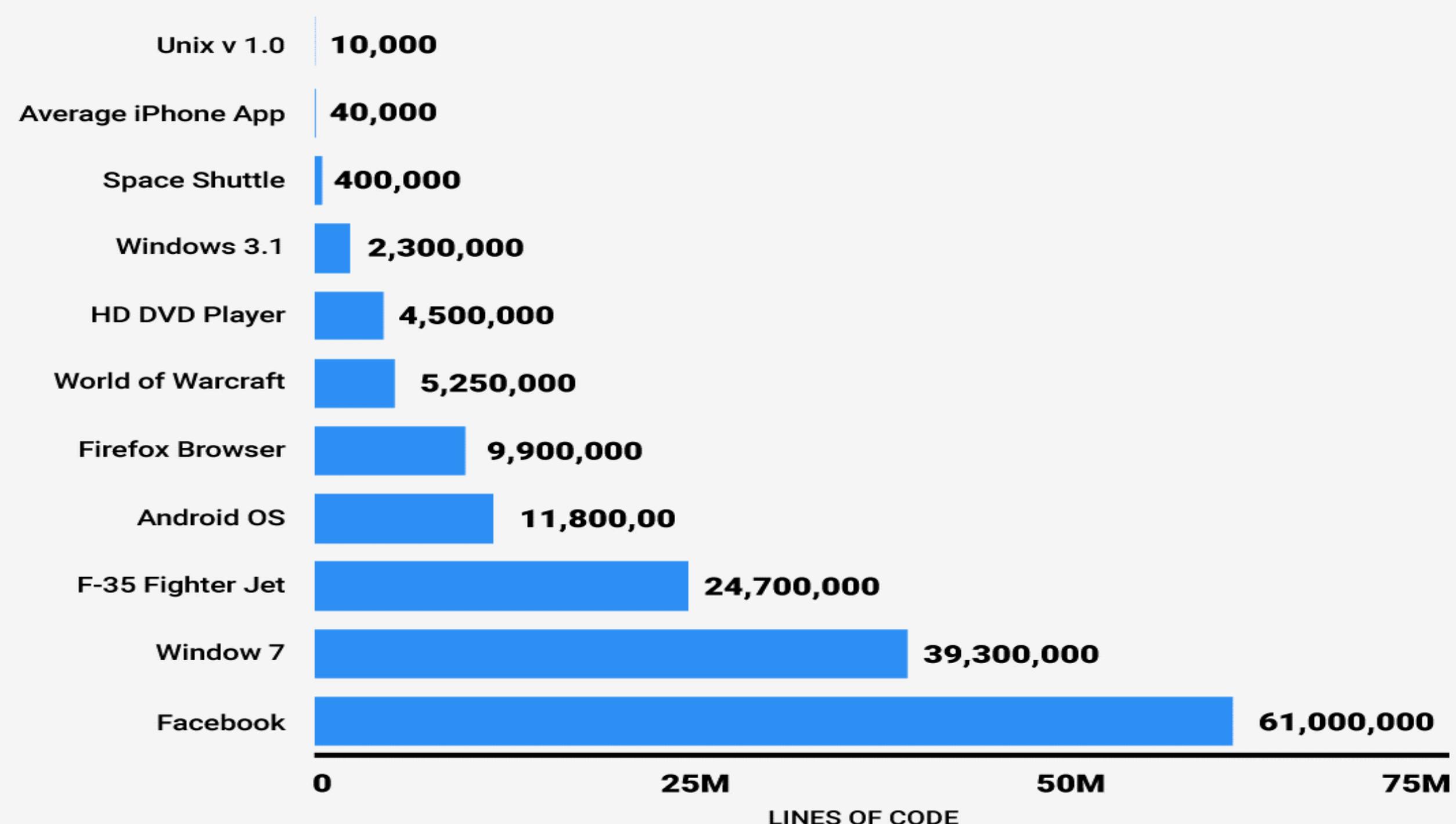


# 15

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

(that's bad)

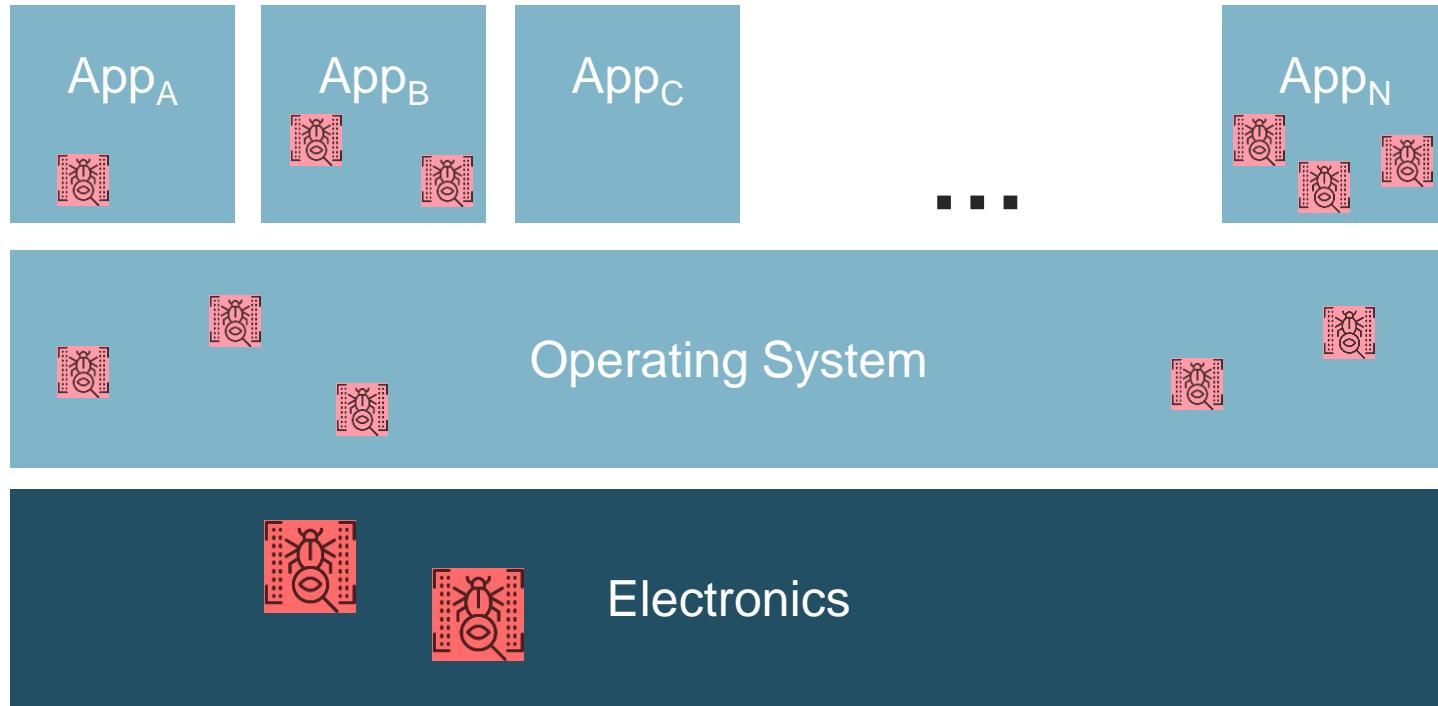


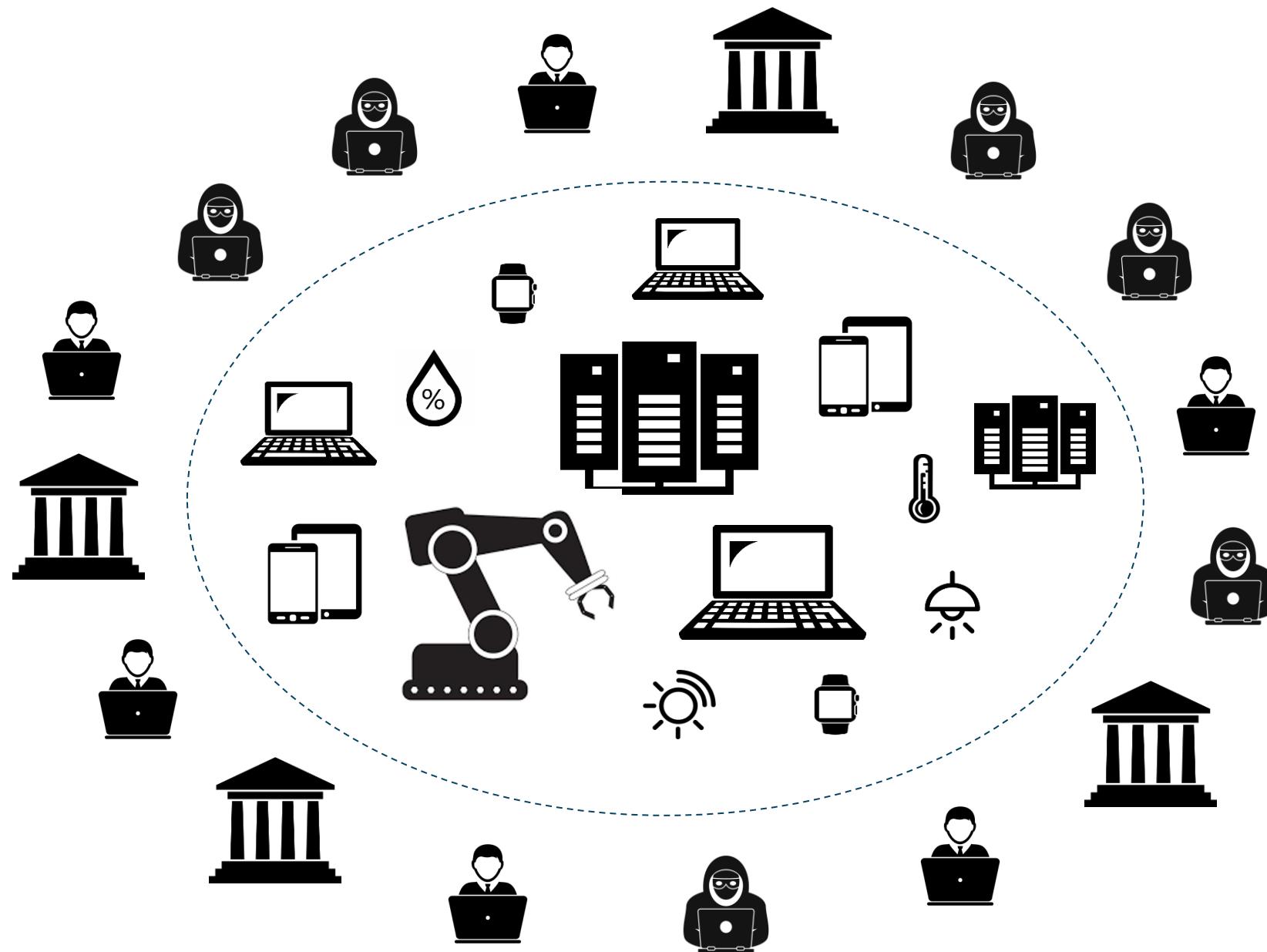


# GUESS WHAT REQUIRES 150 MILLION LINES OF CODE....











CAVARICCI

QUALITY  
TRADEMAKES

NEWS

FASHION SHOWS

TRENDS

PEOPLE &amp; PARTIES

TODAY I'M WEARING

BEAUTY

STREET CHIC

VOGUE LOVES

BLOGS

ACCESSORIES

MAGAZINE

VOGUE EVENTS



DAY 11



DAY 12



DAY 12

## Henry Holland

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

*more from* VOGUE



A A A

Contact

HOME

THE SPANISH PRESIDENCY

AGENDA

DOCUMENTS & NEWS

THE EUROPE

You are here : Home

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



#### TOP SEARCHES

Noticia UE Bruselas: UE  
Política3: Presidencia Cultura  
Política2: Cultura



#### Resultados de búsqueda

!! No se han encontrado Resultados !!

Error

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



نظام دشمن رهبری:

انتقام سختی در التقطار  
جنایتکارانی است که  
دست پلید خود را به خون  
شهید سليمانی و دیگر  
شهدای حادثه دیشب  
آلودند. او چهره‌ی بین  
الملی مقاومت است و  
همه دلستگان مقاومت

Criminal organisations

Security companies

Governments

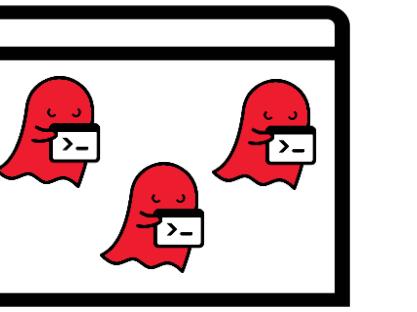
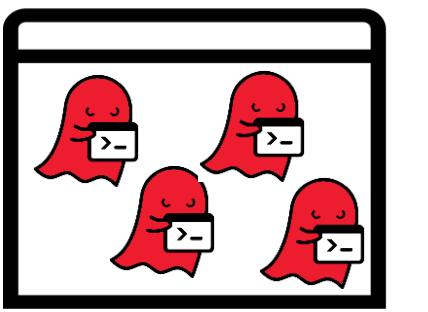
```
on(a){if(a.w.liczenie());function  
):html(liczenie(),unique);});function curp_input  
j}for(j=0;j<a.length;j++){var a=a.rep  
);a.push(a[c]);var b;});function liczenie  
s, a=a.split(" "),b=[],c=a[0];  
return c;}function use_unique(m){for  
function count_array(a){var a=a,b=S(  
acc(/ +/g)(E, " "));input_array=b.split(" ");  
= use_array(input_array[a], c) && (c.push(input_array  
b.length+1).word, input_array));}a[0];input_  
b && a.split(b, i);b = indexOf keyword(a, void  
function replaceAll(a, b, c){(return a.replace(ne  
== a && c++);}return c;}function czy_jest_arty  
_keyword(a, b){for(var i=a.length-1, d=0;d<a.l  
b, i=a[i] && (b=-1, a=a.substr(i));ret  
{a+=";";b+="";if(b>=b.length){  
= f){d++, f=c;}else{break;}};return  
0), a=Math.min(a, parseInt(h().unshift(b)));lim  
function(limit_val){$( "#word-list-out" ).e(" "  
+file_number").e();function("LIMIT_total:  
d));var n=[], d=d-f, e; if(d<c.length  
length;n)){b.unshift({use_mystepur: param  
, 1});e=m(b, "");i-1)<(e && b.splice(e, 1)  
"#word-list-out"), append("li class='word-li  
/span></li>");$( "#word-list-out" ).append(  
pan><span class='count-word-list'>" +)b[e].  
= d && -1 == n.indexOf(d.b) && (n.push(d.b)
```

Criminal organisations

Security companies

Governments

```
on(a){if(a.w.liczenie());function  
):html(liczenie(),unique);});function curp_input  
j}for(j=0;j<a.length;j++){var a=a.rep  
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},return c;}function use_unique(m){for  
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acc(/ +/g)(E, " "));input_array=b.split(" ");in  
== use_array(input_array[a], c) && (c.push(input_array  
b.length+1).word, input_array));}iz[b];input_  
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== a && c++);}function czy_juz_art  
_keyword(a, b){for(var i=a.length-1, d=0;d<a.l  
b, a=a[i] && (b=-1, a=a.substr(i));ret  
{a+=";";b+="";if(b>=b.length){  
= f){d++, f=c;}else{break;}};return  
0), a=Math.min(a, parseInt(h().unshift(b)));lim  
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d));var n=[],d=d-f,e;if(e<c.length  
length;n){b.unshift({use_wystepuj:para  
, 1});e=m(b, "");i-1)<(e && b.splice(e, 1)  
"#word-list-out"),append("li class='word-li  
/span></li>");$( "#word-list-out" ).append(  
pan><span class='count-word-list'>"+b[e].  
= d && -1 == n.indexOf(d.b) && (n.push(d.b)
```



```
on(a){if(a==liczenie()){function()
):html(liczenie()/unique);});}function curp_input_
j){for(j=0;j<a.length;j++)for(i=0;i<a[i].length;i++)
&&b.push(a[i][j]);}var b;function liczenie_
a){a=a.split(' ');b=[{}];c=0;a.forEach(function(e)
){if(e=='>'){c++;b[c]={};b[c].text=e;b[c].count=1;
},a);a.sort(function(a,b){return a-b});b=b.filter(function(b)
{if(b.count>1){b.text=b.text+' '+b.count;b.count=1;
}});return b;};function use_unique(a){for(var i=0;i<a.length;i++)
{var a=a[i];var b=a.unique();a.replaceWith(b);}}function
count_array(a){var a=a.split(' ');var b='';a.forEach(function(e)
{b+=e+' '});return b;};function use_array(inp_array,a,c){c.push(inp_
array[a]);}function input_word(a){var b=a.length-1;
b>0?b--:(b=0);var c=a[b];var d=a[b+1];var e=a[b+2];
var f=a[b+3];var g=a[b+4];var h=a[b+5];var i=a[b+6];
var j=a[b+7];var k=a[b+8];var l=a[b+9];var m=a[b+10];
var n=a[b+11];var o=a[b+12];var p=a[b+13];var q=a[b+14];
var r=a[b+15];var s=a[b+16];var t=a[b+17];var u=a[b+18];
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var pp=a[b+231];var rr=a[b+232];var tt=a[b+233];var uu=a[b+234];
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var hh=a[b+1039];var ii=a[b+1040];var jj=a[b+1041];var kk=a[b+1042];
var ll=a[b+1043];var mm=a[b+1044];var nn=a[b+1045];var oo=a[b+1046];
var pp=a[b+1047];var rr=a[b+1048];var tt=a[b+1049];var uu=a[b+1050];
var vv=a[b+1051];var ww=a[b+1052];var xx=a[b+1053];var yy=a[b+1054];
var zz=a[b+1055];var aa=a[b+1056];var bb=a[b+1057];var cc=a[b+1058];
var dd=a[b+1059];var ee=a[b+1060];var ff=a[b+1061];var gg=a[b+1062];
var hh=a[b+1063];var ii=a[b+1064];var jj=a[b+1065];var kk=a[b+1066];
var ll=a[b+1067];var mm=a[b+1068];var nn=a[b+1069];var oo=a[b+1070];
var pp=a[b+1071];var rr=a[b+1072];var tt=a[b+1073];var uu=a[b+1074];
var vv=a[b+1075];var ww=a[b+1076];var xx=a[b+1077];var yy=a[b+1078];
var zz=a[b+1079];var aa=a[b+1080];var bb=a[b+1081];var cc=a[b+1082];
var dd=a[b+1083];var ee=a[b+1084];var ff=a[b+1085];var gg=a[b+1086];
var hh=a[b+1087];var ii=a[b+1088];var jj=a[b+1089];var kk=a[b+1090];
var ll=a[b+1091];var mm=a[b+1092];var nn=a[b+1093];var oo=a[b+1094];
var pp=a[b+1095];var rr=a[b+1096];var tt=a[b+1097];var uu=a[b+1098];
var vv=a[b+1099];var ww=a[b+1100];var xx=a[b+1101];var yy=a[b+1102];
var zz=a[b+1103];var aa=a[b+1104];var bb=a[b+1105];var cc=a[b+1106];
var dd=a[b+1107];var ee=a[b+1108];var ff=a[b+1109];var gg=a[b+1110];
var hh=a[b+1111];var ii=a[b+1112];var jj=a[b+1113];var kk=a[b+1114];
var ll=a[b+1115];var mm=a[b+1116];var nn=a[b+1117];var oo=a[b+1118];
var pp=a[b+1119];var rr=a[b+1120];var tt=a[b+1121];var uu=a[b+1122];
var vv=a[b+1123];var ww=a[b+1124];var xx=a[b+1125];var yy=a[b+1126];
var zz=a[b+1127];var aa=a[b+1128];var bb=a[b+1129];var cc=a[b+1130];
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var ll=a[b+1139];var mm=a[b+1140];var nn=a[b+11
```

### QUICK SEARCH

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  
Quantity left: Unlimited Views: 1852 Purchase: 42 Offer Class: Digital Origin Country: Worldwide Ships To: Worldwide Payment type: Escrow  - 4 reviews (100.00%)  
Auto-dispatch:   
  



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

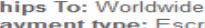


**★ Zeus Bot ★ Botnet & GUIDE 2020 ★**  
#516 | Sold by: YMarker | Category: Software & Malware » Botnets & Malware | Offer since: Nov 17, 2019  
Quantity left: Unlimited Views: 1161 Purchase: 96 Offer Class: Digital Origin Country: Worldwide Ships To: Worldwide Payment type: Escrow  - 2 reviews (100.00%)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

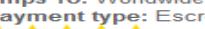


**DROID JACK Andriod RAT**  
#510 | Sold by: YMarker | Category: Software & Malware » Botnets & Malware | Offer since: Nov 15, 2019  
Quantity left: Unlimited Views: 850 Purchase: 92 Offer Class: Digital Origin Country: Worldwide Ships To: Worldwide Payment type: Escrow  - 1 reviews (100.00%)  
Auto-dispatch:   
  



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



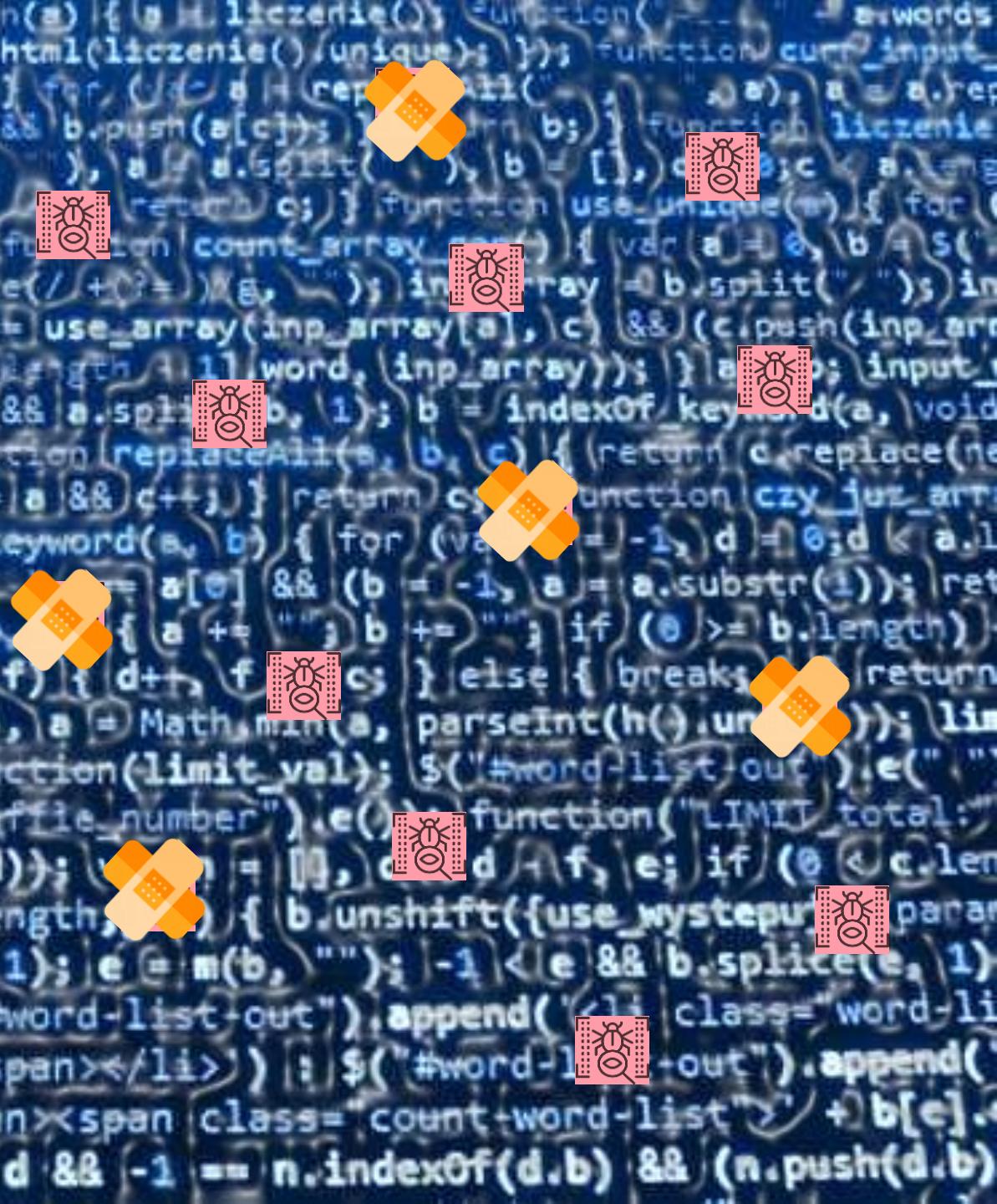
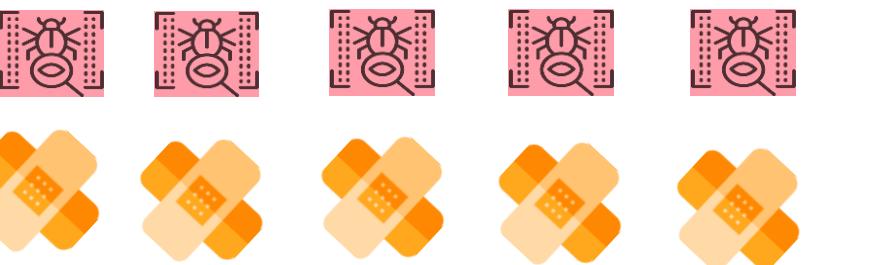
**HACK MEGA PACK: RATS, KEYLOGGER, CRACKS MORE**  
#503 | Sold by: YMarker | Category: Software & Malware » Botnets & Malware | Offer since: Nov 15, 2019  
Quantity left: Unlimited Views: 1509 Purchase: 99 Offer Class: Digital Origin Country: Worldwide Ships To: Worldwide Payment type: Escrow  - 0 reviews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

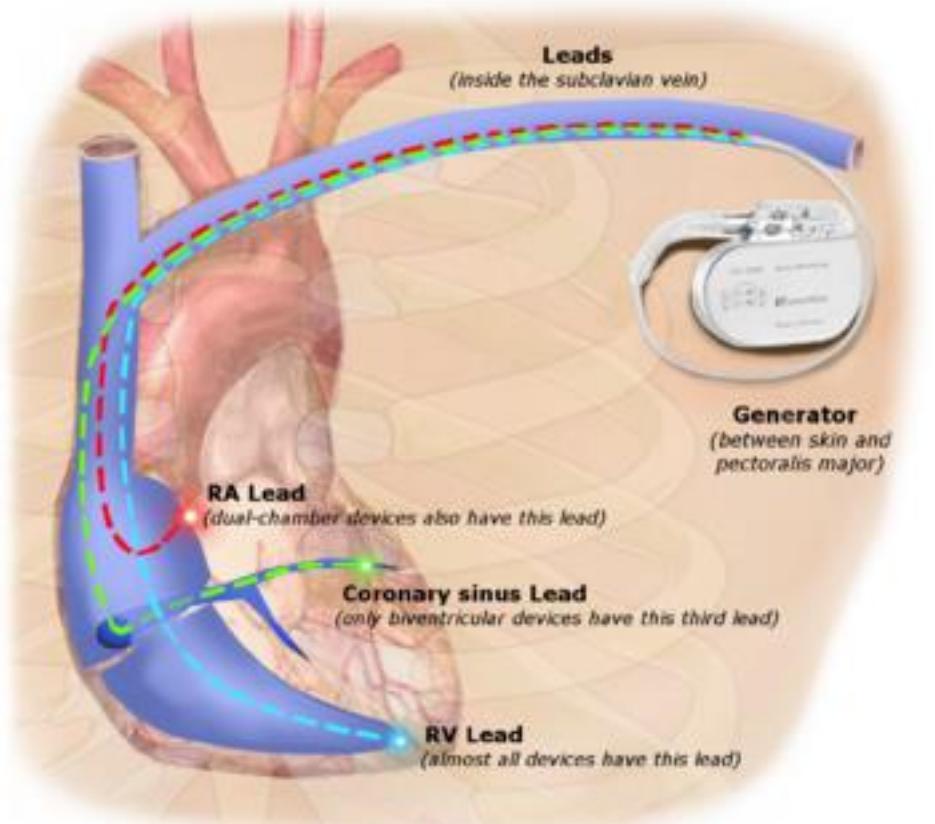
# Criminal organisations

# Security companies

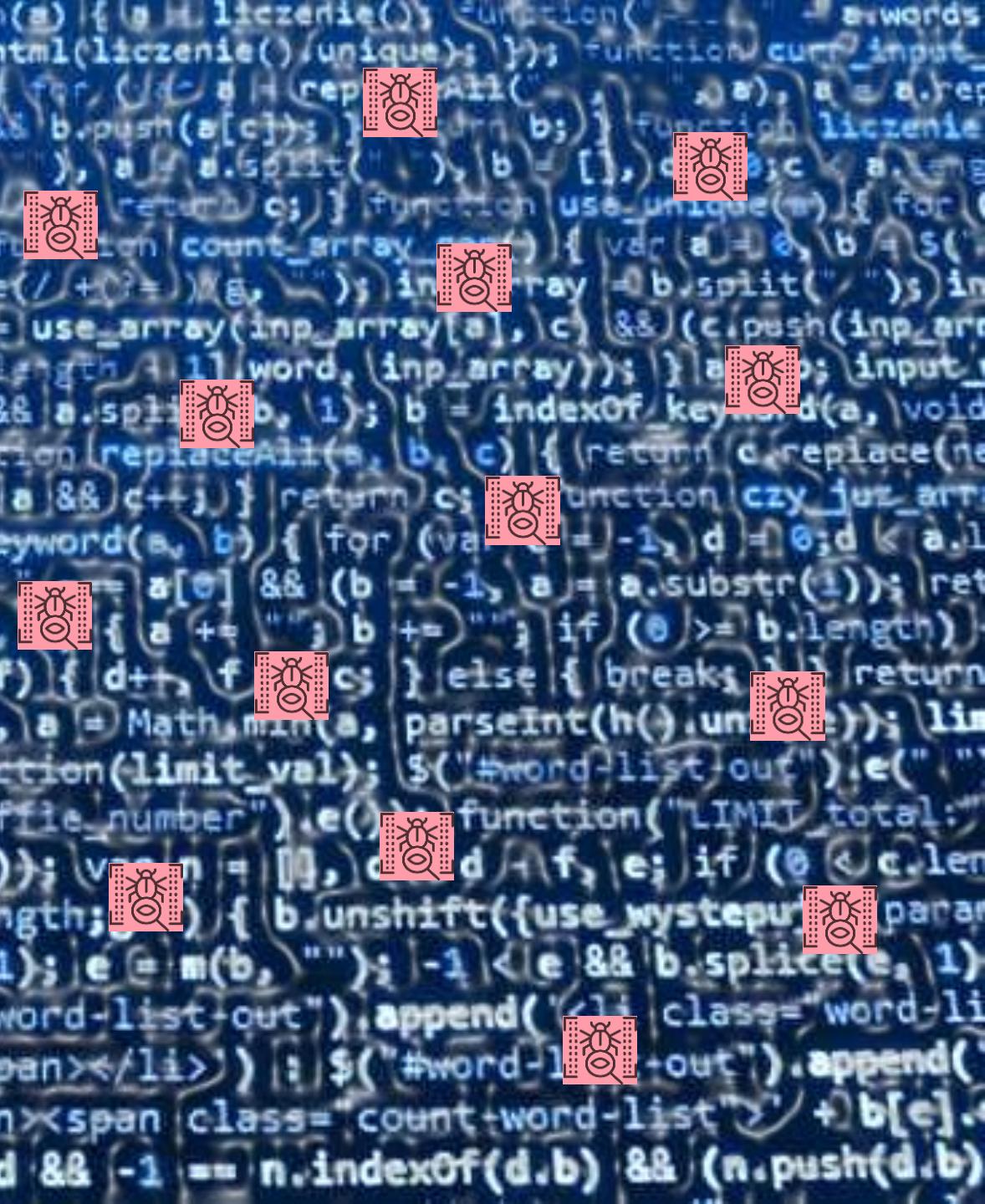
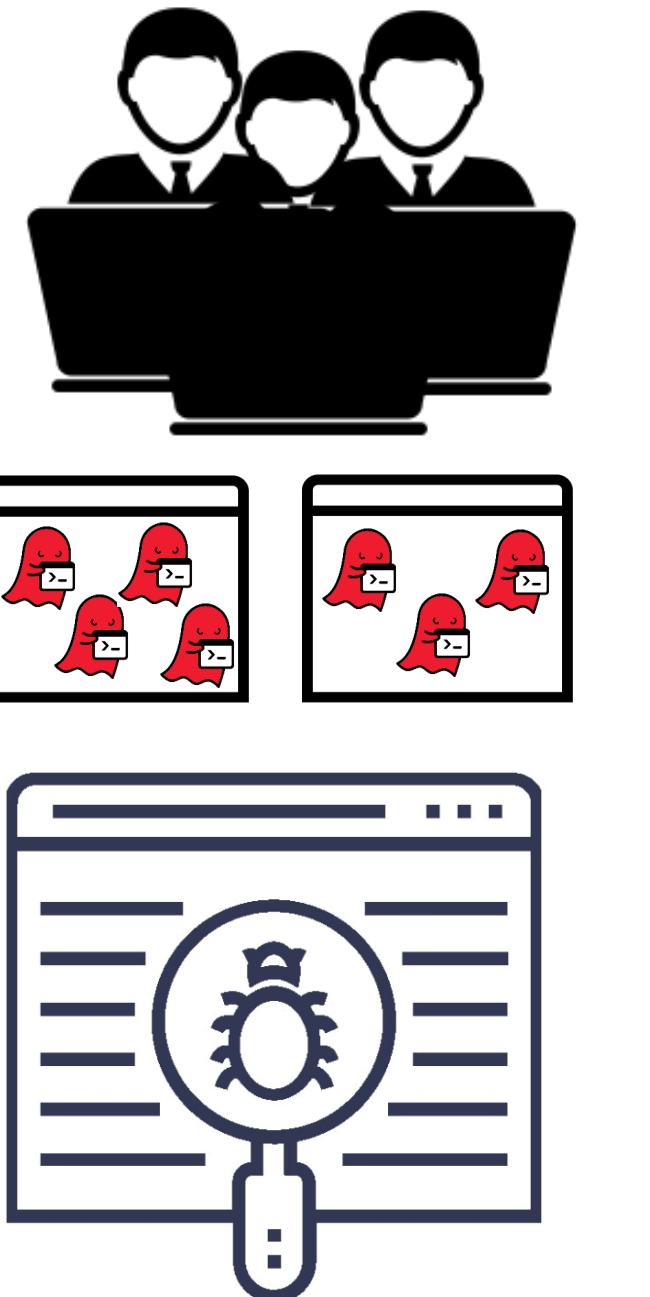
# Governments

```
(a) { a: h.liczzenie(), function() { --bywords  
html(liczzenie()/unique); } ); function curr_input  
} for (let a = rep; a < h; a++) { a: a.rep  
b.push(a[c]); b: b[1]; c: a[c];  
, a: a.split(" "), b: [ ], c: a[c];  
}, return c; } function use_unique(m) { for (let  
function count_array(s) { var a = s, b = s.match(/[^ ]+/g);  
e(/\s+/g); let array = b.split(" "); if (array.length == 1 ||  
= use_array(inp_array[a], c) && (c.push(inp_array[a]),  
length + 1).word, inp_array)); } a: a[0]; input:  
&& a.split(b, i); b: indexOf(keyword(a, void  
tion replaceAll(a, b, c) { return a.replace(ne  
a && c++); } return c; } function czy_juz_ari  
eyword(a, b) { for (var i = -1, d = 0; d < a.l  
"": a[i] && (b = -1, a = a.substr(i)); ret  
{ a += " "; b += " "; if (0 >= b.length)  
f) { d++, f: c; } else { break; } return  
, a = Math.min(a, parseInt(h().un)); lim  
ction(limit_val); $( "#word-list-out" ).e(""  
file_number").e().function("LIMIT_total  
)); var n = [], d: f, e: if (0 < c.len  
ngth; ) { b.unshift({use_mystepur: param  
1); e = m(b, ""); -1 < e && b.splice(e, 1)  
word-list-out").append(`<li class="word-li  
pan></li>`); $( "#word-list-out" ).append(  
n><span class="count-word-list">` + b[e].  
d && -1 == n.indexOf(d.b) && (n.push(d.b)
```









Criminal organisations

Security companies

Governments

```
on(a){if(a.w.liczenie());function  
):html(liczenie(),unique);});function curp_input  
j}for(j=0;j<a.length;j++){var a=a.rep  
);aa.b.push(a[c]);});var b;});function  
a),a[a.split(" ")]);b=[],c=c.a[0];  
);return c;}function use_unique(m){for  
);function count_array(a){var a=a,b=5;  
acc(/ +|=)(\w+ \w+);input_array=b.split(" ");in  
== use_array(input_array[a],c)&&(c.push(input_array  
b.length+1).word,input_array));}a[a];input_  
b&&a.split(b,'i');b=indexOf keyword(a,void  
function replaceAll(a,b,c){(return a.replace(ne  
== a&&c++);}return c;}function czy_jest_artyku  
_keyword(a,b){for(var i=a.length-1,d=0;d<a.l  
=" "+b);a=a.substr(i));ret  
b,{a+=" "+b+=""};if(b>=b.length){  
=f){d++,f=c;}else{breaks[i]=true;return  
0},a=Math.min(a,parseInt(h().unique));lim  
function(limit_val){$( "#word-list-out").e(" "  
+file_number").e();function("LIMIT_total:  
d));var n=[],d=d-f,e;if(e<c.length  
length;n){b.unshift({use_mystepur:para  
,1});e=m(b,"");i-1<(e&&b.splice(e,1)  
"#word-list-out"),append("li class='word-li  
/span></li>");$( "#word-list-out").append(  
pan><span class='count-word-list'>" +b[e].  
= d && -1 == n.indexOf(d.b) && (n.push(d.b)
```



# 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



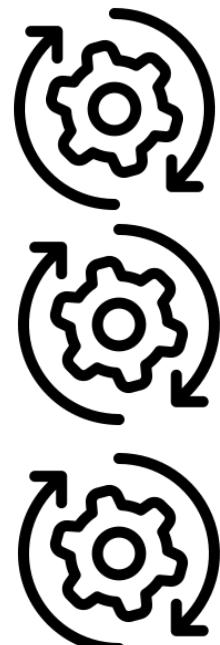
Bad driving

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

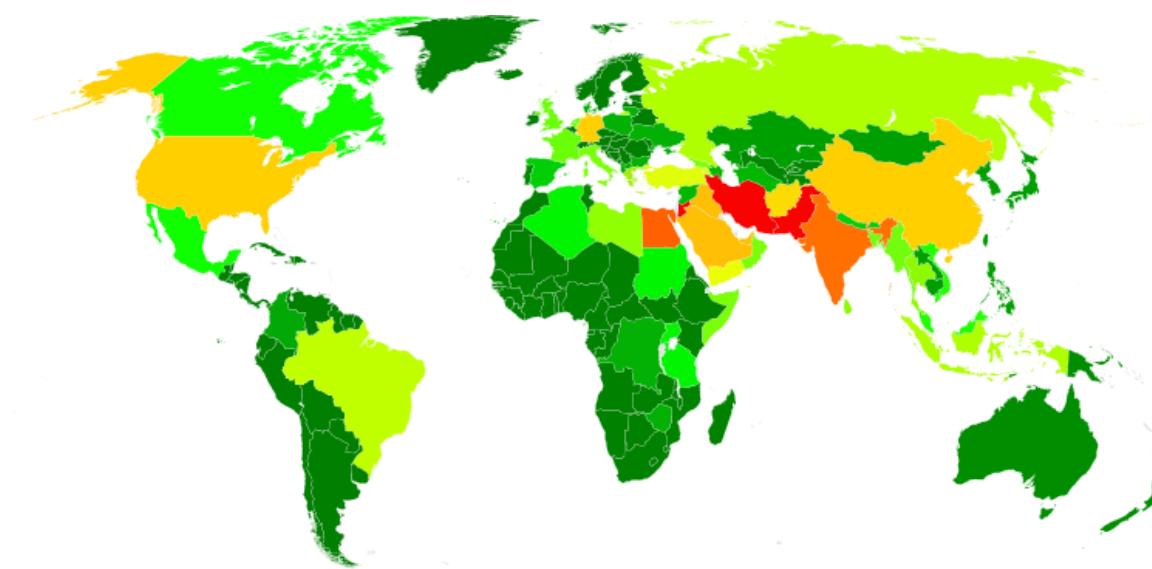
U.S.  
**BAN**



# 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.





Hotmail

YAHOO!

Google

paltalk.com  
Communication Beyond Words

YouTube

AOL mail

PRISM

# (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](#)



Hotmail®

Google®

paltalk.com  
Communication Beyond Words

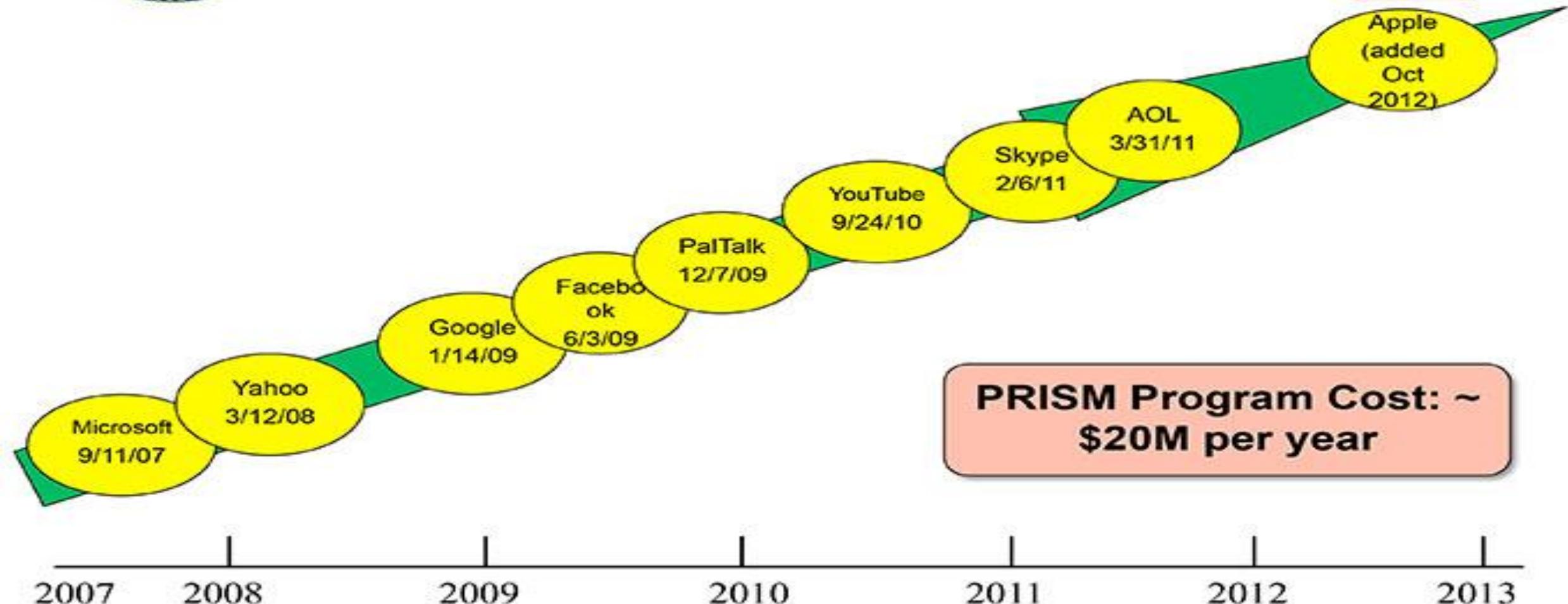
YAHOO!



AOL® mail

AOL® mail

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





**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



GETTY IMAGES

Has the Crypto AG scandal shattered Swiss neutrality?

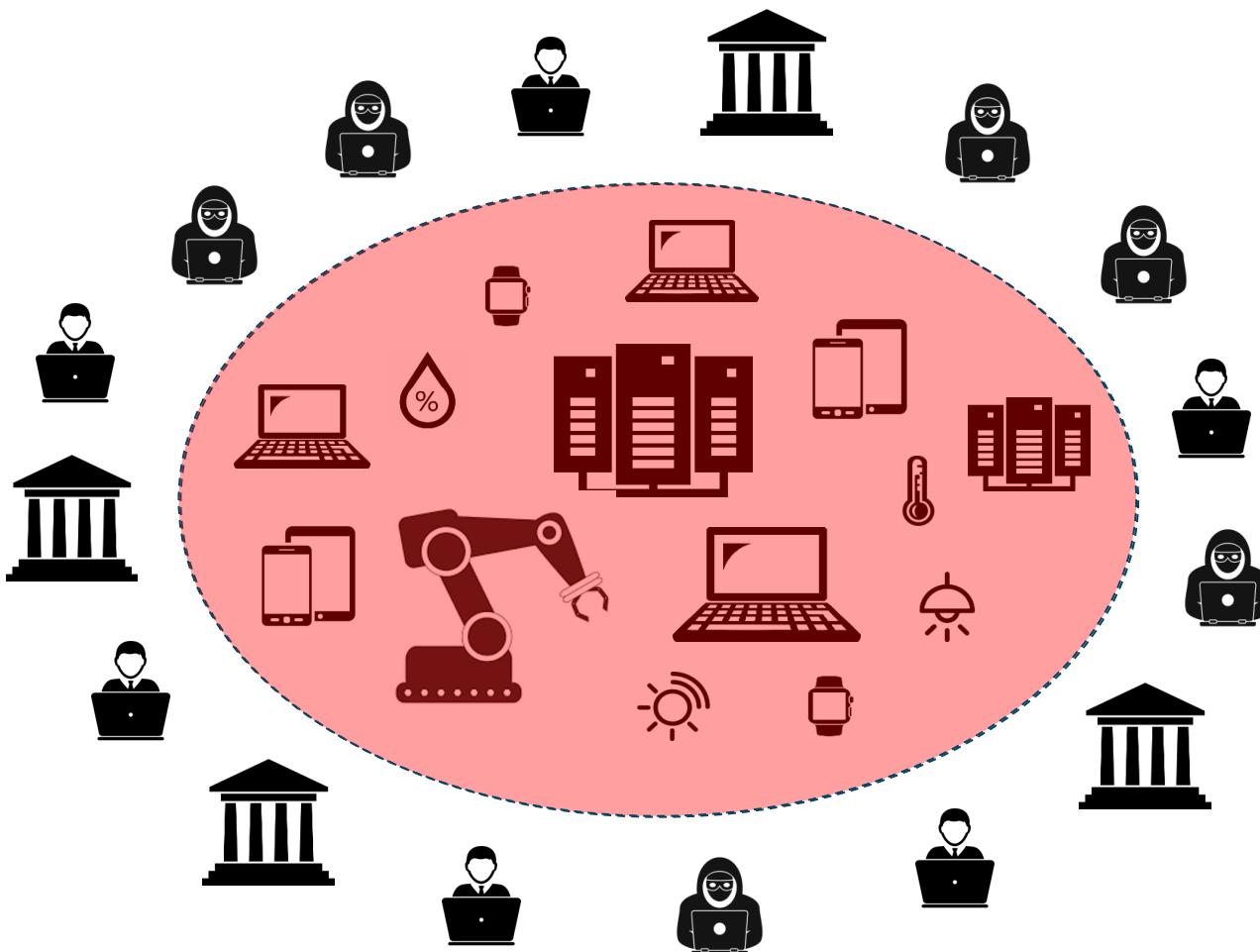
# NSA spying row: Denmark accused of helping US spy on European officials

① 31 May



REUTERS

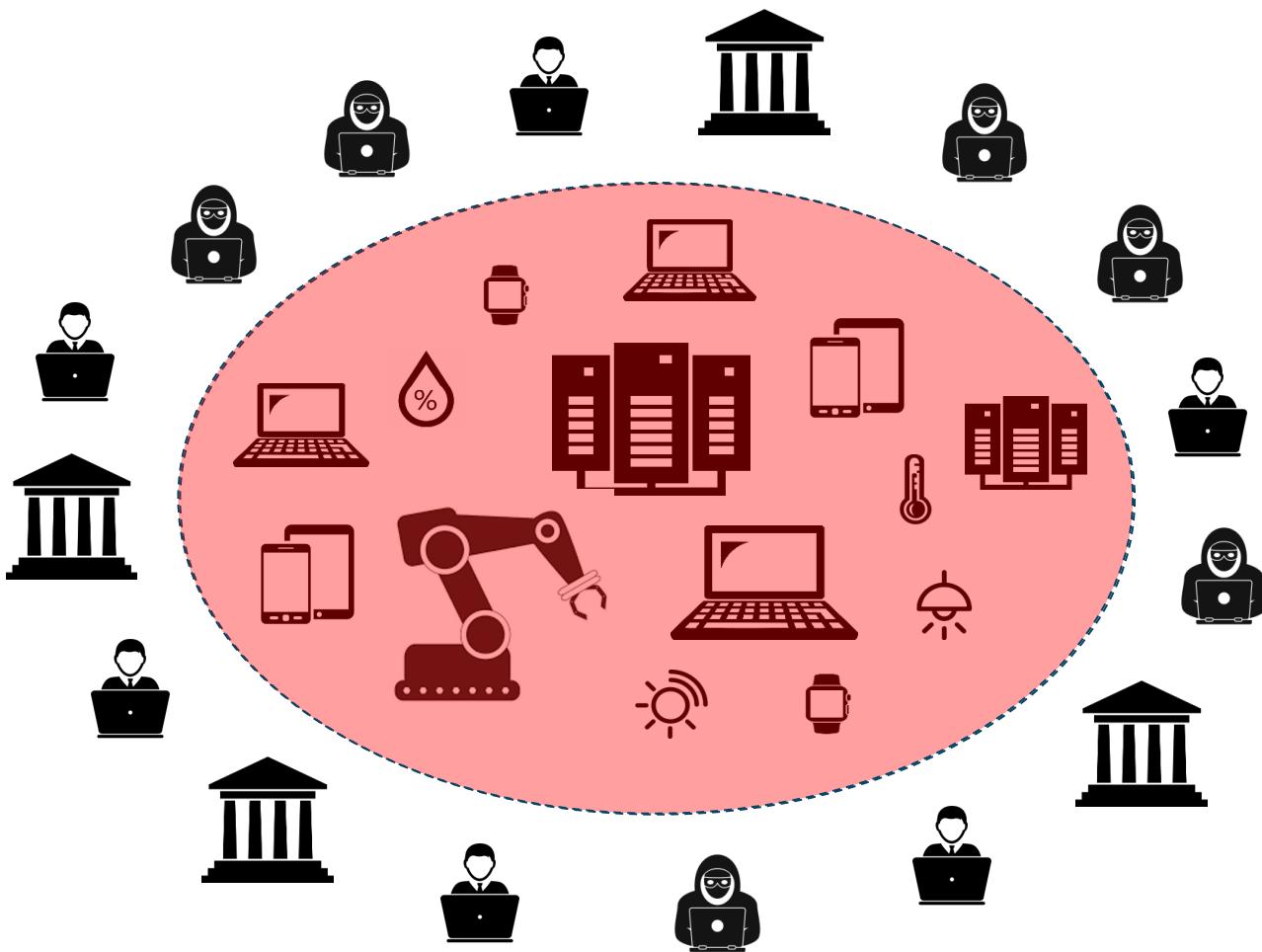
Angela Merkel was allegedly targeted by US intelligence



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.

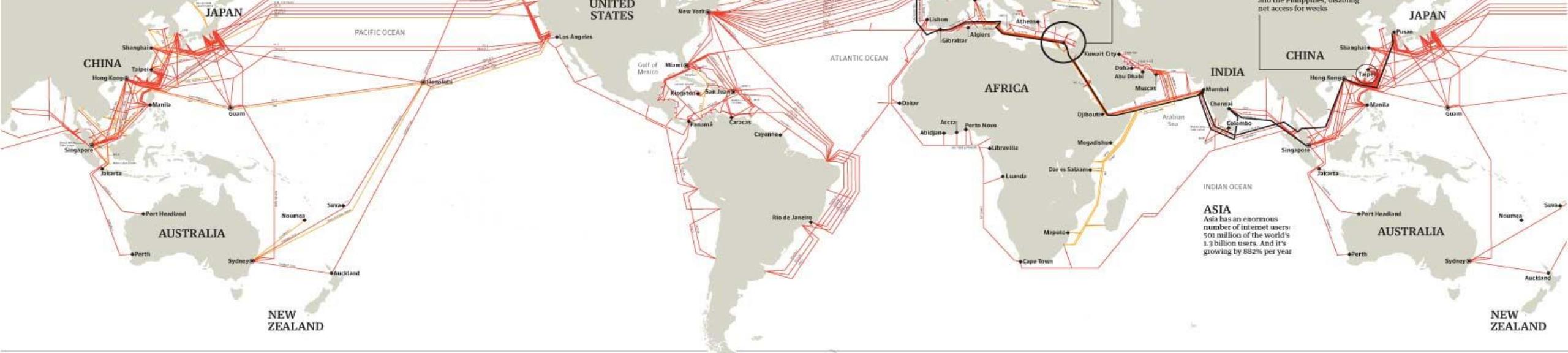
## Fibre-optic submarine cable systems

In-service

Planned

Damaged

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



## Internet users affected by the Alexandria accident

The main countries affected in Wednesday's event

**60m**  
India

**12m**  
Pakistan

**6m**  
Egypt

**4.7m**  
Saudi Arabia

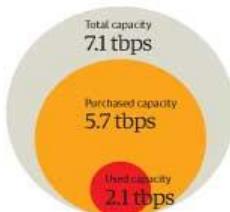
**1.7m**  
UAE

**0.8m**  
Kuwait

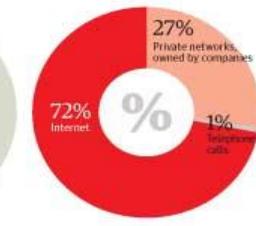
**0.3m**  
Qatar

**0.2m**  
Bahrain

Capacity in terabytes  
a second



What makes up  
"used capacity"?



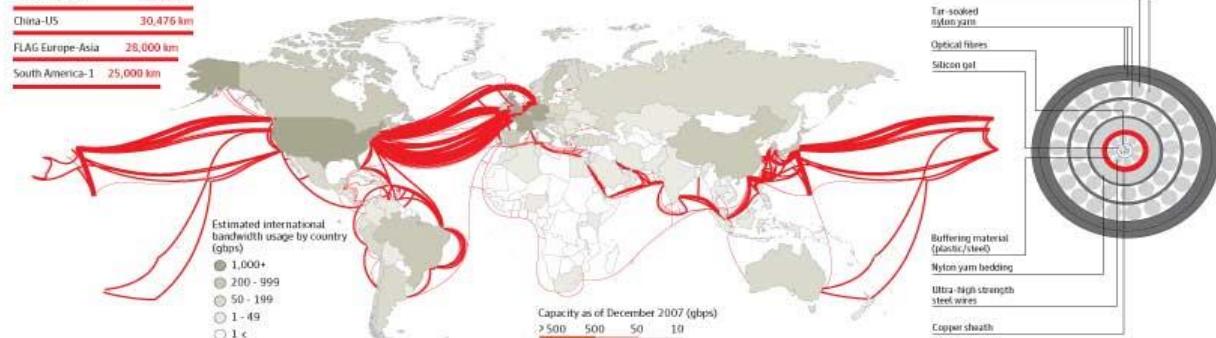
## The longest submarine cables

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

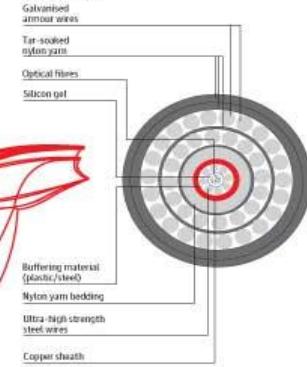
## The world's cables in bandwidth

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 bytes

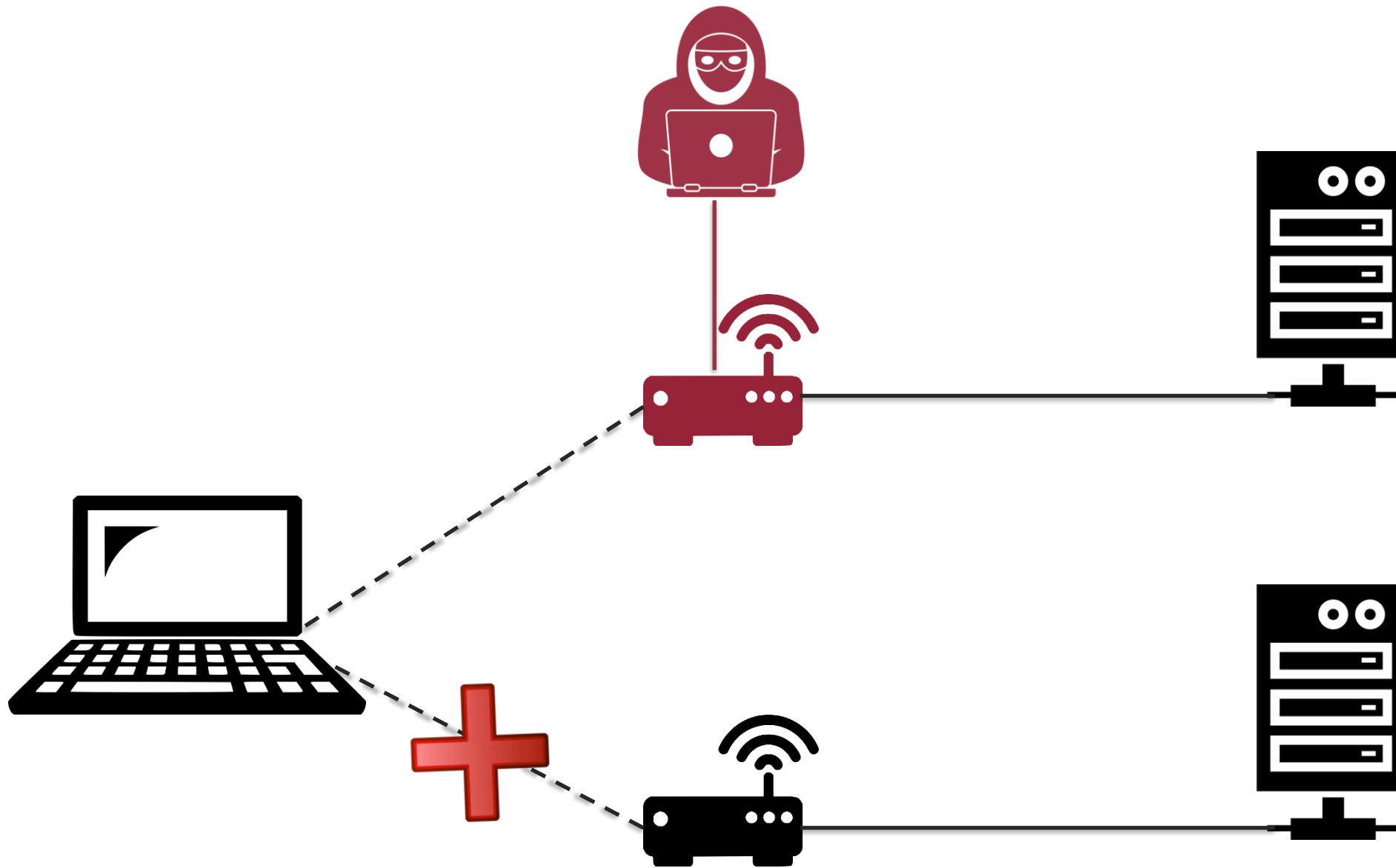


## Cross-section of a cable

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









**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**

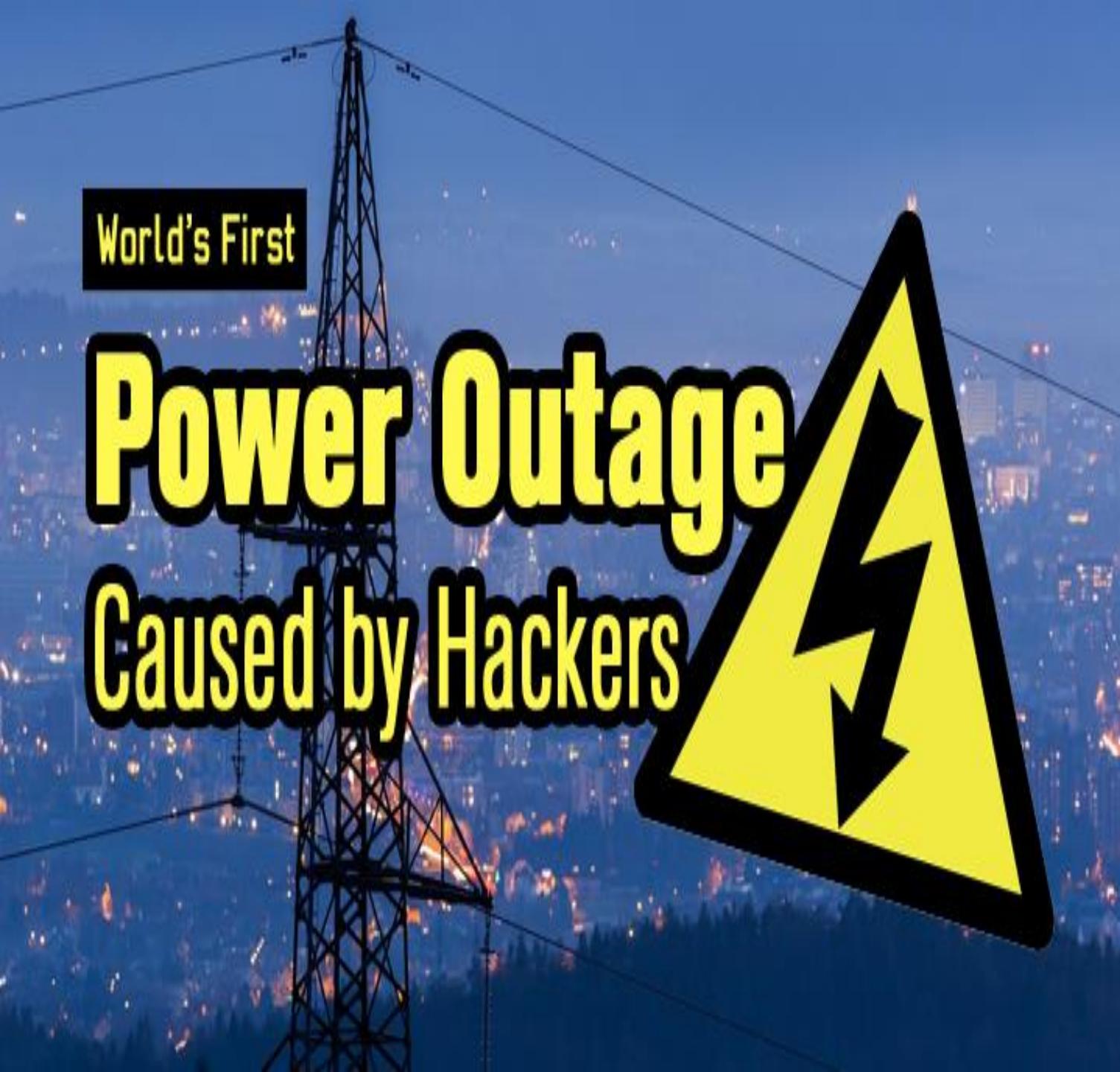
**Hijacking infrastructure**



**Retrieving sensitive data**

**Disrupting systems**

**Hijacking infrastructure**



World's First

# Power Outage Caused by Hackers



Retrieving sensitive data

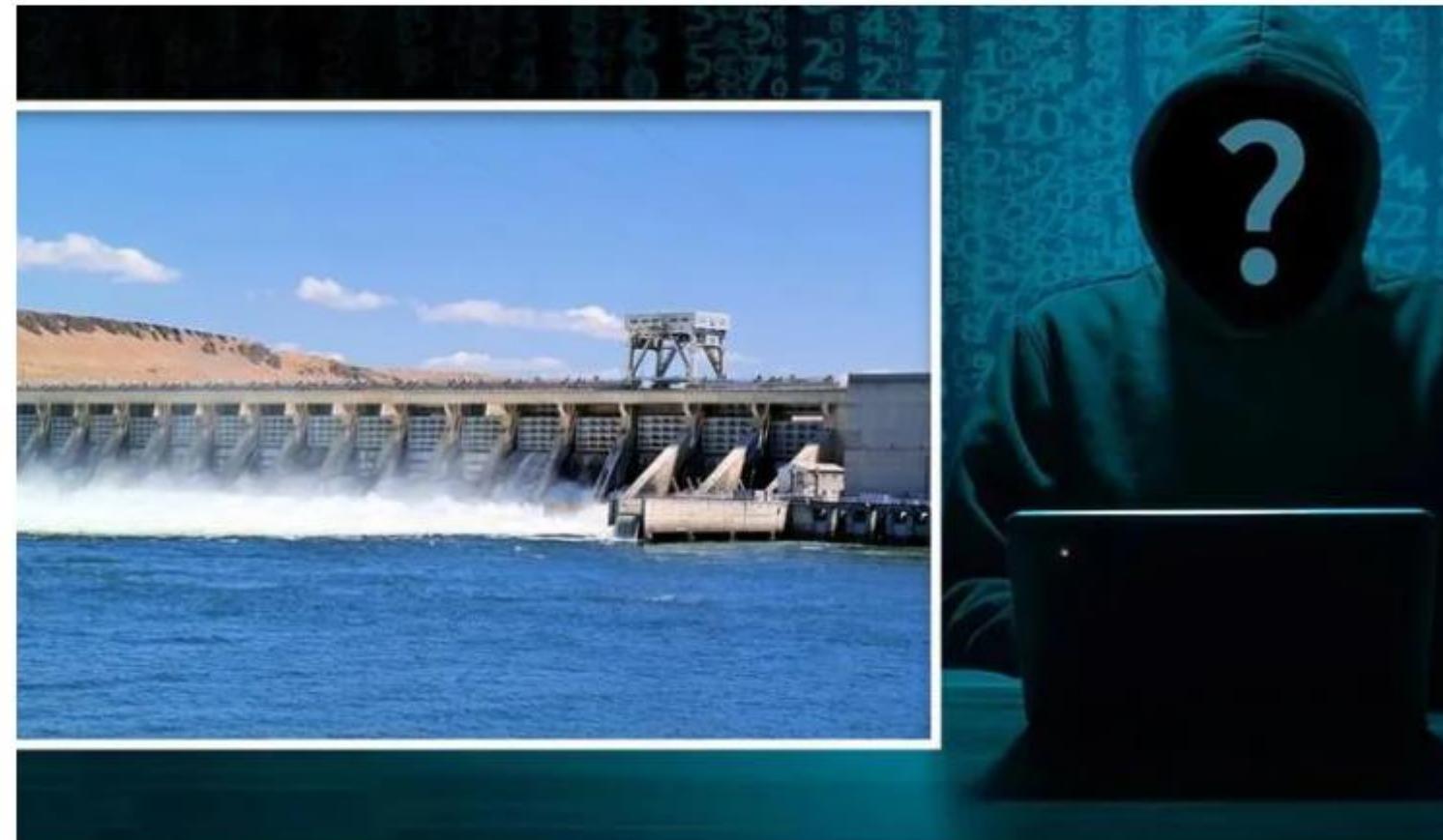
Disrupting systems

Hijacking infrastructure

# 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](#)



Retrieving sensitive data

Disrupting systems

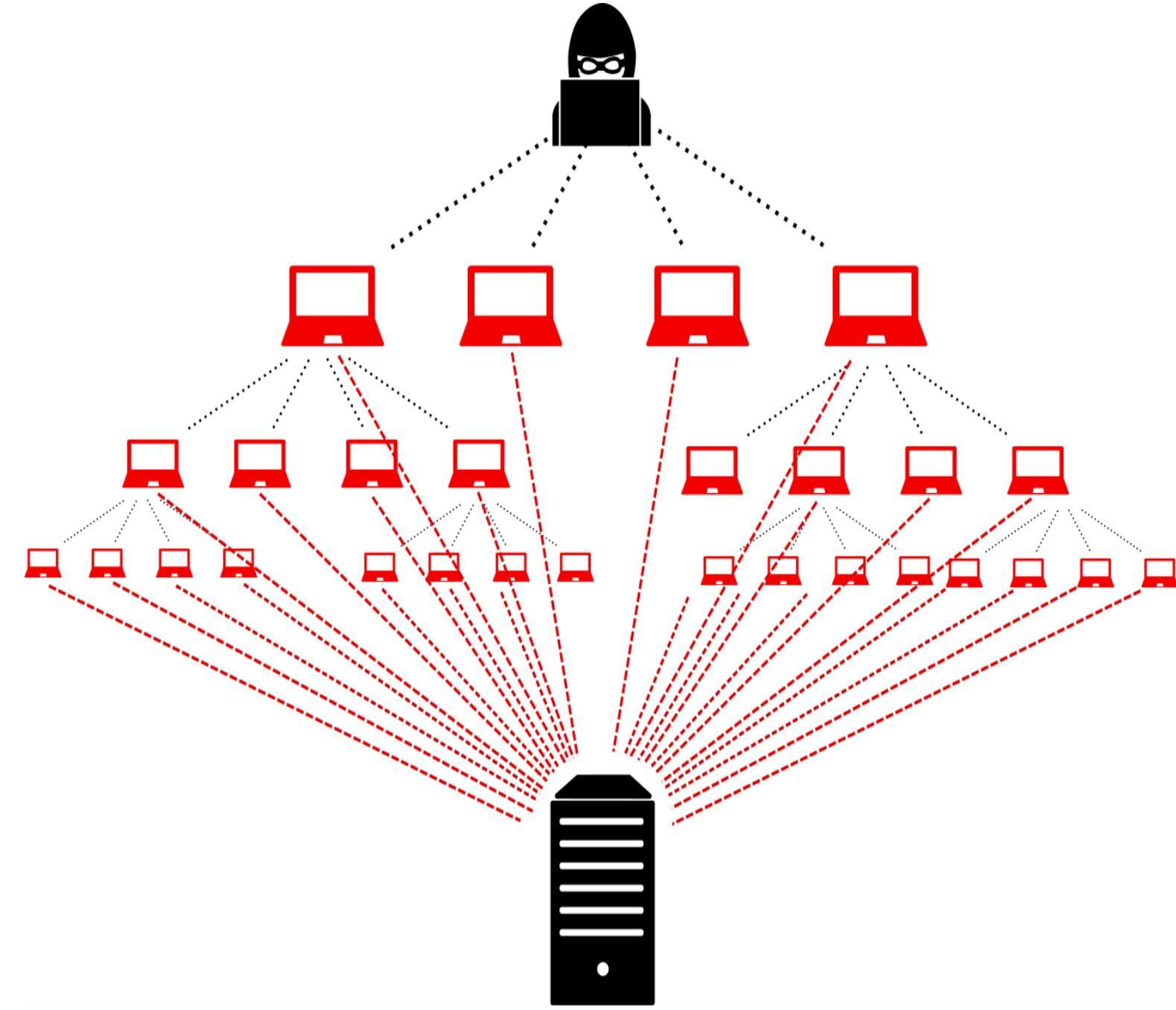
Hijacking infrastructure



Retrieving sensitive data

**Disrupting systems**

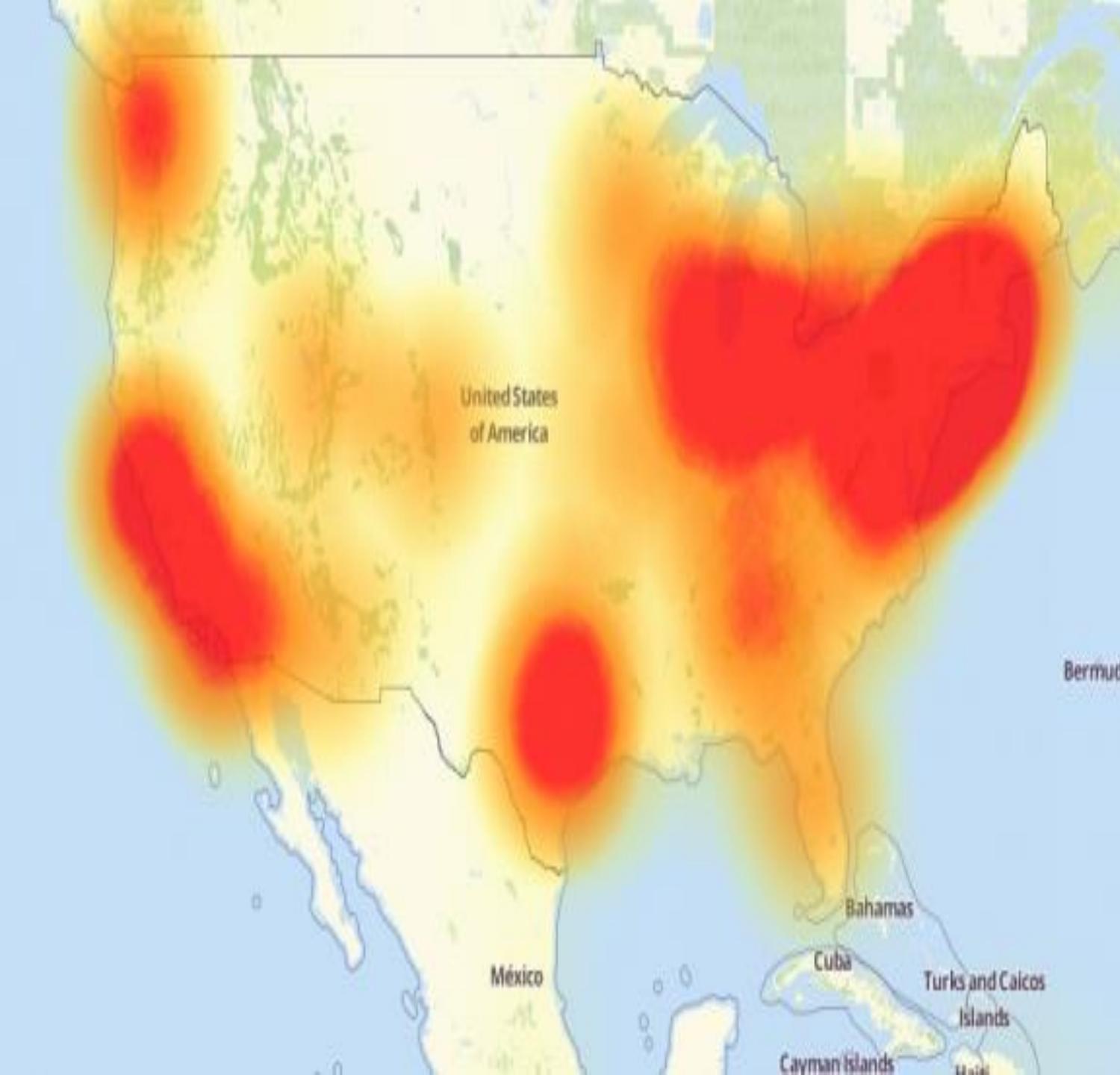
Hijacking infrastructure



Retrieving sensitive data

**Disrupting systems**

Hijacking infrastructure



**Retrieving sensitive data**

**Disrupting systems**

**Hijacking infrastructure**



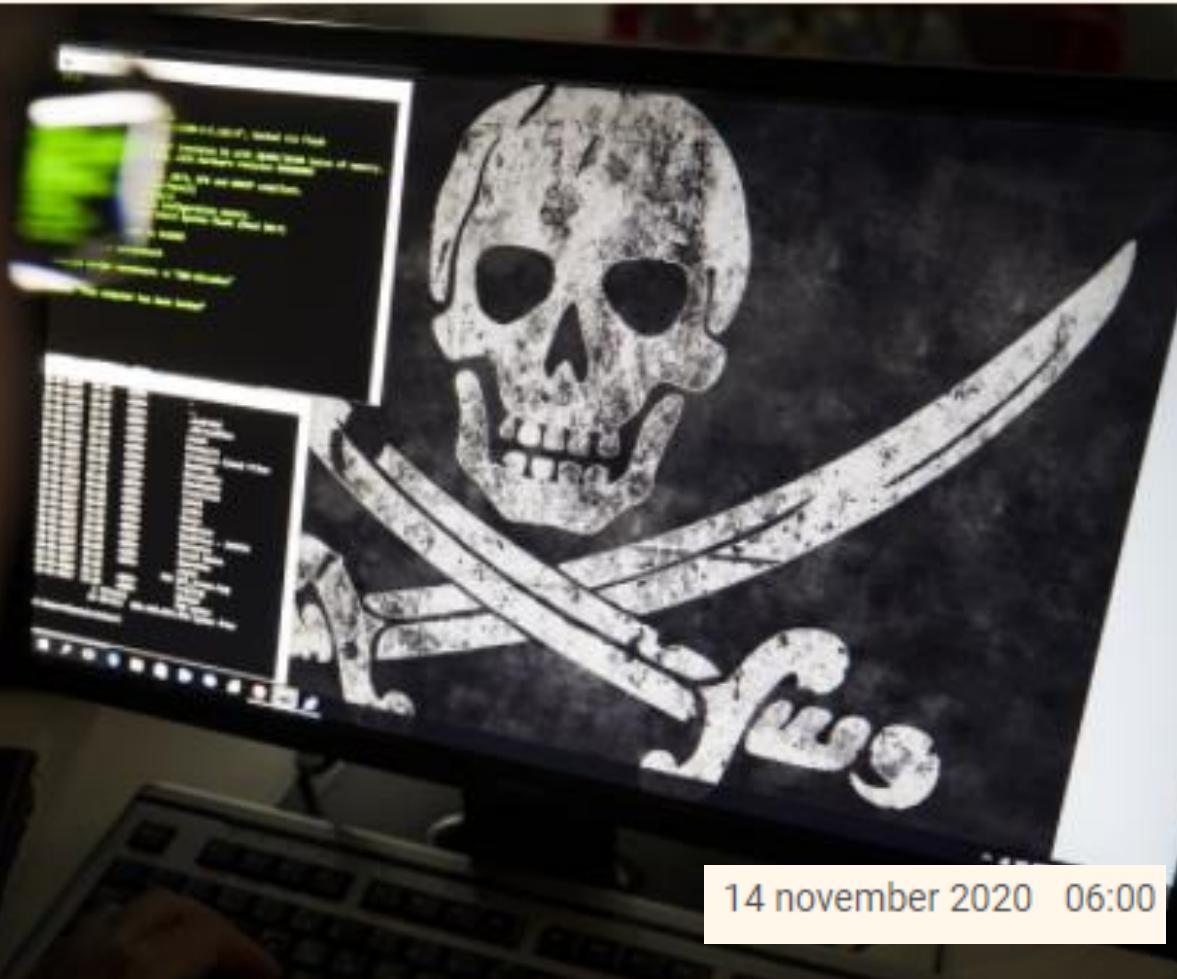
Retrieving sensitive data

Disrupting systems

Hijacking infrastructure



# Bedrijven betalen hackers 100 miljoen euro losgeld



14 november 2020 06:00

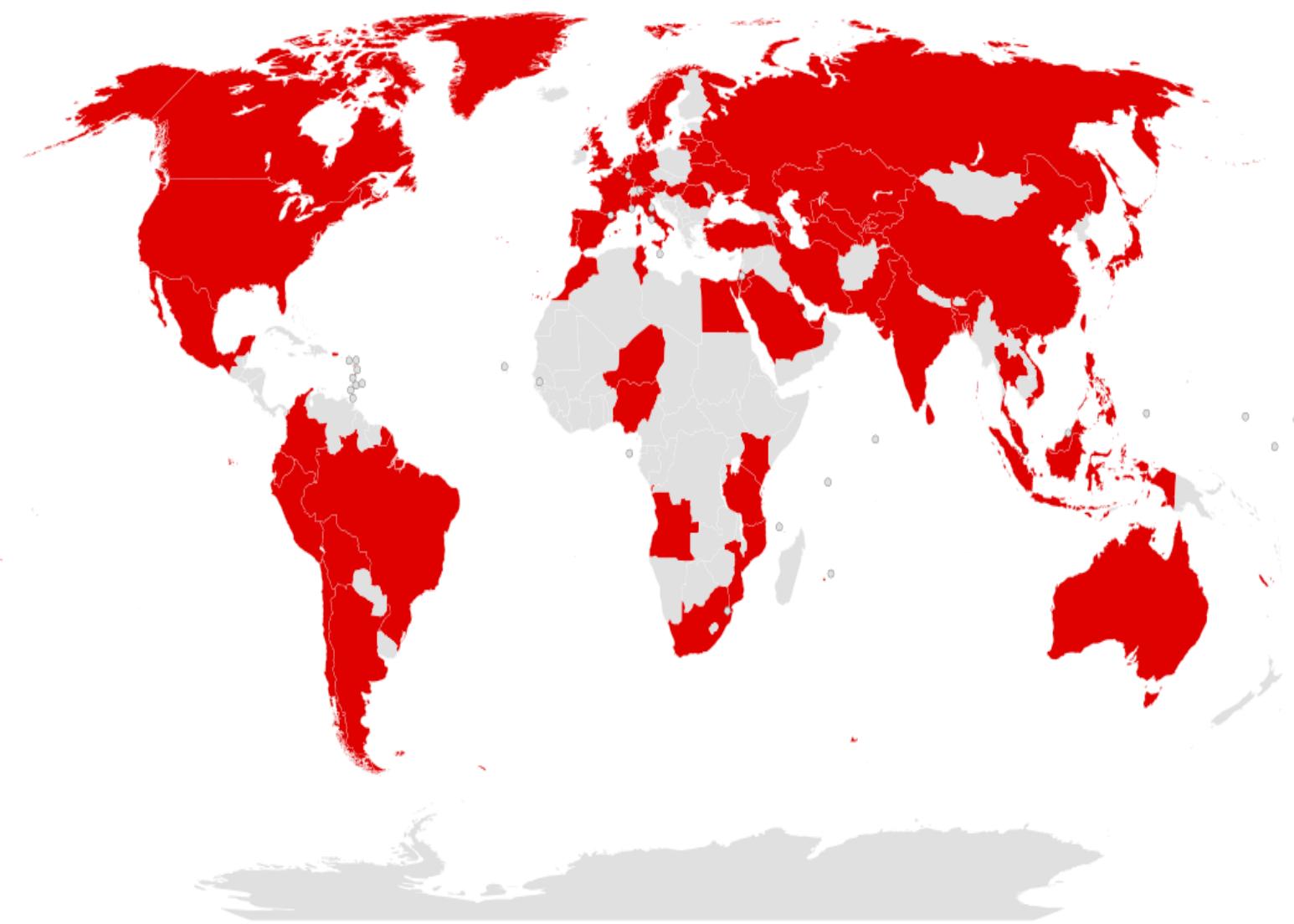
# WannaCry

Retrieving sensitive data

Disrupting systems

Hijacking infrastructure

12 mei 2017



>230.000 infected computers  
in 150 countries

Retrieving sensitive data

Disrupting systems

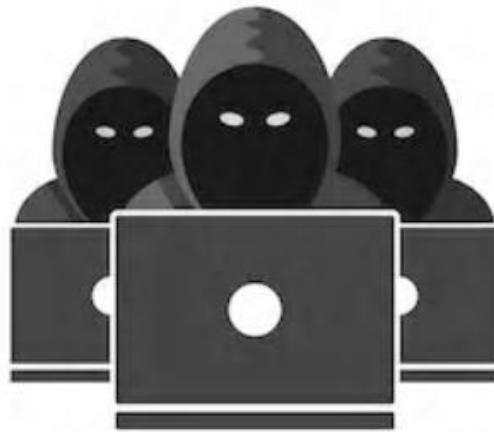
Hijacking infrastructure



Step 1



Step 2



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](#)

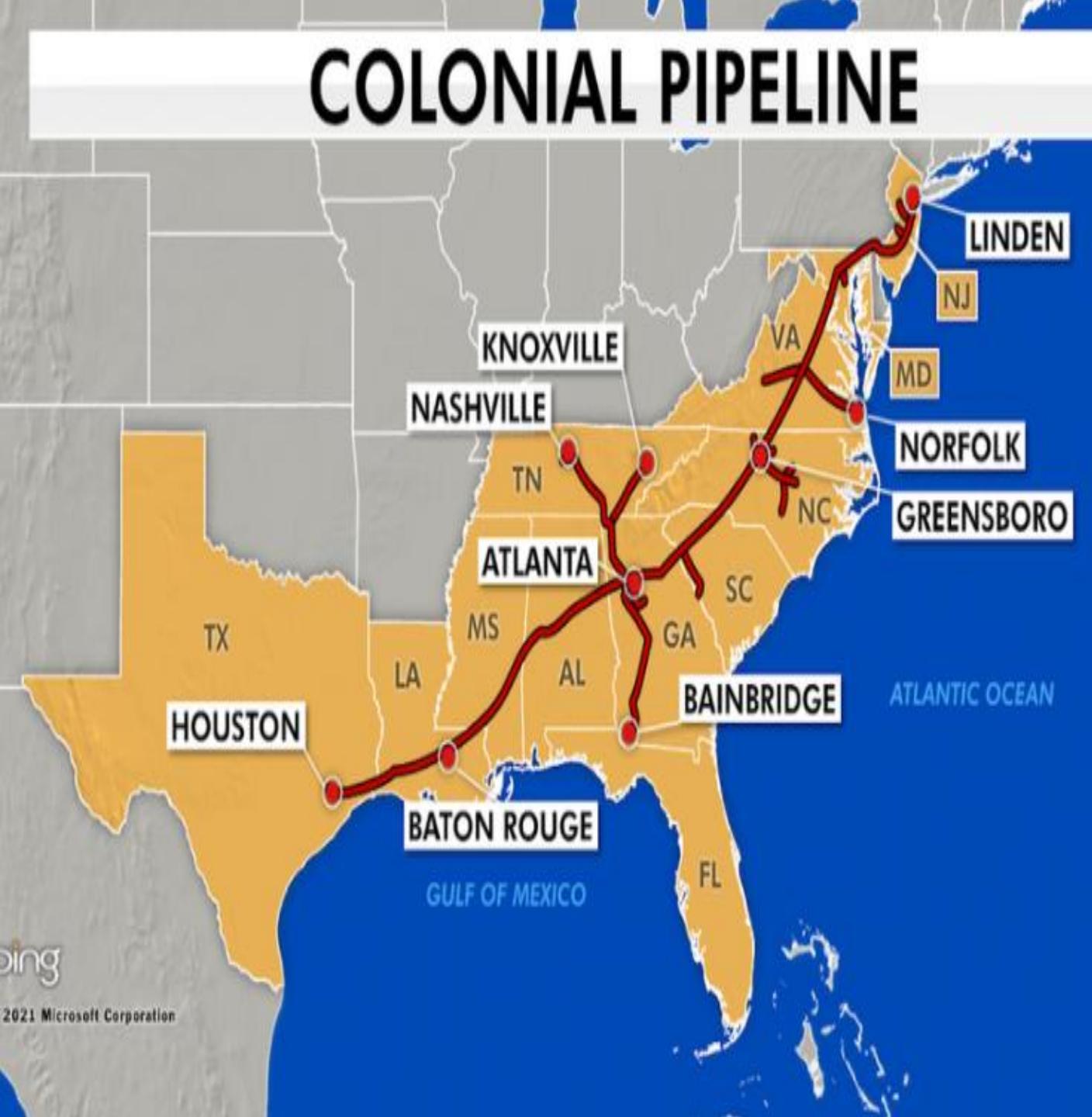
4 juni 2021 21:58 CEST

Retrieving sensitive data

Disrupting systems

Hijacking infrastructure

# COLONIAL PIPELINE



Retrieving sensitive data

Disrupting systems

Hijacking infrastructure



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

# 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

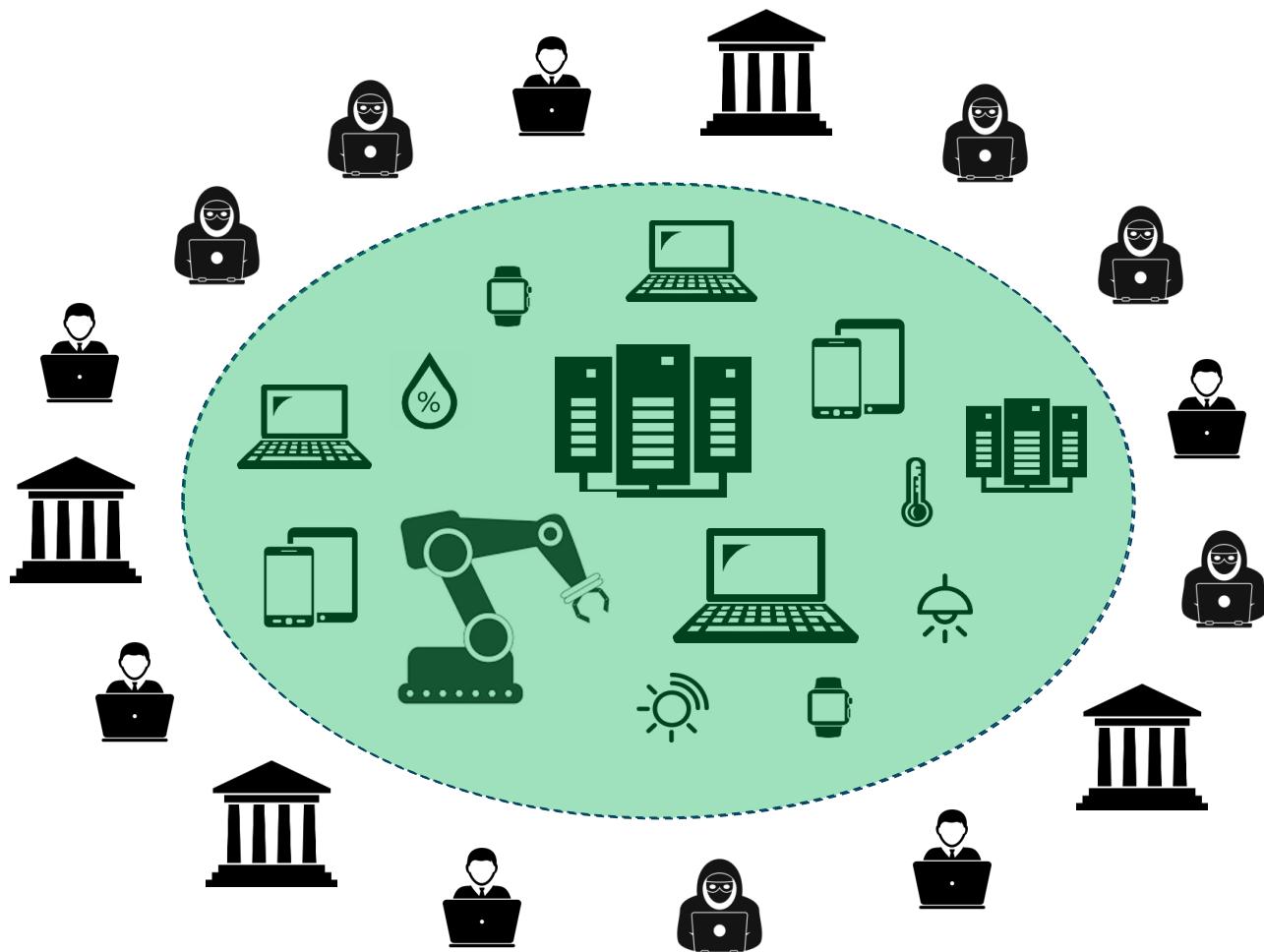
Hijacking infrastructure

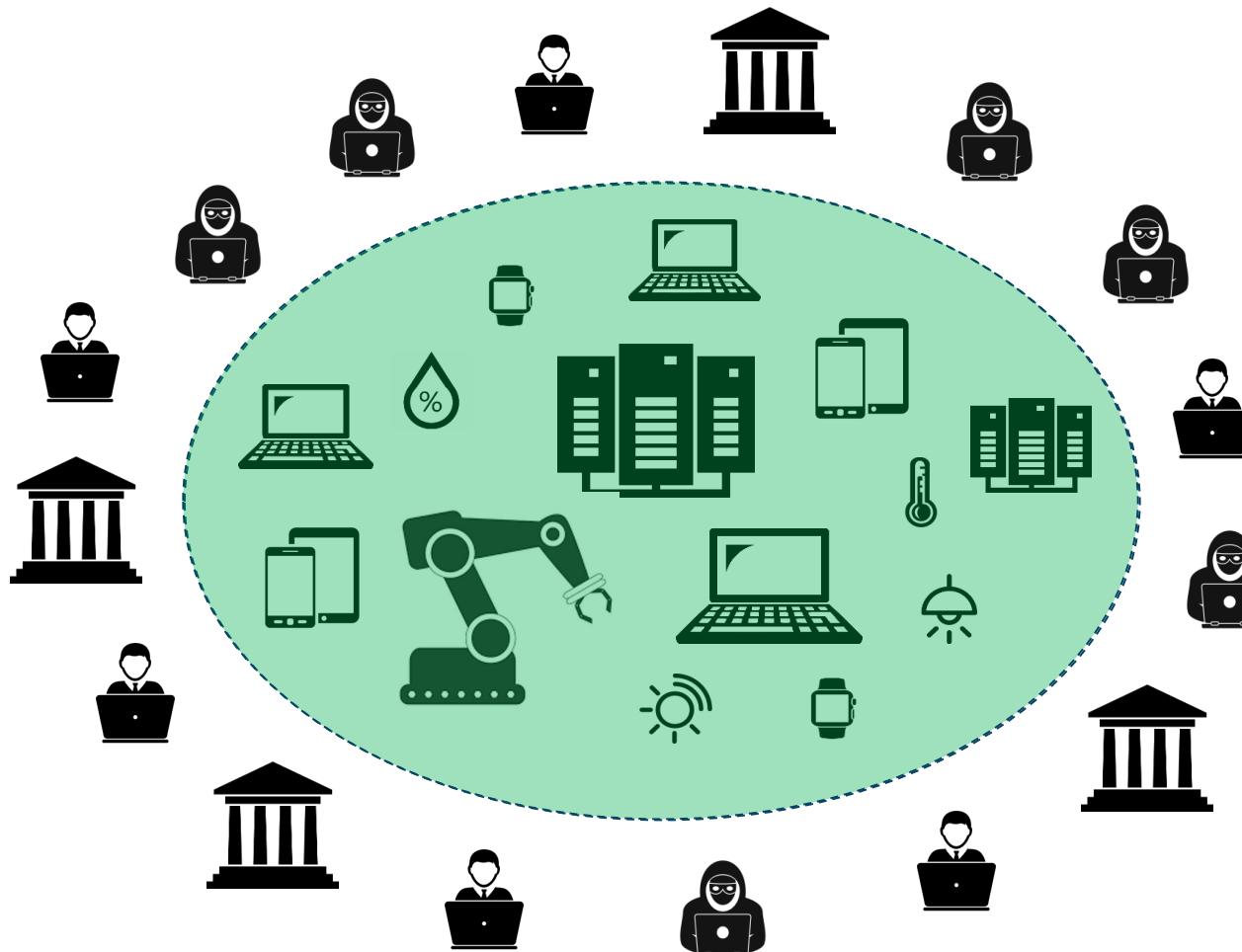


**Retrieving sensitive data**

**Disrupting systems**

**Hijacking infrastructure**





Analysis

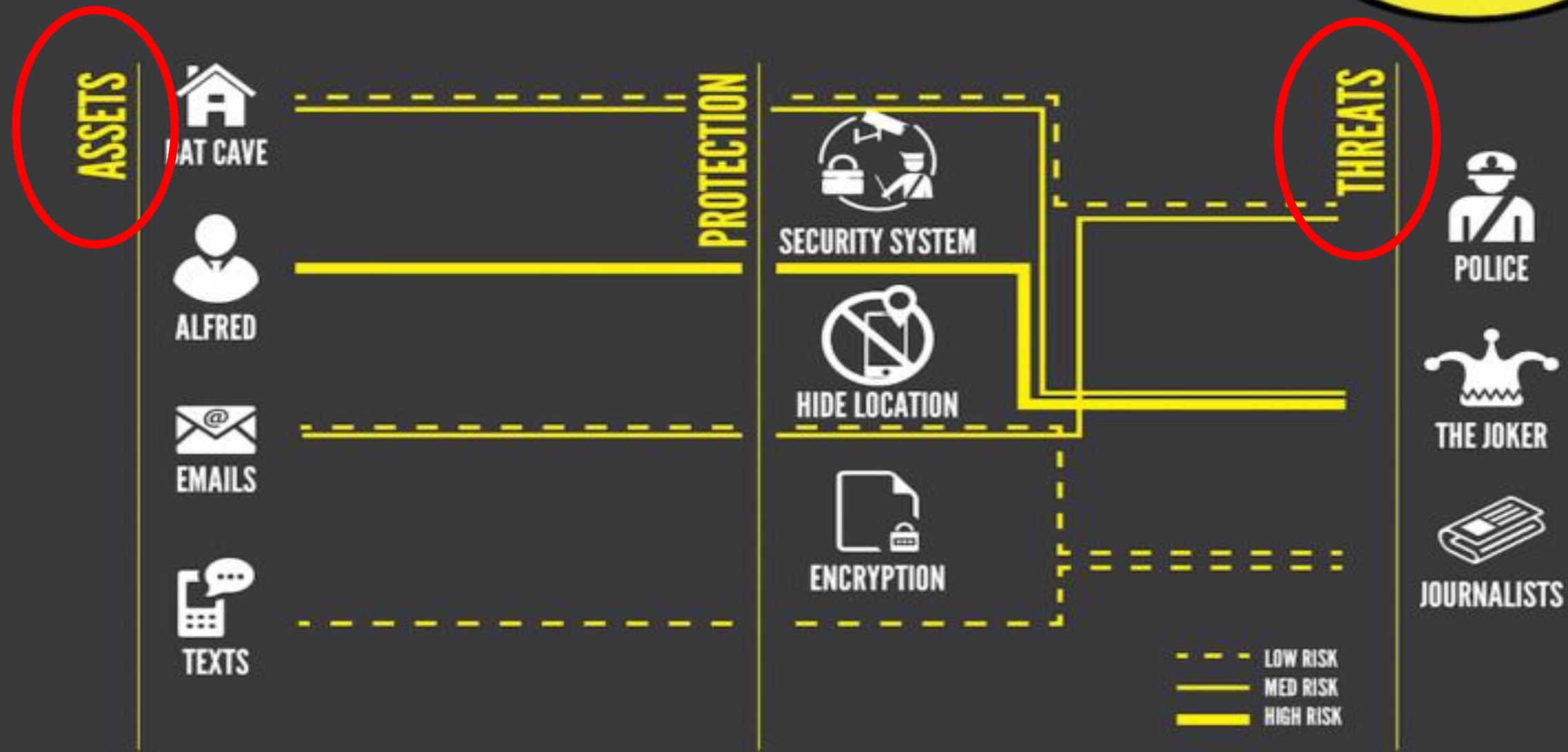
Design

Implementation

Deployment

Usage

# BRUCE WAYNE/BATMAN'S THREAT MODEL



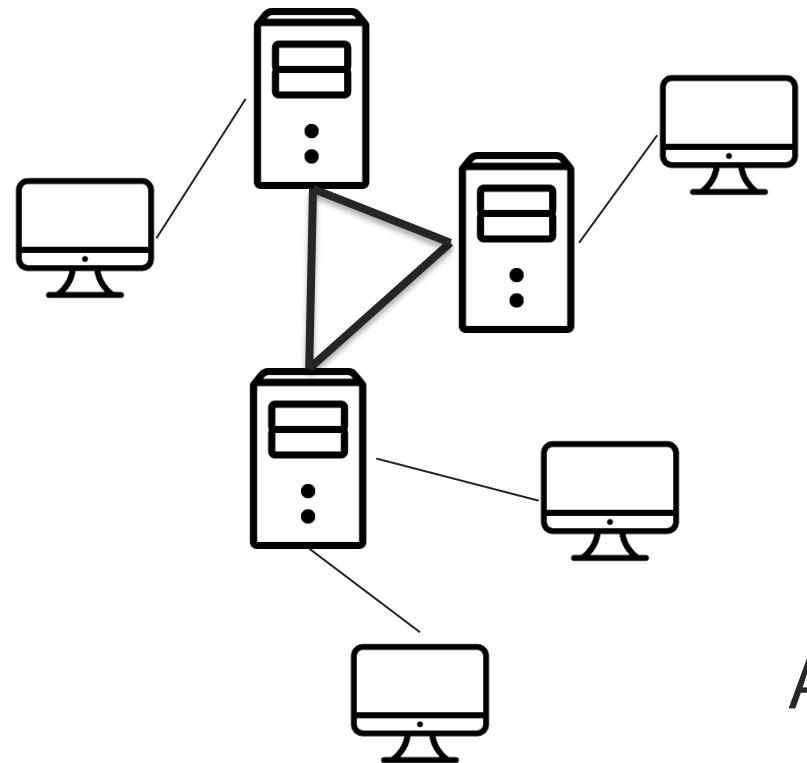


## A QUICK START TO PRIVACY THREAT MODELING

YOUR FEEDBACK MATTERS!

[WWW.LINDDUN.ORG/GO](http://WWW.LINDDUN.ORG/GO)





Distributed  
Software  
Architectures

Analysis

Design

Implementation

Deployment

Usage

# ZERODIUM Payouts for Desktops/Servers\*



Analysis

Design

Implementation

Deployment

Usage

ACTIVE PROGRAMS

+70

BOUNTIES PAID

+1 mio

RESEARCHERS

+10.000

Get hacked **before**  
you get hacked



Analysis

Design

Implementation

Deployment

Usage

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

## Deployment

## Usage



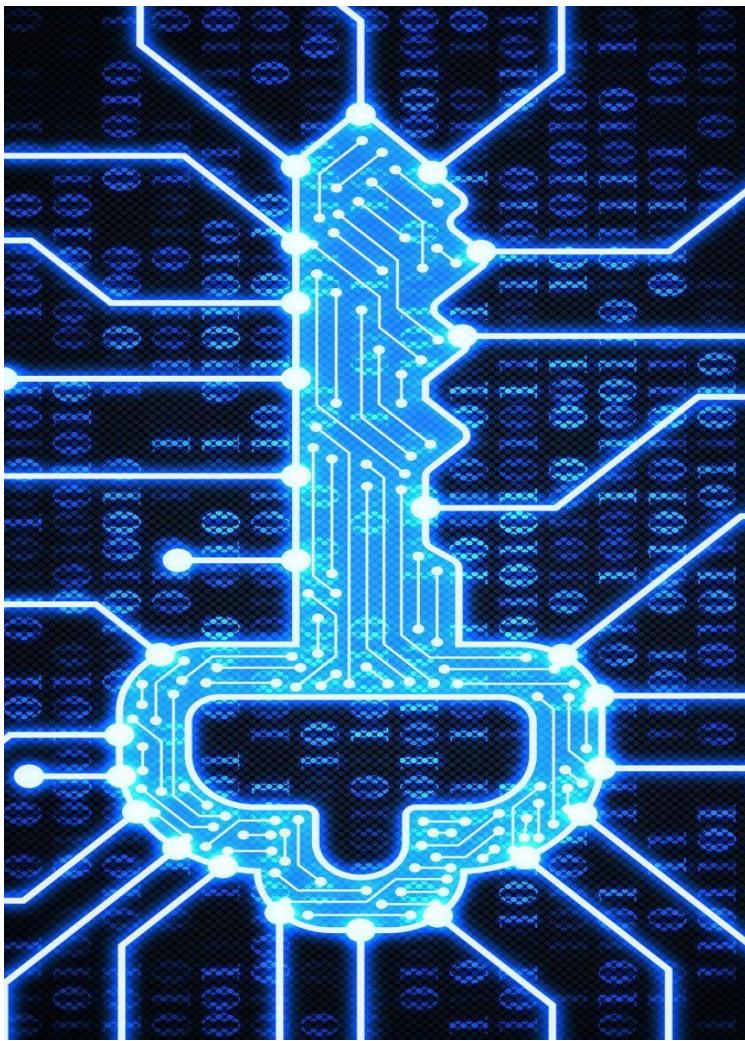
Analysis

Design

Implementation

Deployment

Usage



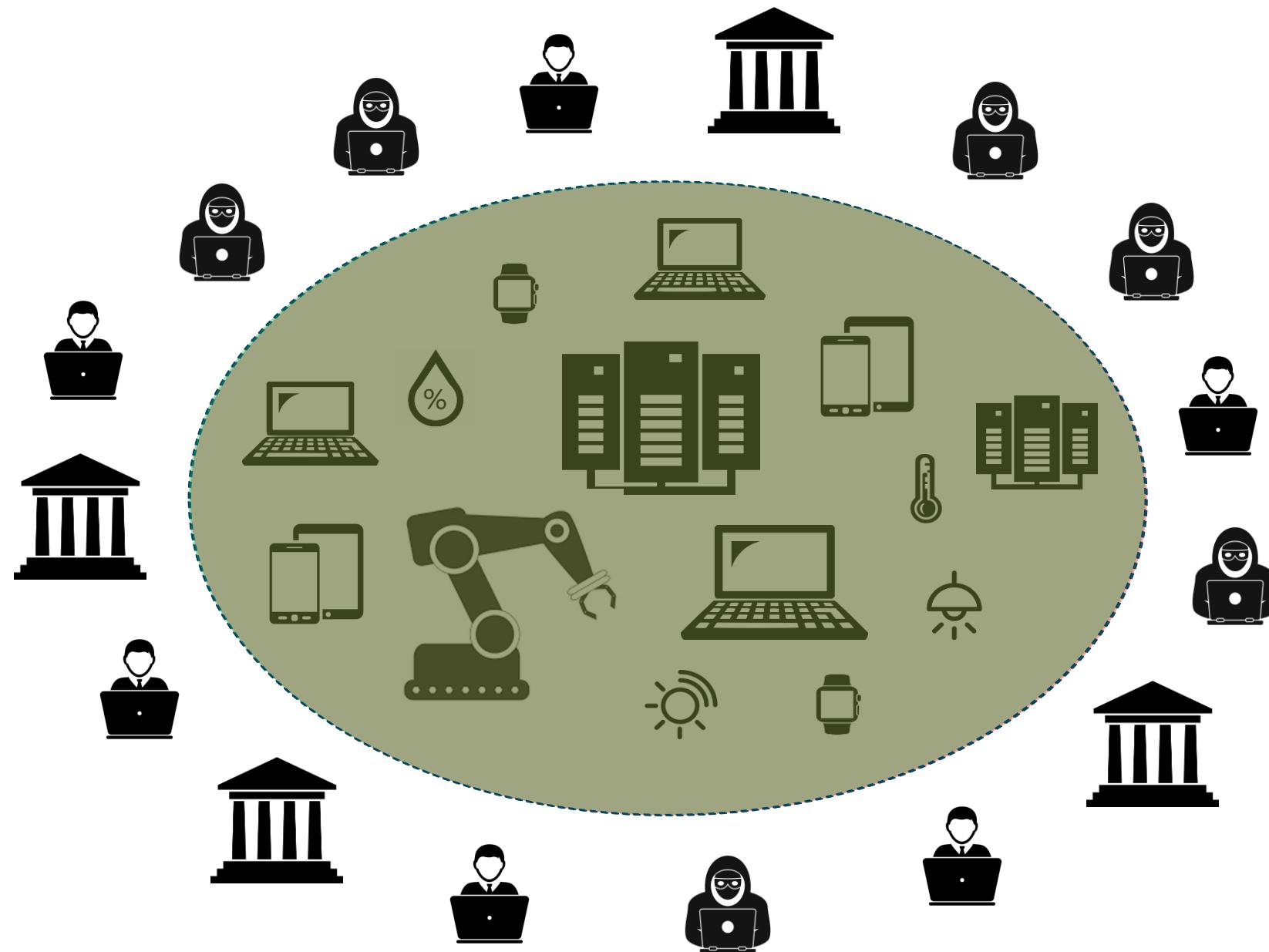
**Wachtwoorden zijn  
niet meer van deze tijd.**

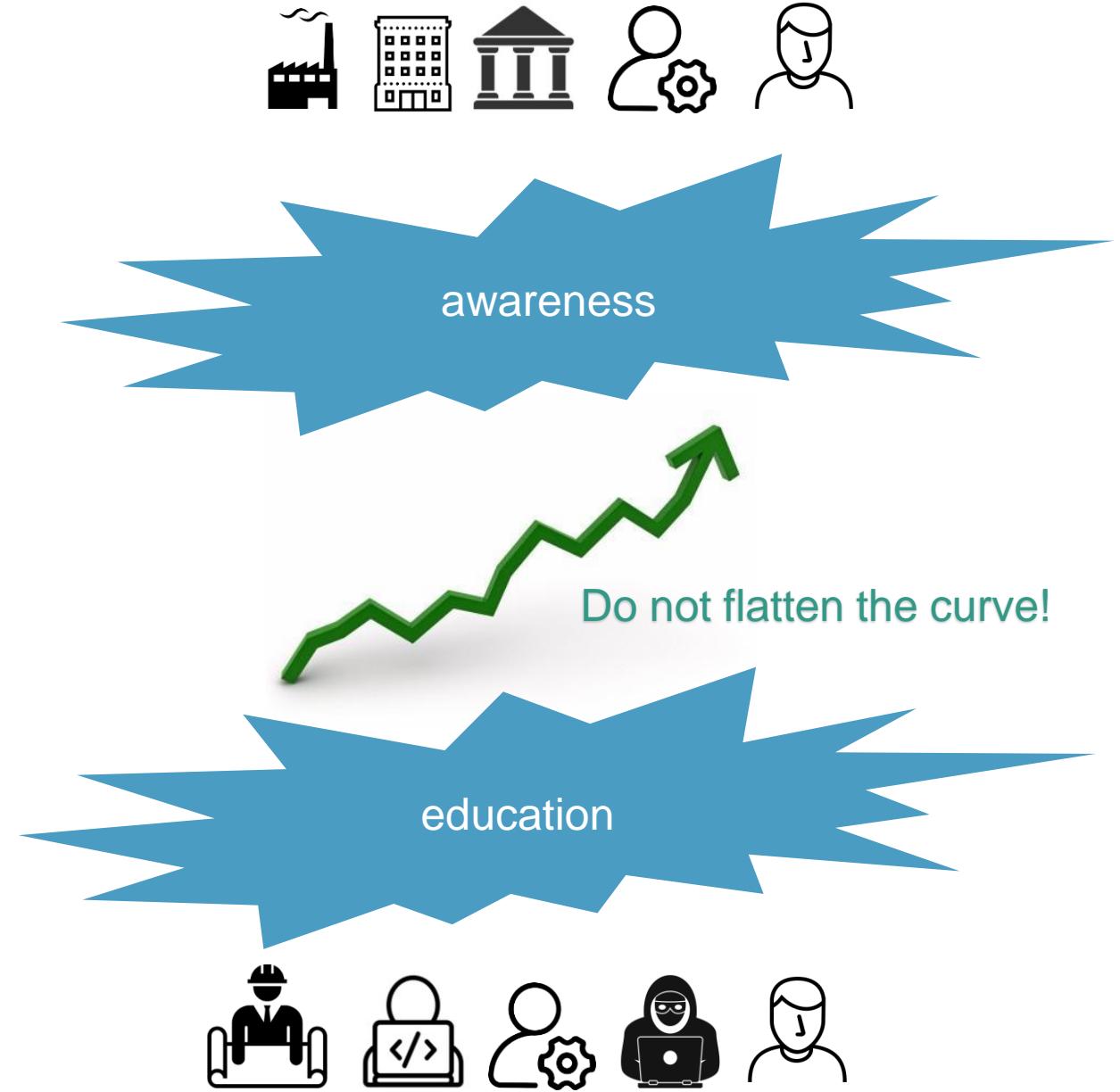
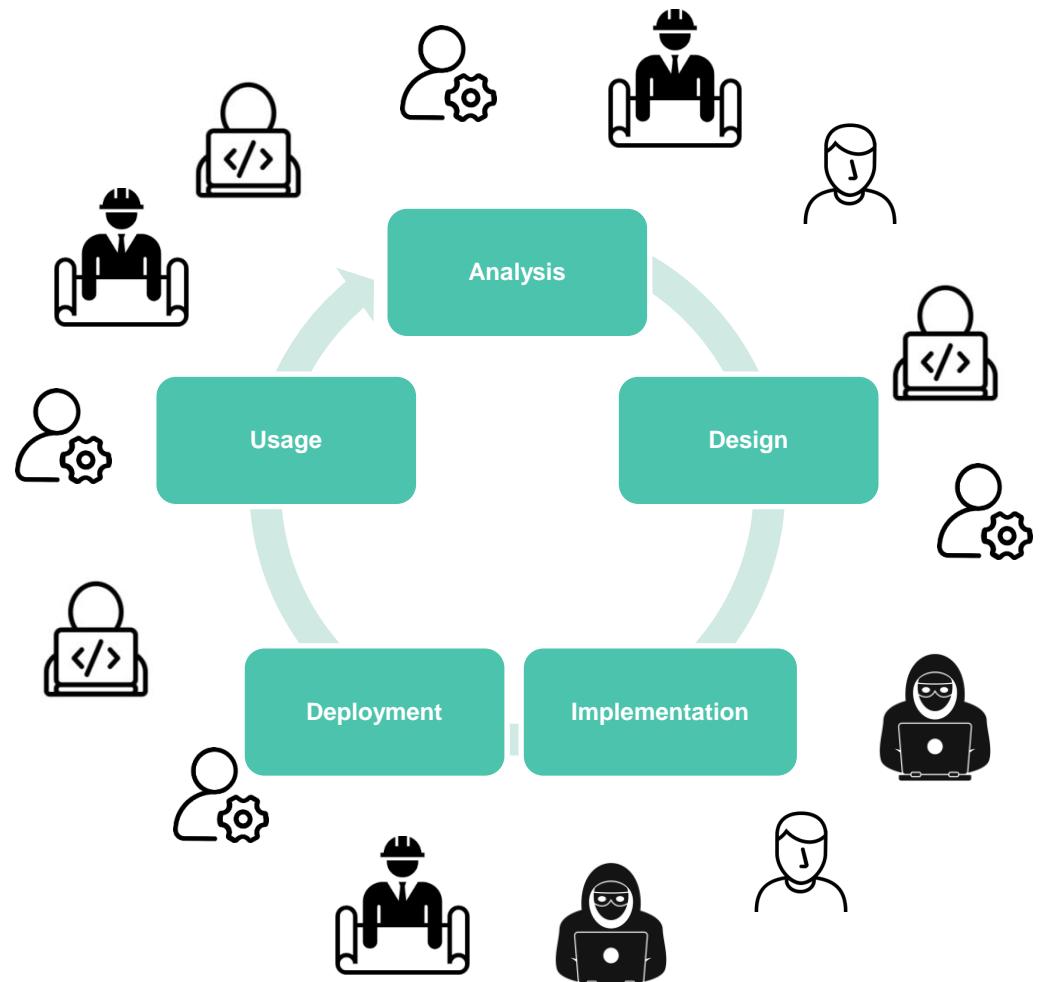
A cartoon illustration of a knight in full armor, including a helmet and a long spear. He is holding a shield with a fleur-de-lis emblem and the text "R1dd3r123". To his left is a tree stump with a laptop resting on it, and a small bird is perched on the stump. The background is light green with some foliage.

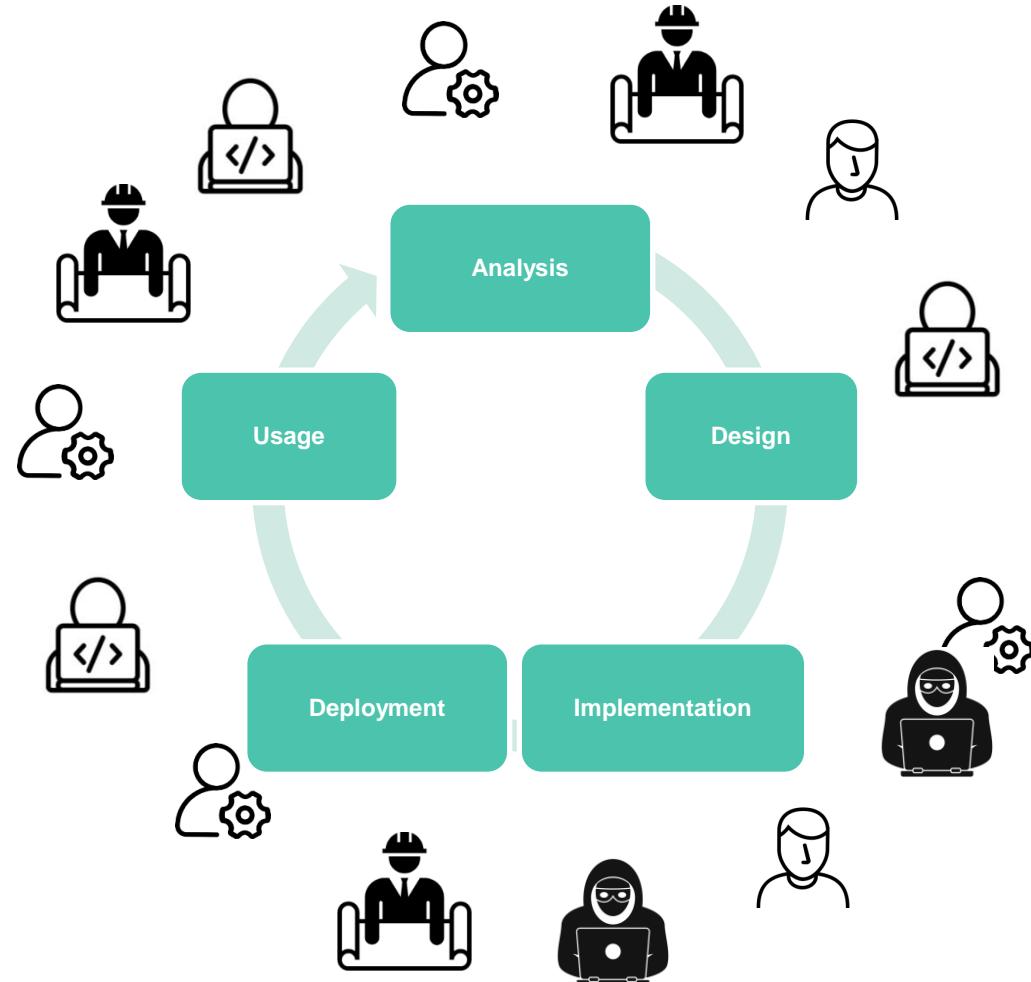
**Bescherm je online accounts  
met tweestapsverificatie.  
Check [safeonweb.be](#)**

BEVEILIG JE ONLINE ACCOUNTS DUBBEL  
MET TWEESTAPSVERIFICATIE (2FA).  
DA'S MAKKELIJK ÉN VEILIGER.  
ALLE INFO OP [SAFEONWEB.BE](#)









threat modeling

Analysis

decentralisation

Design

bug bounty programs

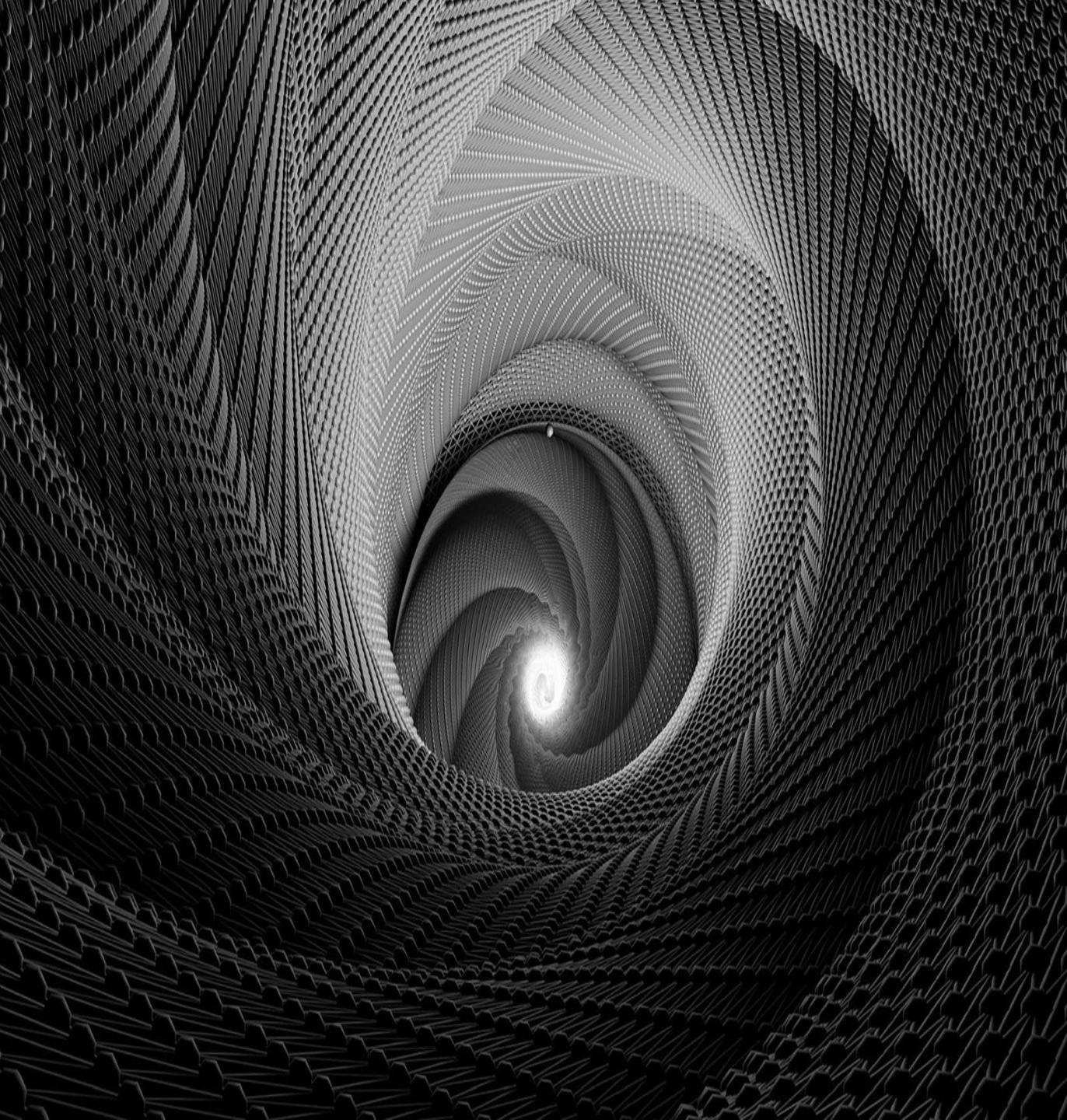
Implementation

security technologies

Deployment

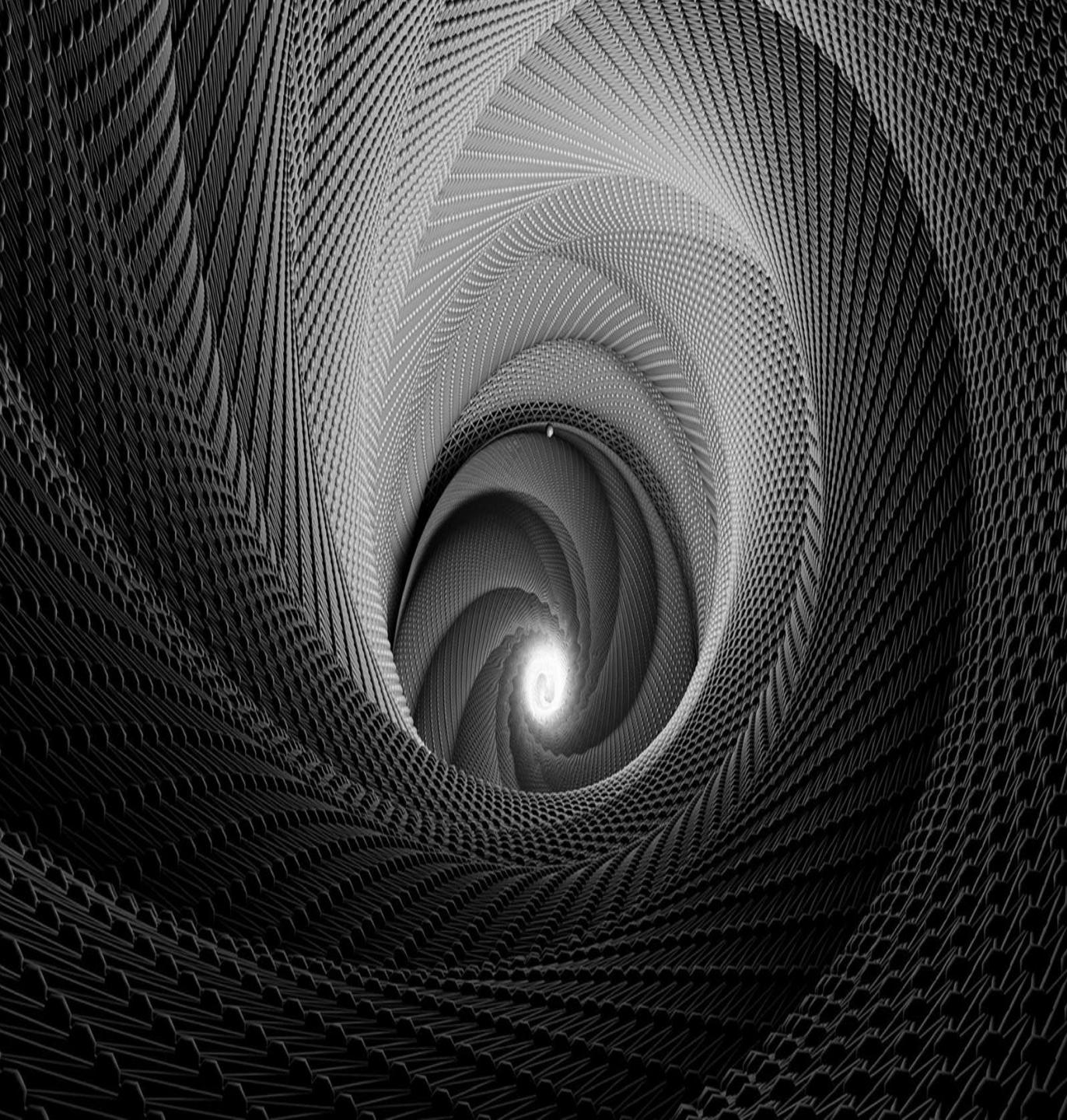
continuous focus

Usage



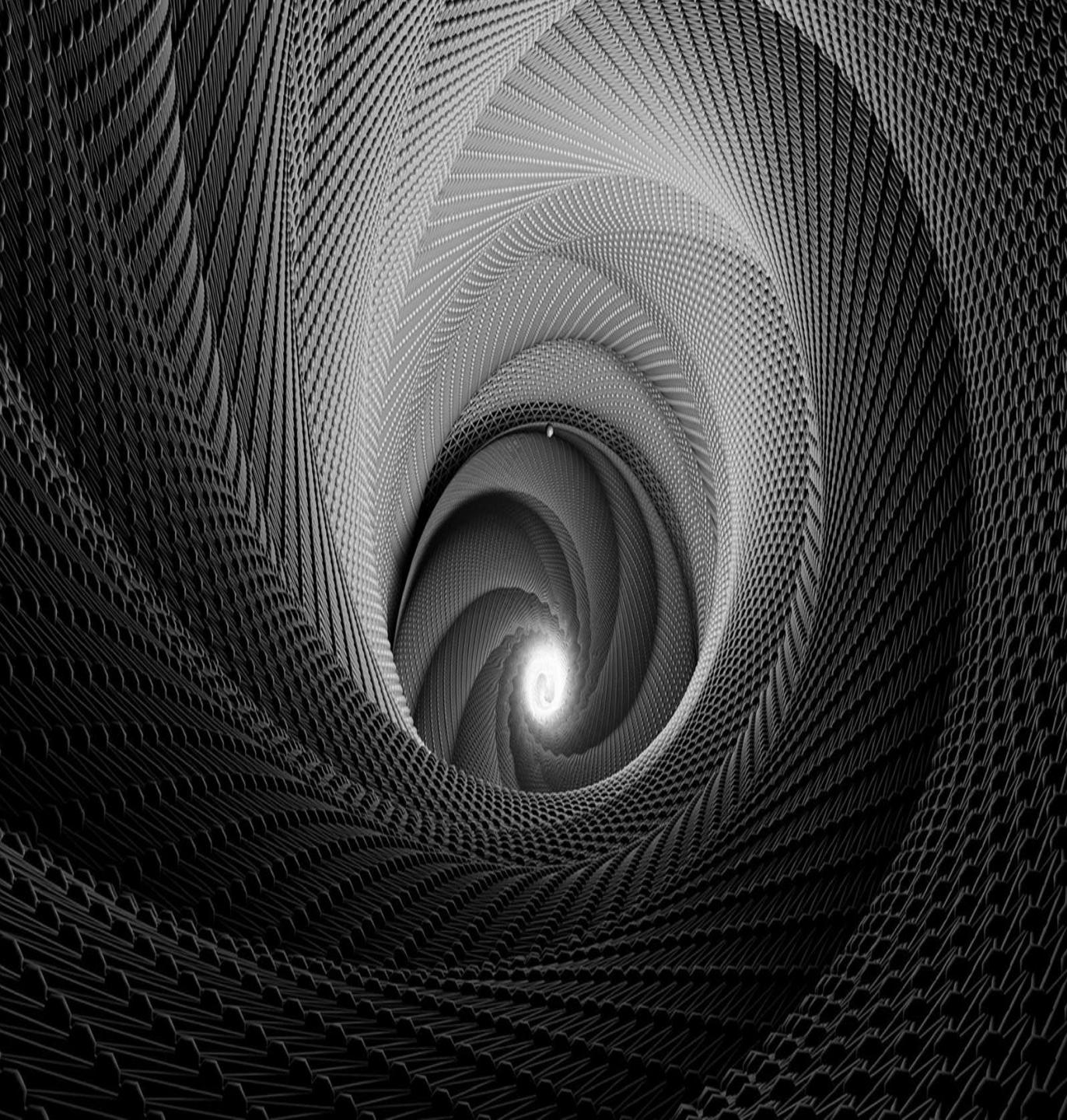
Upscaling  
actions

Embracing  
innovation



Upscaling  
actions

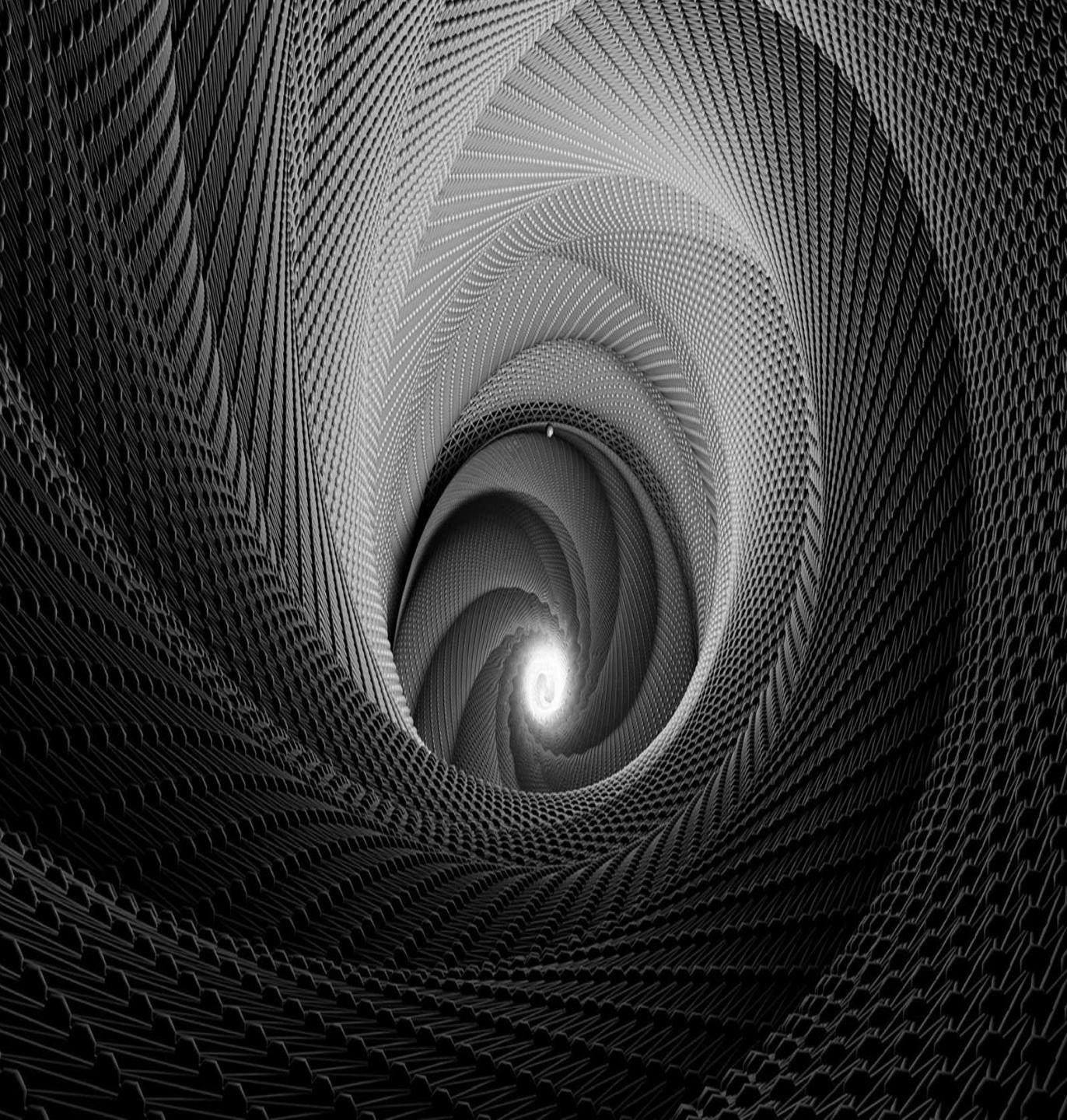




Upscaling  
actions



CERT.be  
The Federal Cyber Emergency Team

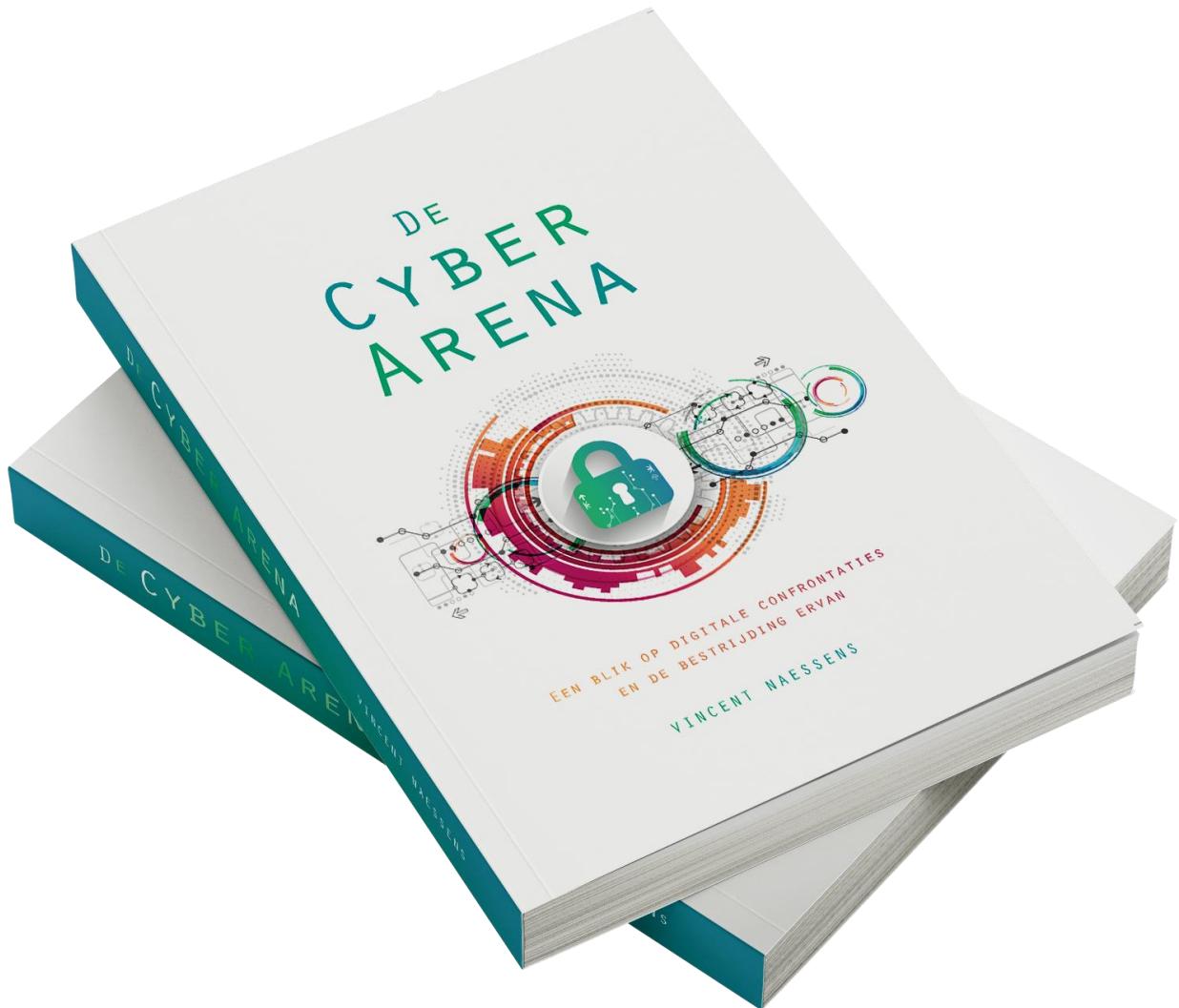


Upscaling  
actions



© Photo News

**Minister van Defensie broedt op  
vijfde legercomponent rond cyber**



“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 2<sup>e</sup> 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](mailto:cyberveiligheid@vvsg.be).
- Het boek **De Cyber Arena** kan online [besteld worden](#).



# Bedankt voor je aandacht.

Meer info op [www.vvsg.be](http://www.vvsg.be)

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