

We must not only make humans ready for the Internet

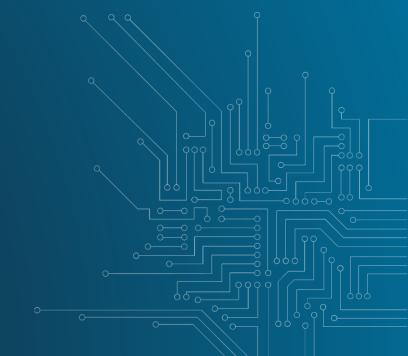
We also need to make the internet ready for humans

Miguel De Bruycker

Active Cyber Protection

Belgian experiences with an added approach to improving cybersecurity

Pieter Byttebier
International Relations officer



@ the beginning of a wonderful story





Cyber Crime phenomena

- Phishing
- Ransomware
- Data exfiltration (to 1)
 With Marware
 Line
- Supply Chain
- (Advanced Persistent Threat Acto

How is this possible?





Vulnerabilities

- Human
 - Unawareness
 - Ignorance
 - Gullibility
 - Speculation
 - Greed
 - Cluelessness



- Technical
 - ICT Complexity
 - Instant patching pressure
 - Disorganized architectures
 - Supply Chain challenges
 - Business pressure
 - Funding limitations





@ the beginning of ... making cyber space less vulnerable















Malicious Actor

With Intentions

And Infrastructure

Malicious Action

Exploiting a Vulnerability

Of a Target or Victim

Cyber Defence & Intelligence

Cyber Crime Operations

Cvber Act
Resilience Act
NIS

Active Cyber Security

Detect – Disturb - Warn – Involve



Active cyber security/Protection - a wider preventive and resilience strategy

- Introducing concepts of Liability & Accountability
- A proactive, tailored, automated and participative approach
- Active and solicited **involvement of users** in their own protection
- Focusing on actively bettering prevention, detection, monitoring & analysis
- Offering free services or tools
- Rapidly and automatically share and understand relevant threat information
- Directly to the involved parties (spear-warning)



Active Cybersecurity

- Target Technical vulnerabilities
 - Early Warning System
 - Spear Warning
 - Fast and direct alerting
 - Cyber Threats
 - Vulnerabilities
 - Intrusions ...
 - SafeOnWeb@Work -> all NIS-2 entities and more?



- Target Human Vulnerabilities
 - suspicious@safeonweb.be
 - Safeonweb app
 - Belgian Anti-phishing shield
 - Validated sites

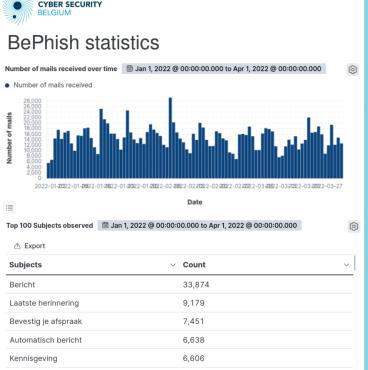


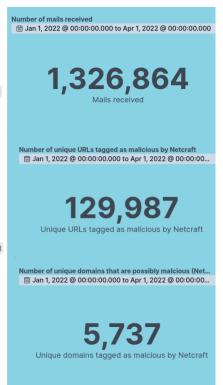




CENTRE FOR

BePhish (suspicious@safeonweb.be)

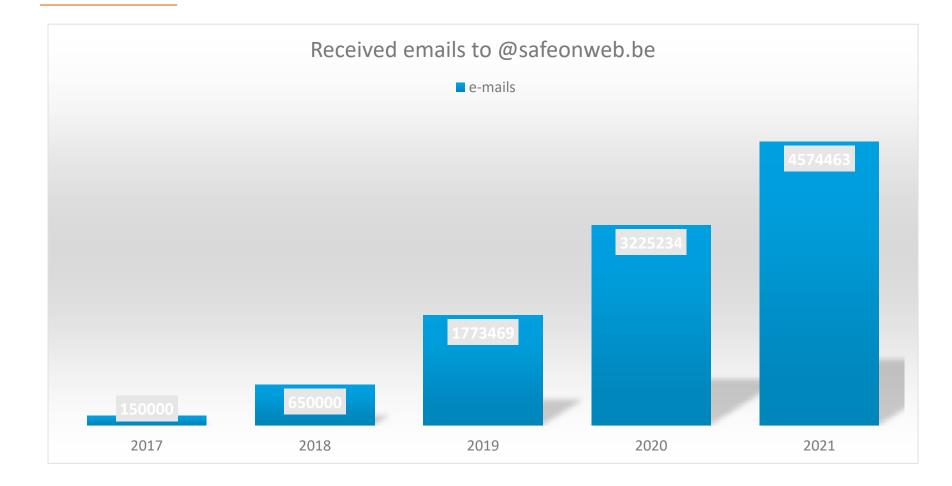








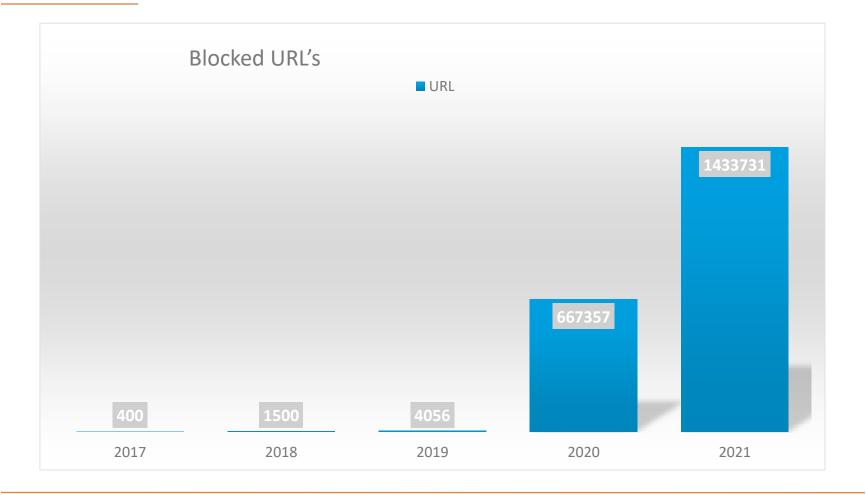
Stats suspicious@





Source: CCB, 2021

Stats suspicious@





Source: CCB, 2021

Belgium is high ranking in Cyber Security

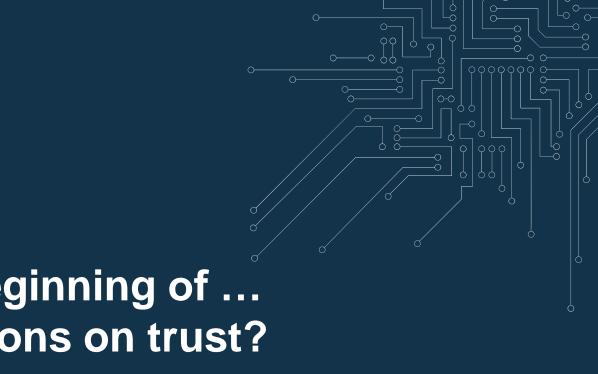
BitSight Security Ratings **Countries of European Union**





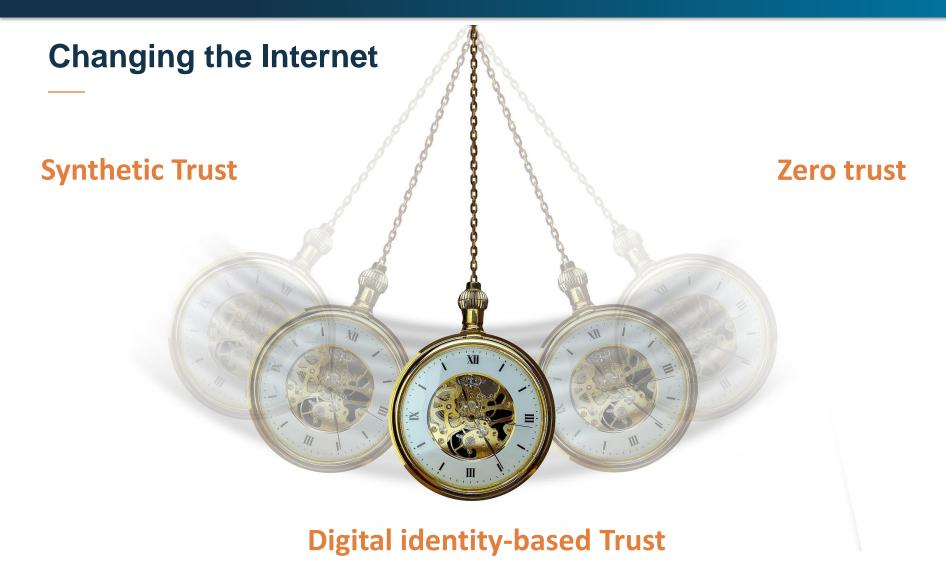






@ the beginning of ... new notions on trust?







Validated web sites 2023



- 9 STRONG Publisher Validation
- 7 POOR Publisher Validation
- NO Publisher Validation
- 3 Known Malicious







Know and understand current and future cyber threats

Intelligent systems



Intelligent fraude



- You see Do's number & name
- You hear Do's voice
- Do clearly knows you

No Stir/Shaken Deep voice Fake SOCMINT



This is possible now

We must not only make humans ready for the

Internet[®]

We also need to make the internet ready for

humans

Questions?

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