

We must not only make humans ready for the Internet

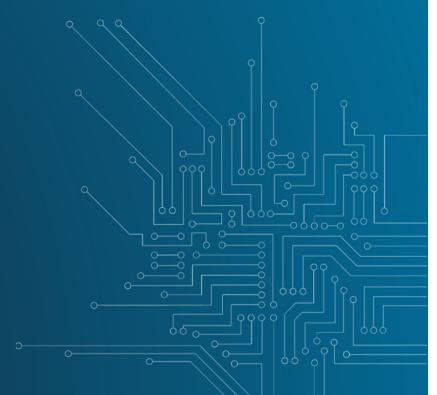
We also need to make the internet ready for humans

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 exampleW b W lware
- Supply Chain
- (Advanced Persistent Threat Actors)

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?



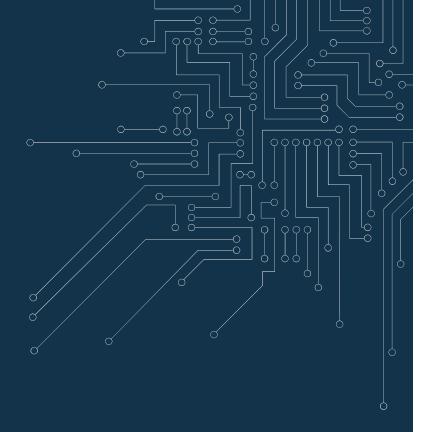
- Target Human Vulnerabilities
 - suspicious@safeonweb.be
 - Safeonweb app
 - Belgian Anti-phishing shield
 - Validated sites

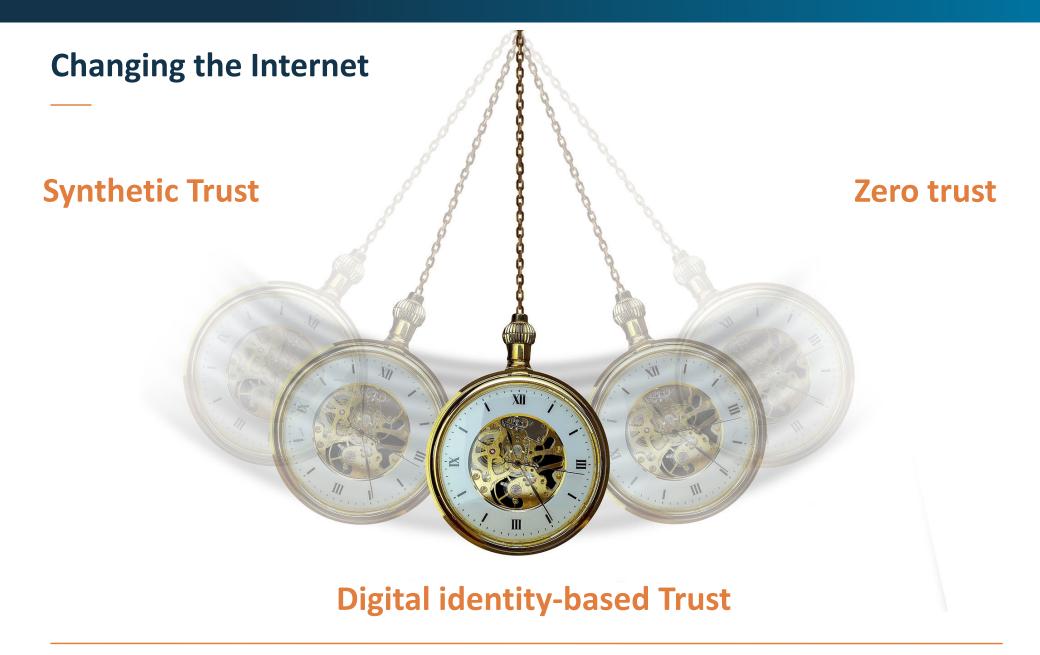






@ the beginning of ... new notions on trust?

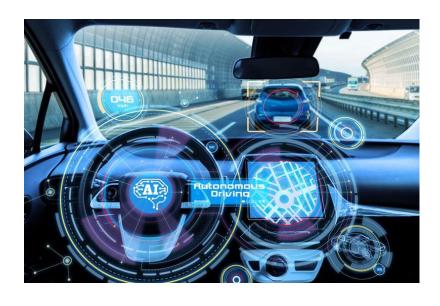






Know and understand current and future cyber threats

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

Miguel De Bruycker, 2022

Questions?

Pieter.byttebier@ccb.belgium.be

