

TRICK OR TREAT?

Interactieve Inspiratie Lunch over Datahacking



Gehackt, datalekken, diefstal en verlies van data, identiteit roof, cybercrime ... kan het mijn bedrijf echt overkomen?



Hoe beschermt de gemeente 's-Hertogenbosch zich tegen deze gevaren?



Hoe gemakkelijk is het om digitaal in te breken?



Wat is de rol van medewerkers & ICT trends?



Inside the hacker's mind

Kees Plas

Hugo van den Toorn



Datahacking Halloween event

31-10-2014

Bodegraven

1844:

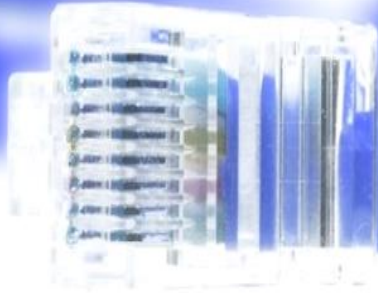
The first email



"What hath God wrought?"

First telegraph message - Samuel F.B. Morse on May 24, 1844

**The Internet is 4X larger
than in 2009...**



By 2015
15 billion devices are
connected to the Internet



247 billion emails are sent
per day ...



... of which **90%** is spam



**240 million new malicious
programs**



**Cost to clean up a virus
attack: \$6.3 million**



Cost to create a virus: \$0



Cost to buy a cup of coffee:

\$2.00



**Cost to buy a stolen credit
card: 40¢**



Today:

**It is 212% more profitable
for criminals to steal data
than to sell drugs.**



Trends

That grow the need for cyber

Society & Economy

1. Dependence on technology is growing.
2. Connectivity increases dramatically.
3. Disruptions in technology are a clear and present danger to business continuity.



Cloud computing, Social Media, mobile computing, BYO, remote working, always online, digital-supply-chain, online shopping, online banking, etc.

Cyber Threats

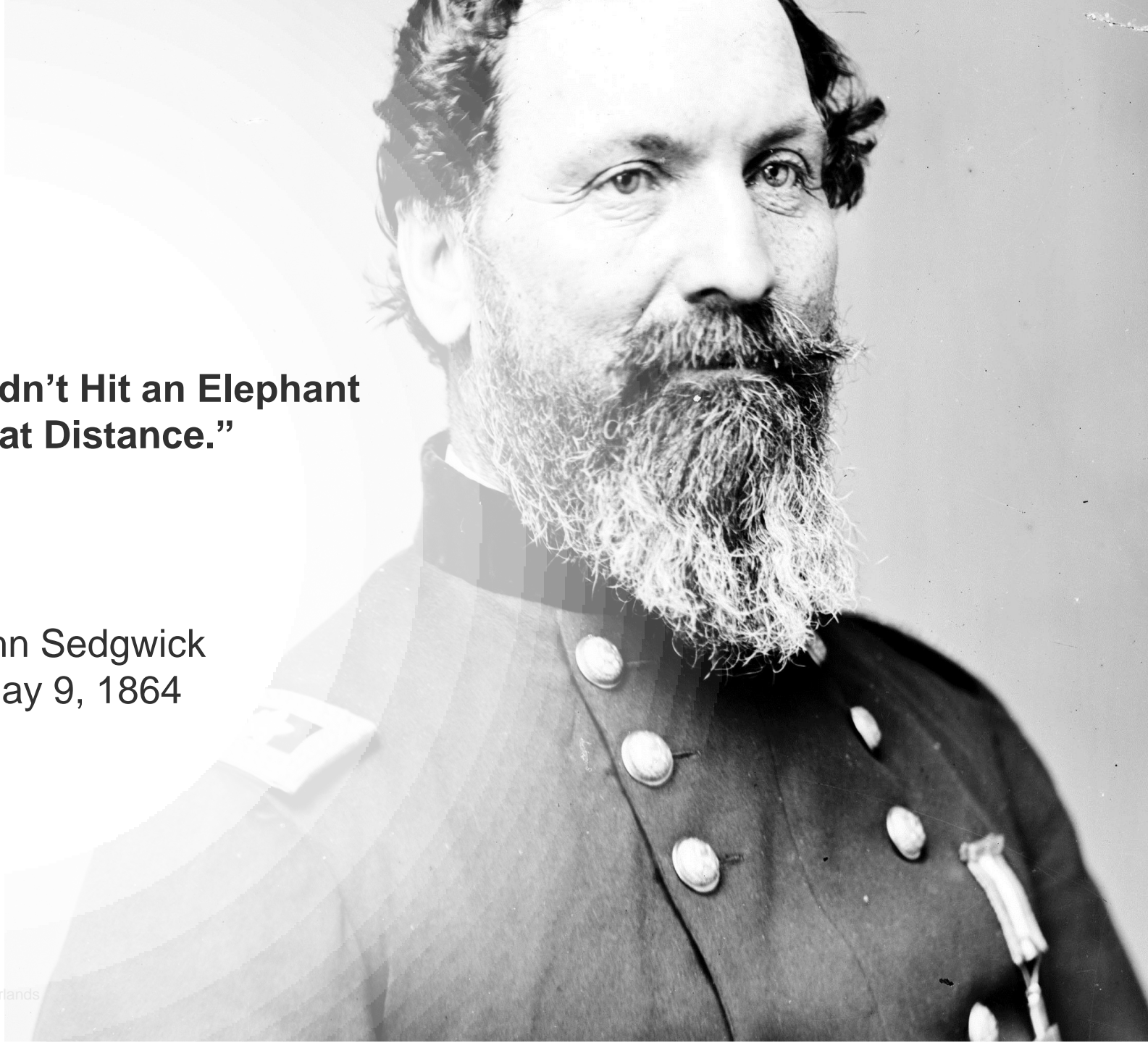
1. Increased digital.
2. Cybercrime is professionalizing.
3. Increase in other factors and motivations.



DDoS, Skimming, SPAM, Phishing, Spear-phishing, Internet banking hack, Credit card data theft, Identity theft, Password cracking, Disclosure confidential data, hacking Social Media, hacking parking terminals, disruption manufacturing systems, etc.

**“They Couldn’t Hit an Elephant
at that Distance.”**

John Sedgwick
May 9, 1864



The danger

What is a hacker?

“A hacker is someone who thinks outside the box. It's someone who discards conventional wisdom, and does something else instead. It's someone who looks at the edge and wonders what's beyond. It's someone who sees a set of rules and wonders what happens if you don't follow them. A hacker is someone who experiments with the limitations of systems for intellectual curiosity.”

Bruce Schneier, *Secrets and Lies* (2000)



Hackers vs. Defenders

An asymmetric fight

Hackers

- Unlimited time, low costs
- Only one hole is sufficient
- Rules do not apply



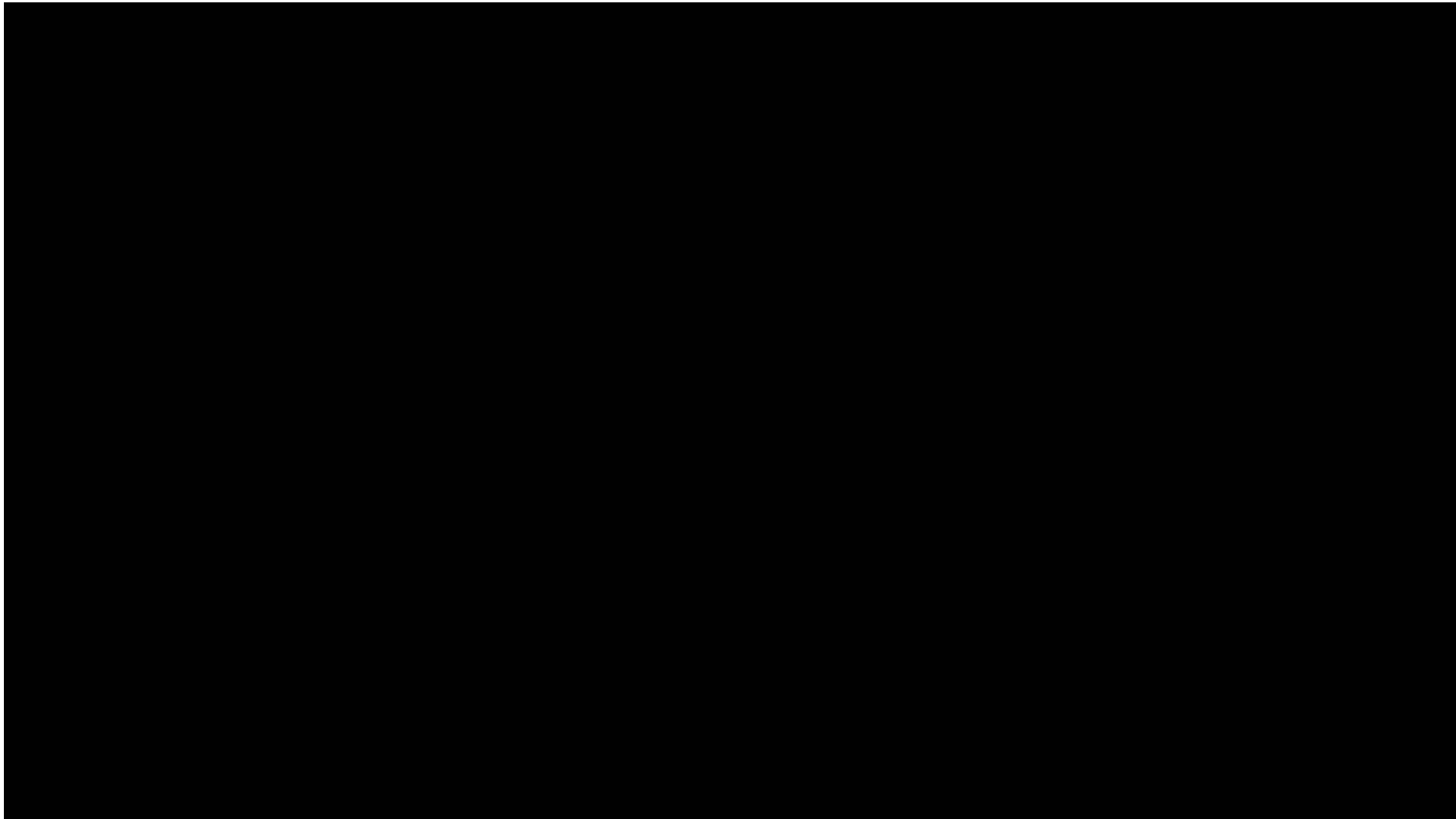
Defenders

- Limited time, limited budget
- Time between discovery and mitigation
- Everything is connected and nobody is in charge



Companies like yours

Video



Companies like yours

Comments

Nice movie, but...

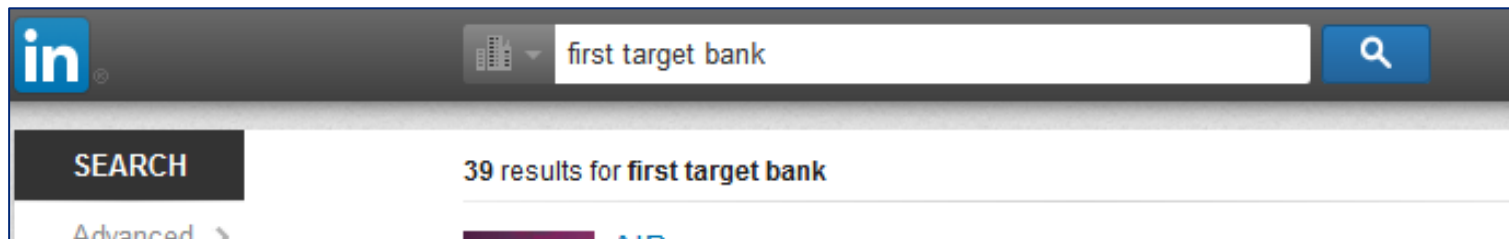
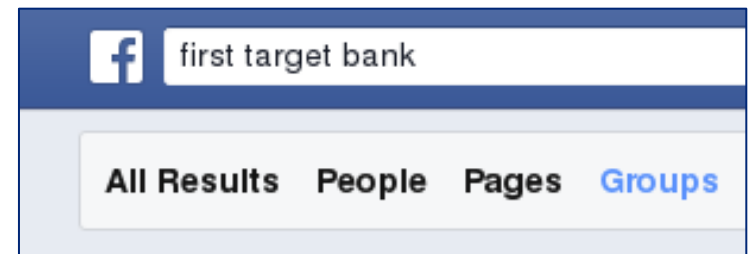
- This will never happen to us.
- Not at our company.
- It's too much 'James Bond'.
- It isn't that easy in real live.
- They are just actors.
- ...

Live hacking

Allow us to demonstrate.

The attack

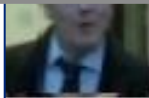
Information gathering



The attack

Information about the attack

Ally is system administrator.



Ally

System administrator at First Target Bank
The Hague Area, Netherlands

Connect with Ally · 17m ago

Ally expects pictures from Jim.



Ally

Party this Friday!!!

Hi Jim,

I liked the party pictures you send last week to me. Can you send me the party pictures this friday??

Expand · 30 minutes ago



Jim

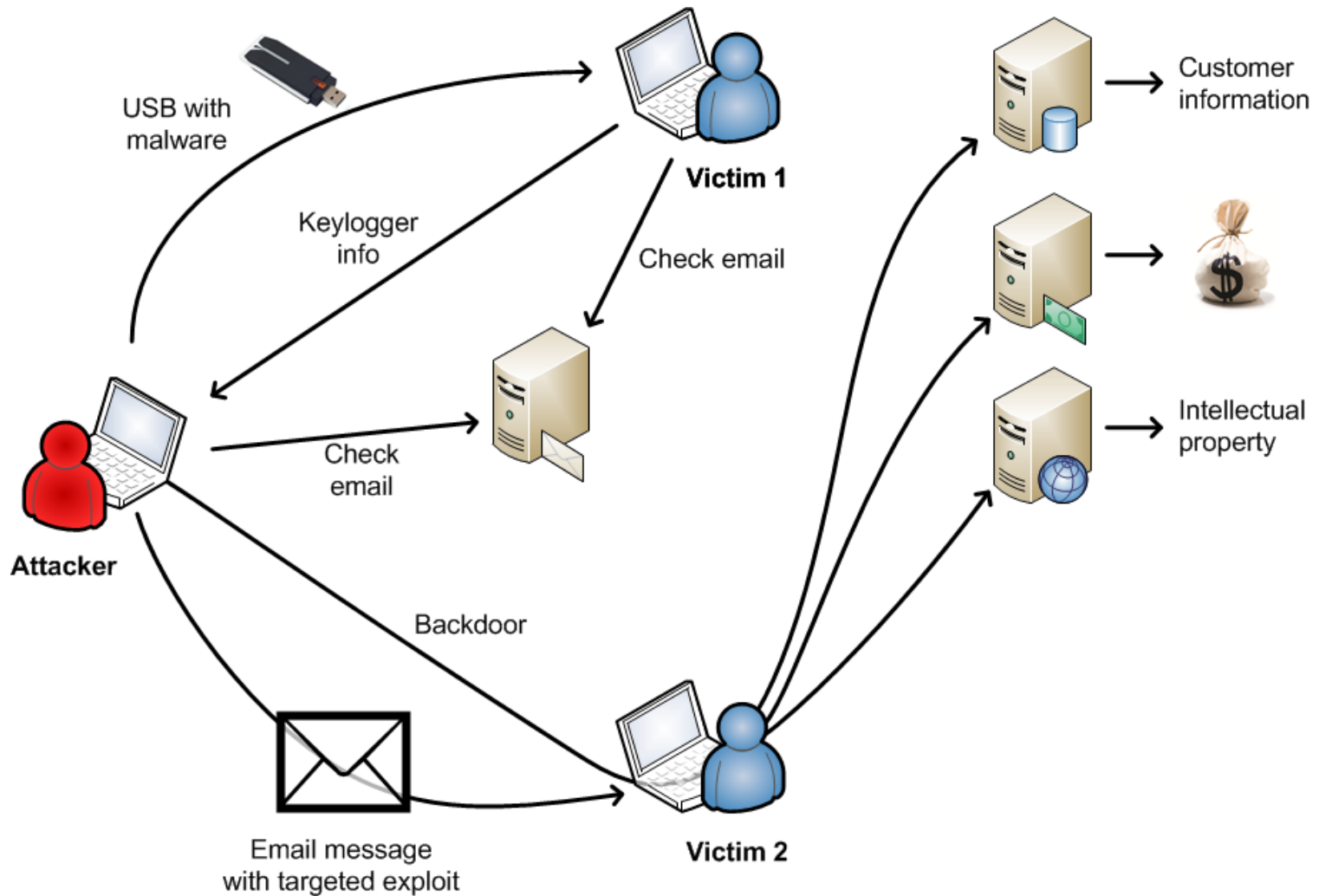
Of course :D 🇳🇱

29 minutes ago



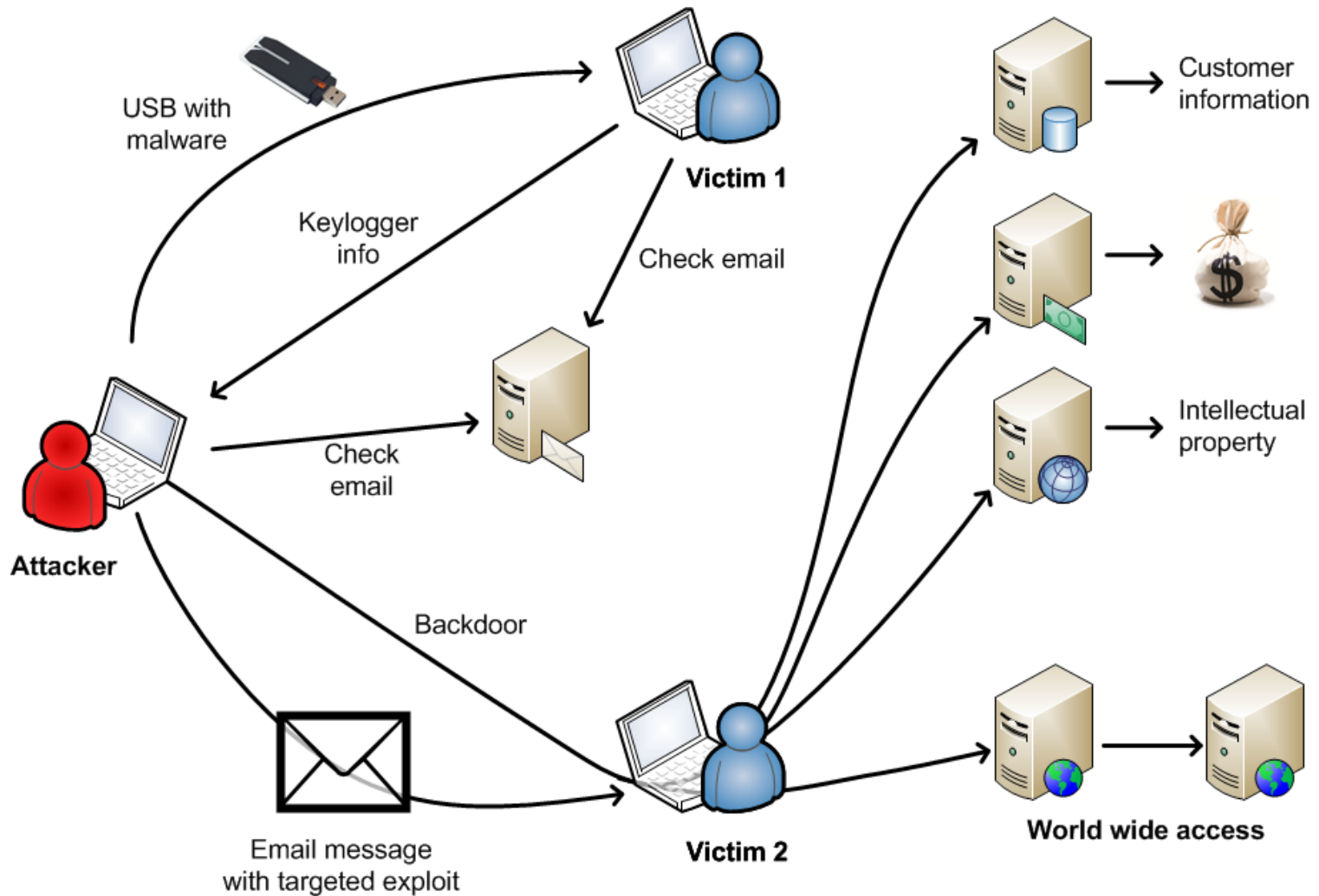
The attack

Worldwide



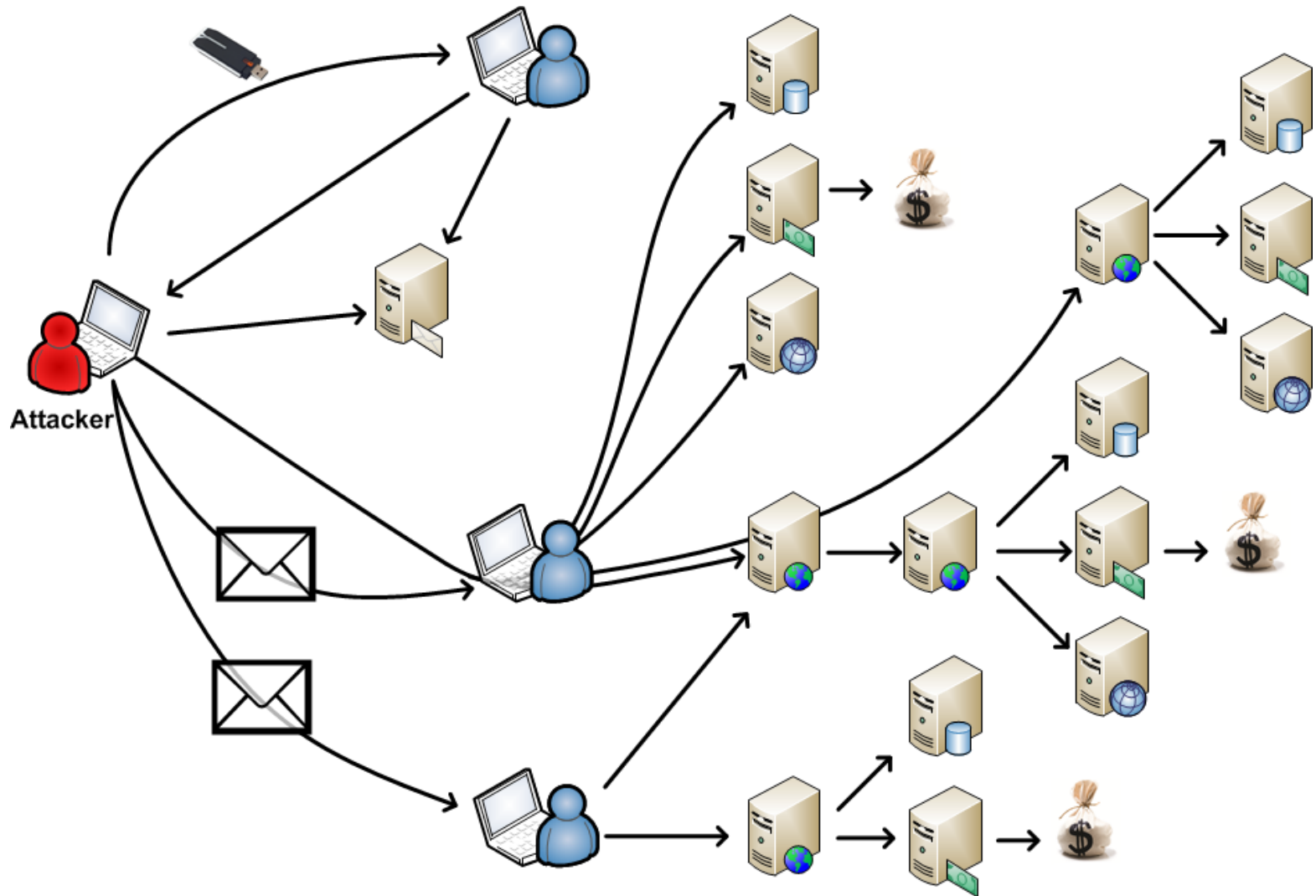
The attack

Worldwide



The attack

Worldwide



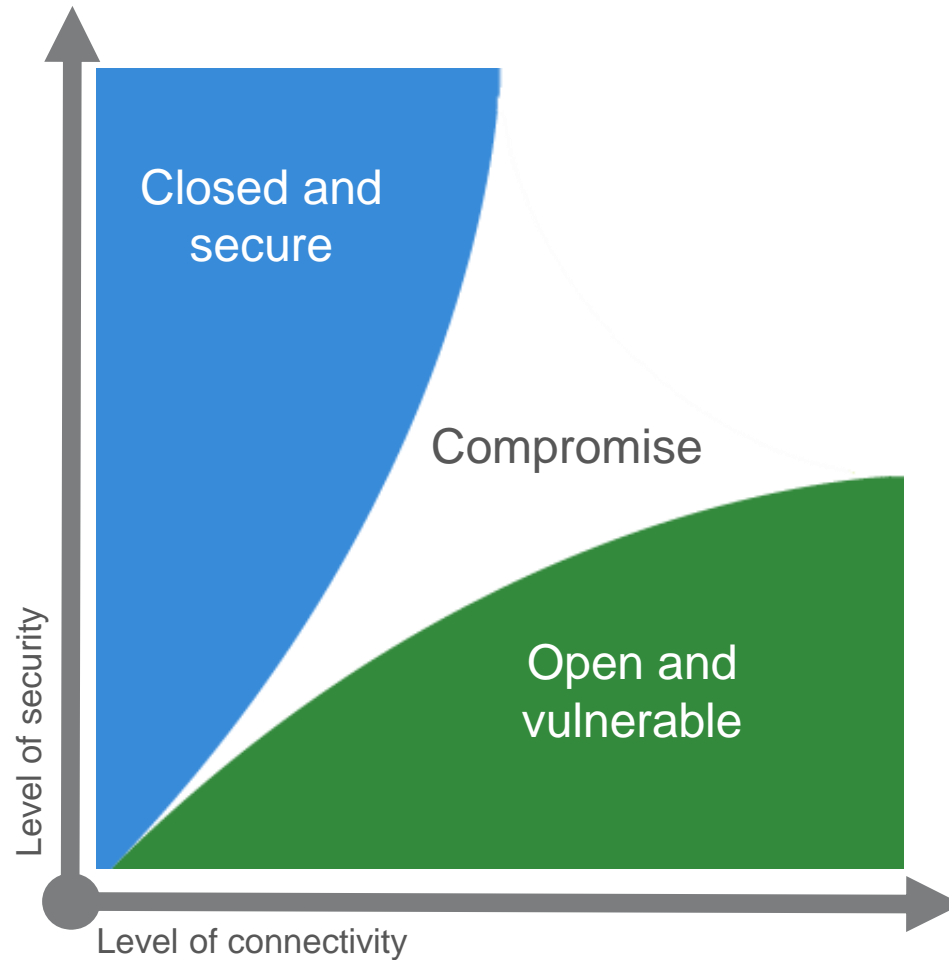
The attack

Worst case scenario...

Companies *Resilience*

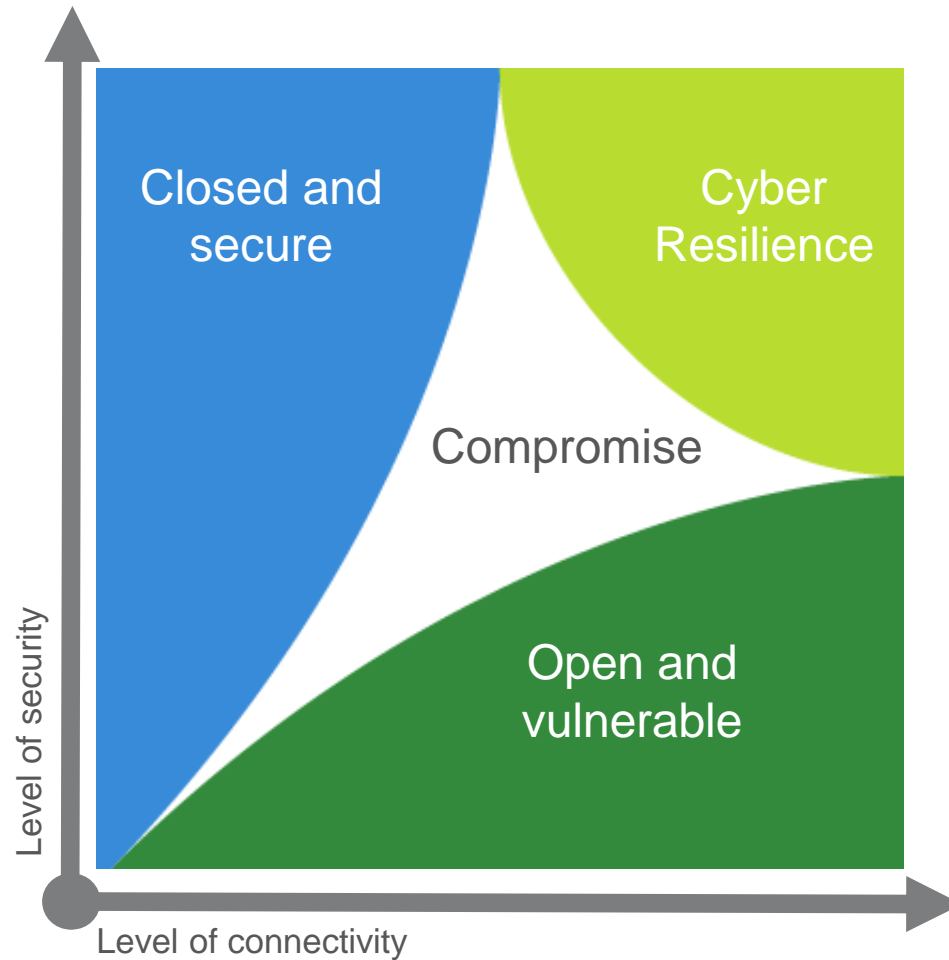
Cyber Resilience

Digital dilemma



Cyber Resilience

Digital dilemma



Cyber Resilience

Paradigm shift



Reactive

- Static.
- Perimeter.
- Keep out.

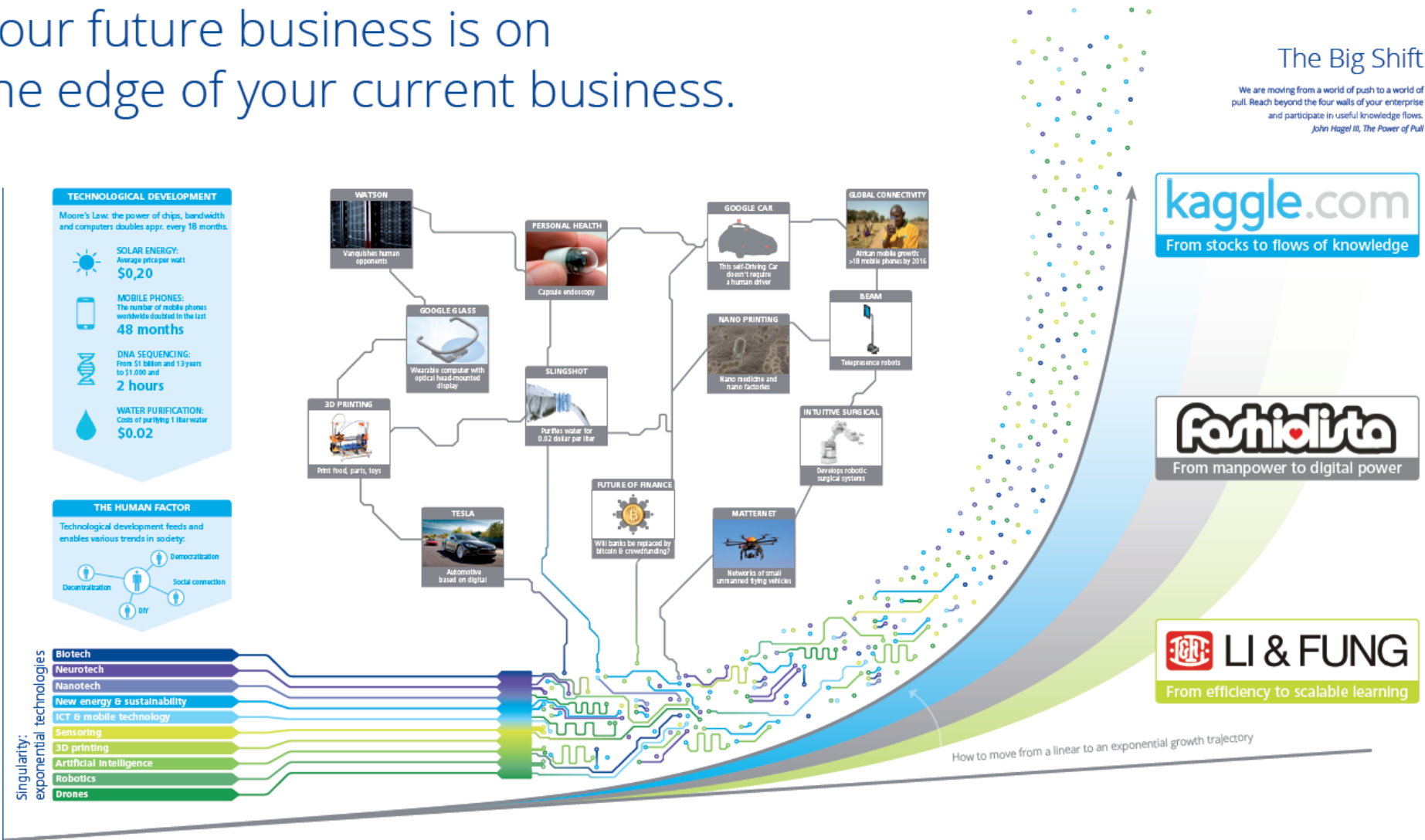
Proactive

- Dynamic.
- Open & connected.
- Detect & respond.



Your future business is on the edge of your current business.

Speed of technological change



The Big Shift

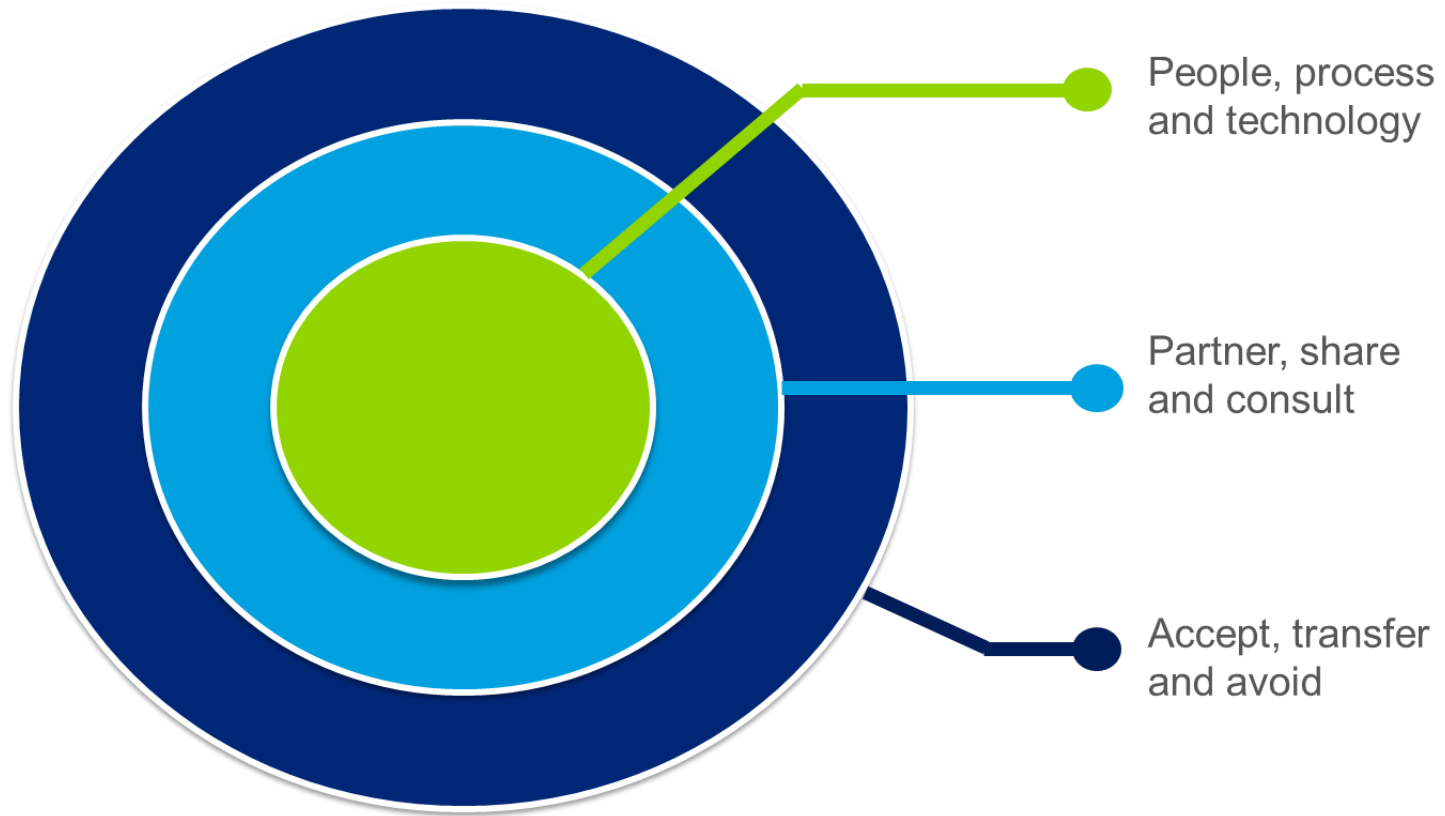
We are moving from a world of push to a world of pull. Reach beyond the four walls of your enterprise and participate in useful knowledge flows.
 John Hagel III, The Power of Pull

Cyber Resilience Cycle



Cyber Resilience

Shared space, shared risks



Any...

Questions?

Experiences?

Remarks?

Stories?



Be prepared. Stay aware.

*Benieuwd hoe een hacking aanval verloopt als een bedrijf wél de juiste maatregelen getroffen heeft?
Bekijk de video 'Cybersecurity Evolved' op <http://deloitte.nl/cybervideo>.*

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