The Human Factor in Cybercrime

Dr. Rutger Leukfeldt

Netherlands Institute for the Study of Crime and Law Enforcement (NSCR)

The Hague University of Applied Sciences

Geregistreerde misdrijven naar type, per 1.000 inwoners

— Totaal — Vermogensdelicten — Vernieling, openbare orde/gezag
— Gewelds- en seksuele misdrijven

80
60
40
20
0

2010 2011 2012 2013 2014 2015 2016 2017

NRC 020318 / DJ / Bron: CBS

RESEARCH AGENDA
THE HUMAN FACTOR IN CYBERCRIME AND CYBERSECURITY

eleven
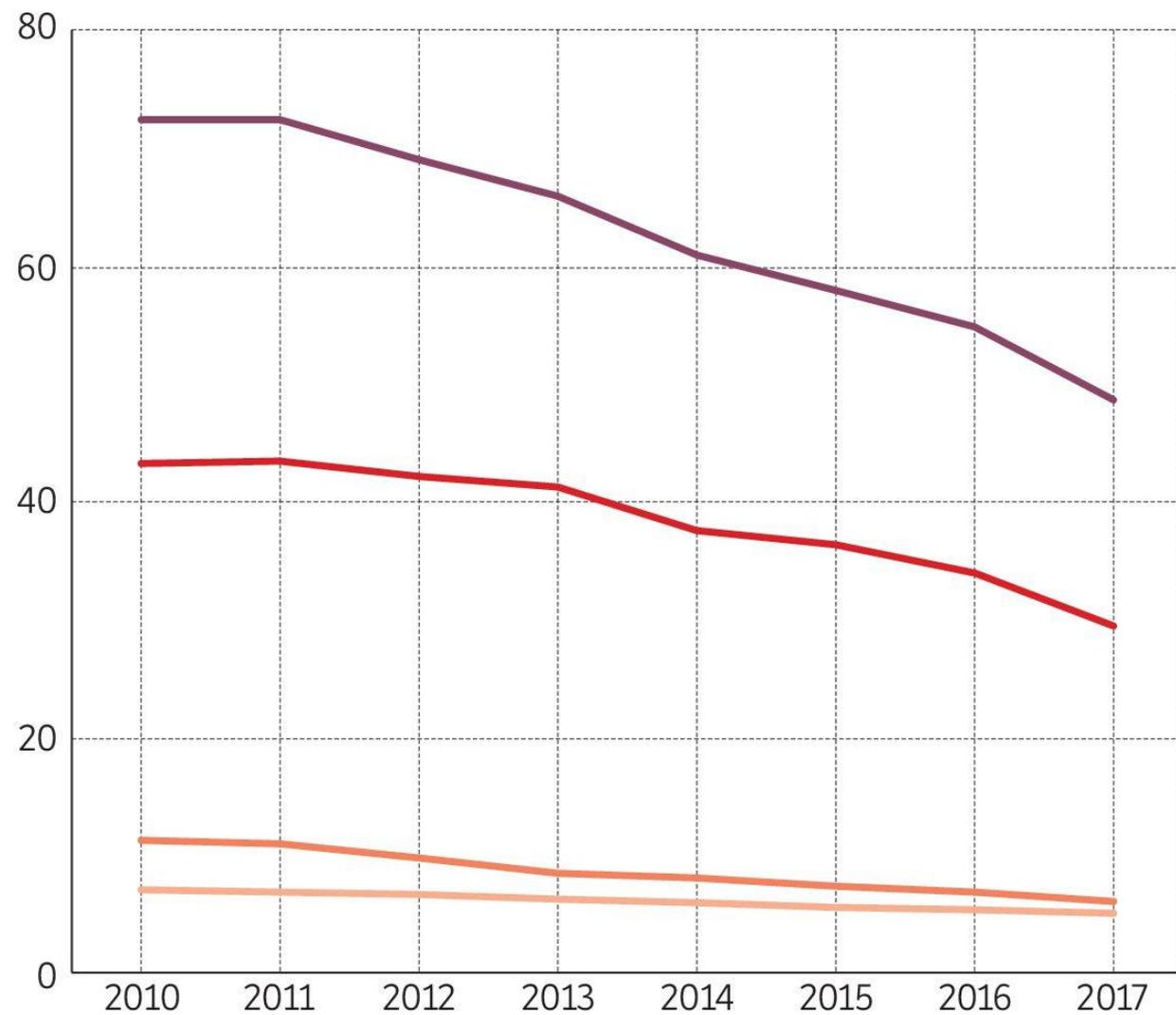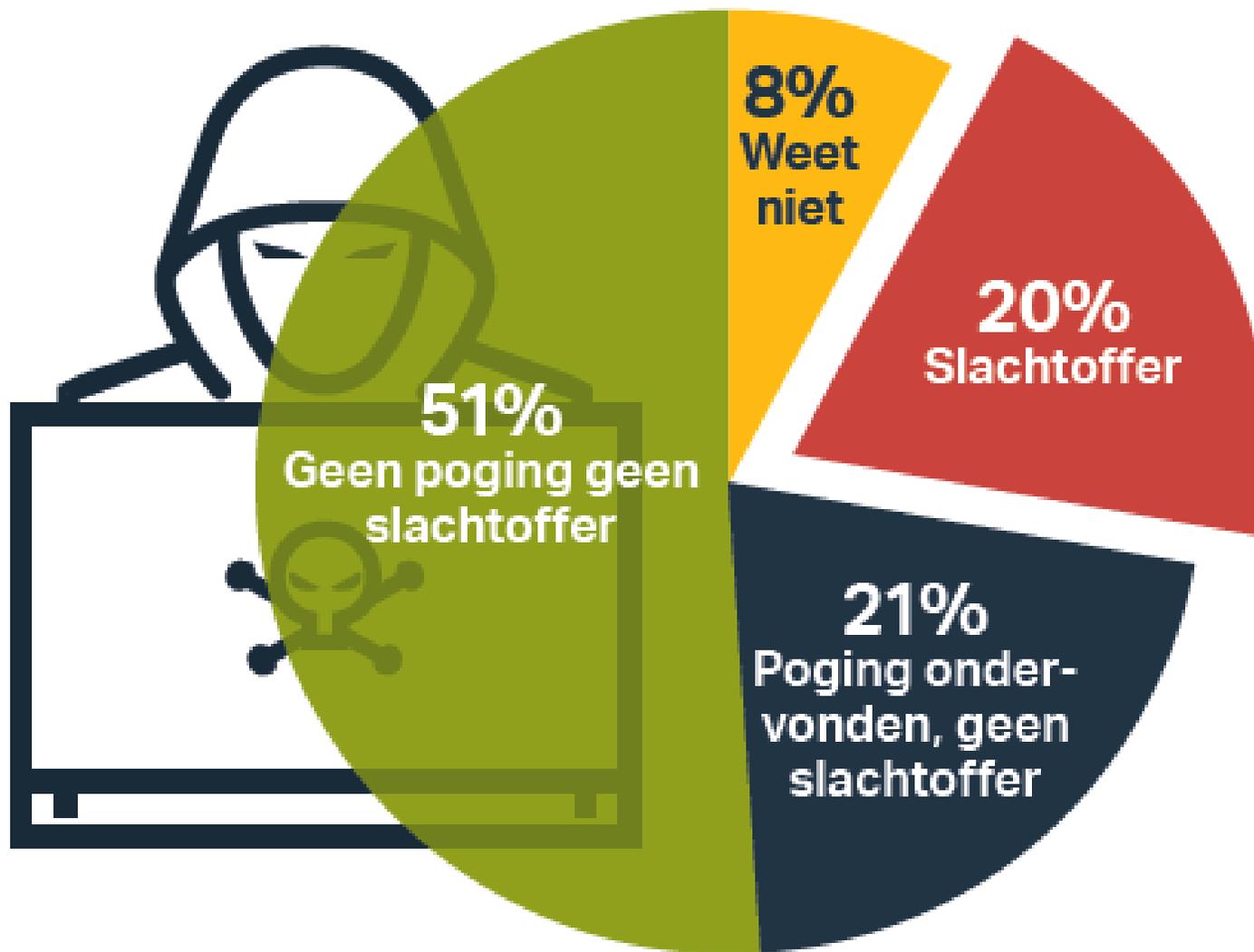International publishing

Routledge Studies in Crime and Society

THE HUMAN FACTOR OF CYBERCRIME

Edited by
Rutger Leukfeldt and Thomas J. Holt

Geregistreerde misdrijven naar type, per 1.000 inwoners

Legend:
- Totaal
- Vermogensdelicten
- Vernieling, openbare orde/gezag
- Gewelds- en seksuele misdrijven

Risk factors

- Background characteristics (age, gender, education level, work)
- Value (financial data; personal income, household income, value of financial assets, amount of savings)
- Visibility (frequency of 12 online activities; direct communication, targeted surfing, downloading, online gaming, online shopping, SNS)
- Accessibility (OS, virus scanner, computer skills, online risk perception)
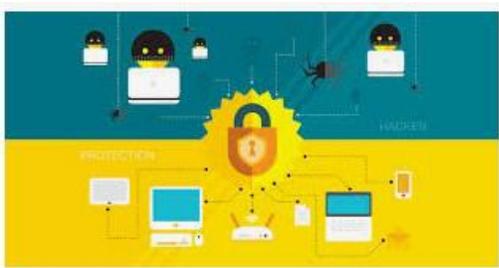
30 Cyber Security Awareness Tips Your ...
snapcomms.com

conclude Cybersecurity Awareness Month ...
ackcent.com

build cybersecurity awa...
safety4sea.com

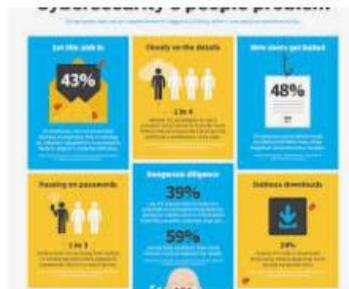12 Ways To Create An Unmissable Cyber ...
snapcomms.com

National Cybersecurity ...
cisecurity.org

Cybersecurity Awareness Month 2020 ...
stratospherenetworks.com

Promoting Cybersecurity Awareness - The ...
blog.mozilla.org

7 security awareness statistics to ke...
searchsecurity.techtarget.com

National Cybersecurity Awareness Month ...
fbi.gov

Cyber Security: Our Shared ...
fbi.gov

Cybersecurity Awareness: Security Overview
lynda.com

Cybersec
keepnetla

Cybersecurity Awareness Month | NIST
nist.gov

Cyber Security Awareness Training ...
moval.edu

Cyber security Awareness Training ...
rockit.cloud

Cybersecurity Awareness: The Process ...
peters.com

Cybersecurity Awareness Month 2020: A ...
optiv.com

Hoe veilig gedragen wij ons online?

Een studie naar de samenhang tussen kennis, gelegenheid, motivatie en online gedrag van Nederlanders

Samenvatting

Kennis over hoe burgers zich online gedragen en hoe zij zich (kunnen) weren tegen online criminaliteit is schaars. Het is tot op heden onbekend hoe Nederlanders zich online gedragen en beschermen tegen online criminaliteit, onder andere omdat hoe mensen zeggen zich online te gedragen niet altijd hetzelfde is als hoe mensen zich daadwerkelijk online gedragen. Voor het empirisch onderbouwen van eventuele interventies op gedrag is dergelijke kennis echter onontbeerlijk. Het is daarom noodzakelijk om meer inzicht te krijgen in de wijze waarop Nederlanders zich online gedragen en welke factoren hiermee samenhangen. Het doel van dit onderzoek is dan ook om in kaart te brengen hoe veilig Nederlanders zich online gedragen en dit te verklaren aan de hand van uit de literatuur naar voren gekomen factoren. Hiermee kan een eerste aanzet worden gegeven om interventies te ontwikkelen om Nederlanders zich online veiliger te laten gedragen.

De hoofdvraag van dit rapport is: "Hoe veilig gedragen Nederlanders zich online en hoe kan dit worden verklaard?"

Bijlagen

📄 **2975_Samenvatting**
Pdf document | 782 kB

📄 **2975_Volledige_Tekst**
Pdf document | 2251 kB

📄 **2975_Summary**
Pdf document | 797 kB

Verder zoeken op trefwoord

→ Computercriminaliteit

→ Cyberspace

→ Gedrag

→ Internet

→ Persoonlijke beveiliging

→ Preventiebereidheid

→ Psychologie

A "population based survey experiment"

- Survey + Experiment (N=2426)
  - Representative
  - Objective measurements

- Measured:
  - How people say they behave online
  - Actual online behavior
  - COM-B / PMT / time pressure / …

Measuring online behavior

- 7 behaviors:
  - Use of passwords (*)
  - Backing-up important files
  - Installing updates
  - Use of virus scanners and firewalls
  - Being cautious online (*)
  - Sharing personal information (*)
  - Dealing with hyperlinks in e-mails
- All types of behavior: self-reported
- 3 types of behaviors: objective measures (*)
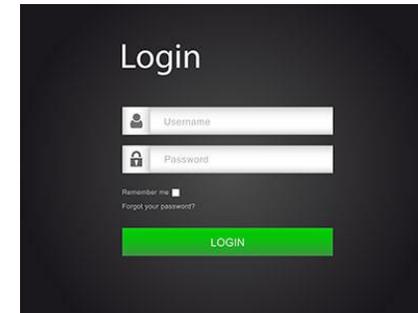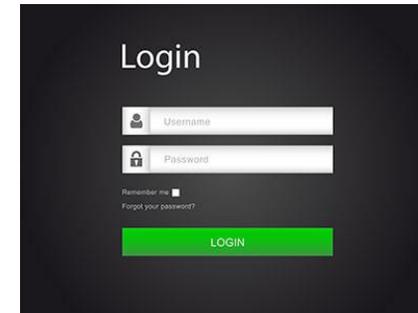
How (un)safe we behave

Password:
- Weak password (entropy<80): 89.2%
- Strong password (entropy 80+): 10.8%

Unsafe software:
- Installing unsafe software: 40.4%: yes

- Personal information
  - Full name: 31.0%
  - Date of birth: 37.5%
  - Home address: 20.4%
  - Last 3 digits bank account: 4.8%

About knowledge… (self reported + test)

<u>Self reported behavior</u>
- More knowledge = significant safer self reported behavior
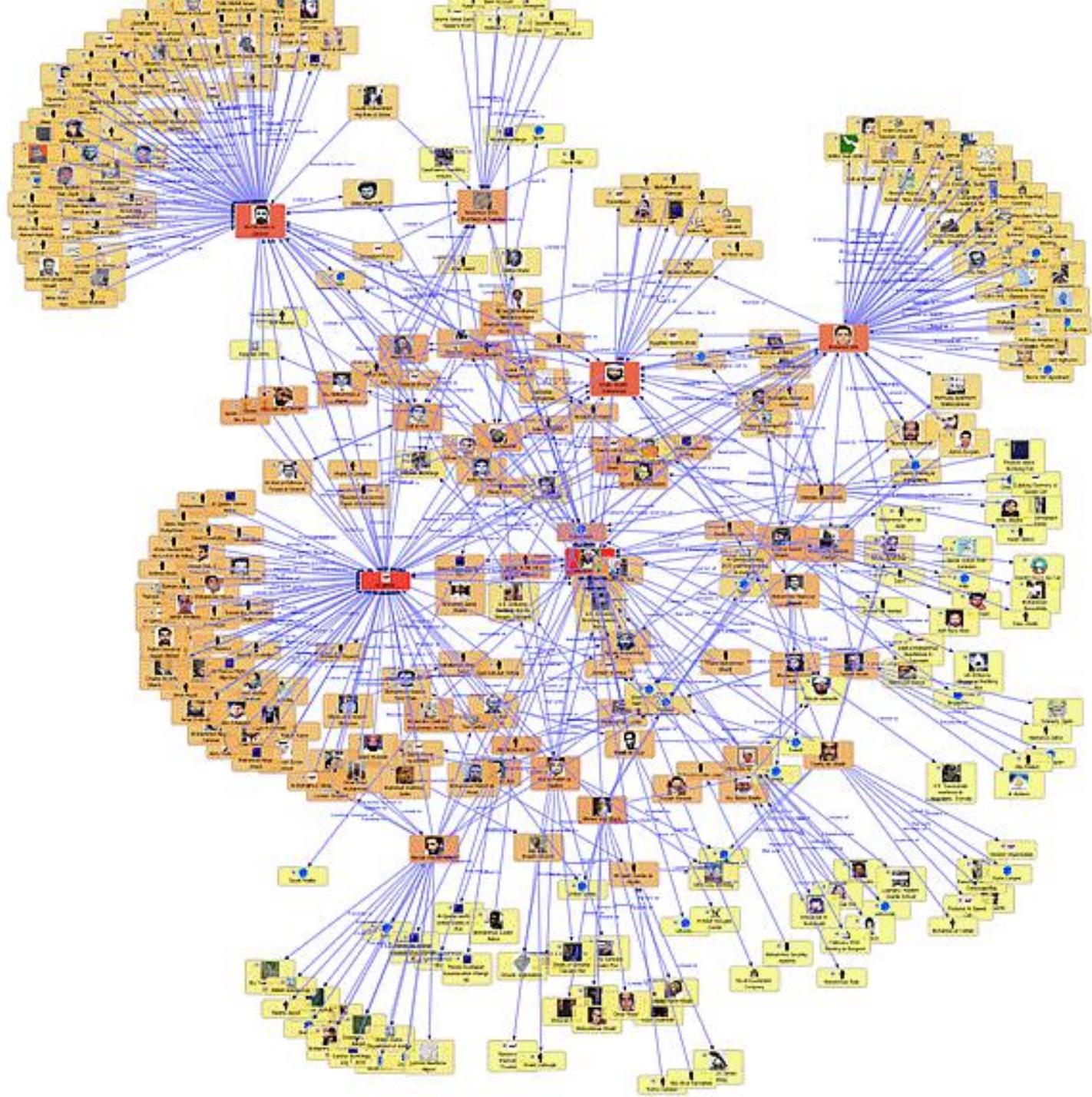
<u>Actual behavior</u>
- More knowledge = significant more often weak password
- More knowledge = significant more often download unsafe software
- More knowledge = significant less often providing personal data

฿ Exchange

BTC	1.0
mBTC	1000.0
BCH	10.6
XMR	41.8
USD	7969.1
EUR	6449.1
GBP	5643.0
CAD	10279.9
AUD	10312.1
mBCH	10675.0
SEK	65800.6
NOK	61828.0
DKK	48033.2
TRY	31600.8
CNH	50252.1
HKD	62408.4
RUB	454858.5
INR	517112.1
JPY	834520.0

Onion mirrors

igyifrhnvxq33sy5.onion
verified ✅

jd6yhuwcivehvdt4.onion
t3e6ly3uoif4zcw2.onion
7ep7acrkunzdcw3l.onion
vilpaqbrnvizecjo.onion
igyifrhnvxq33sy5.onion
6qlocfg6zq2kyacl.onion
x3x2dwb7jasax6tq.onion
bkjcpa2klkkmowwq.onion

Contact vendor

Report Vendor
Add to favourites
Send message

Username	CharlieOz (1400) (5.00⭐) (⚛37, 4.97/5) (ⓐ 1379/1/0)
Verified	Nucleus: 37 Deals, Rating 4.97/5
FE enabled	Yes
Join date	28/12/2015
Last active	16/04/2018 (today)

Profile | **Ratings**

Age	1 Stars	2 Stars	3 Stars	4 Stars	5 Stars	Rating
Newer than 1 Month	0	0	0	0	114	(5.00⭐)
Newer than 3 Months	0	0	0	0	288	(5.00⭐)
Older	0	0	0	0	666	(5.00⭐)

> ⚠️ **Do not** open links from ratings, they will contain **phishing links**. Phishing links are leading to fake websites which are stealing your login data.

Time	Rating	Comment	Code	Amount
06:12	⭐⭐⭐⭐⭐	Enter your comments here	1 . . . r	~ ฿0.02
07:58	⭐⭐⭐⭐⭐	Enter your comments here	r . . . f	~ ฿0.02
13:48	⭐⭐⭐⭐⭐	Enter your comments here	t . . . d	~ ฿0.2
1d 6h	⭐⭐⭐⭐⭐	FE; CharlieOz one of the best and always comes through :-)	B . . . 4	~ ฿0.01
1d 22h	⭐⭐⭐⭐⭐	Enter your comments here	N . . . a	~ ฿0.02
4d	⭐⭐⭐⭐⭐	Brilliant. Ordered Friday, received Monday.	f . . . n	~ ฿0.01
4d	⭐⭐⭐⭐⭐	True professionals NDD thank you	a . . . 8	~ ฿0.01
5d	⭐⭐⭐⭐⭐	Best as always... Will come back again and again	9 . . . 1	~ ฿0.01
5d	⭐⭐⭐⭐⭐	Enter your comments here	b . . . m	~ ฿0.02
6d	⭐⭐⭐⭐⭐	top vendor/ always NDD	k . . . g	~ ฿0.013
6d	⭐⭐⭐⭐⭐	Enter your comments here	o . . . n	~ ฿0.05
6d	⭐⭐⭐⭐⭐	Product exactly as per pics. NDD. Excellent Stealth	j . . . g	~ ฿0.01

arlieOz&tab=ratings#tabChooser

Conclusies

Cybercrime = veelvoorkomende criminaliteit

- Geen afgebakende groep met verhoogde kans
- Weerbaarheid!

Cybercrime = high impact crime criminaliteit

- Grote impact op slachtoffers

Gedrag is moeilijk te sturen

- Alleen inzetten op meer 'awareness' is niet genoeg
- Vergeet gelegenheid en motivatie niet

Verdienmodellen van cybercriminelen?

- De cybercrimineel bestaat niet
- Gelegenheid…
- Meer fluide dan vaak gedacht: cafeteria style offending