

National Coordinator for Security and Counterterrorism Ministry of Security and Justice



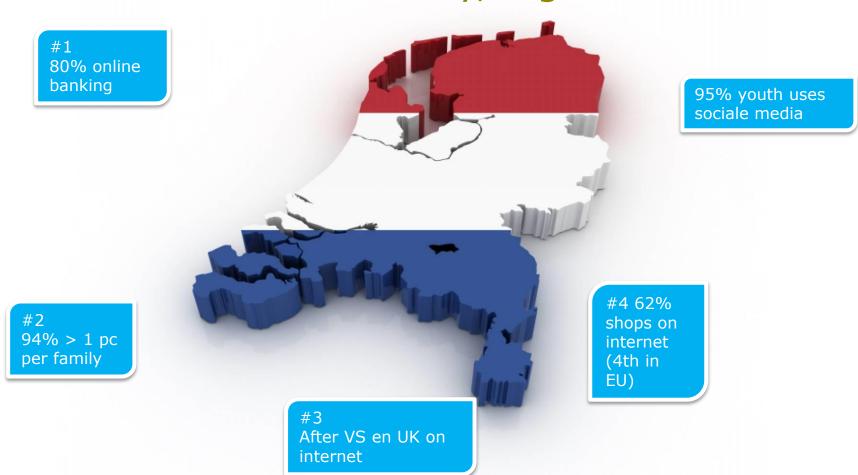
Netherlands Cyber Security Strategy

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Netherlands: small country, big time vulnerable







Internet ocean cable connects Europe through Amsterdam IX







Cyberthreat is substantial

Hacking as much as bicycle theft in NL

• Risk e-fraude is 3,5% -> pickpockets 1,7%

(politieacademie, 2013)

• 13% van de Nederlanders slachtoffer van cyber crime

(Veiligheidsmonitor CBS, 2014)







The Netherlands: wake up calls (2011-now)

Leaktober
Dorifel
DDOS-attacks

Hold Security





Door NCSC afgehandelde incidentmeldingen

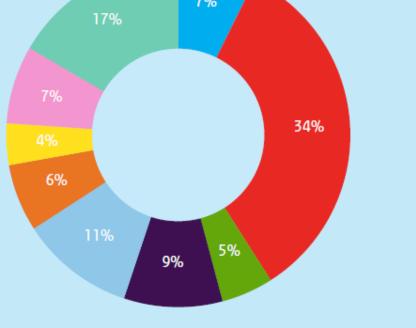






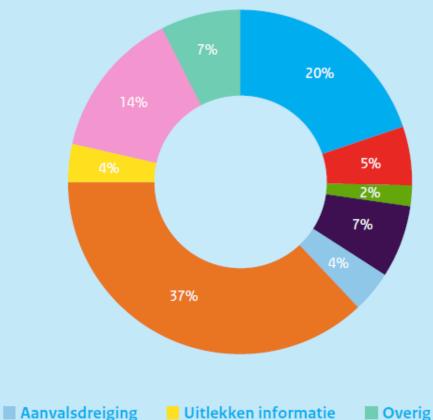
Impact incidentmeldingen overheid

7% 17% 34% 6% 5% 9%





Impact incidentmeldingen privaat











Legislative framework

- Law Security breach notification in progress
- Law Computer criminality III in progress
- Budapest Convention
- EU Directive Network and Information Security
- Law Intelligence and Security Services
- Law code of criminal procedure
- Guideline responsible disclosure
- Laws, directives and regulations on privacy, child abuse, financial sector, telecom ...





National cyber governance framework

NETWORK & INFOSECURITY

PROSECUTION

INTELLIGENCE

CONFLICT

MOD

Military

NATO

NCSC

POLICE

AIVD

DEFCERT

Public Prosecution

MIVD

Service

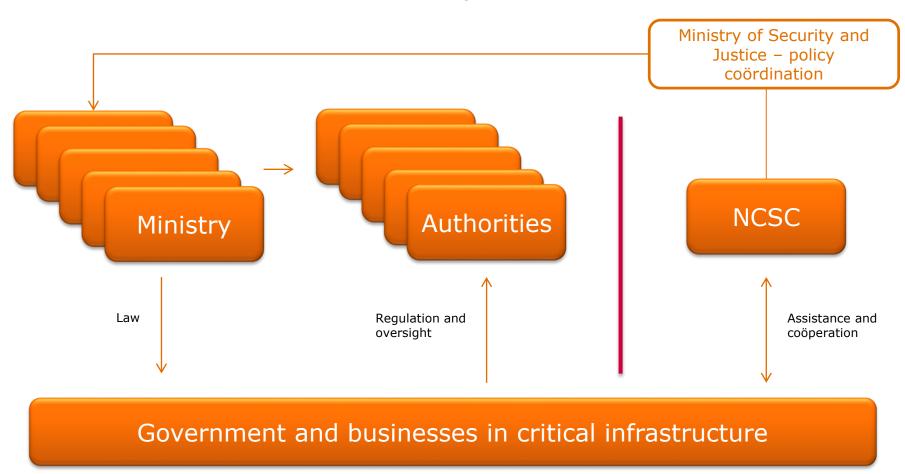
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Business-CERTs





Network & Infosecurity in the Netherlands







Cyber security beeld: 4 belangrijke trends

Hyperconnectivity

Legacy

Crime & state sponsored

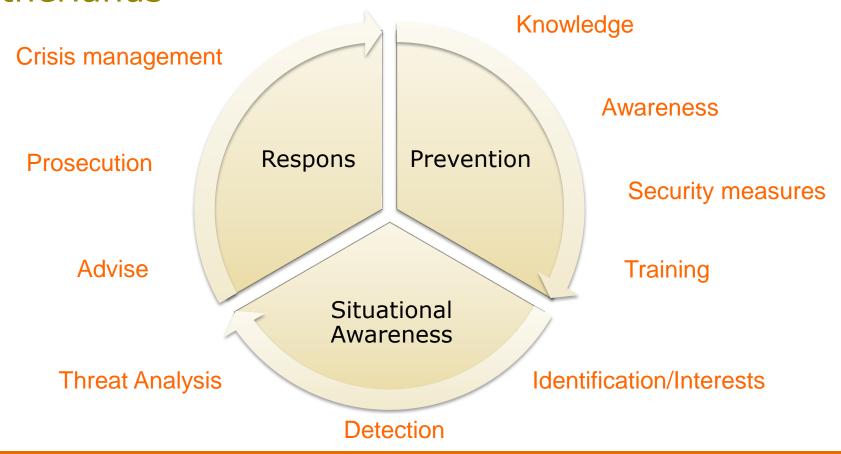
Privacy







Cyber Security: The state of the art in the Netherlands

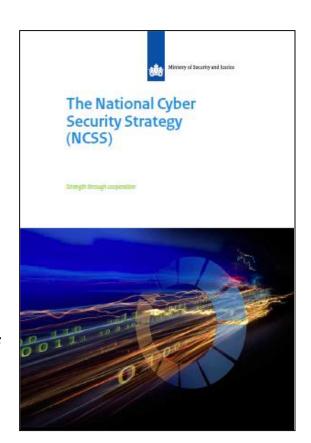






National Cyber Security Strategy I - 2011

- Public Private Partnership
- First action programme:
 - Setting up CS Council and National CS Centre
 - 2. Setting up CS Threat Assessment
 - 3. Increasing the resilience of critical infrastructure
 - 4. Increasing response capacity on attacks/disruptions
 - 5. Intensifying investigation and prosecution of cybercrime
 - 6. Encouraging research and education







The National Cyber Security Strategy (NCSS)

Street through conpension

National Cyber Security Strategy 2

From awareness to capability





NCSS - 2011	NCSSII - 2013		
Public Private Cooperation	Public Private Participation		
Focus on structures	Focus on networks / strategic coalitions		
Capacity building national oriented	Capacity building national as well as international		
Do what you think is right (intuition)	Balance (as a result of knowledge / experience): - Measures throughout cyber chain - Threats, assets and controls.		
Defining principles (for example, multistakeholder model, international cooperation).	Defining a vision: for example on governance		
General approach	Risk based approach		
Unaware → Aware	Aware → Skilled		

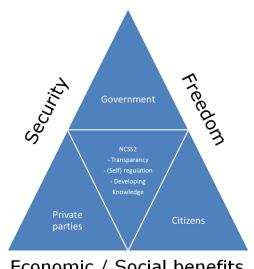




Developments



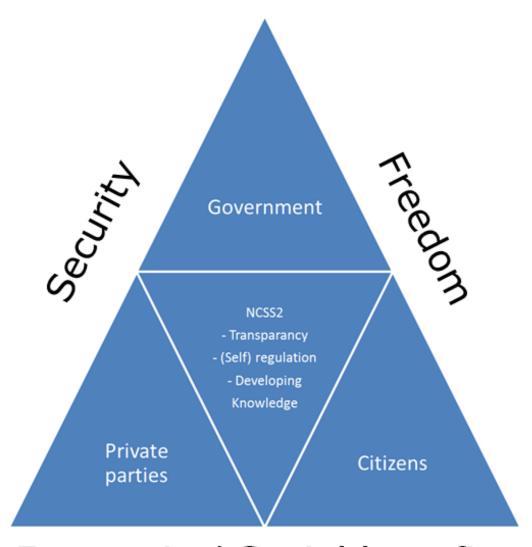
- Broad approach to "space" means triangle of:
 - Security
 - Freedom
 - Economic/social benefits
- A more international approach and increased number of actors
- Need for a comprehensive governance model



Economic / Social benefits

National Cyber Security Strategy II





Economic / Social benefits





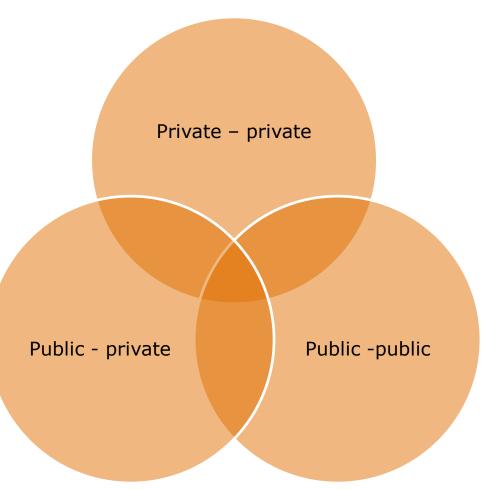






The Dutch Approach

Doctrine:
public private cooperation
&
private public participation







Relevant PPP cyber security fora

Strategic-policy level

Cyber Security Council
Committee Critical Infrastructure

NCSC Council

Tactical-operational level

ISAC's

Liaisons

Incident Response Board

Operational level

Operational Incident Response Team forum

International CERT community







NL Cyber security

resilient
against
cyberattacks
and able to
protect its
critical
infrastructure

Fight cybercrime

invest in secure ICT products and services taking into consideration the promotion of privacy

build coalitions for freedom, security and peace in the digital domain

invest in innovation and adequate knowledge levels





Action programme; some successes in 37 actions

- Trusted Network Initiative
- National detection and respons network
- Strengthening analysis capabilities
- Strengthening Military Cyber Defence capabilities
- Global conference on cyberspace 2015/GFCE
- Tender for the National Cyber Security Research agenda
- Public-Private taskforce cybersecurity education
- Fusion Cell Economic Crimes Taskforce
- Engaging ethical hackers





Challenges for a secure Netherlands digital gateway to Europe

- Third Strategy? -> Netherlands Cyber Space Strategy
- The 'harder' things:
 - from awareness to responsible behavior
 - e-skills, e-government, e-bussiness
 - measuring effectiveness
 - getting private sector involved financially
 - responsible zero day usage
 - encryption/decryption
 - international standards
 - secure hard- and software
 - international norms
 - internetgovernance
 - future opportunities/threats Big Data, Internet of Things