



NORTH ATLANTIC TREATY ORGANIZATION  
ORGANISATION DU TRAITÉ DE L'ATLANTIQUE NORD



# Influence of Foreign Threats on the Cyber World

VERSION 26 November 2024



## Intro

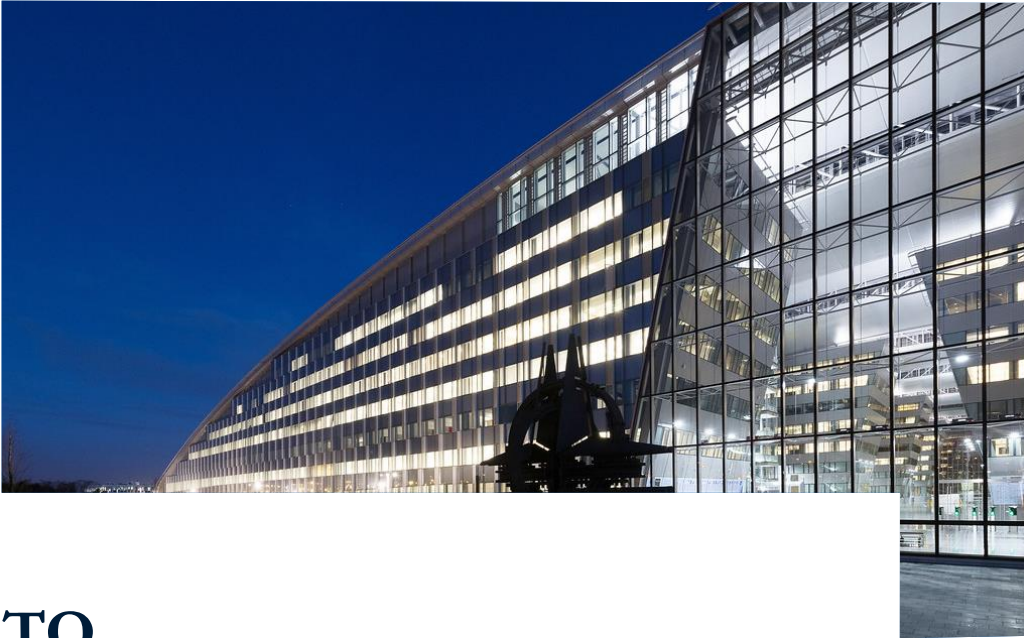
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## Agenda

1. NATO and Cyber
2. NATO through Time
3. Geopolitical Ecosystem
4. Dynamics of Cybersecurity
5. Growing Threats
6. NATO's Response
7. "Self Advertising"



## NATO

Washington Treaty

32 Member nations

Purpose is to safeguard freedom and security of its members through political and military means

## Cyber at NATO

Embedded in NATO's core tasks

Threats are increasing in frequency and sophistication

Cyber is a military domain

Focus on

- Protecting our networks
- Conducting operations
- Helping Allies enhance national resilience
- Providing a platform for consultation and collective action



# NATO

NATO 1.0 – 1949 through early 2000s

NATO 2.0 – through approximately 2014

NATO 3.0 – current

## NATO through Time

### NATO 1.0

- Cold war
- Counterweight to Warsaw Pact

### NATO 2.0

- Article 5 of Washington Treaty (for Afghanistan)
- Focus on fighting terrorism
- Major missions: Afghanistan / Iraq

### NATO 3.0

- Russia's invasion into Ukraine (2014 and 2022)
- Rise of China
- Converging interests: Russia, North Korea, China

# Geopolitical Ecosystem



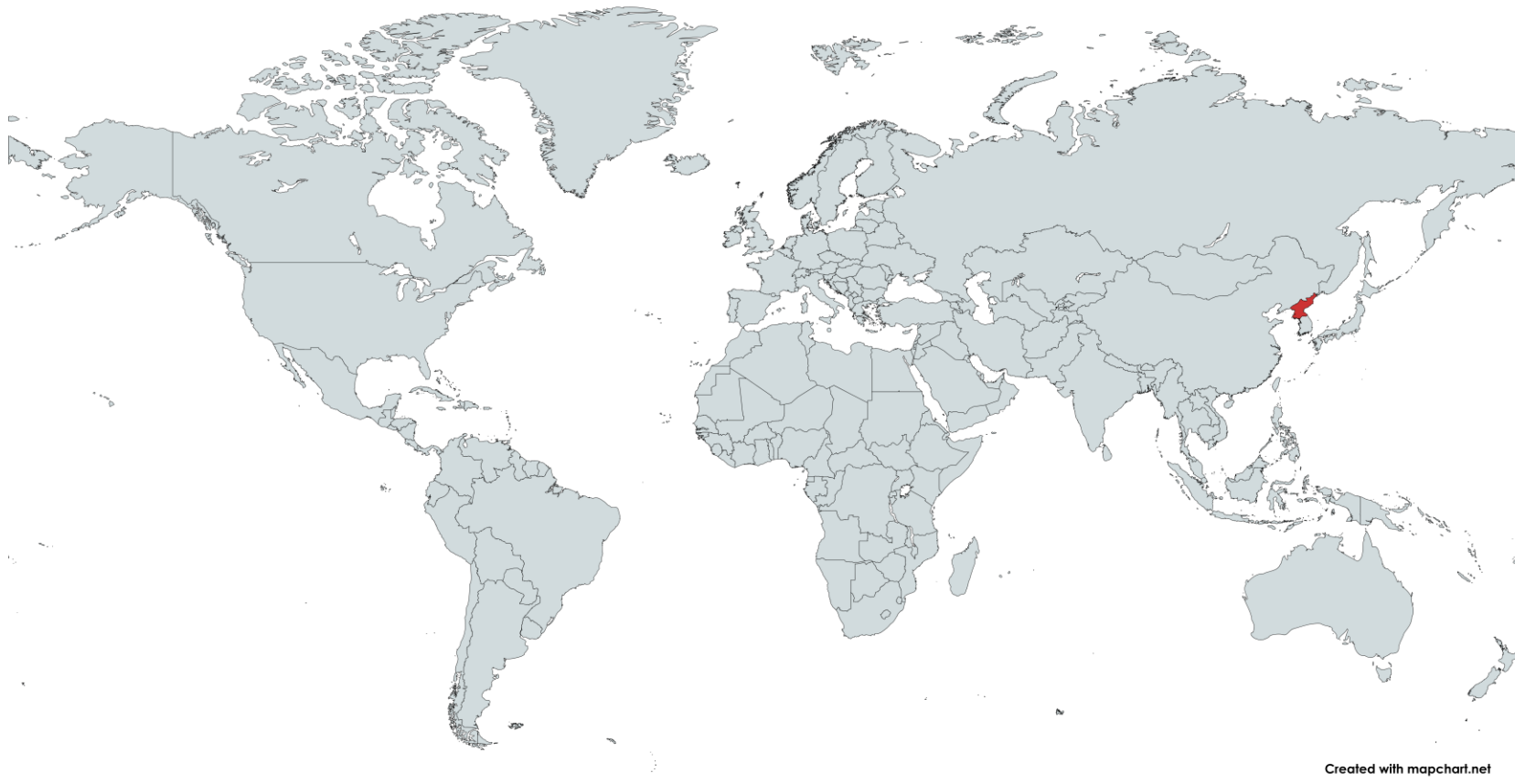
# Russia



# China



# North Korea





# Iran





## Dynamics of Cybersecurity

Strong presence of asymmetry

- Attacker investment and risk = low
- Defender investment and risk = high

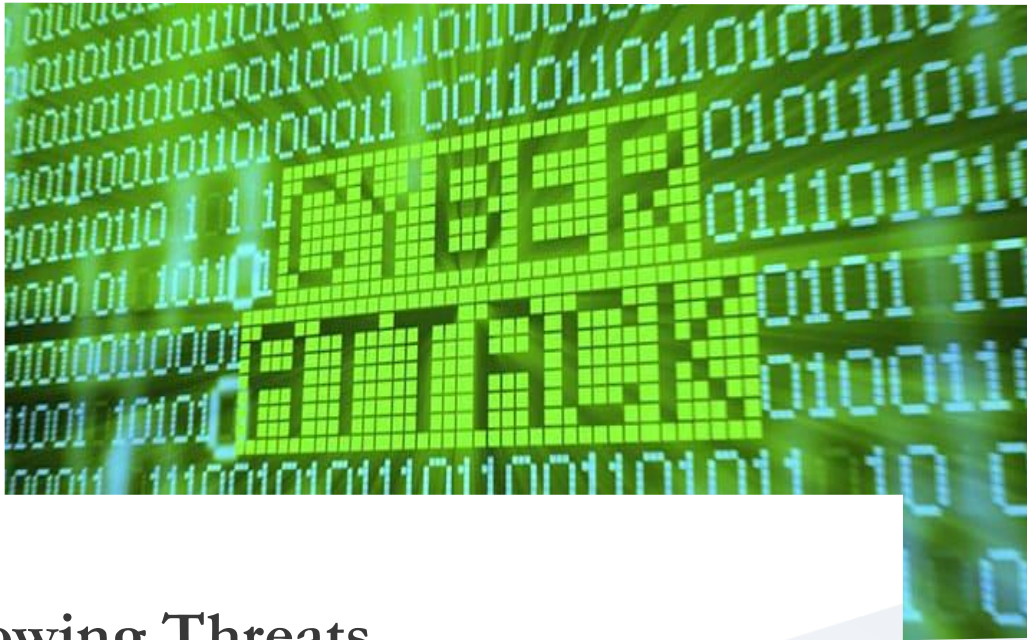
Equalize load distribution

### Method 1: Inflict damage on attacker

- Disruption or destruction – Offensive Cyber Operations (prerogative of nations – not private industry, not NATO)
- Public attribution – technically difficult, politically sensitive, and only marginally effective
- Sanctions – impose economical damage (nations)

### Method 2: Deny benefits for attacker

- Risk awareness / know your environment
- Invest in people
- Information hyper-triangulation
- Step-up defense through technology



## Growing Threats

- Based on geopolitical and criminal interests
- Fueled by technological advancements (AI)
- Continue to take advantage of “the unprepared”

1

Espionage

2

Ransomware

3

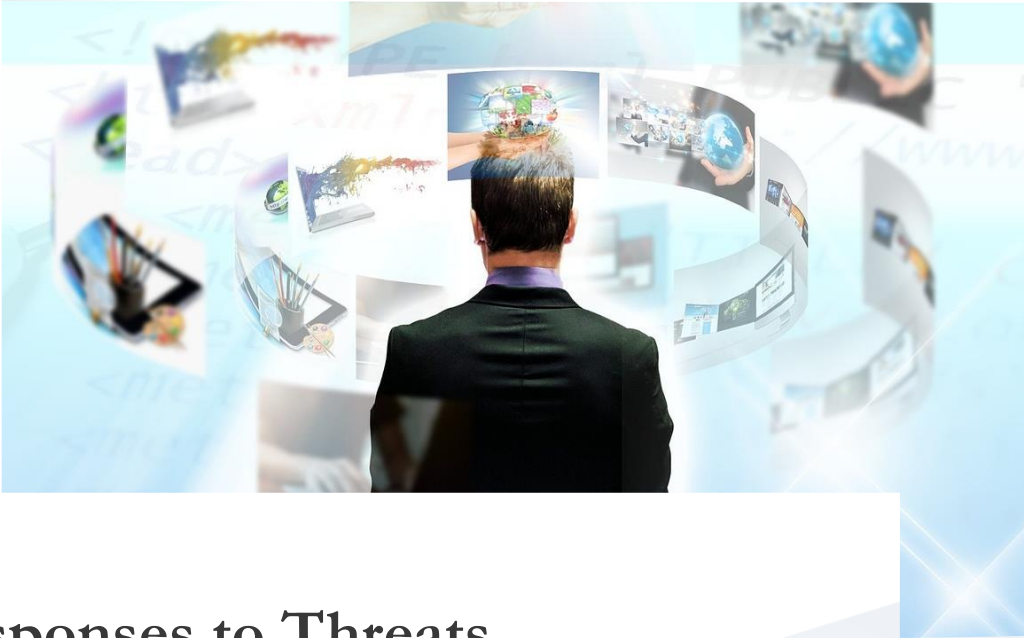
Supply Chain

4

Local-to-Cloud

5

Disinformation



## Responses to Threats

- No AI guilt
- Do not forget about the basics
- Threat → Risk → Action

1

Start with threats and risks

2

Know your environment

3

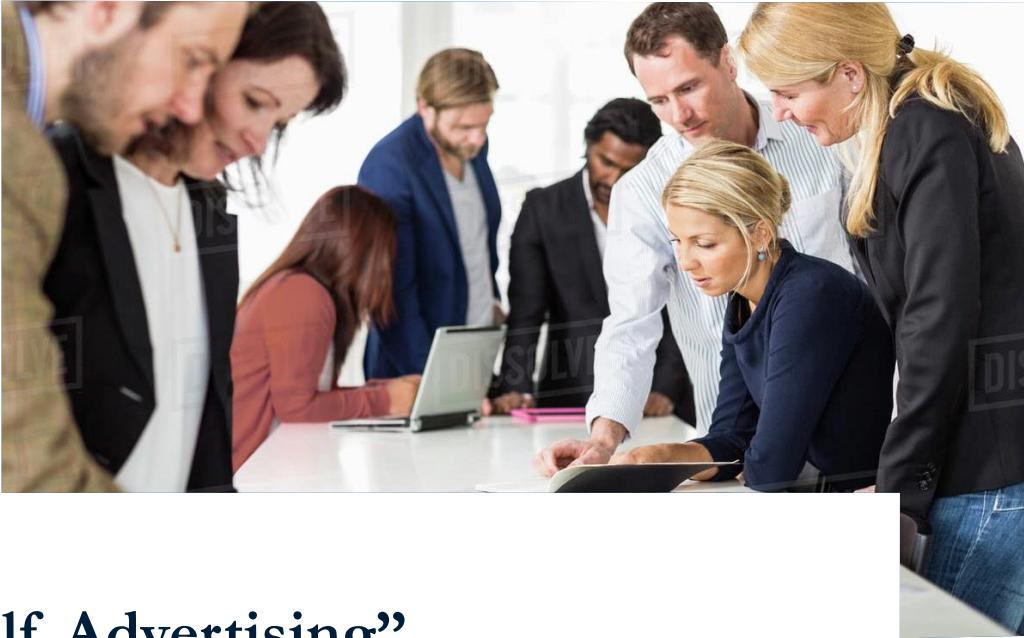
People first – before processes & technology

4

Hyper-triangulate data

5

Use technology smartly



## “Self Advertising”

If you want to help safeguard freedom and security for one billion people...

## Opportunities to Engage

### Employment

- Staff positions
- Interns
- Young Professionals Program (YPP)

[www.nato.int](http://www.nato.int)

### Business

- Defense Accelerator for the North Atlantic (DIANA)

[www.diana.nato.int](http://www.diana.nato.int)

- Request for Proposals / Quotations

[www.ncia.nato.int](http://www.ncia.nato.int)

# Q & A