



L' adoption du Cloud

by Swisscom

swisscom

December 3, 2019



1. Regulations
2. Decision tree
3. How we see the threat landscape
4. About Security at Swisscom
5. Swisscom Security Portfolio
6. DPO Job

Agenda



Regulations

swisscom



Data Management

- FINMA → 8 circulaires
- Cloud Act vs Patriot Act
- Privacy Shield
- US Persons
- GDPR → DPO



Le «challenge»



Transformation



Banking
Medical
Legal



Objectives



Cloud acceptance



Which Cloud ?



Questions a customer has to ask himself

Customer requirements are key for the right platform choice

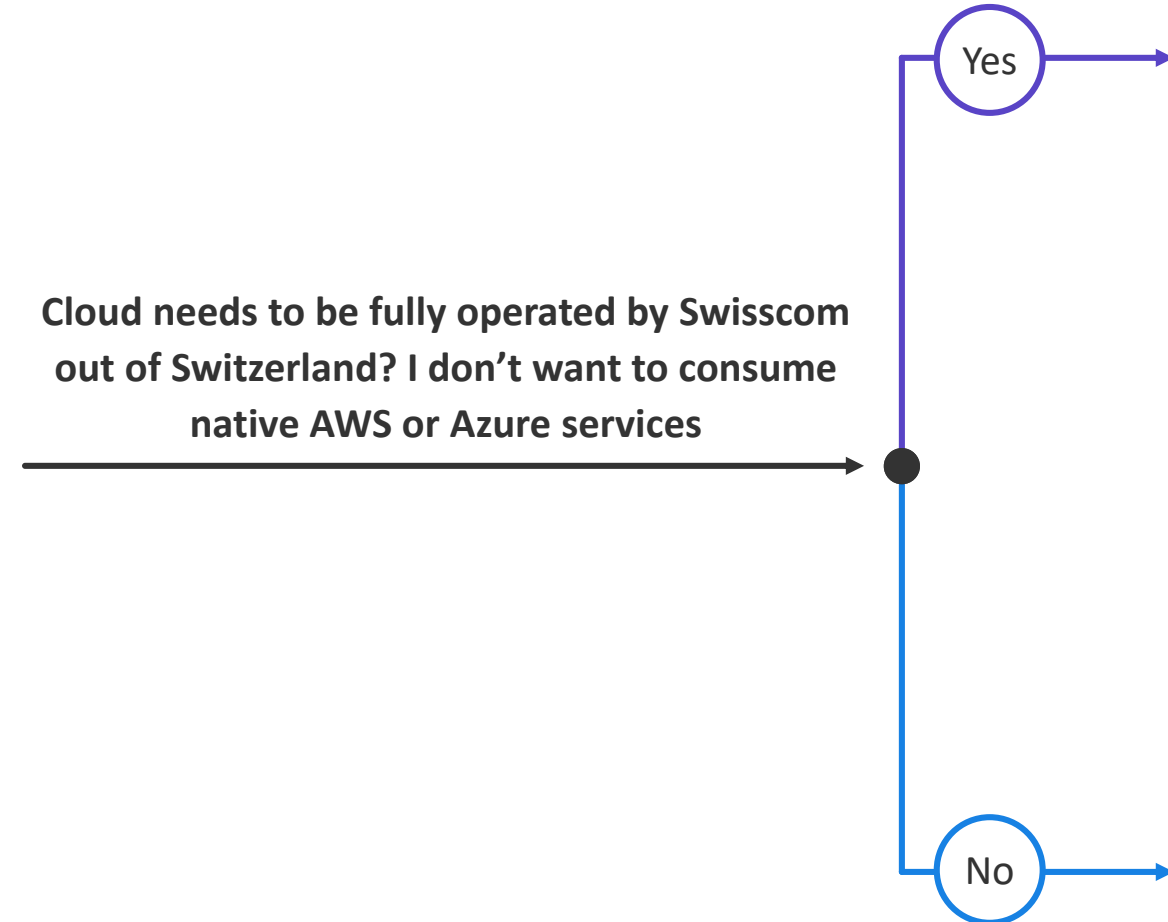
Swisscom fully supports Public Clouds

Some customers could put workload on public clouds, but they do not want to depend of an international service provider

Hybrid IT is common


A mix of many Clouds is the standard

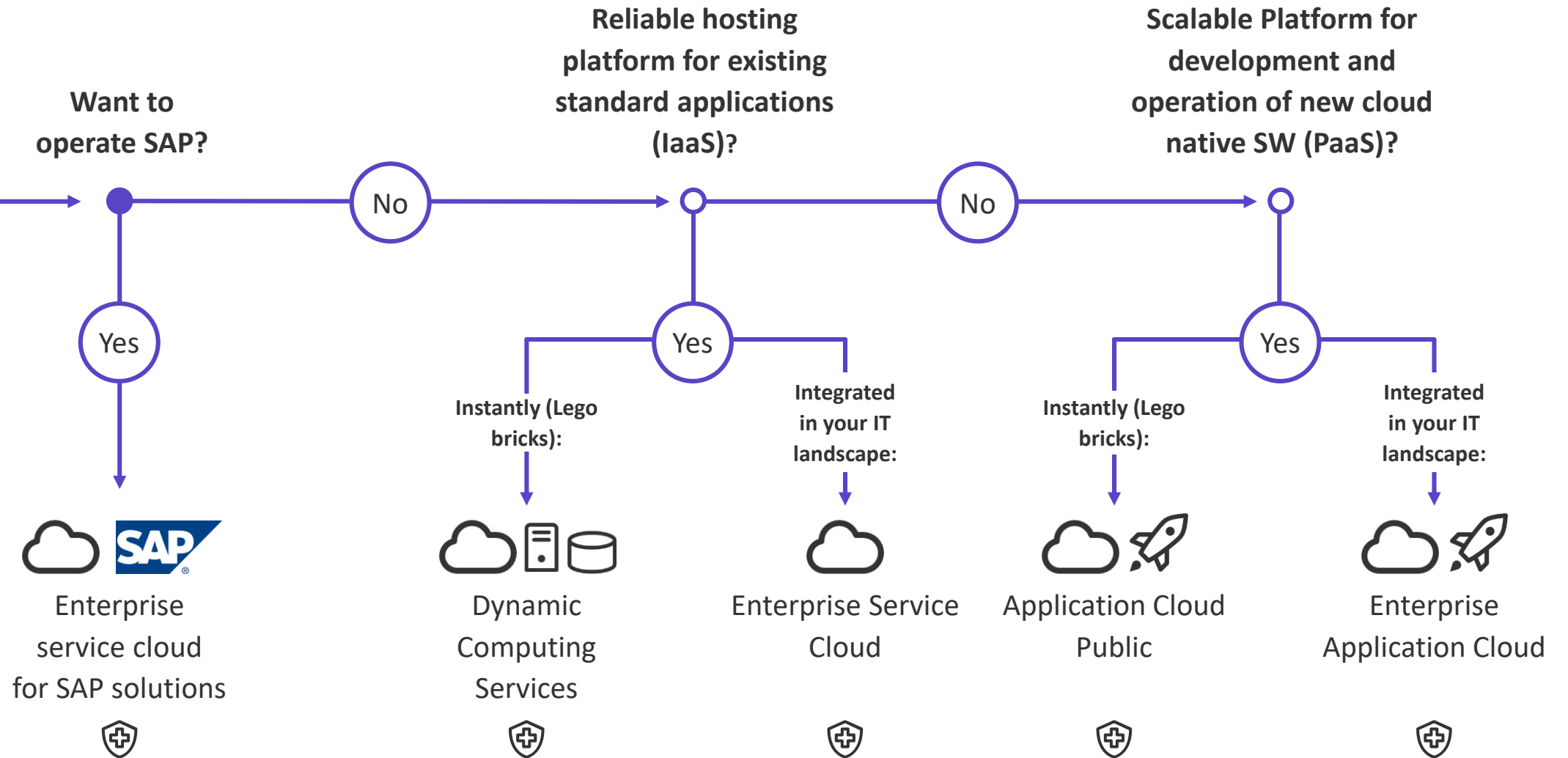
Cloud needs to be fully operated by Swisscom out of Switzerland? I don't want to consume native AWS or Azure services





Back

 Located in Switzerland

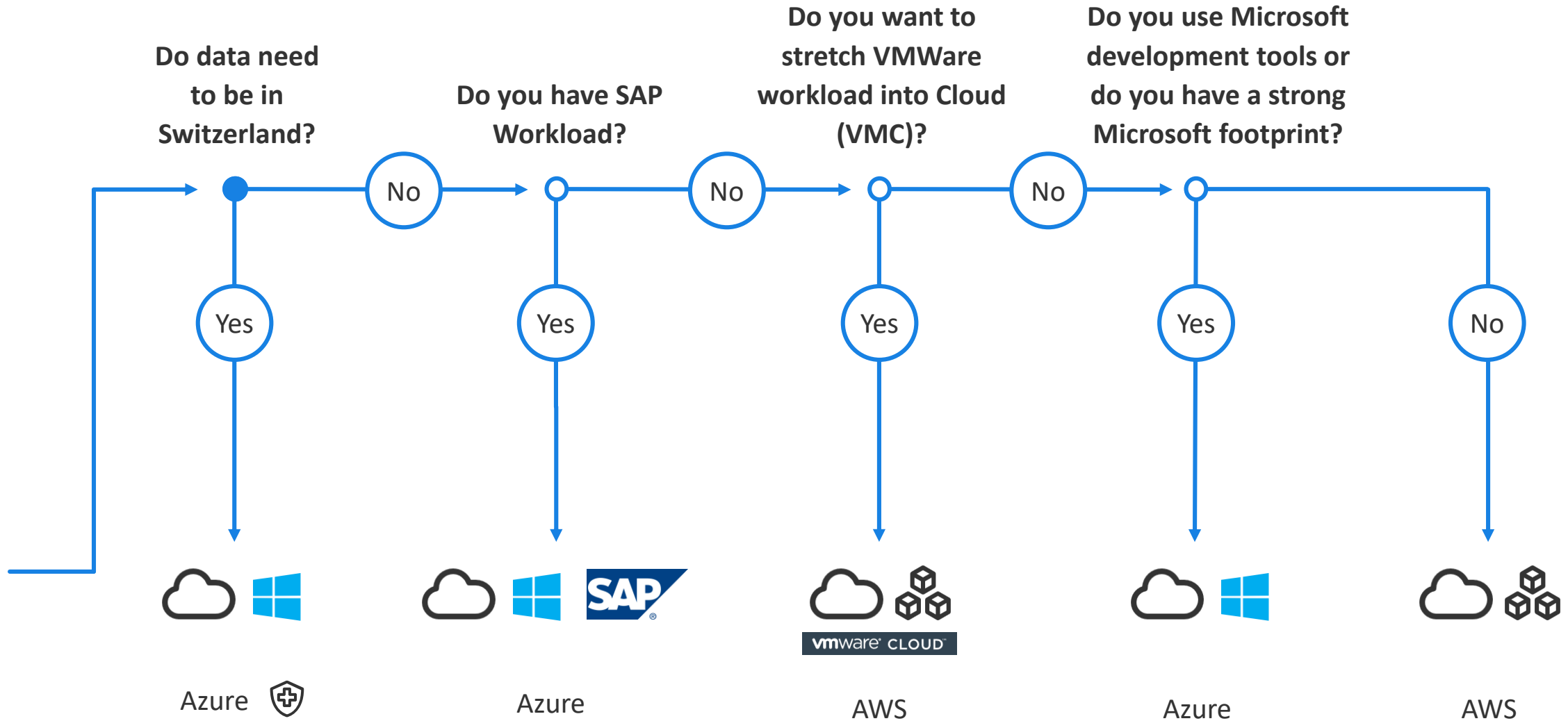




Back



Located in Switzerland





Swisscom From Group Security

Security First

swisscom

C2 Internal



The threat is real

Every month about

20

Security incidents that were dealt with by Swisscom CSIRT

2'200

Residential customers who are informed about a malware attack on their computer

2'500

Residential customers contacted as a result of hacked customer accounts

3'000

Detected and blocked phishing attacks

2'100'000

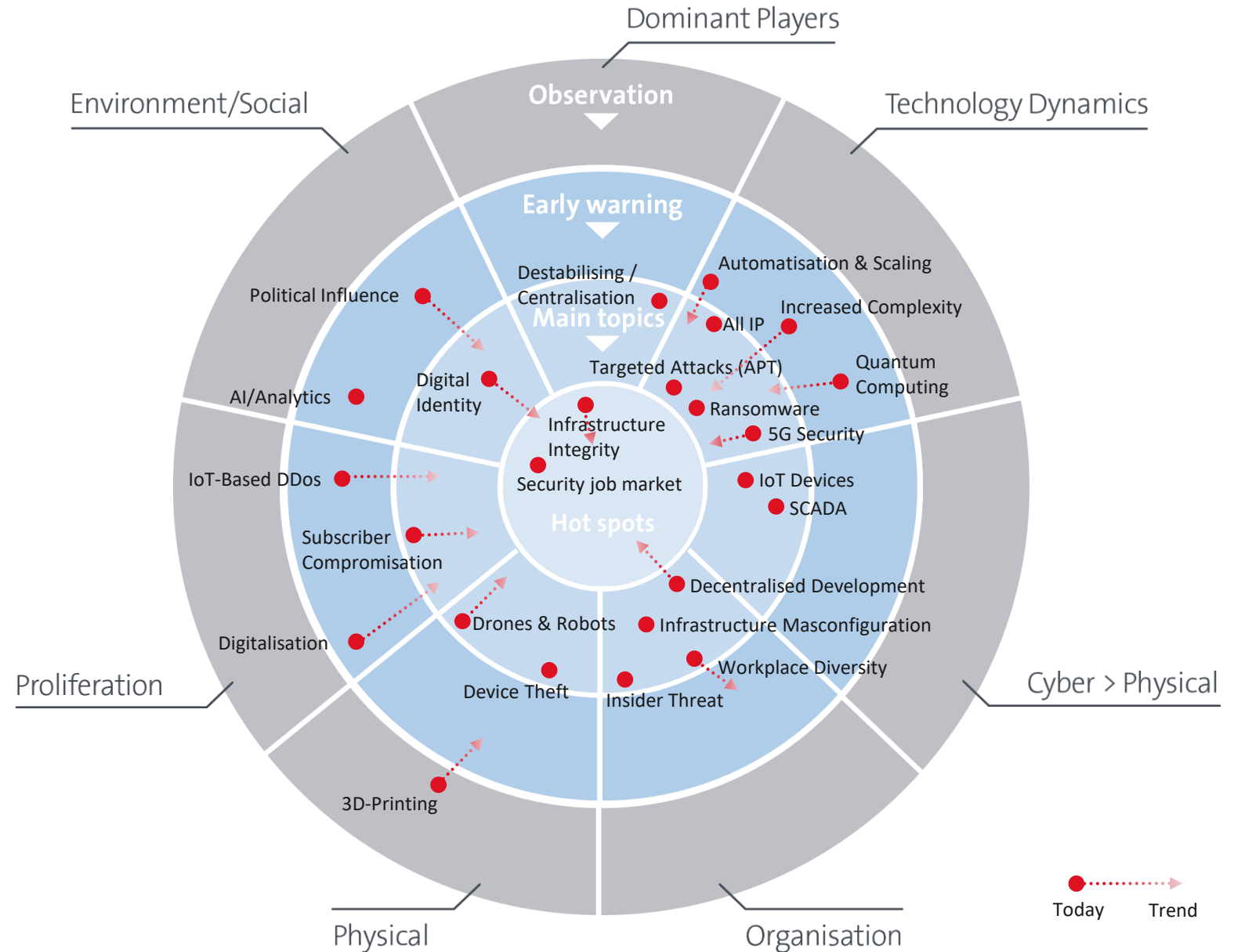
Attack attempts against Swisscom infrastructure blocked



Threat radar 2019

Structure of the radar

- 4 rings: actuality of the threat
- 7 segments: threat domains
- Source of the information
 - Attacks & incidents
 - Market analysis
- Trends & speed

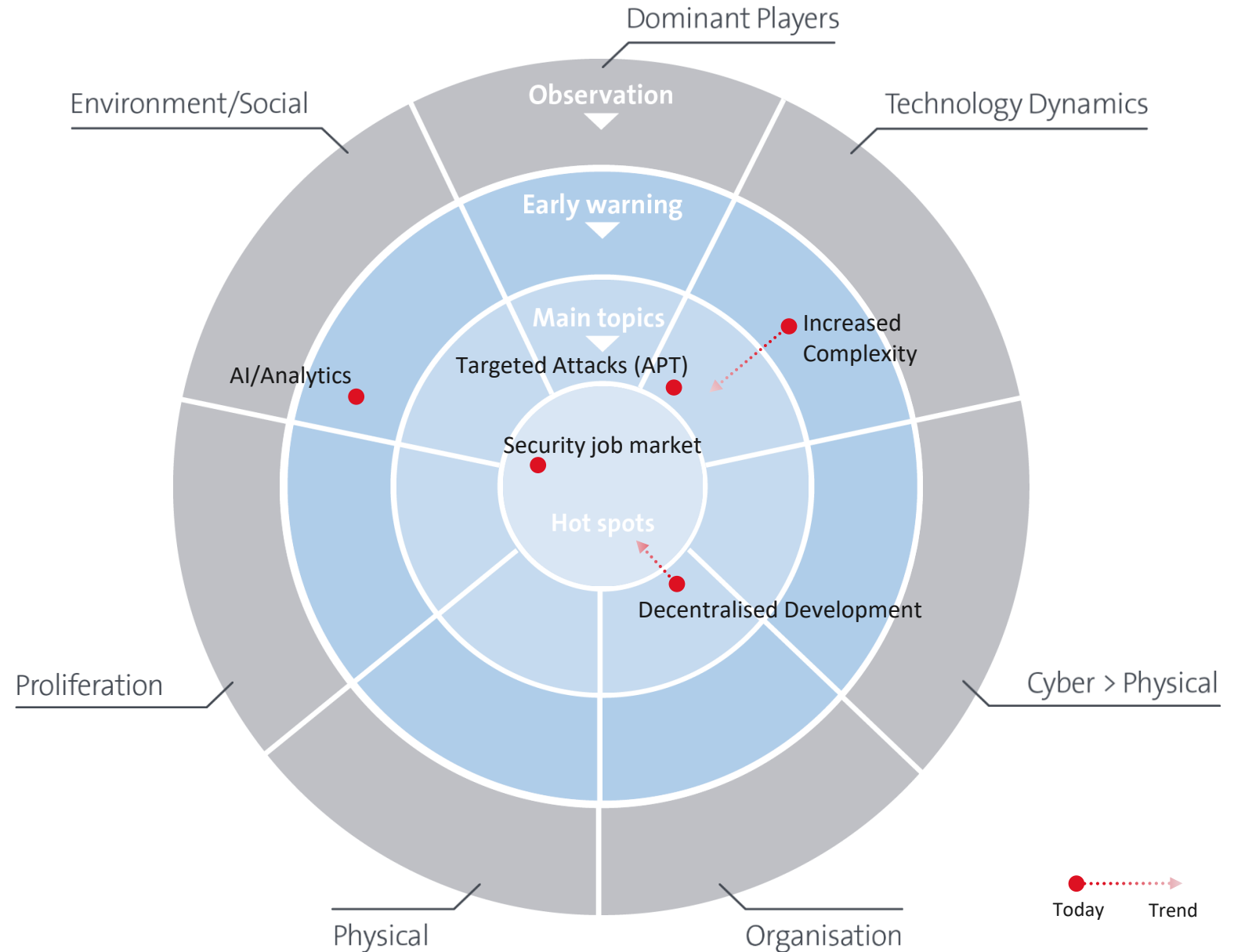




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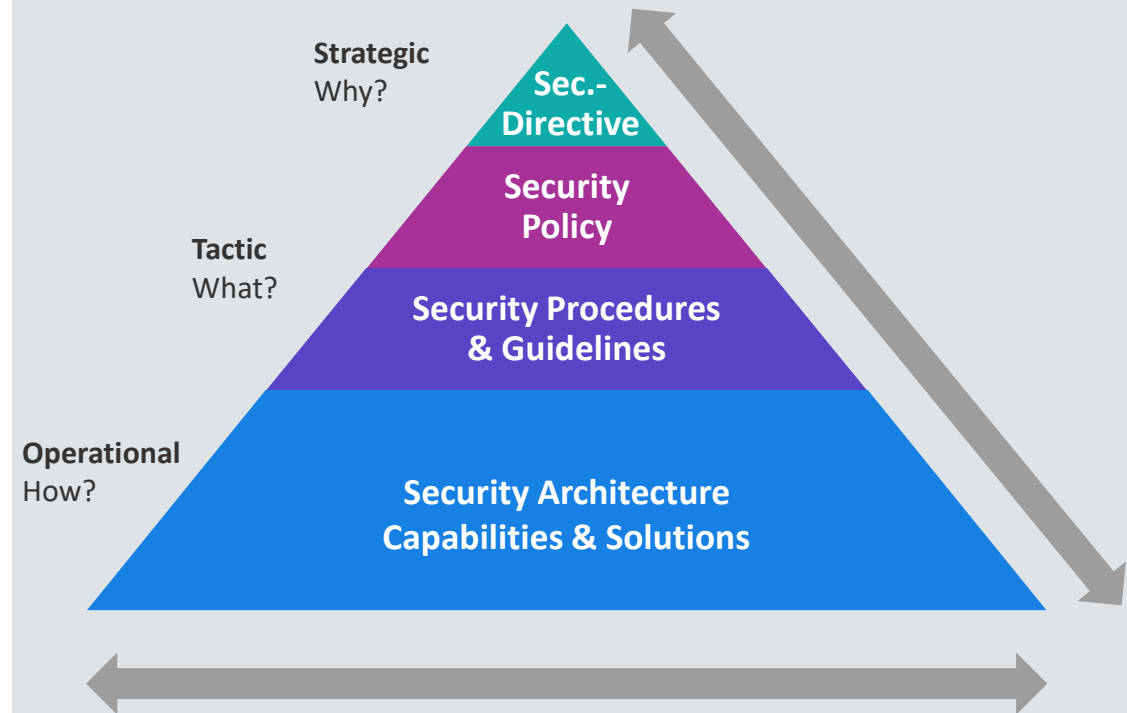




The Swisscom Security Framework

Foundation, guidance and useful information

- Security Framework provides guidance, capabilities and solutions
- Clear relationship and interaction between layers is key for acceptance
- Information in a given layer must be relevant for the targeted audience and easy to find
- Basis for enabling self-service





Swisscom Security Portfolio



CYBER SECURITY

In a networked, digitalized world, we create security for Swiss companies and their customers worldwide.



CYBER SECURITY

in the digital world

Spam
Botnet
Social Engineering
Advanced Persistent Threats (APT)
Harmful code
Denial of Service
Drive-by-Exploits und Exploit-Kits

Attacks Methodes

Politisch
Espionage
Financial
Sabotage

Motivation

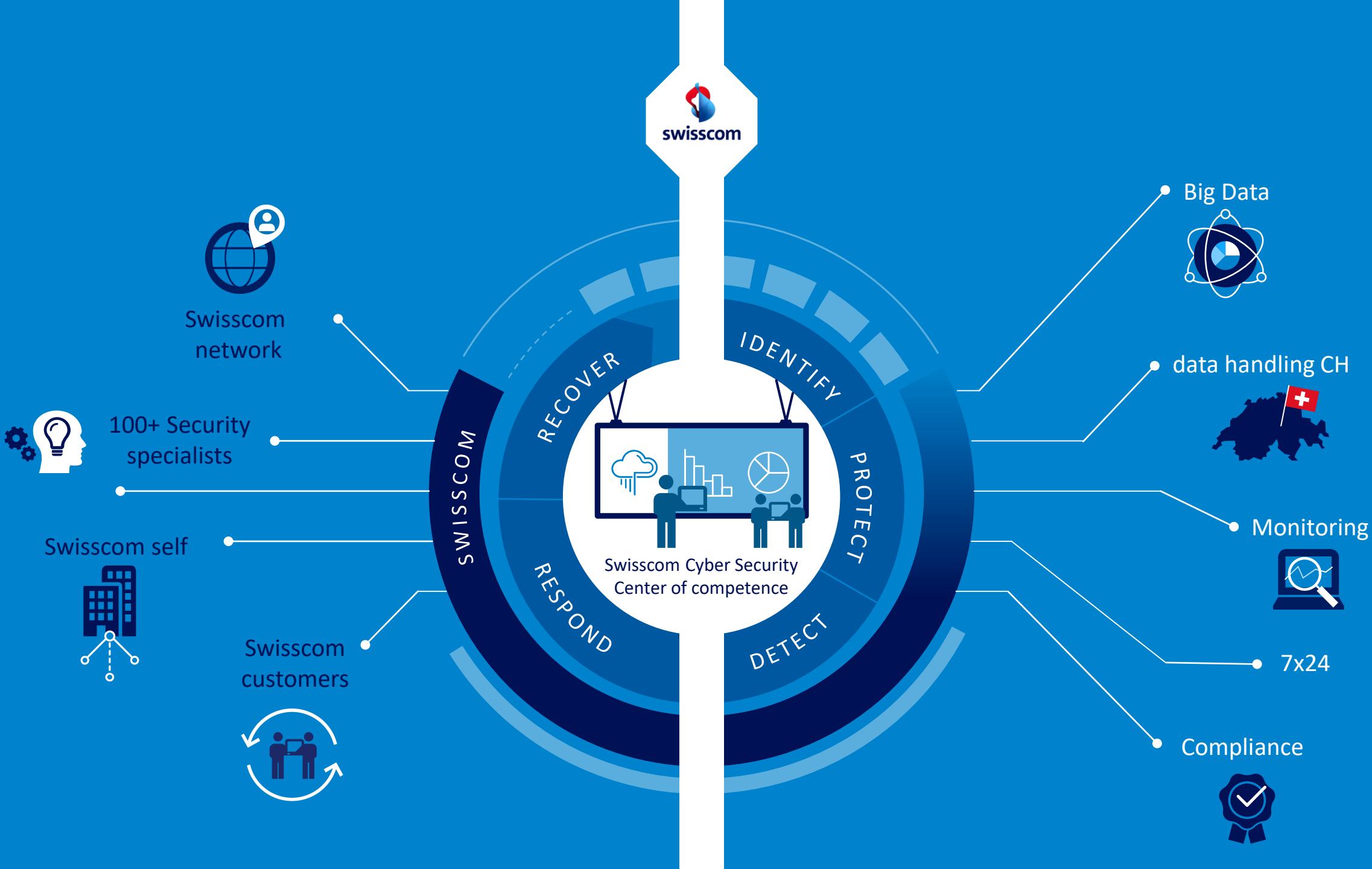
Cyber-criminals
secret services
Hacktivism and Cyber-Activists
Internal offender

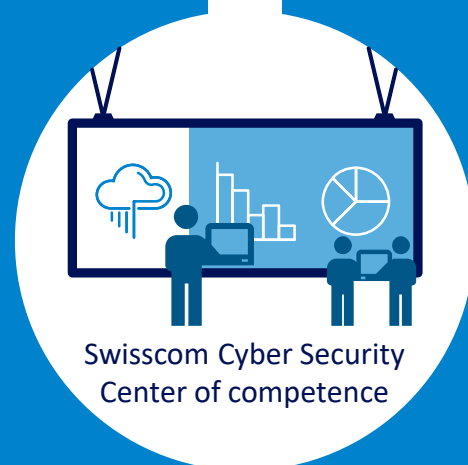
Attacker Typology



Use of obsolete software and unpatched systems
Mobile terminals
Vulnerabilities
IoT
„Digital nonchalance“
Internet attack platform

Causes





Swisscom Cyber Security
Center of competence

Offer
Focus

Professional
Security Services



Application
Security

Threat
Detection &
Response

Endpoint
Security

Network
Security

Managed Security
Services

Data & Content
Security

Cloud &
Infrastructure
Security

Security Partner
Eco-System



Join us!

Knowledge transfer



Protection against threats
today and tomorrow



Continuous further
development



Economies of
scale





How to Manage



Human above
Technologies



Change Management

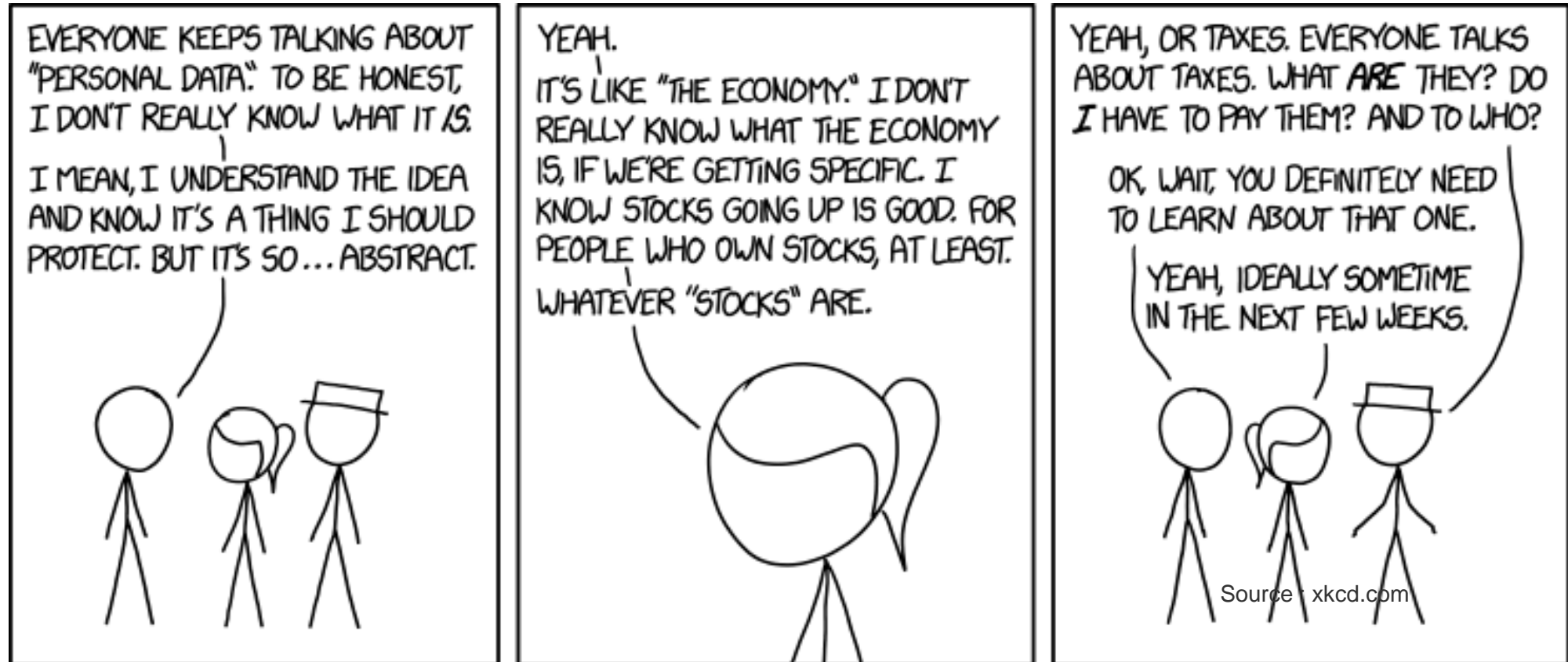


End-User
Added Value



Rôle du DPO

Expliquer et concrétiser l'abstrait





Rôle du DPO

(Faire) rédiger ou vérifier des clauses claires et compréhensibles

PRIVACY POLICY

WE'VE UPDATED OUR PRIVACY POLICY. THIS IS PURELY OUT OF THE GOODNESS OF OUR HEARTS, AND HAS NOTHING TO DO WITH ANY HYPOTHETICAL UNIONS ON ANY PARTICULAR CONTINENTS. PLEASE READ EVERY PART OF THIS POLICY CAREFULLY, AND DON'T JUST SKIP AHEAD LOOKING FOR SEX SCENES.

THIS POLICY GOVERNS YOUR INTERACTIONS WITH THIS WEBSITE, HEREIN REFERRED TO AS "THE SERVICE," "THE WEBSITE," "THE INTERNET," OR "FACEBOOK," AND WITH ALL OTHER WEBSITES AND ORGANIZATIONS OF ANY KIND. THE ENUMERATION IN THIS POLICY, OF CERTAIN RIGHTS, SHALL NOT BE CONSTRUED TO DENY OR DISPARAGE OTHERS RETAINED BY THE USERS. BY USING THIS SERVICE, YOU OPT IN TO QUARTERING TROOPS IN YOUR HOME.

YOUR PERSONAL INFORMATION

PLEASE DON'T SEND US YOUR PERSONAL INFORMATION. WE DO NOT WANT YOUR PERSONAL INFORMATION. WE HAVE A HARD ENOUGH TIME KEEPING TRACK OF OUR OWN PERSONAL INFORMATION, LET ALONE YOURS.

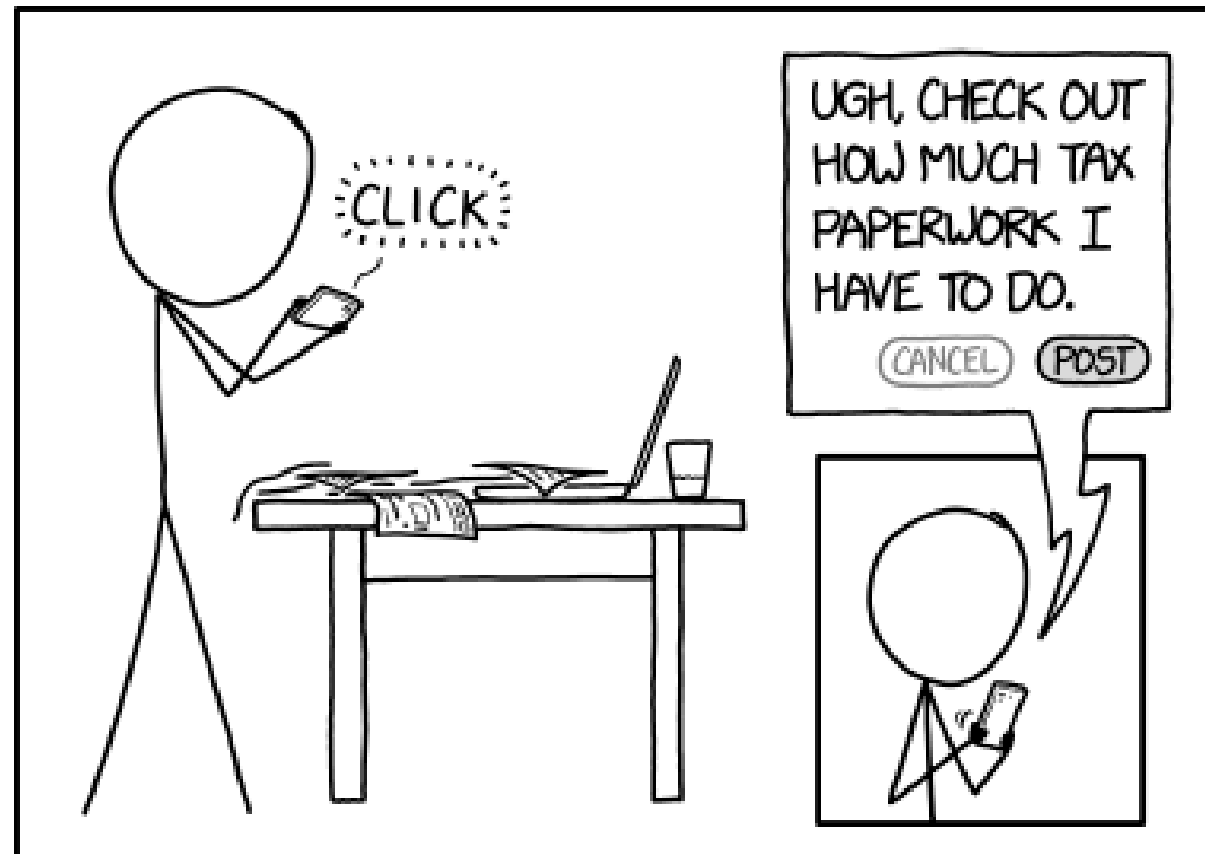
IF YOU TELL US YOUR NAME, OR ANY IDENTIFYING INFORMATION, WE WILL FORGET IT IMMEDIATELY. THE NEXT TIME WE SEE YOU, WE'LL STRUGGLE TO REMEMBER WHO YOU ARE, AND TRY DESPERATELY TO GET THROUGH THE CONVERSATION SO WE CAN GO ONLINE AND HOPEFULLY FIGURE IT OUT.

Source : xkcd.com



Rôle du DPO

Empêcher la réalisation des risques



I'VE ACCIDENTALLY DISCOVERED THE WORLD'S MOST EFFICIENT WAY TO LEAK PERSONAL INFORMATION.



Rôle du DPO

Un héros ?

“[...] I know you often feel unappreciated, and so many people just don't understand what you have to do every day as you open your inbox in the morning. Very few people fully understand what it takes to get your organization in compliance with the GDPR (and all the other global privacy laws you are subject to) and how many sleepless nights you have had thinking about it. They don't get how vast your role is, how many different hats you wear and how many skills you need to have in your repertoire, how many varying and competing pressures you face every single day, and how tough it is to be constantly between a rock and a hard place. [...]”

Source : *A letter to the unsung hero of the GDPR*, Bojana Bellamy, 29 Mai 2018