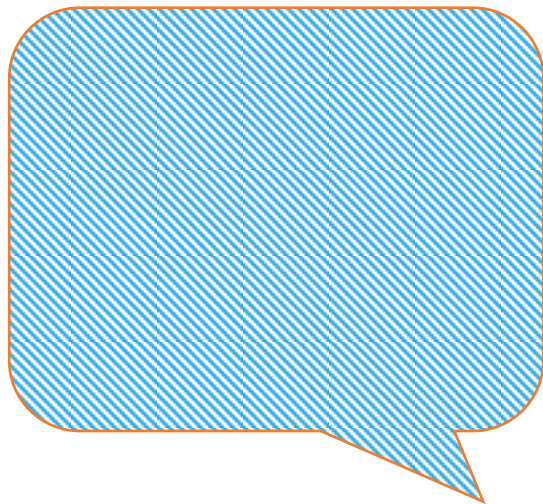




EVOLUCIÓN DE LAS APT EN 2016. TENDENCIAS

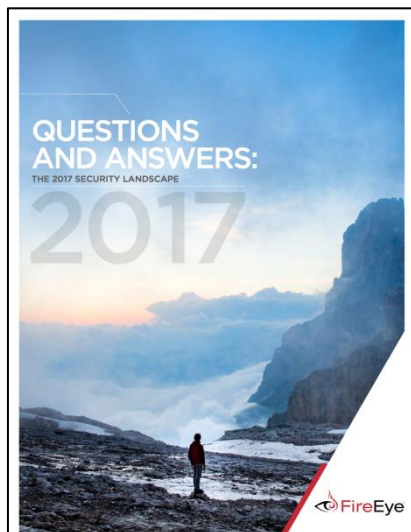
DIEZ AÑOS FORTALECIENDO LA
CIBERSEGURIDAD NACIONAL



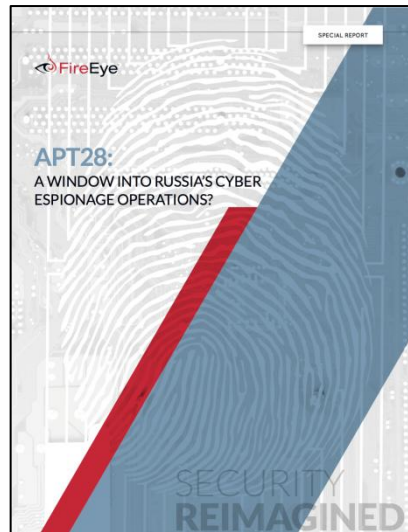
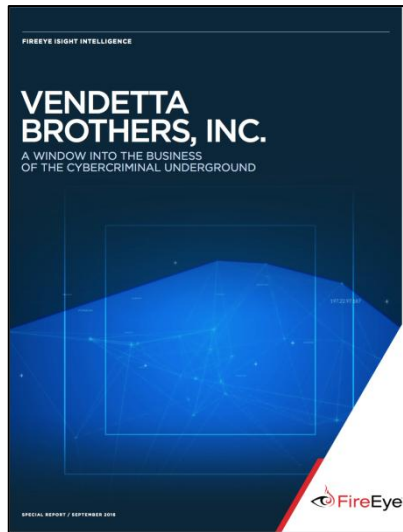
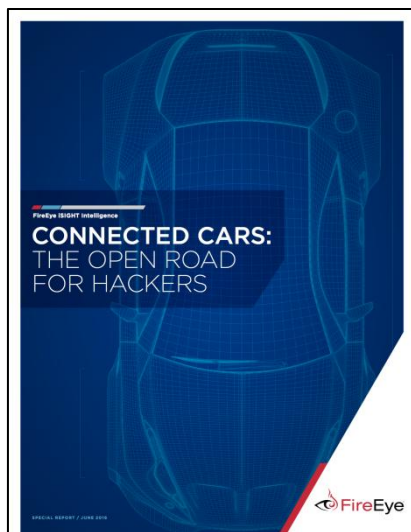
- Alvaro Garcia
- FireEye
- alvaro.garcia@fireeye.com

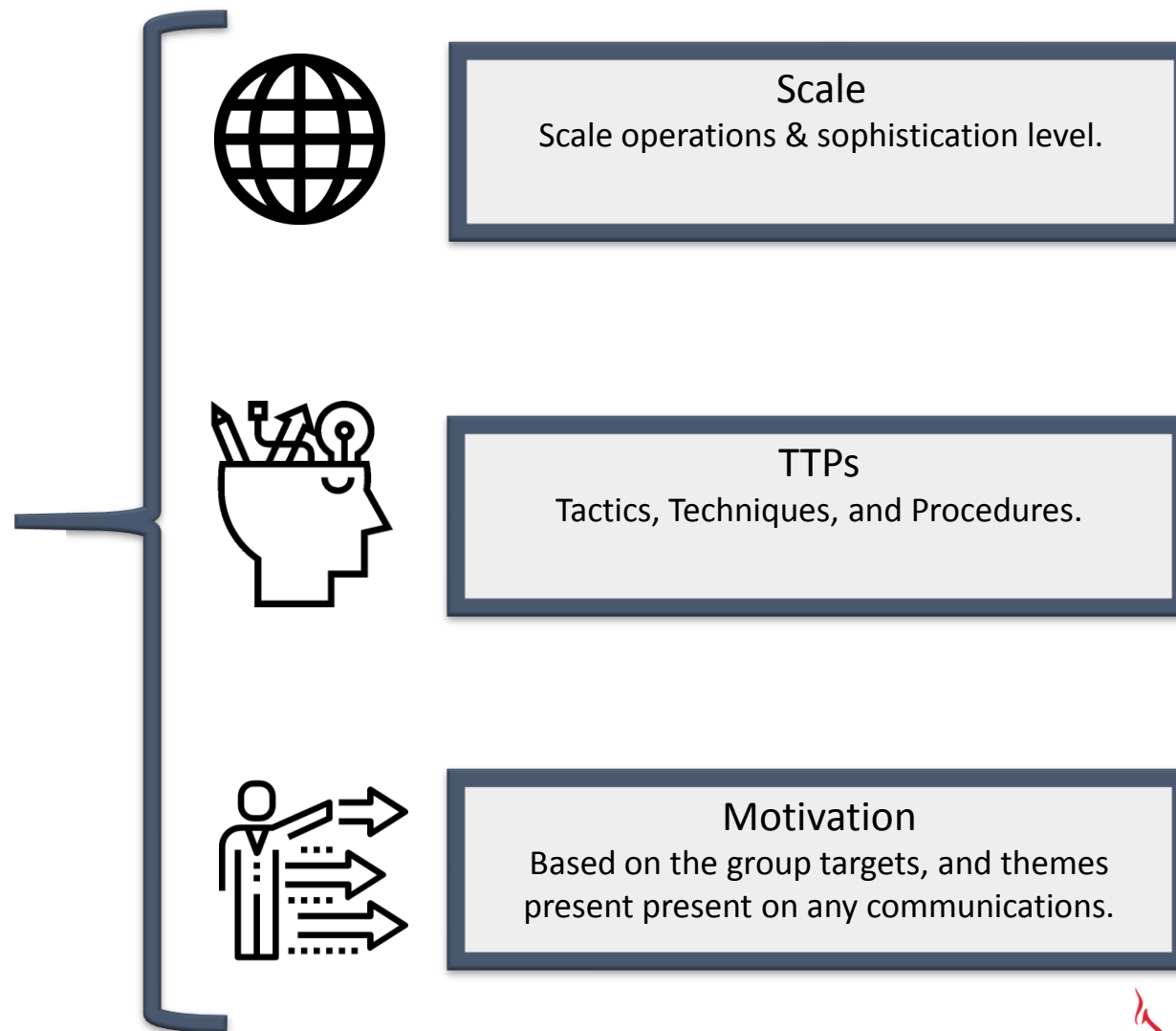
Índice

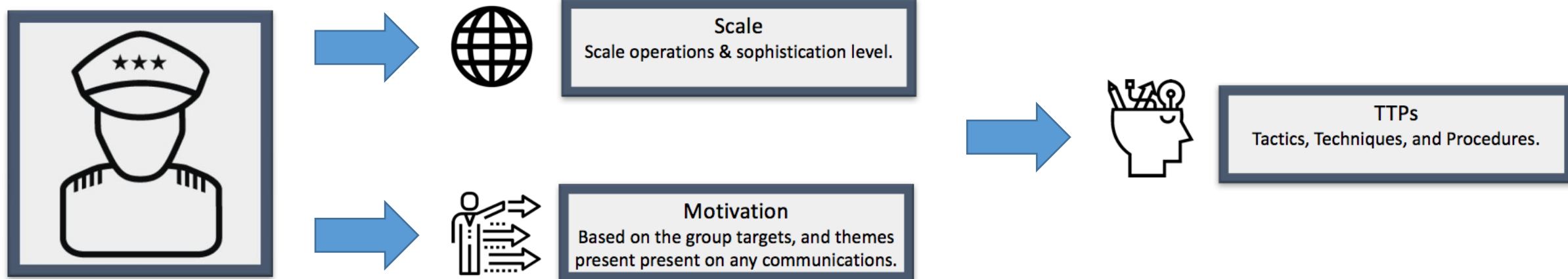
1. **Panorama y evolución en el ciberespionaje.**
2. **Detalle de las TTPs de APT28 y APT29.**
3. **Ciberdelincuencia y las tácticas empresariales.**
4. **Previsiones para el 2017.**

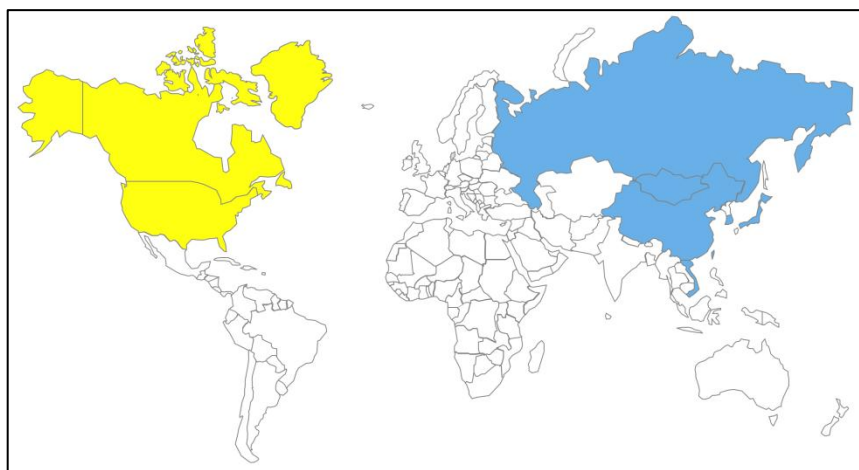


And.. Of course
Thanks to Jens Monrad
and iSight team.









Reduce activity in 90% since Jun-2014.



China sea conflict.
Taiwan independency.



US and Europe
financial services,
space. education



72 active groups, no “monolith” behavior.



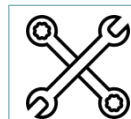
Conventional TTPs:

Phishing, known APT backdoors, DDOS.



Evolving to sophisticated TTPs:

ScanBox recon y new CnC methodology
(aka Nflog, IsSpace, or Smac).



Complete new set of tools:

CnC Infrastructure, malware, etc.

Therefore...



Diplomacy matters.



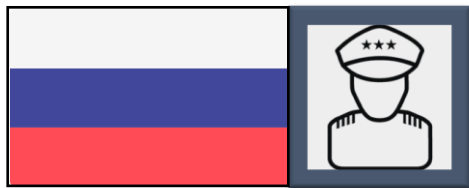
Army takes control of
cybersecurity op.



High OPSEC commercial
targets.

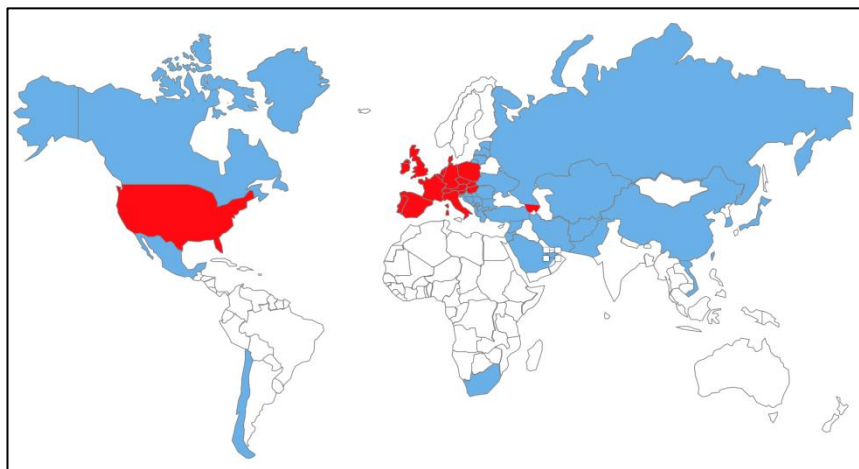


Low OPSEC political
targets.



APT28, APT29

a.k.a (TSAR TEAM, Pawn Storm, Sednit, Sofacy, Fancy Bear, Strontium / CozyDuke, CozyBear, SeaDuke, MiniDionis).



Due to Syria conflict & USA elections.



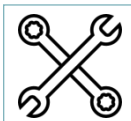
Ukraine and Syria conflict.



Not focus on financial interests.



Play offensive to from foreign espionage.



Exclusive set of tools:

Malware and scripting-based techniques.



Tailored, practiced and disciplined.

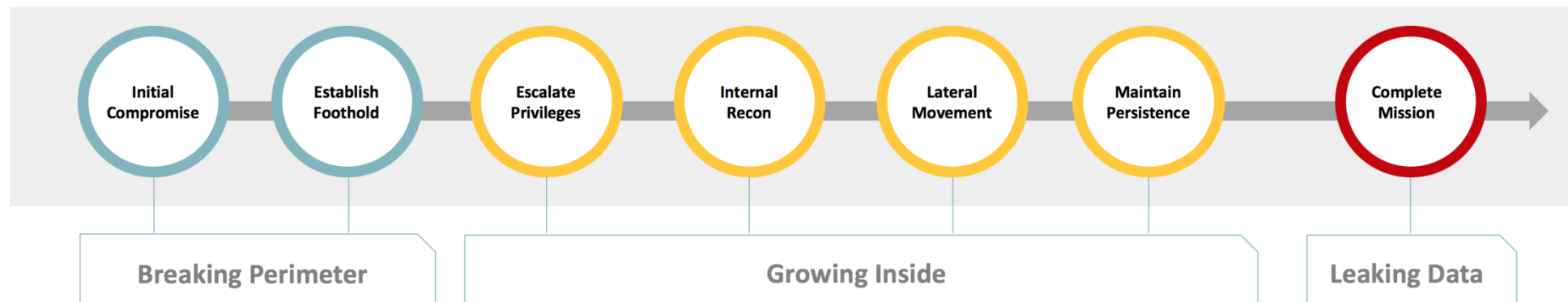


Novel TTPs:

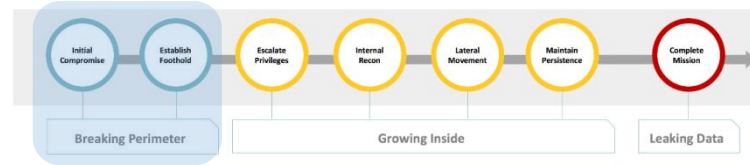
From steganography, social networks exfiltration to compromised satellites.

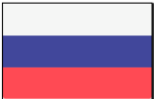


The Attack Lifecycle

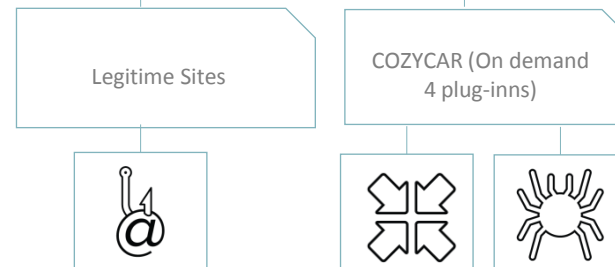
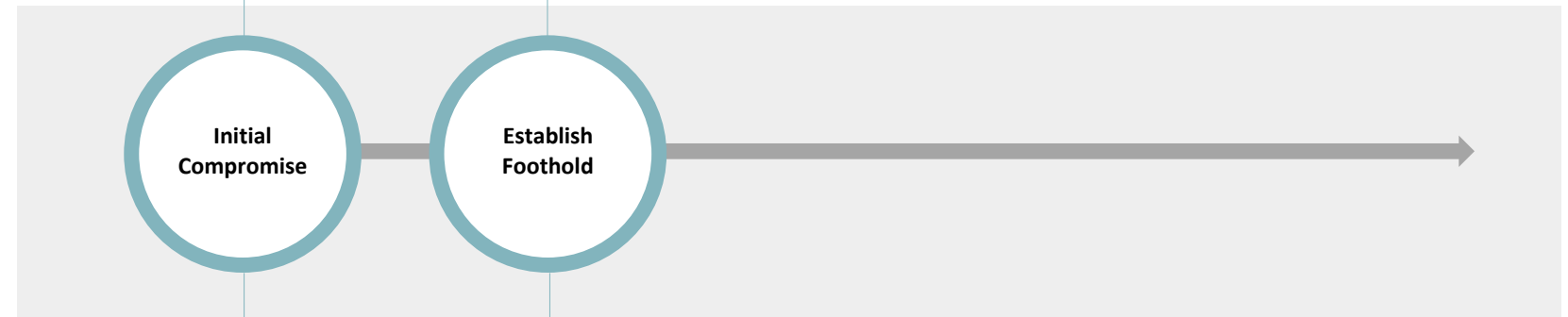
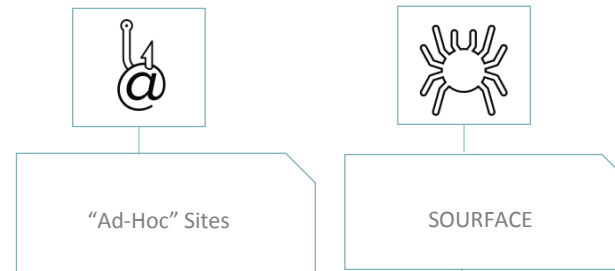


The Attack Lifecycle






APT28
a.k.a (TSAR TEAM, Pawn Storm, Sednit, Sofacy, Fancy Bear, Strontium)





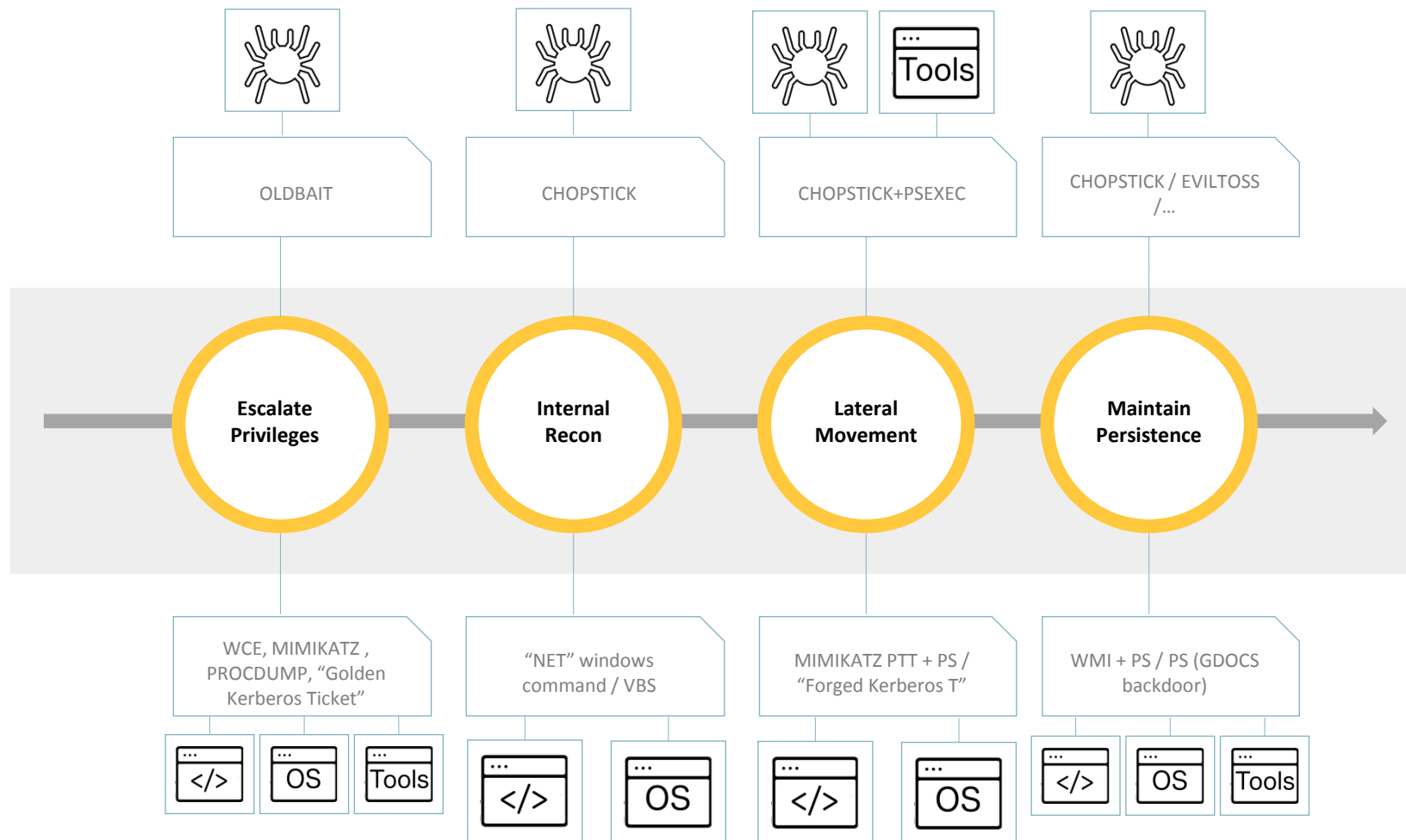

APT29.
a.k.a (CozyDuke, CozyBear, SeaDuke, MiniDionis)

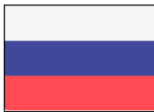
The Attack Lifecycle





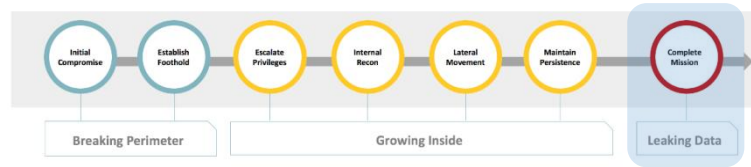

APT28
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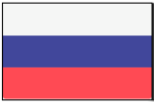





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The Attack Lifecycle

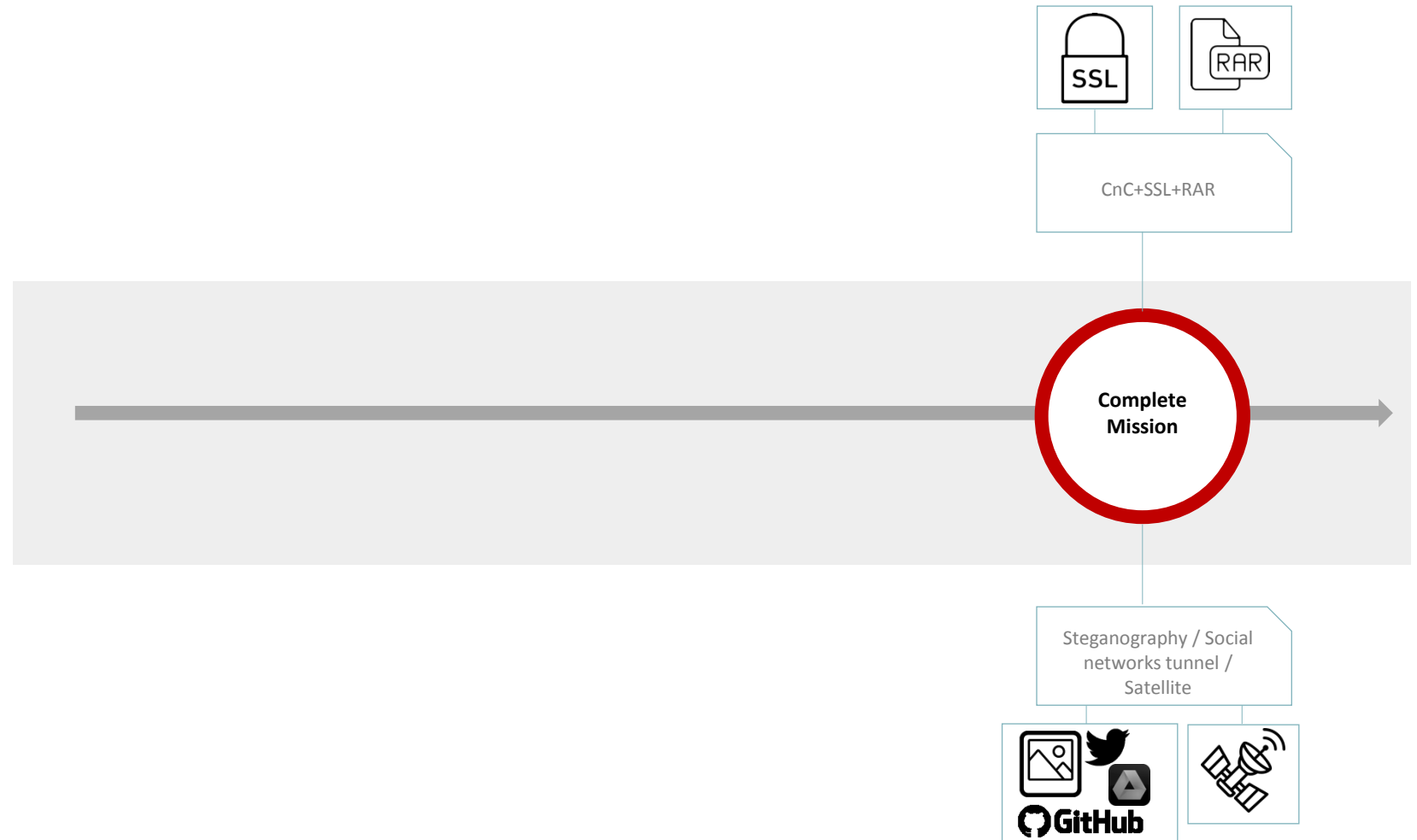


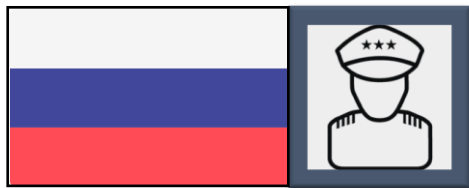



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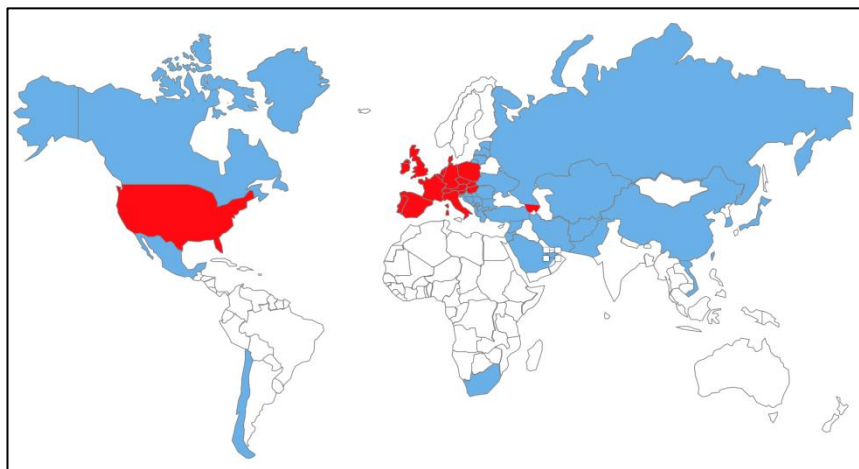

APT29.
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APT28, APT29

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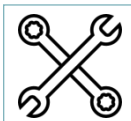
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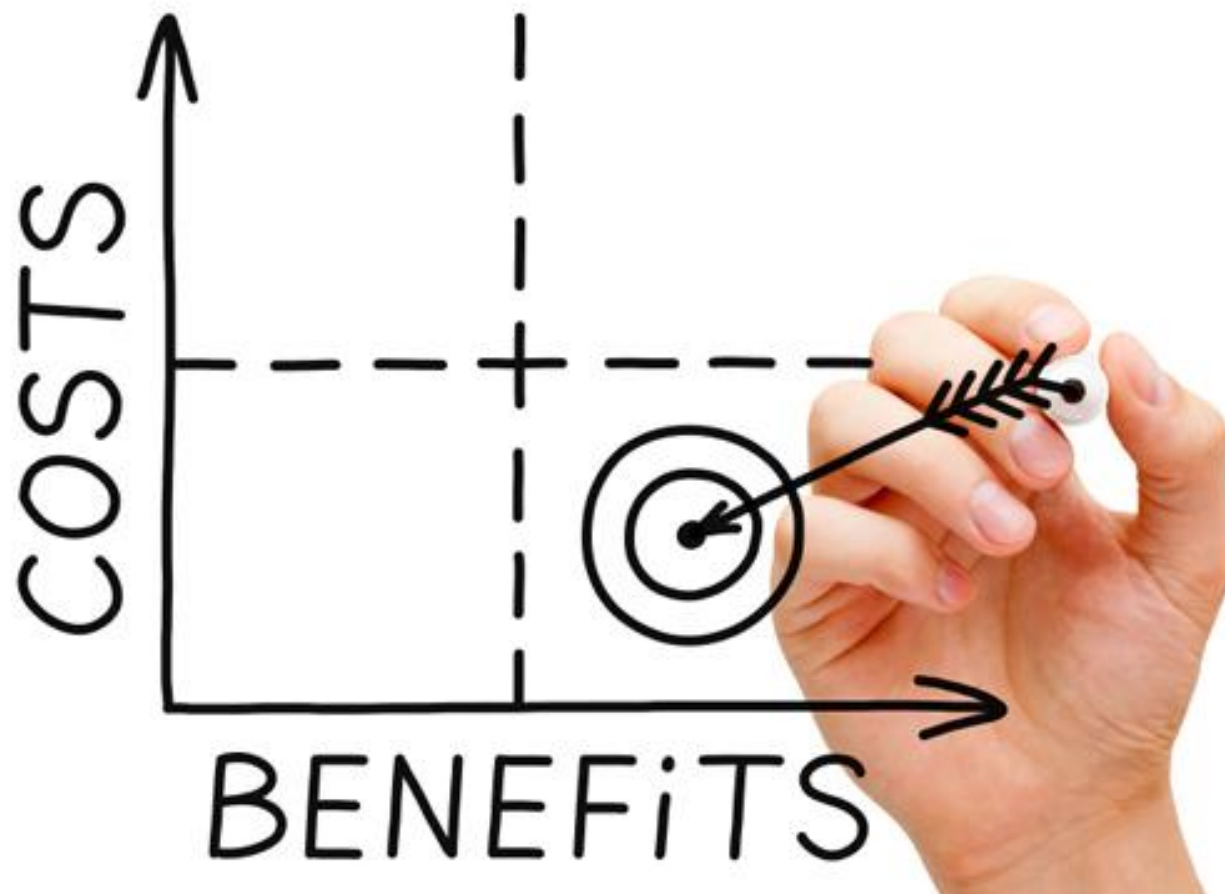
Military dictates their activities in cyberspace.



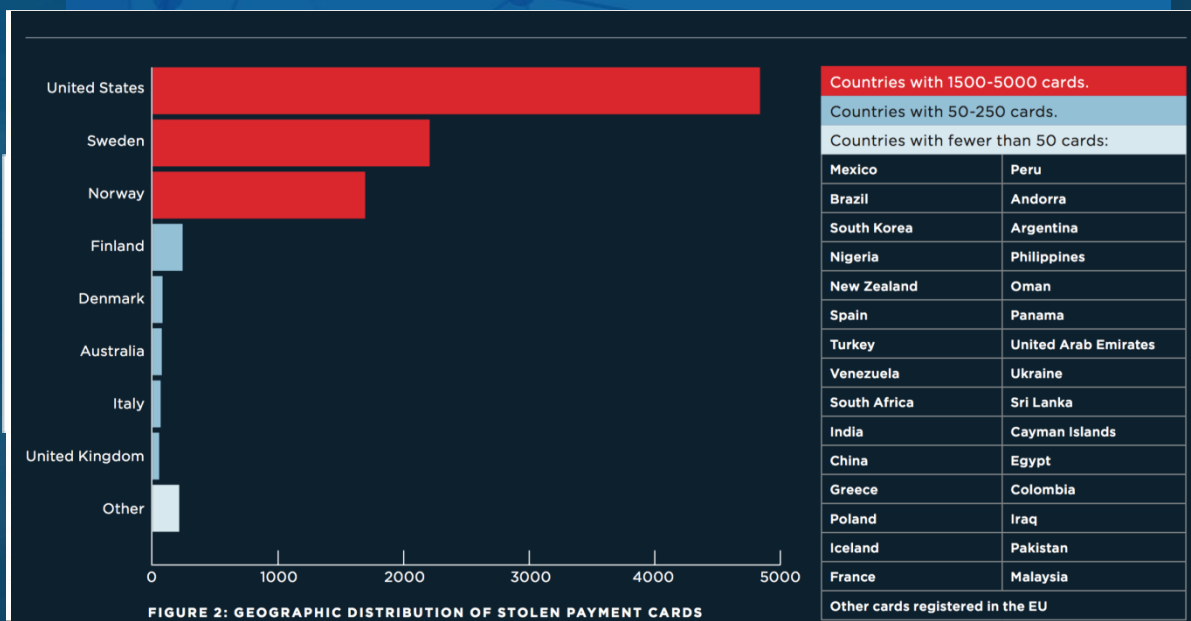
Extending fast its activity's scope.



Not enough OPSEC (more visible).



Group Profile: The 'Vendetta Crew'



Key Findings:



Team of 2 hackers.



Outsourcing compromised POS / R.Sharing.



Reselling of skimmers / Tools / Know-how.



Customer satisfaction / 24h ICQ Support.



639 banks, 40 countries. U.S, and Nordics.

QUESTIONS AND ANSWERS:

THE 2017 SECURITY LANDSCAPE

2017



Use of PPTM and DOTM formats on phishing attacks.



Use of scripting recon tools + encrypted malware payload.



ICS will be on the spot. 30% of the vulnerabilities doesn't have patch.



IoT will lead new cybercrime abuses. I.E Ransomware over vehicles, public transport (I.E San Francisco Metro Nov-2016).

➤ E-Mails

- info@ccn-cert.cni.es
- ccn@cni.es
- sat-inet@ccn-cert.cni.es
- sat-sara@ccn-cert.cni.es
- organismo.certificacion@cni.es

➤ Websites

- www.ccn.cni.es
- www.ccn-cert.cni.es
- www.oc.ccn.cni.es

➤ Síguenos en

