



Spanish Cyberspace Combat System: Current and Future technologies



Colonel Francisco Palomo

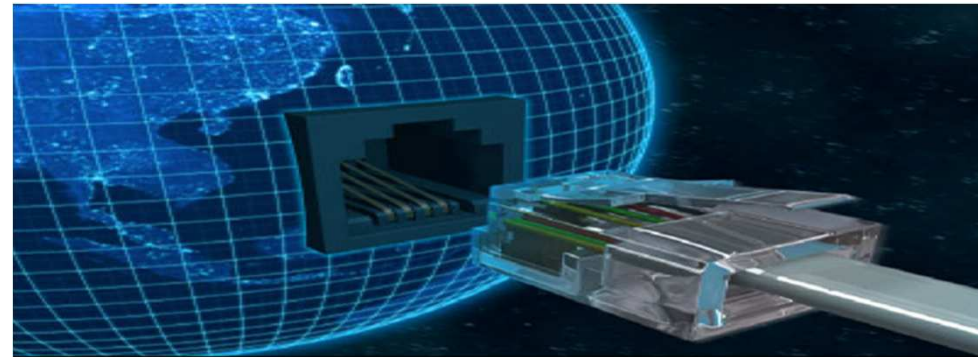
MCCE

Spanish Joint Cyberspace Command

Málaga 17/11/2022

“The supreme art of war is to subdue the enemy without
fighting”

Sun Tzu. Art Of War





PUBLIC USE



Agenda

- The Joint Cyberspace Command.
- Current situation.
- SCOMCE.
- Conclusion(s).

PUBLIC USE



PUBLIC USE



Mission of the Joint Cyberspace Command (MCCE)

To assure the Spanish Armed Forces Freedom of Action in cyberspace.

Planning and execution of actions related to cyber defense in **systems and networks of the Ministry of Defense** or **others that may be entrusted**, as well as contributing to the adequate **response in cyberspace to threats or aggressions** that may affect the **National Defense**.



Deutsche Bank



PUBLIC USE





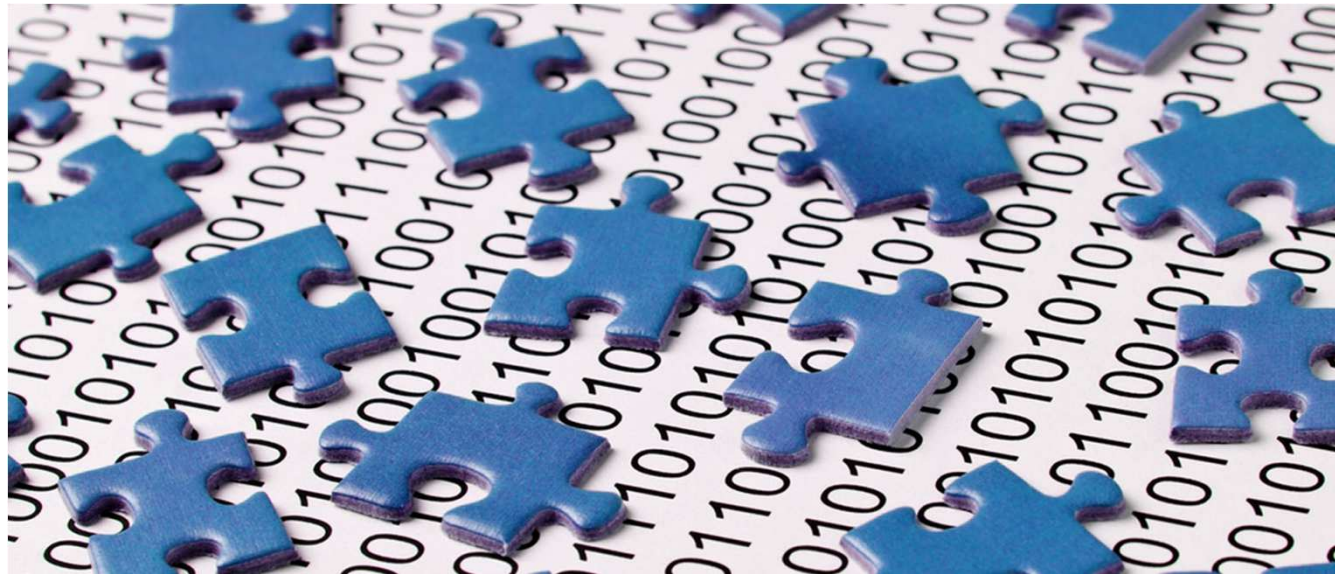
Past and Current situation



5

Past and Current situation

- Many...
 - Feeds.
 - Tools.
 - Procedures.
- Necessities have changed.
- Priorities have changed.
- Experts have gone.



Past and Current situation

- You have the capability but it not integrated with the rest of the tools.
- You have the tool but no one know how to use it.
- The system is in a drawer.



One-man band

Six Years ago



- If you can...
- Lack of Maturity.
 - Organization.
 - Unit.
- Lack of Vision.

Six years ago



- Fighter pilot.
- Warrior.



- Freaky.
- Hacker.

Two years ago

Cyberspace Combat System



- On standing mission (24/7/365).
- Some capabilities must be deployable.
- Progressive.
- Integrated.
 - Different parts of the systems.
 - Rest of the systems of the Armed Forces.
- Scaleable.
- Compatible. Share information.



PUBLIC USE



Sharing Information



DSN



INSTITUTO NACIONAL DE CIBERSEGURIDAD



Cyber crime



MIL-CERT



CYOC

NCSC



TF-CSIRT

PUBLIC USE

PUBLIC USE

SCOMCE



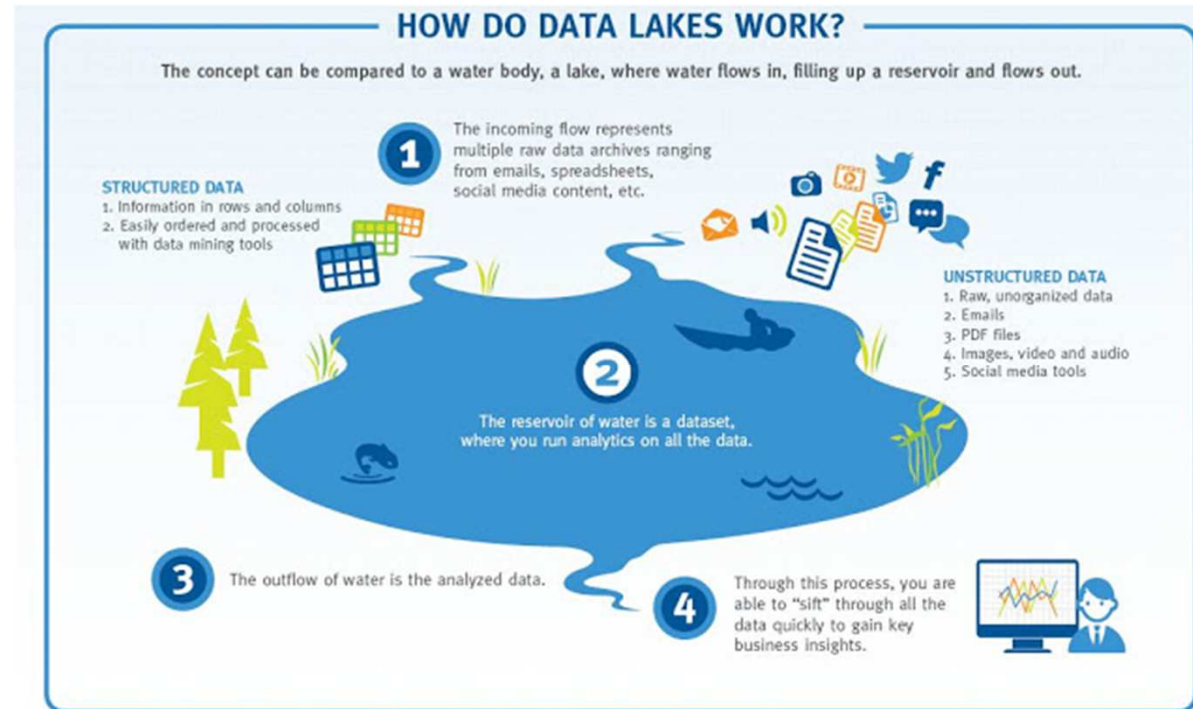
Intel Driven

Intelligence



PUBLIC USE

- Different sources.
 - Our own networks.
 - Feeds.
 - Shared information.
- From data, information to actionable intelligence.
- Decrease the time to detect an attack, increase the resilience.



Offensive Operations

Cybersecurity



Cyberdefence



We have to evolve from a turtle to a Ninja Turtle

Conclusion(s)

- If we want to maintain the freedom of action in the Cyberspace of the Spanish Armed Forces we need to have an integrated combat system.
 - With the rest of the combat systems of the Armed Forces.
 - With our partners.
- Without the help and cooperation of the European companies will be imposible to maintain the digital soberanity of our system.
- But...

PUBLIC USE

Cyberwarriors



PUBLIC USE

Your computer files have been encrypted. _





Thank you!!

