



Learning Objective 2 - Technology

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Concordia CS Holistic Approach

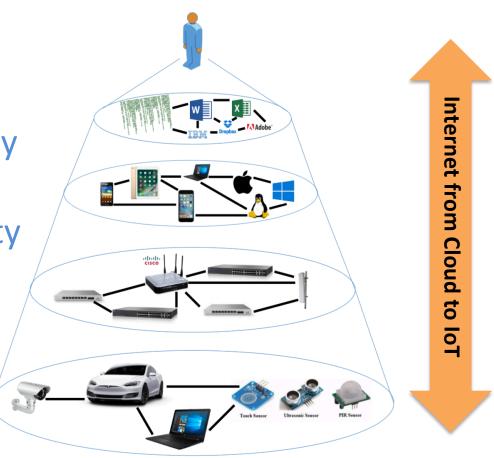
User-Centric Security

Application/Data-Centric Security

System/Software-Centric Security

Network-Centric Security

Device-Centric Security





Concordia Industrial Sectors

- Telecommunications (threat intelligence)
- Finance (risk assessment, fraudulent behavior detection)
- Transportation / e-mobility (connected and autonomous vehicles)
- E-health (cross-border data exchange, hospital digitalization)
- Defence (unmanned aerial systems, external interfaces)



Reminder: Certification Survey – Technologies

	Telecom	Finance	Transport	Defence	Health	Overall
Internet-of-Things	8	2	1	2	1	14
Cloud	7	2	2	1	1	13
Artificial Intelligence	7	2	0	1	0	10
Mobile Devices	3	0	2	2	0	7
5G	5	1	0	0	0	6
Quantum	1	1	0	0	0	2



Cyber-Defense Methods (NICE)

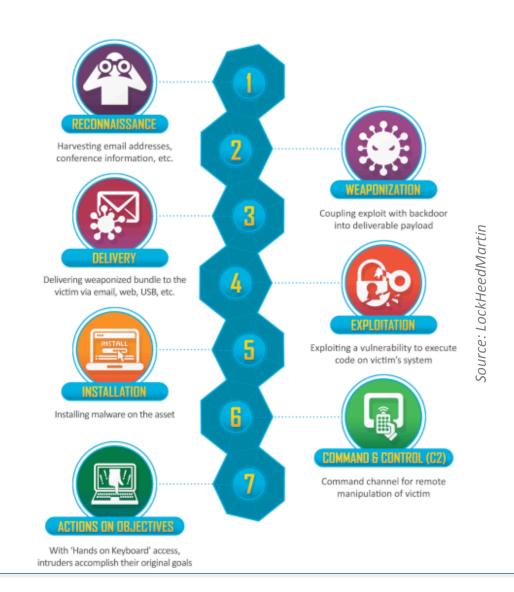
- Analyze
- Collect and Operate
- Investigate
- Operate and Maintain
- Oversee and Govern
- Protect and Defend
- Securily Provision





Cyber-Kill Chain (CKC7)

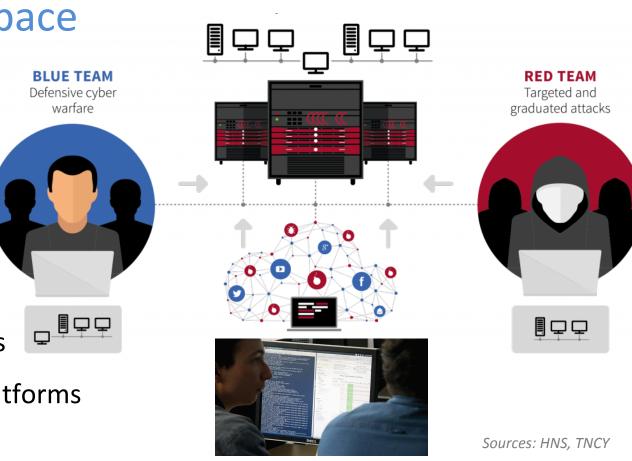
- Reconnaissance
- Weaponization
- Delivery
- Exploitation
- Installation
- Command and Control
- Actions on Objectives





Cyber-Ranges (in link with Task 3.3)

- Simulators for the Cyber-Space
 - Virtualized infrastructures
 (networks, servers, workstations)
 - Training and experimentation
 - Offensive and defensive sides
 - Possible isolation to contain malwares, viruses, malicious activities
 - Interconnection with other techn. platforms





Survey Analysis and Refinement

- Top-10 Skills related to Technologies
 - Overall Ranking, Ranking Per Industry, Examples
- Top-20 Knowledges related to Technologies
 - Overall Ranking, Ranking Per Industry, Examples
- Top-3 Technologies
 - Overall Ranking, Ranking Per Industry, Examples



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