IT and the state

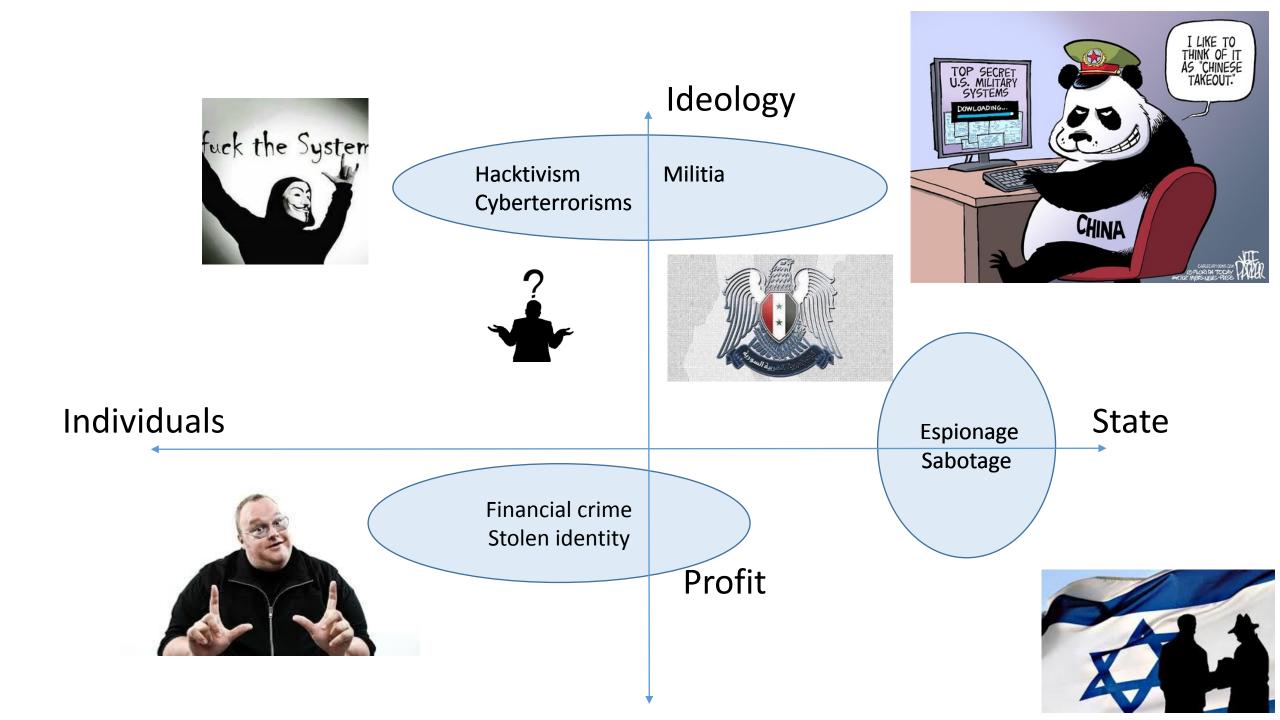
9. 10. 2019 Jakub Drmola Modorn tochnology and Conflicts

Modern technology and Conflicts

In general

Specific

- Behavior
- Activities
- Purpose



Triad of cyber security

CIA

- Confidentiality
- Integrity
- Availability

Main state activities in cyberspace

- Espionage
- Sabotage
- Censure
- Information war/propaganda
- Demonstration of power
- Support of conventional attack

Cyber espionage vs. Sabotage

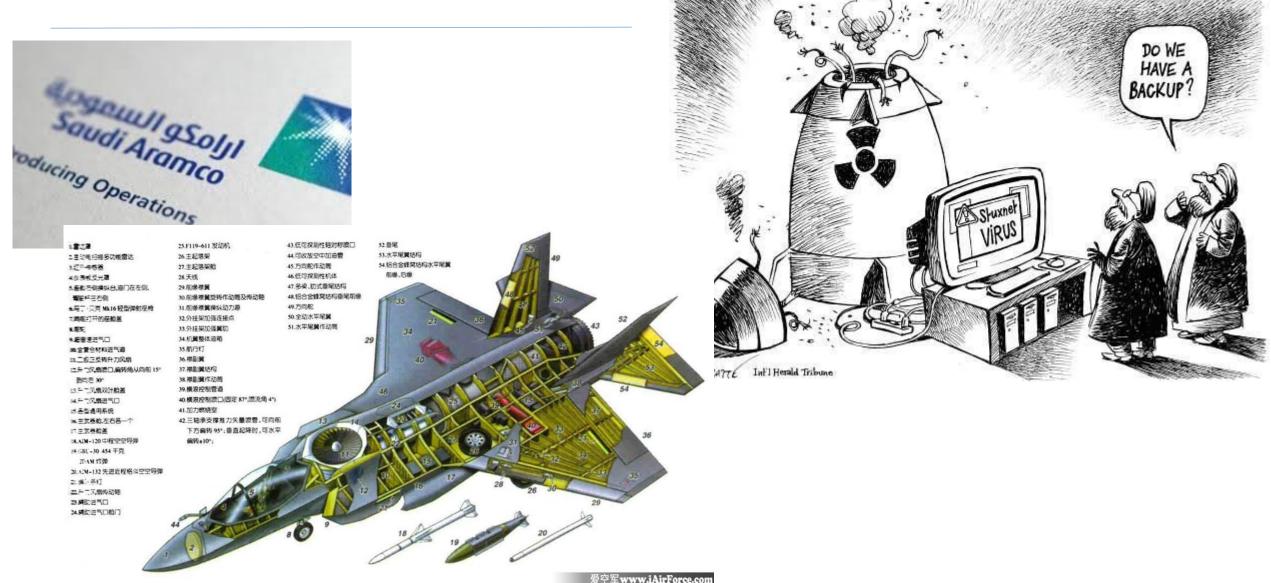
Espionage

 Obtaining strategically sensitive or strategically important information from individuals or organizations by using or targeting IT means. It is used most often in the context of obtaining a political, economic or military supremacy.

Sabotage

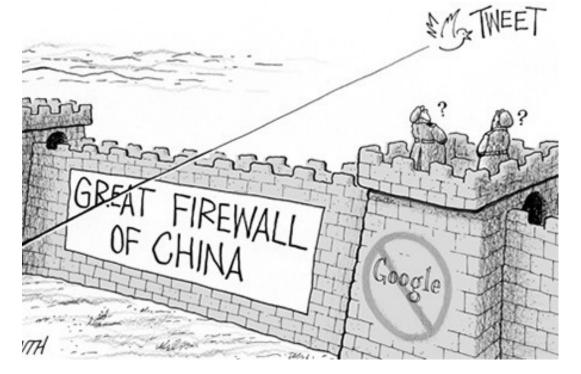
 Deliberate action aimed at weakening a polity or corporation through subversion, obstruction, disruption or destruction. In a workplace setting, sabotage is the conscious withdrawal of efficiency generally directed at causing some change in workplace conditions.

Cases



Censorship

- Commonly linked with non-democratic regimes
- Halal internet vs. forbidden applications
- Different methods of circumvention





Surveillance

- Repressive or suppressive
- For law enforcement
- Potential targets:
 - Criminals, terrorists
 - Dissidents, journalists
 - Minorities, foreigners



Demonstration of power

Estonia (2007) and Latvia (2008)

- Similar modus operandi (DDoS, defacement and malware)
- Russian Federation absence of direct evidence

Estonia - due to the removal of the bronze statue of an unknown Soviet soldier

• for RF symbol of freedom vs. symbol of occupation

Latvia – main reasons: law about non-acceptance Nazi and Soviet symbols, planning of American antimissile defense

Russia Support conventional attack

- Georgia (2008)
- In the background of a five-day war Brarget: destroying of active communication and information

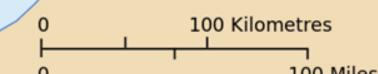
Armenia

Azerbaijan

- Methods: defacem Georgia, malware
- Patriotic hacking (nationalistic mode in society)
- Russian Business Network

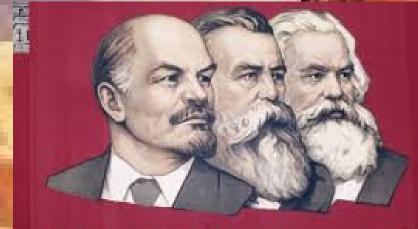
Abkhazia

- Attacks also orrarkey





Information war/ propaganda



вперед, к победе коммунизма!



SETH ROGEN JAMES FRANCO

1.11.5160

中国人民解放军是毛泽东思想大学校



ALL WITHIN THE STATE, NOTHING OUTSIDE THE STATE, NOTHING AGAINST THE STATE

Demystification ???

1982: trans-siberian sabotage

2000s: shot mafia boss

2008: Lodz trams

2014: steel mill hack

