```
Δ
                                                          8
                                                                                                                              J
                                                          J
                                                          8
                                                          7
                                                  -8
                                                                                                                         \mathbf{T}
                                                  ĽĽ
                                                                           -
                                                 ΞC
                                                 \mathbf{I}\mathbf{\Gamma}^{-}
                                                 Γ
                                                                                                                              2
                                                                      Γ
                                                          Δ
                                              ]
                                                 ホケミ
                                                  73
             ā.
                                                               ASSURED
7
                                                                                                                  FF
                                   0
                                        5
                                        2
                                   Γ
                                                                                                               70
                                                                                 テリ
                                                                                 4=
                                                                                 1
                                                                                                  F *
                                                                                                                           Э
 (Yes, this slide is meant to be ironic)
                                                                                                       2
                                                                                                  84
```



How Cyberwar is like the Cold War



"... a hostile interaction between two or more States, either in a technical or in a material sense. War in the technical sense is a formal status produced by a declaration of war. War in the material sense is generated by actual use of armed force, which must be comprehensive on the part of at least one party to the conflict." "a state of conflict between nations that does not involve direct military action but is pursued primarily through economic and political actions, propaganda, acts of espionage or proxy wars waged by surrogates"

The Cold War?

Cyber War?

"Rarely has something been so important and so talked about with less clarity and less apparent understanding than this phenomenon"

Michael Hayden (frm DIRNSA, frm DCI)



Not an act of war.

2 875

III.

1

1. C.

Everyone is spying on everyone else.





"All data is stolen at least twice."







Some people make a lot of money from it.



"In the councils of government, we must guard against the acquisition of unwarranted influence, whether sought or unsought, by **the military industrial complex.** The potential for the disastrous rise of misplaced power exists, and will persist..."

- Dwight D. Eisenhower, 17 Jan 1961



towards a cybermilitary-industrial complex...?

"The United States is fighting a cyber-war today, and we are losing".

- John "Mike" McConnell

Little knowledge of actual enemy capacity. (And a lot of hype.)



29157 7.60

Danger of escalation.





"The President reserves the right to respond using **all** necessary means to defend our Nation, our Allies, our partners, and our interests from hostile acts in cyberspace. Hostile acts may include **significant cyber attacks** directed against the U.S. economy, government or military. As directed by the President, response options may include using cyber and/or **kinetic capabilities** provided by DoD."

Confidence building measures are a good idea.





How Cyberwar is not like the Cold War





THIS FILM IS DEDICATED TO THE GALLANT PEOPLE OF AFGHANISTAN

We're not living in a bipolar world anymore.



(I wont even try to draw a map of today's alliances.)











The good news:



There will (probably) be no cyberwar.

The good news:



Hard Sci-Fi Movies @HardSciFiMovies

🏏 Follow

1-

Computer hackers manage to shut down a power plant. Output is increased at other plants. HR is annoyed at having to pay overtime.



There will (probably) be no cyberwar.



No, I don't mean cyber terrorism.

The bad news:



There will be no war.

But in the struggle for peace not a single stone will be left standing. http://kyrah.net @kyrah

kyrah@kyrah.net 4414 6244 4A71 62E5 6058 E305 8468 FB90 8D46 82E8