



CYBER WARFARE

History of Hacking

The Rise Cyber warfare

APTs

WHAT IS CYBER WARFARE?...



HISTORY OF HACKING

1960s – MIT becomes home to the 1st computer hackers

1970s – Cap'n Crunch hacks phone systems using a toy whistle

1980s – Morris Worm is launched

1990s– Russian Mathematician hacks into Citibank and steals \$10 million

2000s– Mafia boy conducts DDoS attacks and renders Yahoo, eBay, CNN inaccessible

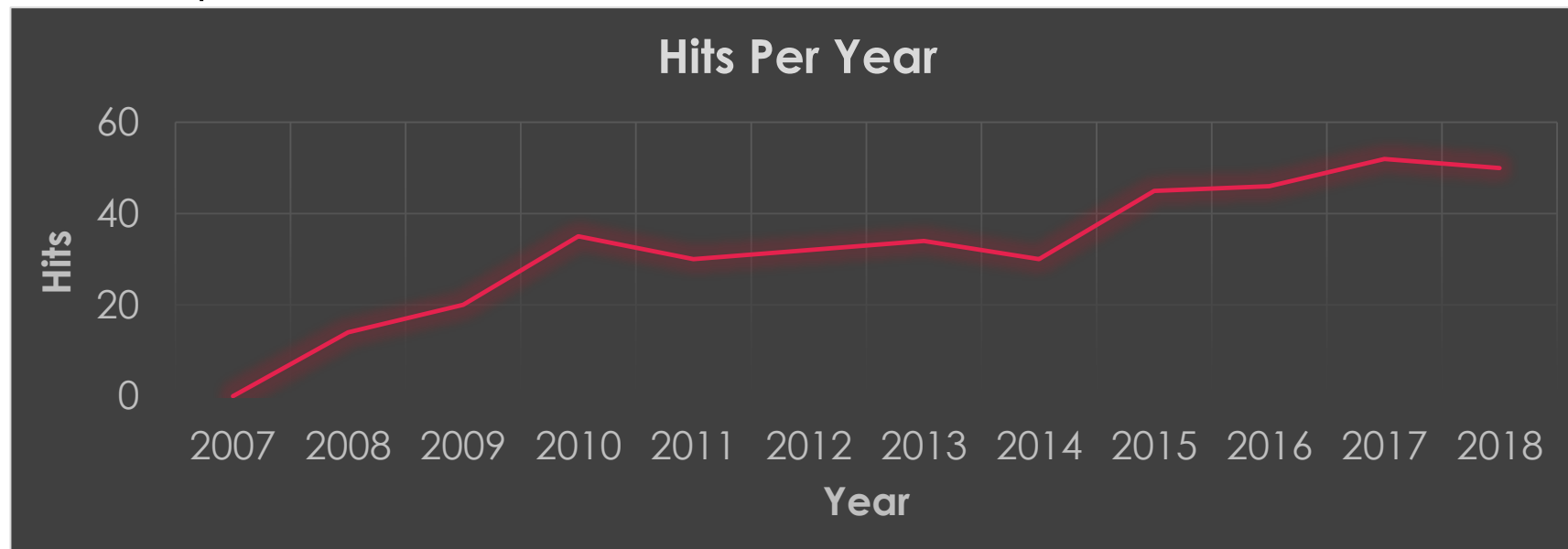
2010–US and Israel use a worm to destroy nuclear centrifuges in Iran

2014 –Sony Pictures is hacked by North Korean government sponsored hacker

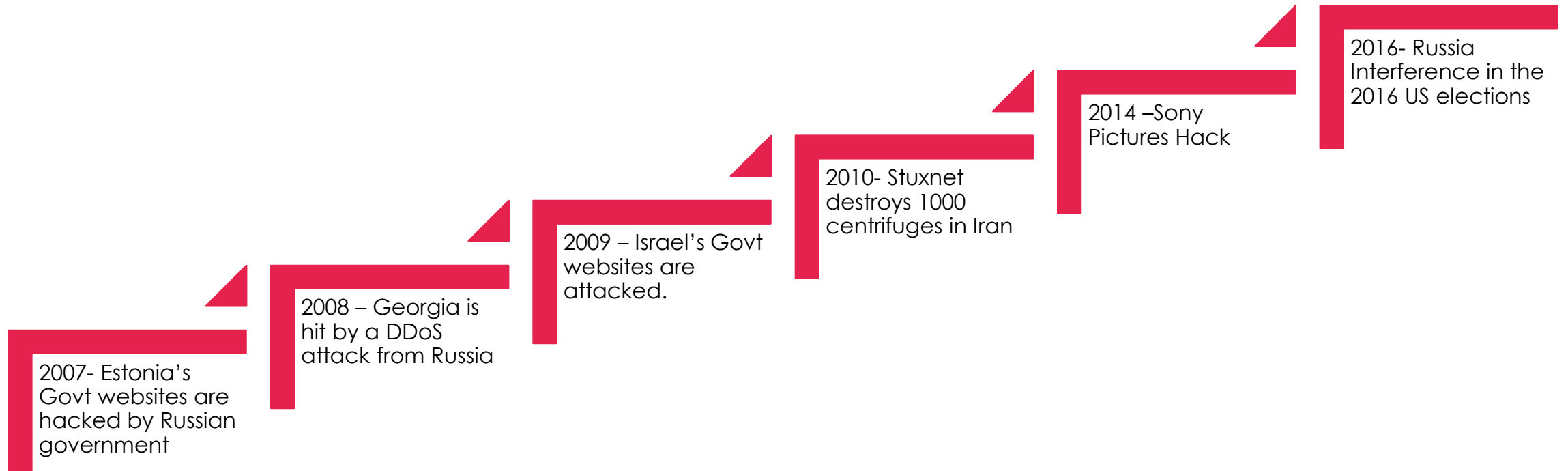
CYBER WARFARE ON A RISE

Each year , the USA releases a **Public Threat Assessment Report** – A useful report that outlines the major threats to the USA

If you run a search for the word “cyber” in those reports between ‘07 – 18, you’ll end up with a trend like this



CYBERWAR TIMELINE.....





TRADITIONAL NATIONAL THREATS VS CYBER THREATS

- In the face of cyber threats , the government can't go at it alone
- The Attack Surface is huge
- Victims don't know they are victims
- Warning before an attack and response time before an attack



APTS

- Acronym for Advanced Persistent Threats
- “a stealthy and continuous computer hacking processes often orchestrated by a person or group targeting a specific entity.”

LETS BREAK IT DOWN



Advanced

- Use of sophisticated techniques



Persistent

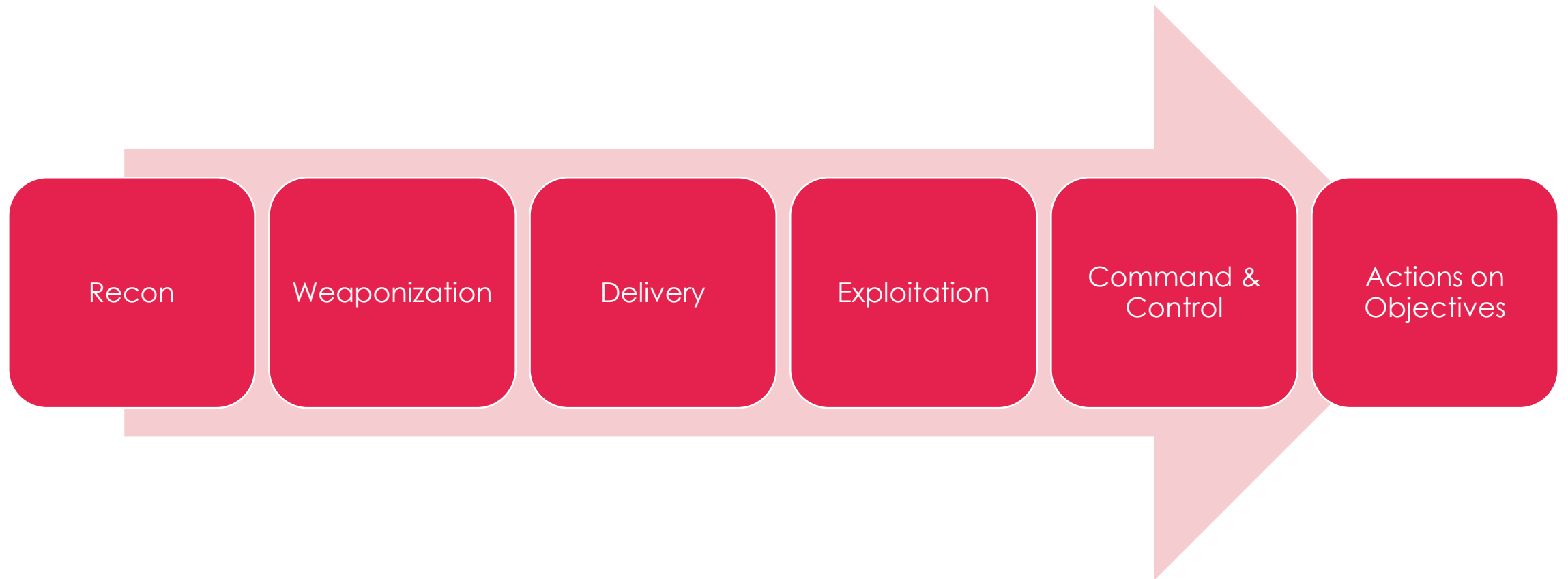
- External Systems are continuously monitoring and extracting data



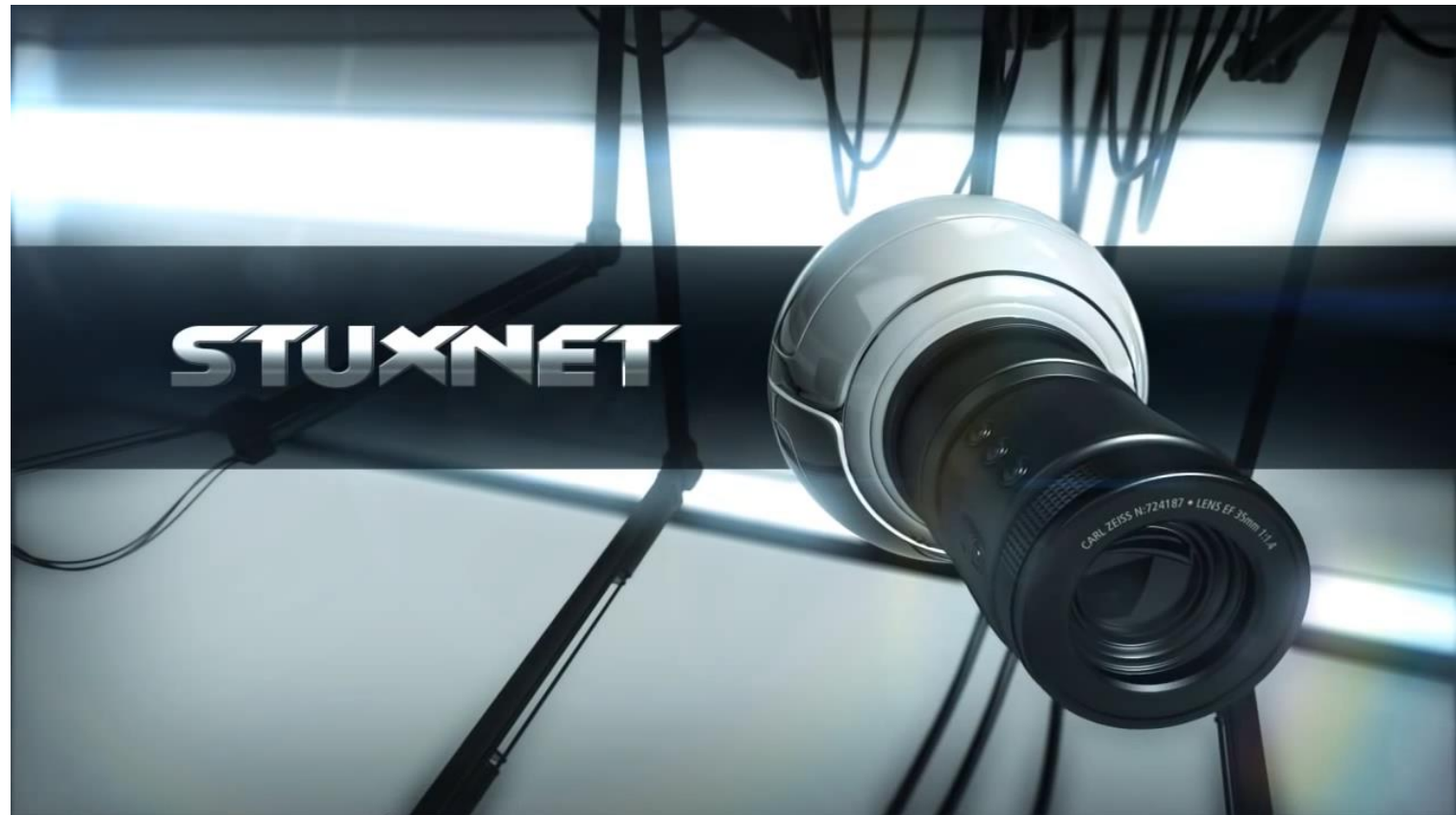
Threat

- Orchestrated by Humans with intent

LIFECYCLE OF AN APT



APT : STUXNET



CYBER THREATS : NOW



CYBER THREATS : TOMORROW

