

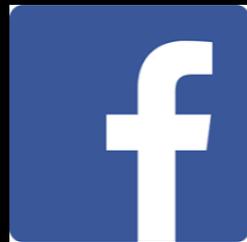
The Next Tidal Wave of Cyber Wars

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AI is The Next Big Thing



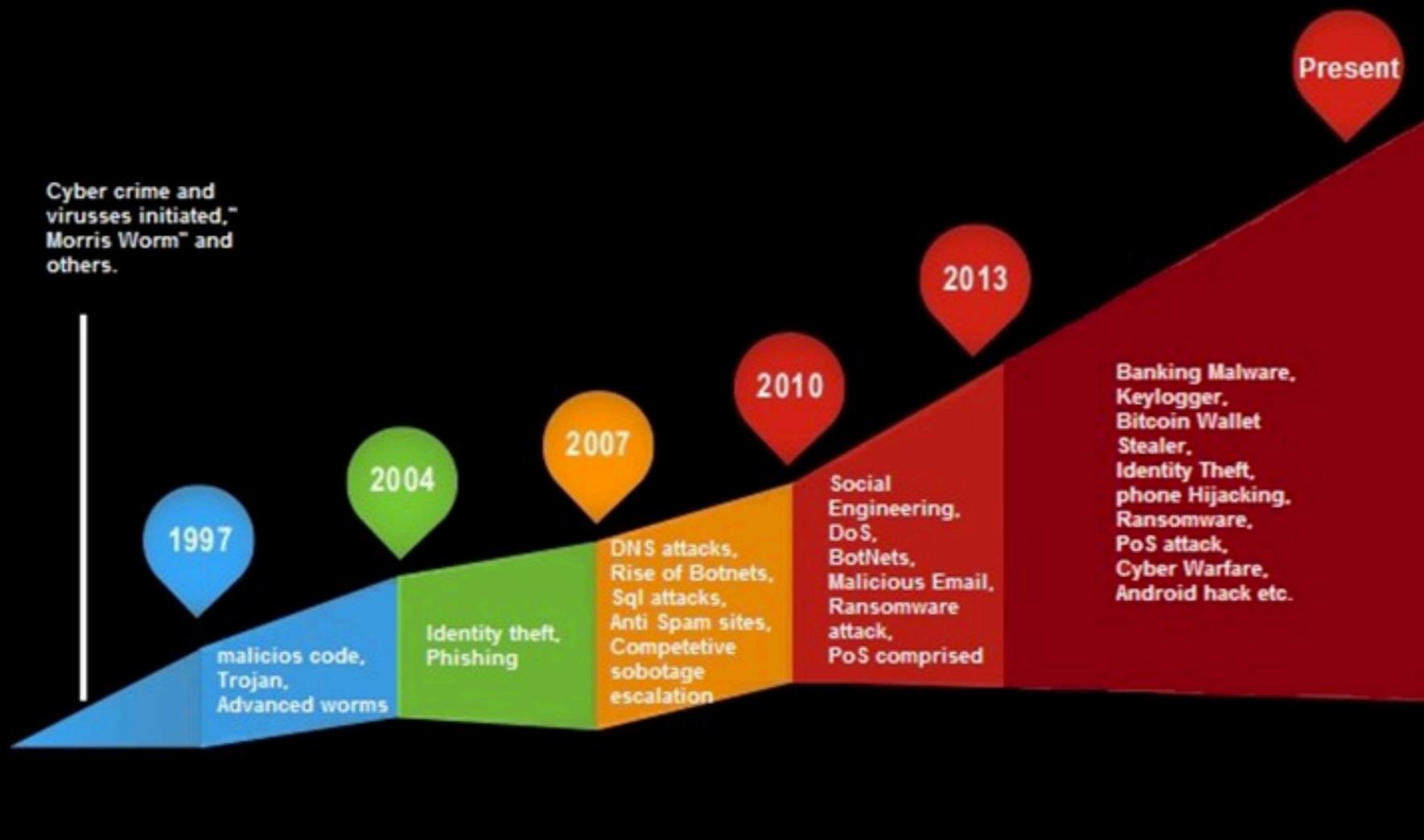
AI Entered Cyber Defense

Good Artificial Intelligence

Not Skynet, Not Impact on Economy

Current State of Cyber Security

The Cyber criminal community is evolved from Morris Worm to the ransomware and other organized crime that have high payoff, many countries are working to stop such attacks, but these attacks are contiously changing and affecting brutally to our businesses and nation.



New Genres

Polymorphism, Botnets, Ransomware, Exploits

Actors

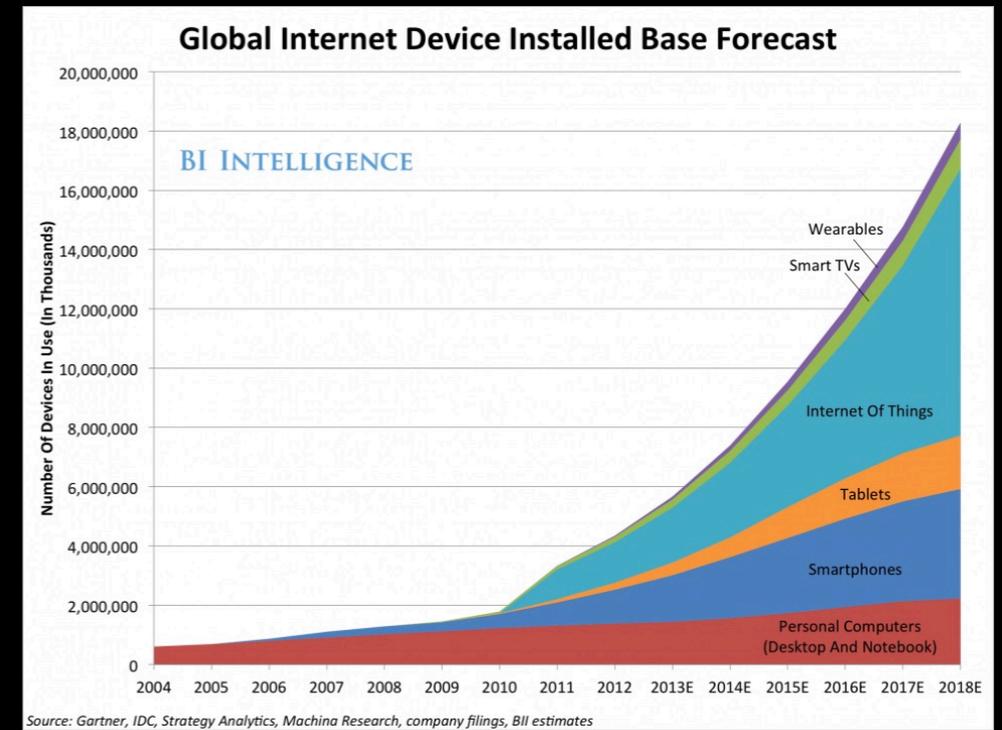
Cyber Criminals, States, Activists and Terrorists

Motivation

Money, Intelligence Gathering, Damage, Harm

The More We Are Dependent on Technology The More Vulnerable We Are!

Root Cause for Cyber Wars Escalation



Artificial Intelligence Capabilities

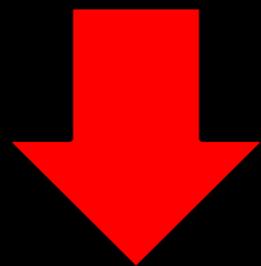
Learning
Reasoning
Adaptation

And it works fast!

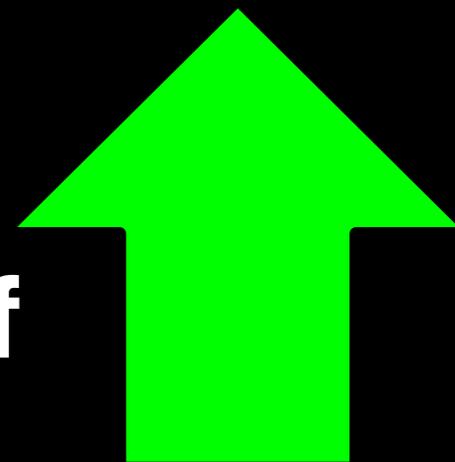
What if Attackers Were to Employ AI?

Threats Will Become Adaptive,
Intelligent and at Mass Scale

**Cost of
Attacks**



**Sophistication of
Threats**



DARPA Cyber Grand Challenge



Will It Happen?

Yes!!!

Attackers are smart, wealthy and motivated

So why don't we see it already ?

- Hidden logic (malvertising, botnets,...)
- AI has just entered its commoditization phase
- They are learning - The Cyber Arms Race

When ?

End of 2017 and onwards

What Should Be Done?

- Centralized R&D funding
- Acceleration of core defenses
- Private sector participation

We can not afford to miss out on the next wave in the cyber arms race!

“By failing to prepare, you are preparing to fail”

–Benjamin Franklin