





FT FINANCIAL TIMES

1000 Europe's Fastest Growing Companies 2019



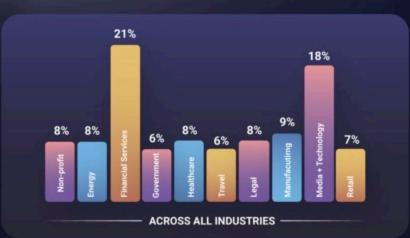
GLOBAL EXCELLENCE GOLD

DARKTRACE



DUAL HQs SAN FRANCISCO AND CAMBRIDGE, UK

CREATORS OF AUTONOMOUS RESPONSE



\$1.65_{BN}

1,000 EMPLOYEES

44 OFFICES

> \$500M CONTRACT VALUE





































SLAUGHTER AND MAY

























































































































































































































































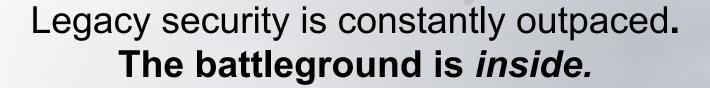




Cyber Security: The Challenge



- Complexity: outsourced IT, cloud, supply chain, IoT
- Convergence of IT and OT environments
- Threat landscape getting more sophisticated
 - Nation state & criminal
 - Insider threat and misconfigurations
- Attacks move at machine speed
- Human teams overwhelmed













AUTONOMOUS RESPONSE





Machine Learning is Hard to Get Right

- No two networks are alike
 - o On-premise, virtualized, hybrid, cloud, SaaS,
- Needs to work without customer configuration
- Needs to support teams with varying security and math skills
- Must deliver value immediately but keep learning and adapting
- Must have linear scalability
- Cannot rely on training sets of data



Intellectual Property Targeted by Malware



Point of entry:

Disguised malicious document



Objective:

Encrypt crucial system files and spread to subsequent victims



Anomalous activity:

Connections to a rare external destination, while trying to move laterally to other areas of the corporate network

- Malware designed to target intellectual property disguised in email as invoice
- Employee unintentionally downloaded fast-acting malware
- Darktrace Antigena responded preventing spread of malware to the assembly line



Video Conferencing Camera Attack





Point of entry:

Video Conference Camera



Objective:

Transmit data out of host network



Anomalous activity:

Video conferencing camera was transmitting data outside the network

- Attacker was aiming to either steal corporate information or take remote control of the device to launch a DDoS attack on another network
- Would not have been detected through signature-based defences – the activity was not inherently malicious
- Malware designed to target intellectual property disguised in email as invoice

Offensive Al

- Al used by cyber-criminals to create new attacks
- Able to learn the patterns of a business and blend in
- Can morph and change strategy spontaneously
- Darktrace Offensive Al Lab securely generating these attacks





When cyber-attackers employ AI as part of their attacks, cyber defenses will have to be capable of response.

Fast-moving and changing attacks will require defenses that move just as quickly, using AI and automation to augment the human.

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