









Bill Mylchreest

National Partner Account Manager
Bill.Mylchreest@eset.com

Victoria Smith

Enterprise Sales Rep

Victoria.smith@eset.com

Walter Taylor

ESET Account Executive
Walter.taylor@eset.com

Kevin Wood

ESET Account Manager
Kevin.wood@eset.com



DEFINITIONS WE WORK WITH:

Artificial Intelligence (AI): A generally intelligent machine that can learn and make decisions **independently**, based on inputs from its environment – without human supervision.



Machine Learning (ML): The field of computer science that gives machines the ability to find patterns in vast amounts of data, by sorting them and acting on the findings

Large Language Models (LLMs): Machine learning models that can comprehend and generate human language text by analyzing massive data sets of language

ESET Has Been Tracking Al and ML In Cyber Crime for Decades

What we predicted in 2018:

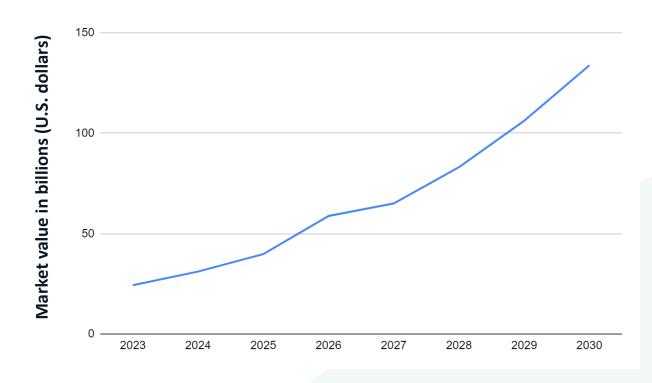
- Humanlike social engineering
- Targeted spearphishing campaigns
- Malware optimization
- Victim selection and targeting
- Fast vulnerabilities research

- New malware generation
- Self-destructive mechanisms to thwart investigation and analysis
- Decreasing the time of an attack
- Collective learning of (IoT) botnets
- False flags

Projected Growth in Value of AI Cybersecurity Market Worldwide

Market value of

\$134B By 2030



Al's Profound Impact on the Threat Landscape Four Key Takeaways



Massive Increase in Volume and Scale

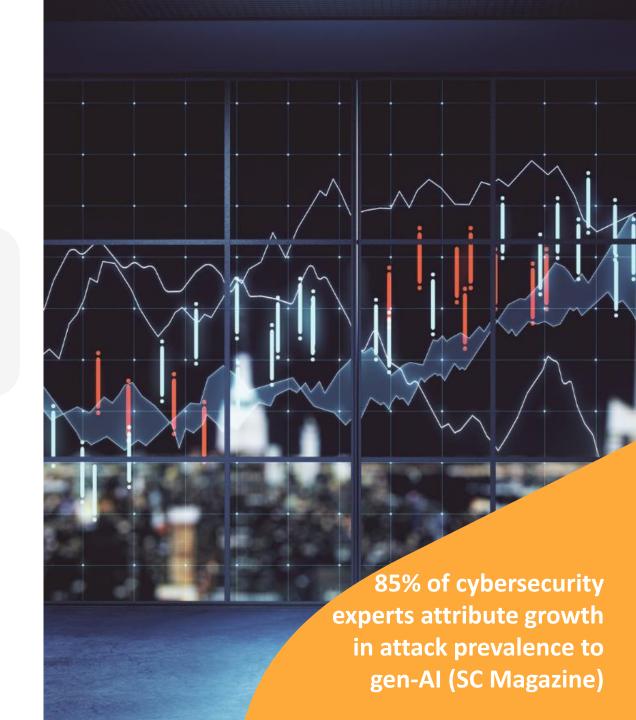


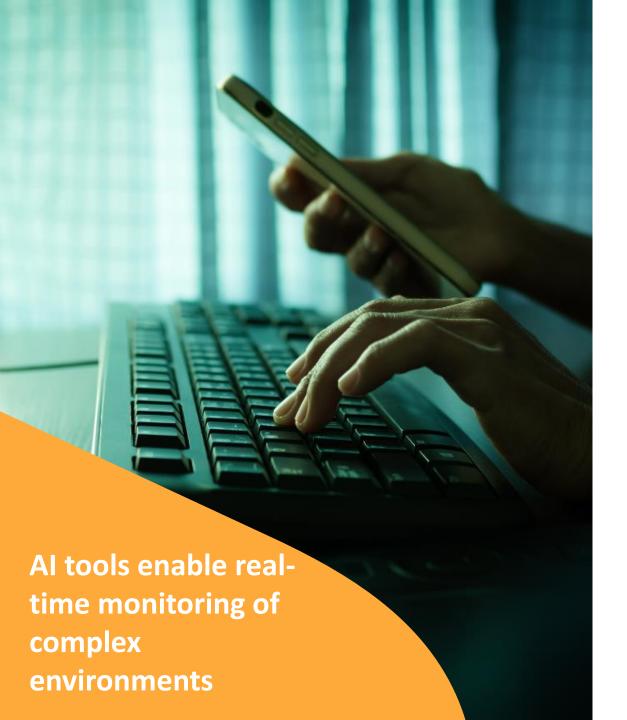
1,265% increase in malicious phishing emails (CNBC)

967% rise in credential phishing since Q4 2022 (CNBC)

1760% Surge in Business Email Compromise Attacks (Security Today)

Gen-AI tools streamline new malware creation by automating tedious assignments like debugging, code optimization, and rewriting libraries.





Improved Attack Success Rate



Human-like language for more convincing content

Better attack evasion tools

Lower barrier to entry for new adversaries – Al gives midlevel attackers tools to up their game!

Gen-AI tools utilize LLMs to create more convincing, human-like content, leading to higher attack success rates for experienced attackers and those entering the game.

Data-collecting and detection-thwarting botnets analyze every victim for signs of monitoring.

Ability to Shift Public Perception



1 in 5 Americans receive their daily news from social media

64% of adults said "fake news" caused confusion on basic facts

23% of adults have knowingly or unknowingly shared "fake news"

(NCSC.org)

Gen-AI enables large-scale disinformation campaigns that have the proven ability to shift public perception.





Emergence of Cyber Physical Attacks



Al used to target critical infrastructure inside the U.S.

Simulated cyberattacks can damage equipment and cause destruction

86% of organizations have adopted Industrial Internet of Things (IIoT) (Forbes)

The FBI recently warned of real-world attempts to infiltrate IIoT systems using gen AI models with the intention to override physical systems and destroy essential infrastructure. (CNBC)



Future (potential) Al assisted attacks

- Nation state advisories will use advanced tools
- Potential risk of sophisticated attacks against critical infrastructure
- Attacks may morph automatically depending on defenders' responses

Sci-Fi or Near Future?

- Planting false flags: sending forensic threat hunters on a wild goose chase
- Improved victim selection: All combing through vast data sets looking for the weakest entry point
- ✔ Vulnerability hunting: sifting through vast data on unpatched software, known CVEs, and notoriously insecure backdoors
- Learning botnets: could be used for more sophisticated operations like vulnerability hunting or information harvesting, not just DDoS
- Al Poisoning: intentionally compromising a training dataset used by an Al model to manipulate the operation of that model

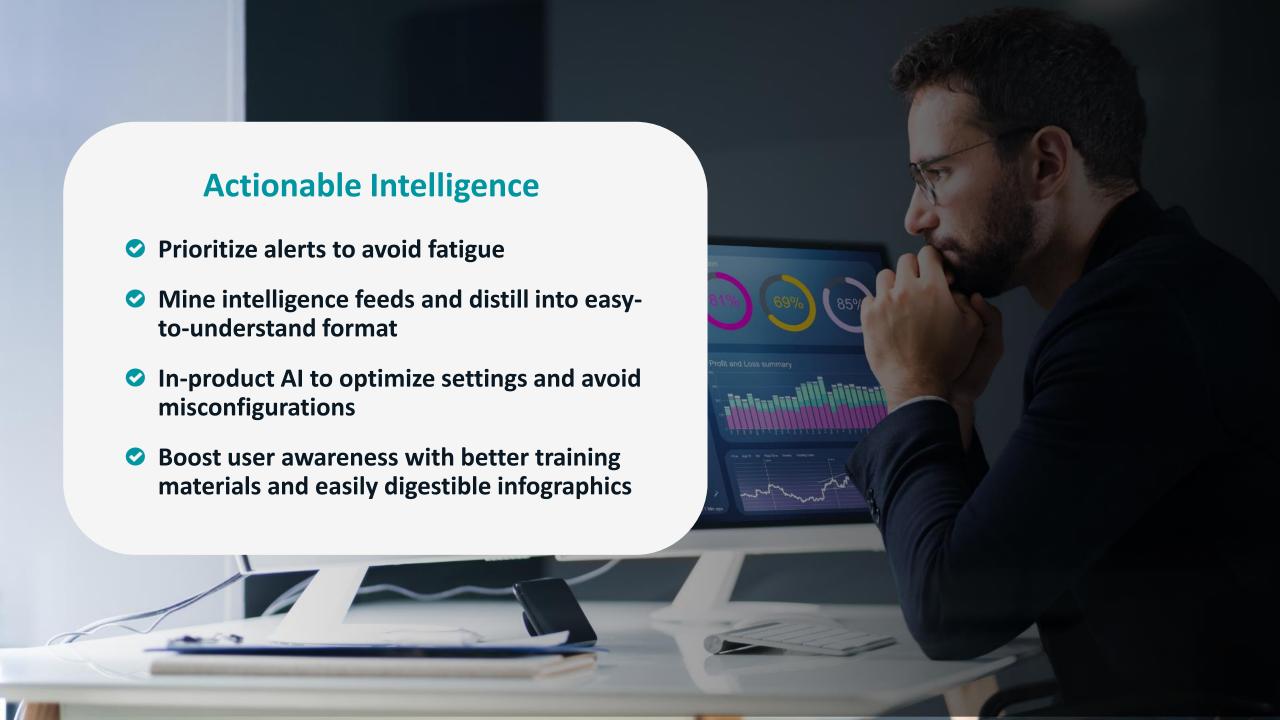
Fighting Back

Leveraging AI to Bolster a Proactive and Adaptive Defense Strategy









ESET + AI

Enhance detection rates, aid threat hunting, and minimize false positives



ESET has been using Al for over 25 Years

2005

ESET DNA Detection uses genes of malware to detect current and emerging threats

2017

ESET Advanced Machine Learning in the cloud uses AI to power our automated detection systems 2019

ESET Advanced Machine Learning in the endpoint uses Al to power detection. 2023

Automated Incident Creator added to ESET Inspect to reduce noise and give a clear overview of incident

1997

First use of neural networks in ESET products, utilized for detection of macro viruses

2010

ESET LiveGrid® leverages ESET DNA Detections to speed up user-side updates.

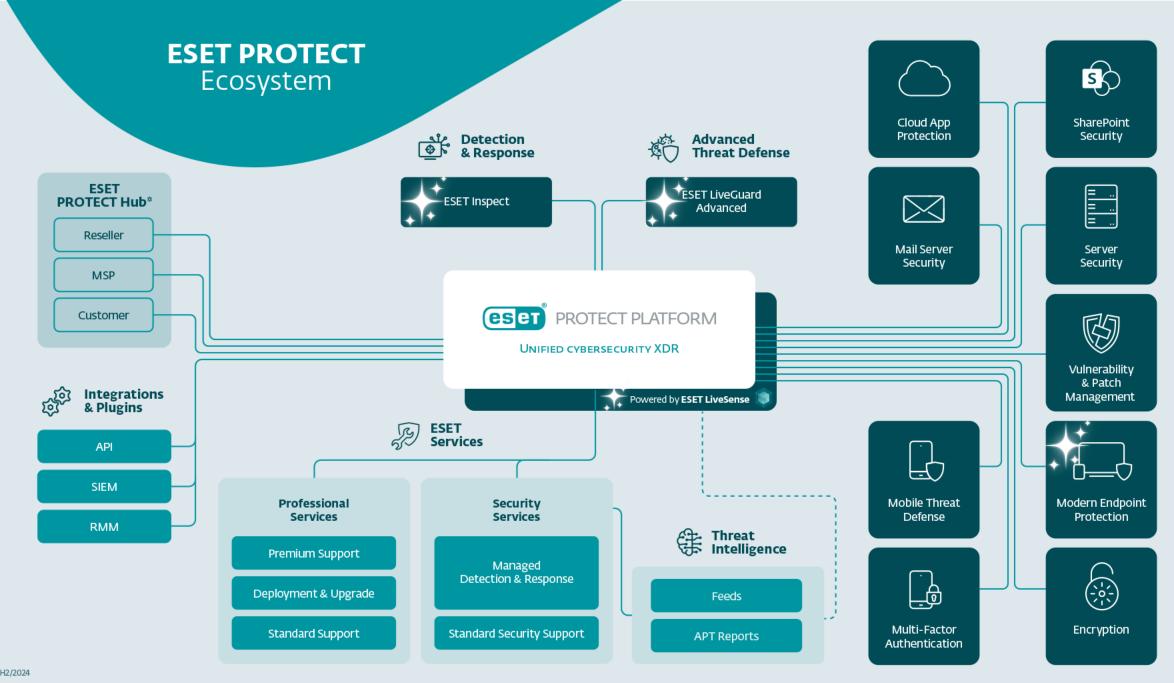
2018

ESET LiveGuard provides ondemand analysis within minutes 2020-21

Transformer-based models deployed in ESET's cloud and endpoint solutions

2024

Al security advisor for ESET Threat Intelligence and ESET Inspect offer greater insights



ESET LiveSense®

The figure below shows some of ESET's core technologies and indicates approximately when and where they can detect and/or block a threat during its life cycle in the system.

PRE-EXECUTION LAYER

Reputation and cache

Network Attack Protection

UEFI Scanner

Advanced Machine Learning

Brute-Force Attack Protection

Device Control

DNA Detections

In-Product Sandbox

EXECUTION LAYER

Ransomware Shield

Script Scanner & AMSI

Advanced Memory Scanner

Exploit Blocker

Deep Behavioral Inspection

POST-EXECUTION LAYER

LiveGrid® Protection

Secure Browser

Botnet Protection

Enhanced Detection Rates



Aid in Threat Hunting

ESET PROTECT Elite







Modern Endpoint Protection (i) Learn more



Full Disk Encryption (i) Learn more



Mail Server Security ①
Learn more



Multi-Factor Authentication (i) Learn more



Server Security (1) Learn more



Mobile Threat Defense (1)
Learn more



Advanced Threat
Defense (i)
Learn more



Cloud App Protection ①
Learn more



Vulnerability & Patch Management (i) Learn more



Extended Detection & Response (i)
Learn more

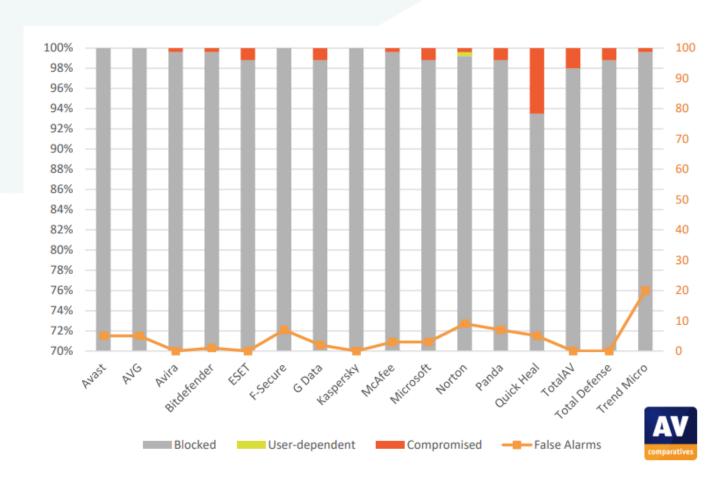


MDR Ultimate Service



Premium Support Advanced

Real-World Protection Test March 2024 by AV-Comparatives



Minimize False Positives



False Positives 2023 winner according to AV-Comparatives 2023 Summary Report

How ESET MDR can help

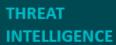
Managed Detection & Response Service combines AI and human expertise to achieve unmatched threat detection and rapid incident response without the need to maintain in-house security specialists.

security AI+ detection service
expertise maintain response



How ESET MDR works







Machine Learning Threat Analyses



(eset) PROTECT & INSPECT



SIEM | SOAR



Continuous improvement and automation



Monitoring and hunting, 24/7 SOC



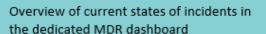
Rapid response

Continuous adjustment of behavioral patterns

24/7 monitoring, hunting and incident creation using AI and SIEM combined with SOC MDR supervision

Sending notification about incident to client

Quick response to incident/ risk mitigation using SOAR technology



About ESET



30+ years in the market



Private company, no debt



Always focused on technology



Biggest European Union vendor



Growing year-overyear since its inception



Owned by original founders



Strong values



Progress. Protected.

Questions?



Thank you for listening

Request Live Demo

Request Business Trial

Contact Sales



Digital Security
Progress. Protected.