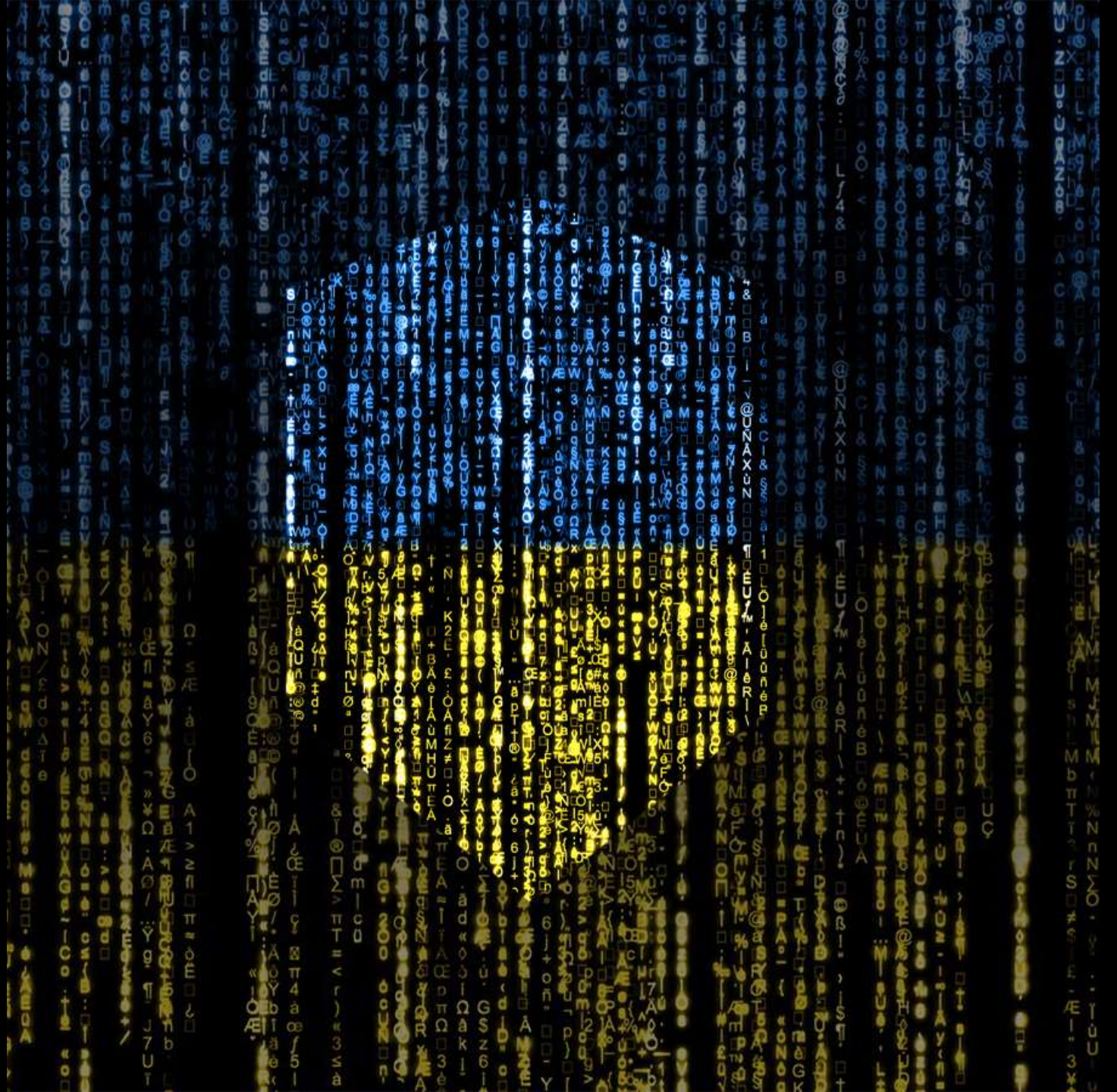
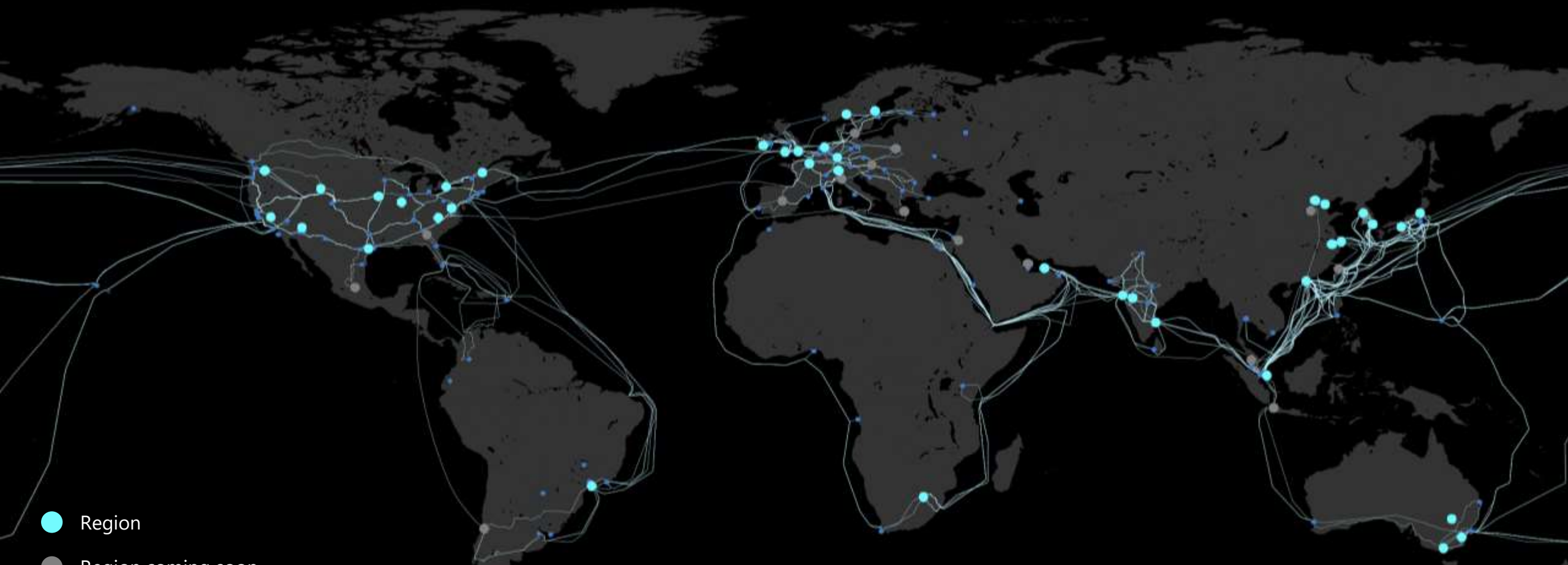


Microsoft Säkerhet i en AI-värld

Sandra Barouta Elvin,
Nationell Säkerhetschef



Microsoft Cyberspace



- Region
- Region coming soon
- Network PoPs

70+

regions
worldwide

250K+

miles of fiber
and subsea cable

85T+

Security Signals Per
Day

10K+

Security and threat
intelligence experts

1M+

Security Customers

15K+

Security Partners

The odds are against defenders

Cost of cyberattacks
(USD)



Source: Statista

Password attacks
per second



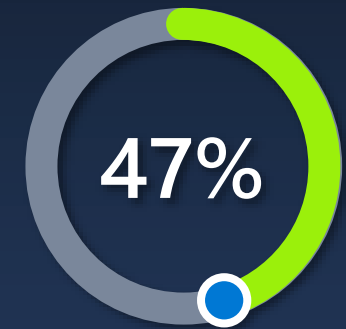
Source: Microsoft

Open cybersecurity jobs
in the U.S.



Source: Cyberseek

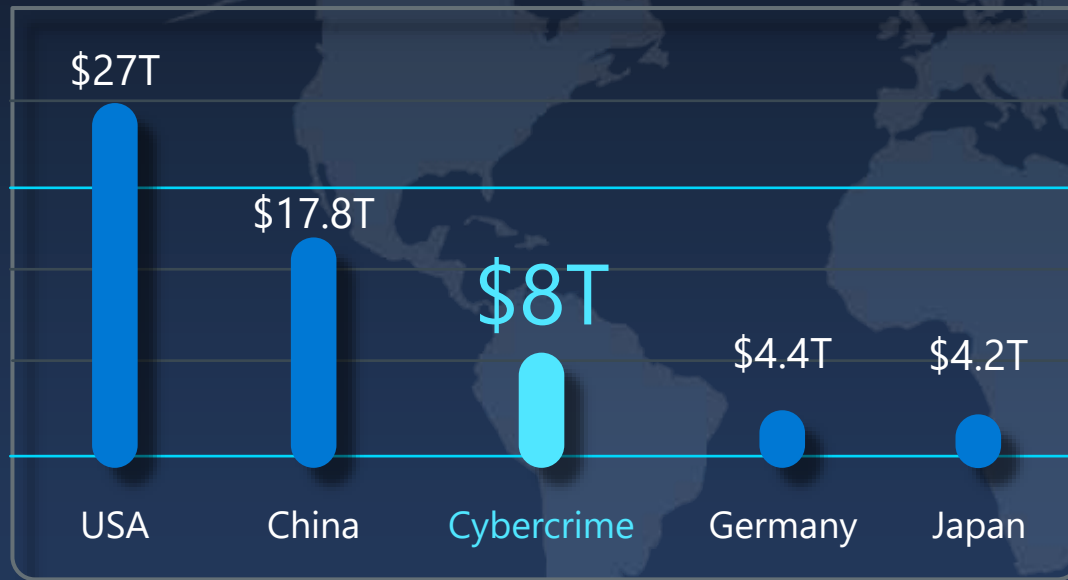
Increase in phishing
attacks, driven by attack
use of AI



Source: Zscaler

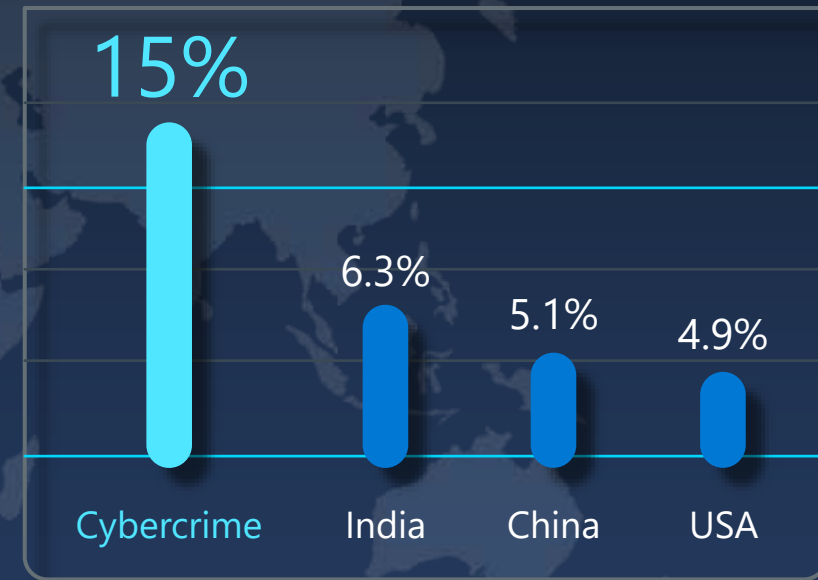
Cybercrime today equals the 3rd largest economy in the world and growing fast

Annual GDP



Source: Statista

GDP annual growth rate



Source: Statista

Security is a about managing risk

Confidentiality



- Unauthorized internal access
- Unauthorized antagonistic access

Integrity



- Intentional corruption of data
- Unintentional corruption of data

Availability



- Accidental incidents
- Antagonistic attacks
- Ransomware
- Total defense

Digitalization is not a choice



It is a necessity

Digitalization complicating security operations

- IT Security

- Protecting information technology
- Focusing on technical security

- Digital security

- Protecting against digital threats
- Focusing on securing digital information and processes



Malware



Network intrusion



Unauthorized system access



Phishing



DoS/DDoS



Cybercrime/
fraud



Data breach



Identity theft



Privacy breach



Cyber espionage



Disinformation

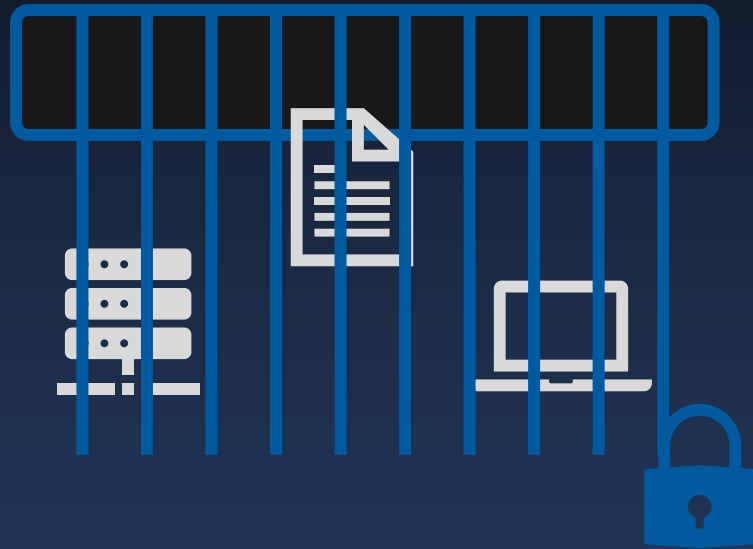
The risk management matrix

| | On-Prem | IaaS | PaaS | SaaS |
|--|---------|------|------|------|
|  Users/processes | ● | ● | ● | ● |
|  Data classification | ● | ● | ● | ● |
|  Client protection | ● | ● | ● | ● |
|  Identity & access protection | ● | ● | ● | ● |
|  Application controls | ● | ● | ● | ● |
|  Network protection | ● | ● | ● | ● |
|  Server security | ● | ● | ● | ● |
|  Physical security | ● | ● | ● | ● |

● Suppliers

● Customers

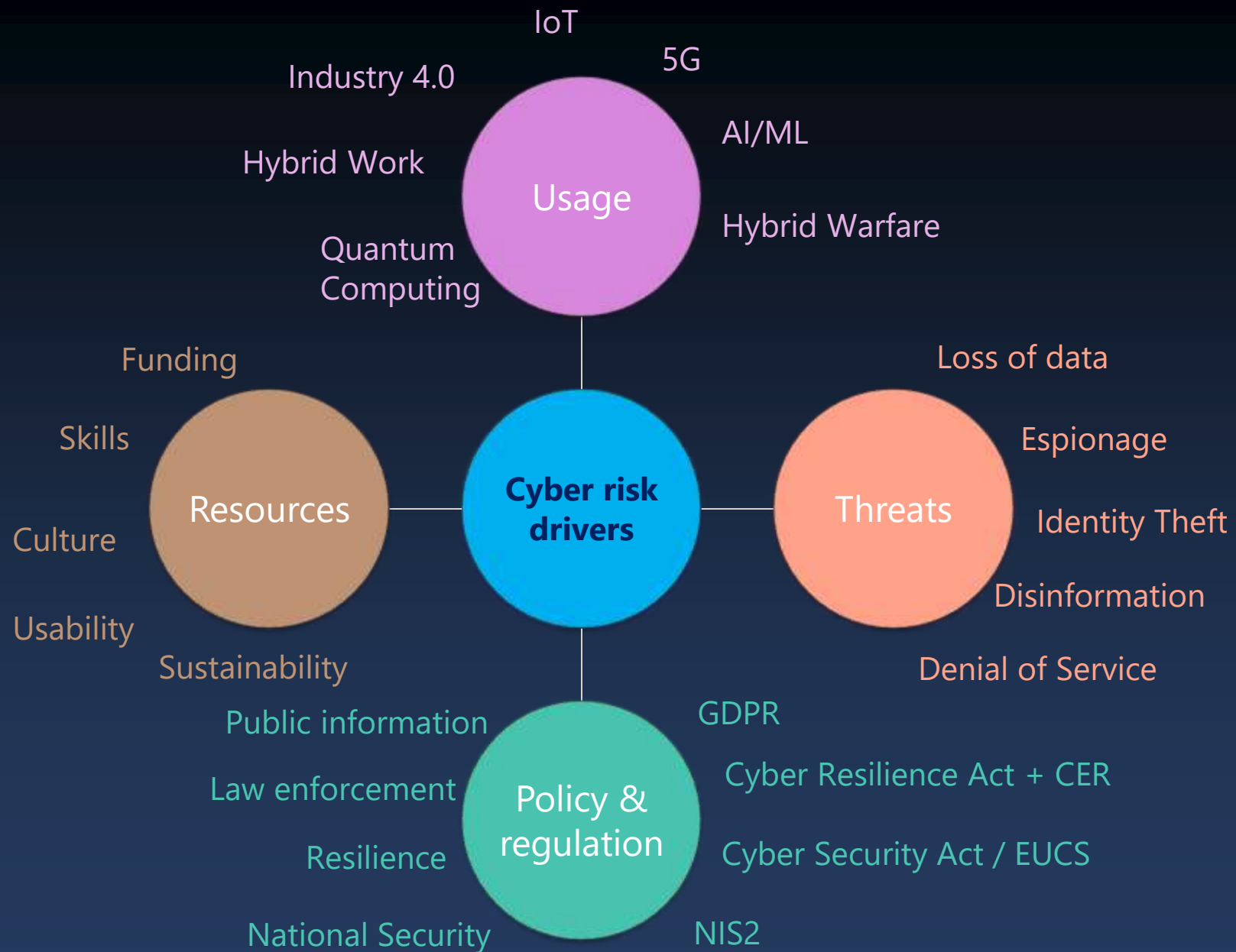
Zero Trust: security past the firewall



Classic Approach – Restrict everything to a 'secure' network



Zero Trust – Protect assets anywhere with central policy



Secure Future Initiative

Secure by design

Secure by default

Secure operations

Security culture and governance



Protect identities and secrets



Protect tenants and isolate production systems



Protect network



Protect engineering systems



Monitor and detect threats



Accelerate response and remediation

Tackling technical debt and shadow IT for a secure future

Putting security above all else

The Microsoft Secure Future Initiative (SFI) is a multiyear initiative to evolve the way we design, build, test, and operate our products and services, to achieve the highest possible standards for security.

It's our long-term commitment to protect both the company and our customers in the ever-evolving threat landscape.

730k

SFI non-compliant apps eliminated

5.75 million

Inactive tenants eliminated, drastically reducing the potential cyberattack surface



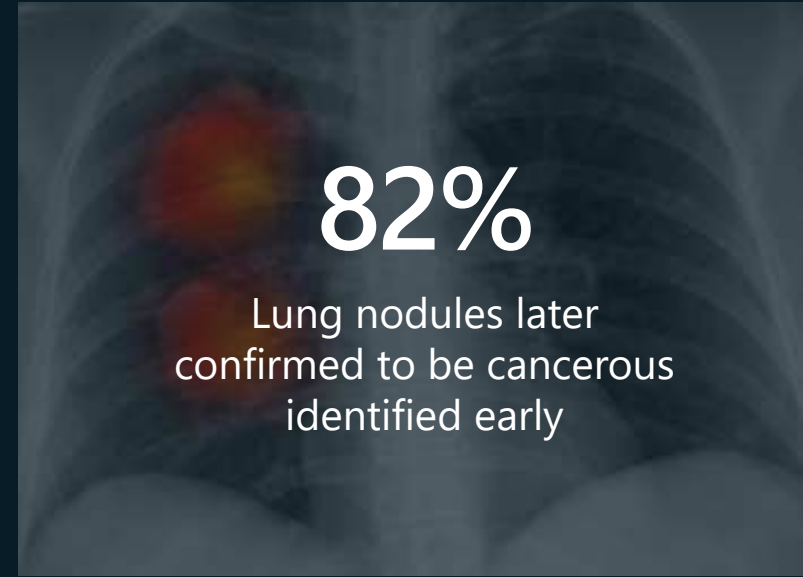
The benefits of AI are real



1 in 10
Cars expected to be self-driving by 2030




PROGRESSIVE
\$10M
Annual saving with AI chatbots



82%
Lung nodules later confirmed to be cancerous identified early



STRABAG
80%
accuracy in identifying projects at risk

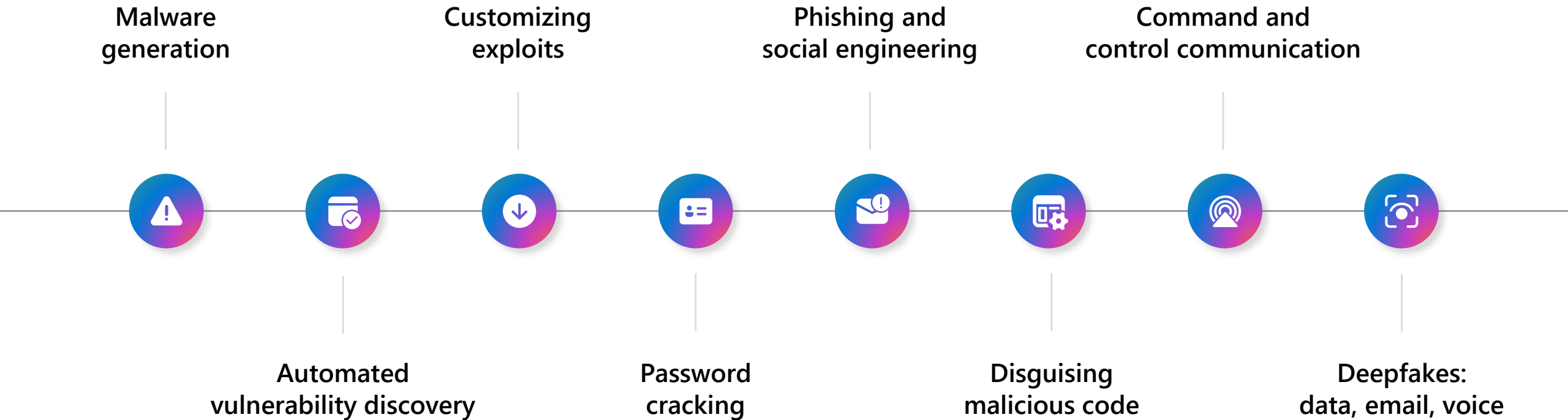


50%
Mobile users use voice search everyday



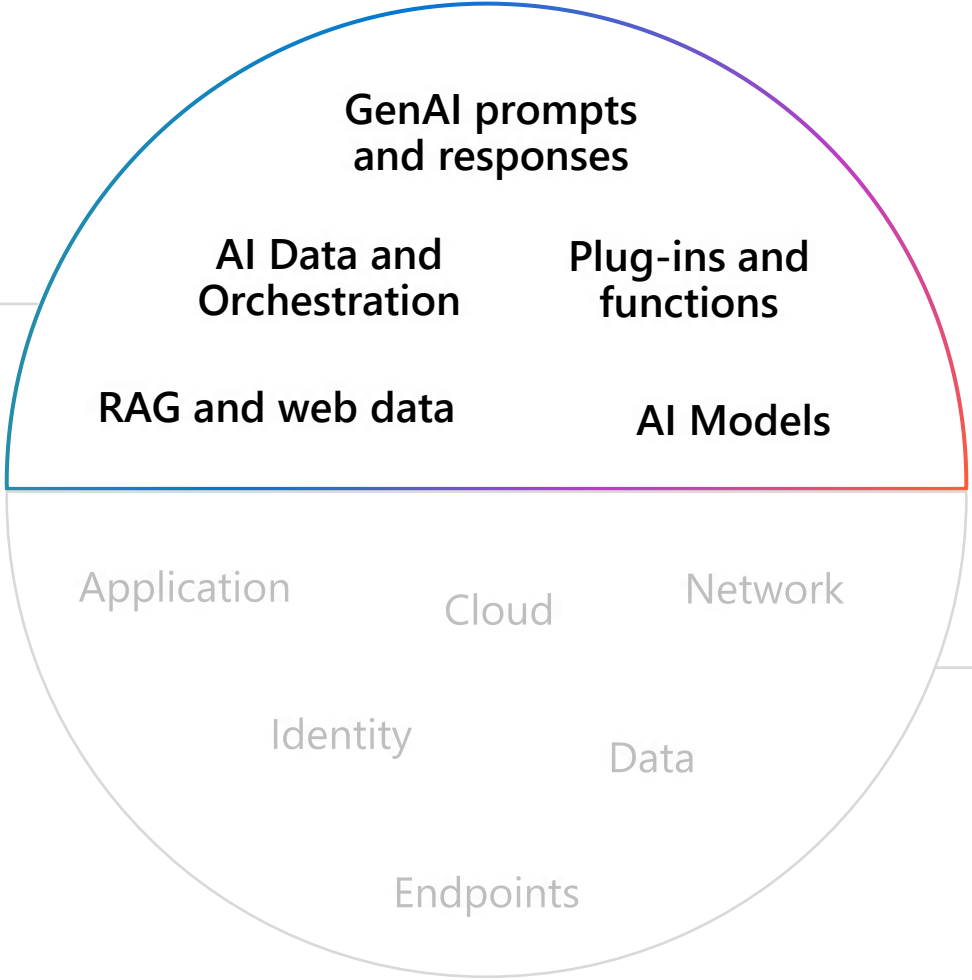
CARMAX
11 years
worth of work done in days

Adversaries will use GenAI in creative ways



We should also expect adversaries to target GenAI

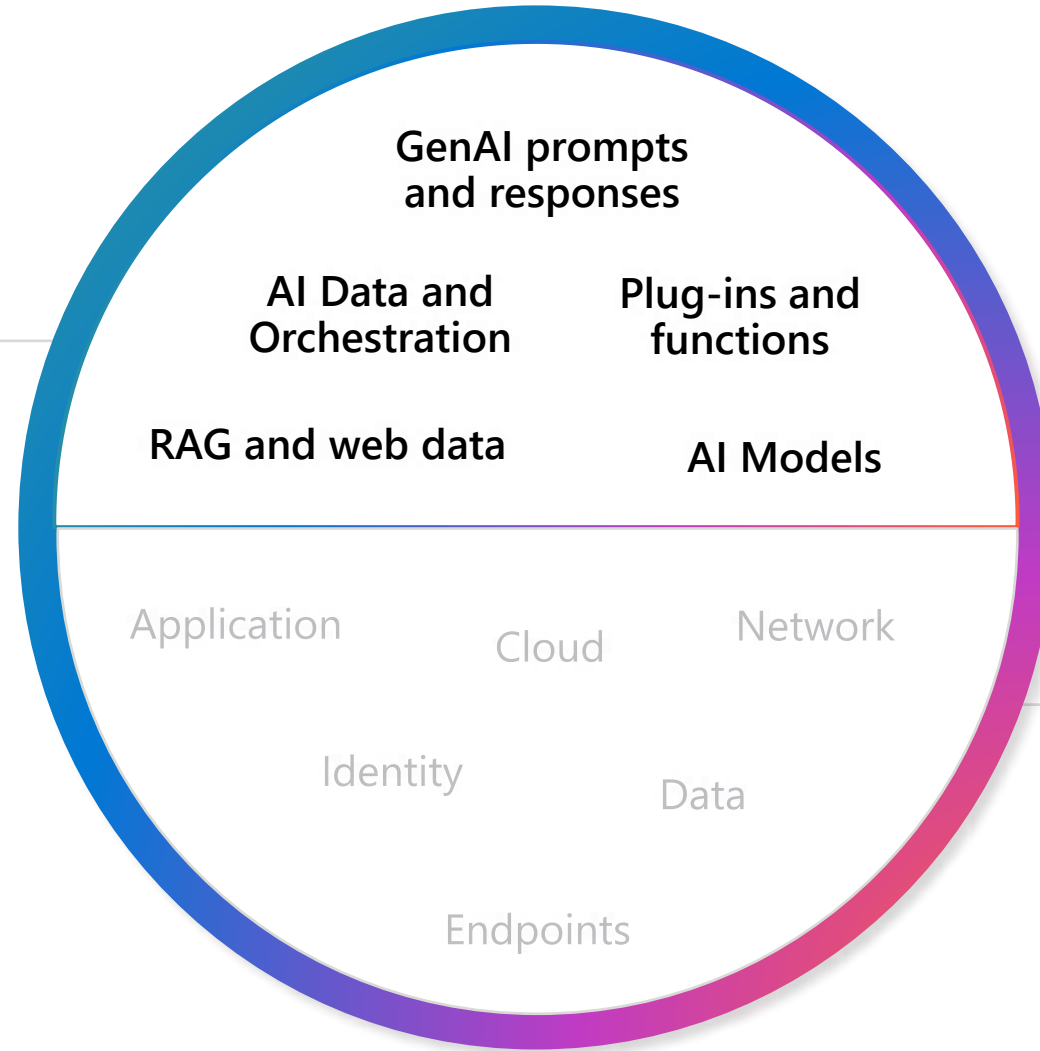
**New GenAI
attack surfaces**



**Traditional
threat vectors**

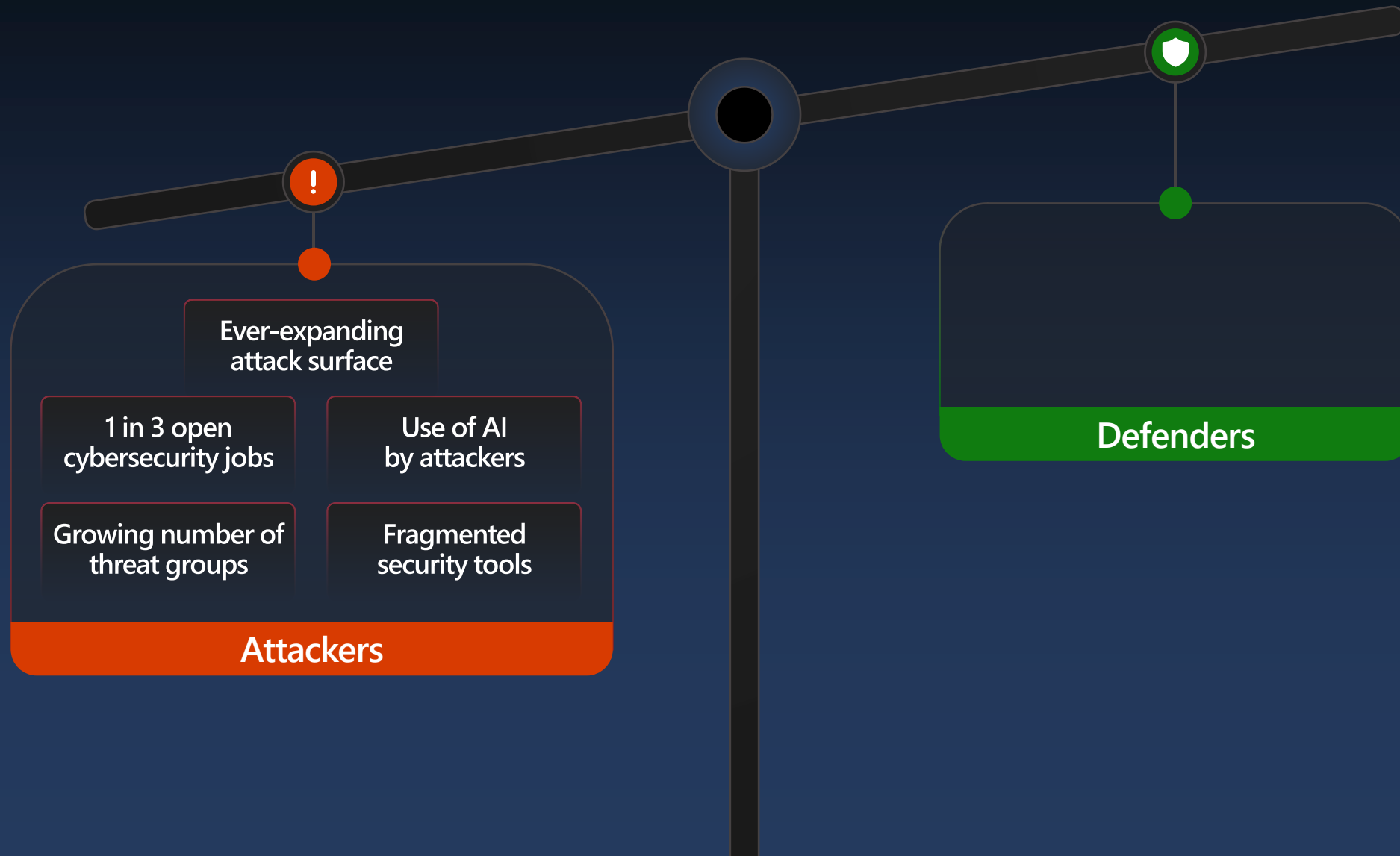
We have to protect it all comprehensively

New GenAI
attack surfaces

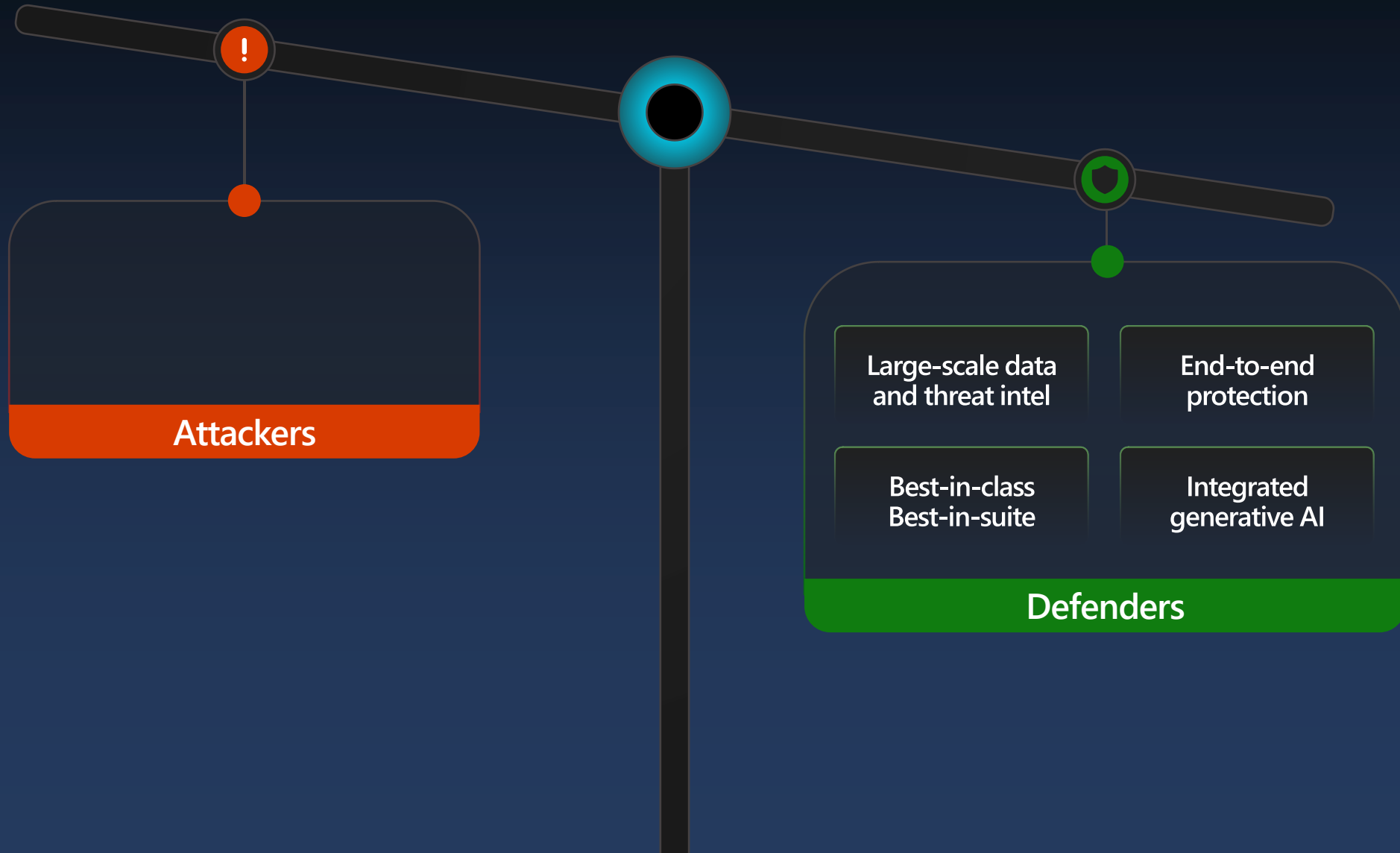


Traditional
threat vectors

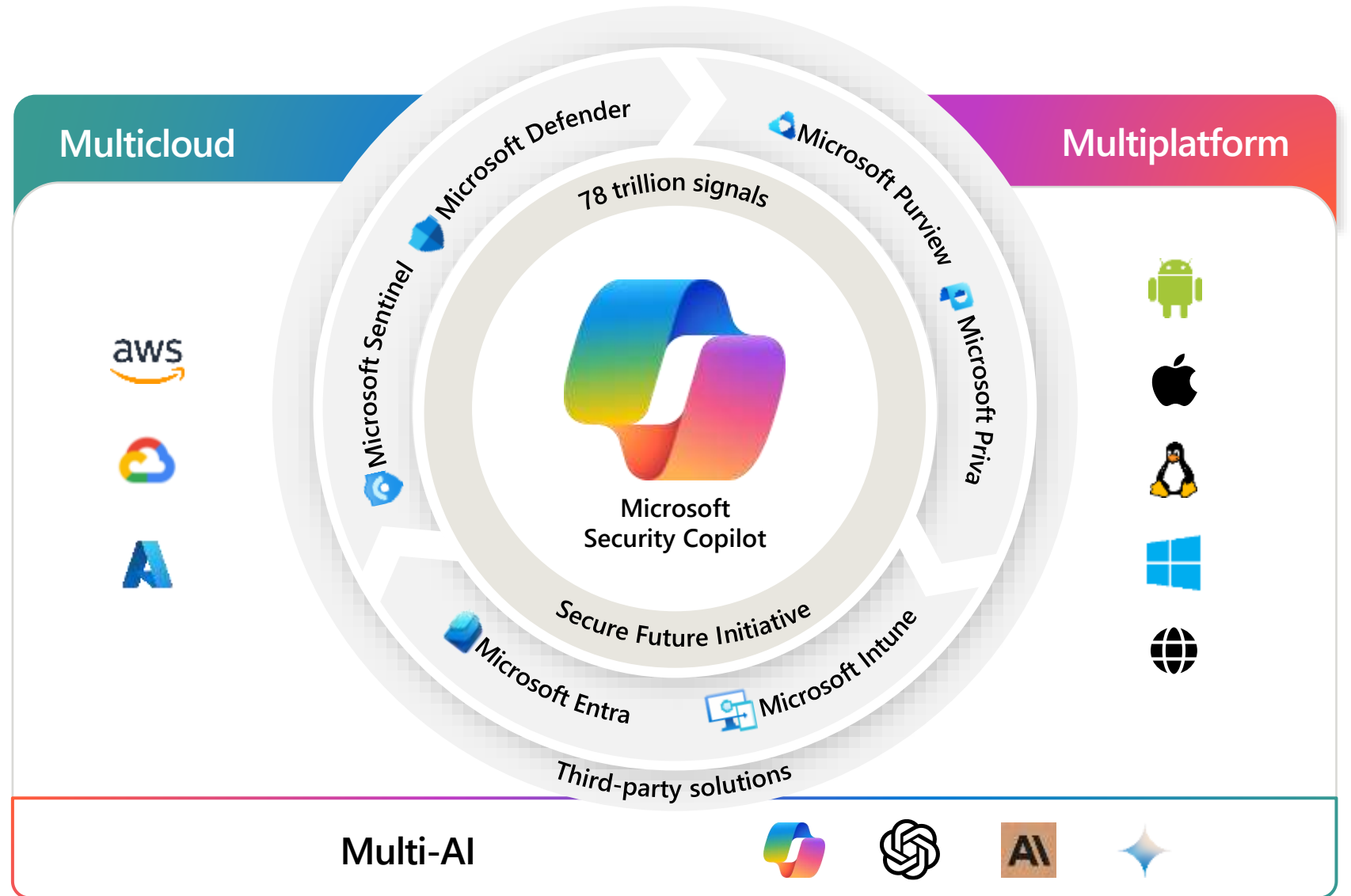
Enterprise Security Paradigm



Enterprise Security Paradigm



AI-first end-to-end security for the age of AI



How can AI help secure organizations?



Strengthen your security posture management

Discover whether your organization is susceptible to known vulnerabilities and exploits. Prioritize risks and address vulnerabilities with guided recommendations.



Drive faster incident response

Surface an ongoing incident, assess its scale, and get instructions to begin remediation based on proven tactics from real-world security incidents



Enhance your security reporting

Summarize any event, incident, or threat in seconds and prepare the information in a ready-to-share, customizable report for your desired audience

300+ product innovations in the past 12 months and counting

Transforming threat protection and cloud security

Secure, connected endpoint management and identity

Data security for today's world

The AI-powered future of Security

Microsoft Defender Threat Intelligence in Microsoft 365 Defender

Microsoft Intune Suite

Microsoft Entra governance controls

Adaptive protection in Microsoft Purview

Microsoft Security Copilot

How can we protect against 99% of attacks?



Fundamentals
of cyber hygiene

99%

Basic security hygiene
still protects against
99% of attacks.

How effective is MFA at deterring cyberattacks? A recent study based on real-world attack data from Microsoft Entra found that MFA reduces the risk of compromise by 99.2 percent.¹



Enable multifactor authentication (MFA)



Apply Zero Trust principles



Use extended detection and response (XDR) and antimalware



Keep up to date



Protect data

Outlier attacks on the bell curve make up just 1%

Take Aways

- Security = Risk management
- A journey, not a destination
- Fight AI with AI





Thank you!



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