
AWS
re:Invent
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Using AI to anticipate risk

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Darktrace Cyber AI Research Centre

- Research-driven with a problem-first approach
- Experts across multiple disciplines
- Cutting edge – allowed to fail
- Today's research becomes tomorrow's product
- 100+ patents filed

"[The Centre] saw growth of 69.2% in related patent applications in the three months ending November, compared to the same period [the previous year] – the highest percentage growth out of all companies tracked."

– GlobalData

48% headcount increase in 2021

24 doctorates

60 master's degrees

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Trends in AI

1. First phase of AI was consumer internet data; next phase is entity-centric and bespoke to your business
2. AI is making decisions or helping humans make better decisions
3. Explainable AI clearly communicates the what, when, why, and how
4. Second-order AI continuously feeds back information to improve outcomes

Self-learning AI
Darktrace DETECT

Micro-decision making
Darktrace RESPOND

Explainable AI
Darktrace Cyber AI ANALYST

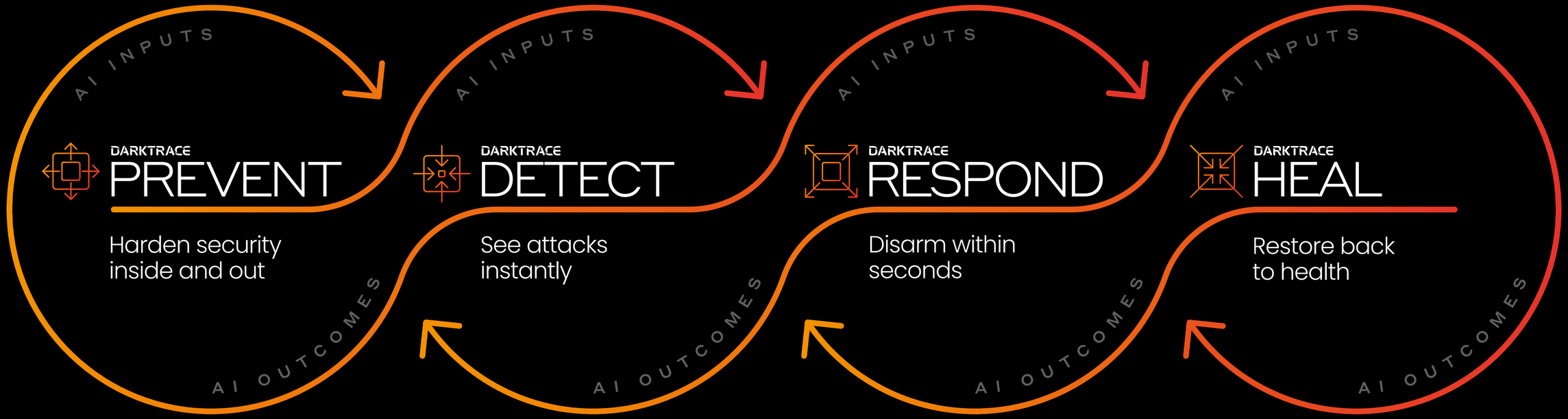
AI feedback
Darktrace Cyber AI LOOP

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Cyber AI Loop



Self-Learning AI empowers a complete, always-on solution with autonomous feedback continuously improving the state of security.

Darktrace Cyber AI Loop: The big ideas

Strengthens security posture continuously in a virtuous AI feedback loop

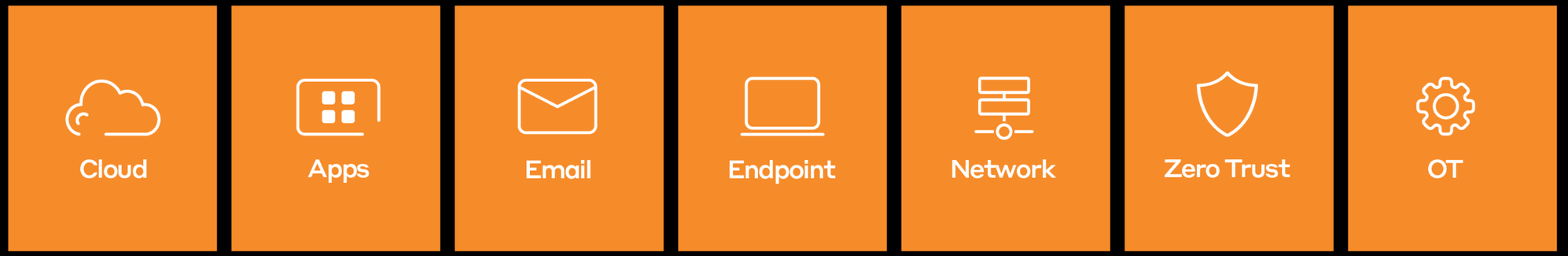
- **End-to-end** cybersecurity
- Creates a **bespoke**, AI self-learning solution unique to each organization
- Frees the security team for high-value work that only humans can do
- Protects revenue and **secures the bottom line**

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Areas of Coverage

Comprehensive Protection Wherever You Need It



Dropbox · slack · zscaler The Cloud Security Company · CROWDSTRIKE · Office 365 · box · salesforce

aws · okta · DUO · PAS · Google Workspace · cisco · SentinelOne

Darktrace technology works for organizations of all sizes and can be brought to virtually any environment, protecting email and cloud services, endpoints, Zero Trust technologies, and IT/OT networks

Rather than looking at each of these areas in isolation, Darktrace's cross-platform visibility and analysis gives it the context it needs to understand the full picture of a security event

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Technical Overview: AWS

- Cloud-native architecture **covering infrastructure and services in real-time**
- Seamless deployment leveraging **AWS Quick Starts, VPC mirroring, and AWS Lambda**
- Delivers coverage and defense **across all AWS services**
- **Takes autonomous action through AWS Lambda integration**

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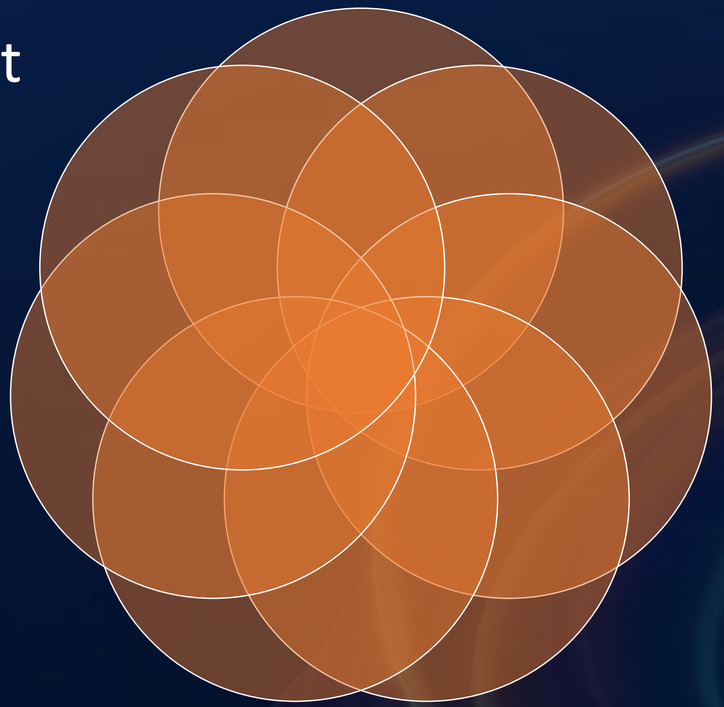
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How do we manage cyber risk?

IT asset discovery

Security event simulations

Vulnerability management



Red team exercises

(Blue and purple)

Threat intelligence

Attack surface management

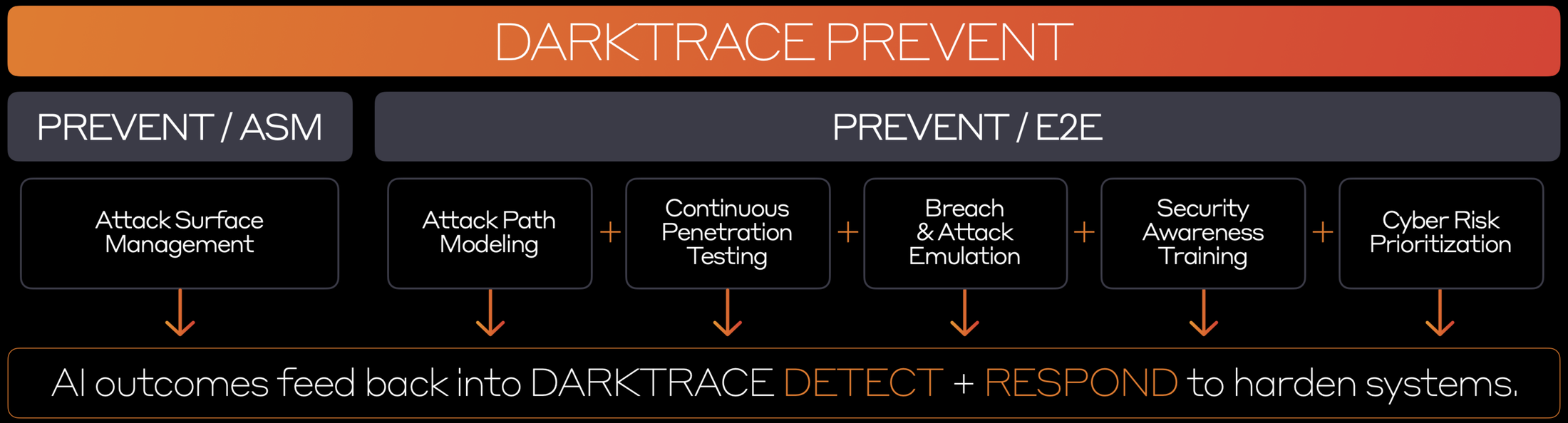
Penetration testing

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PREVENT™

Harden security inside and out



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Darktrace PREVENT/ASM use cases

Cloud risks

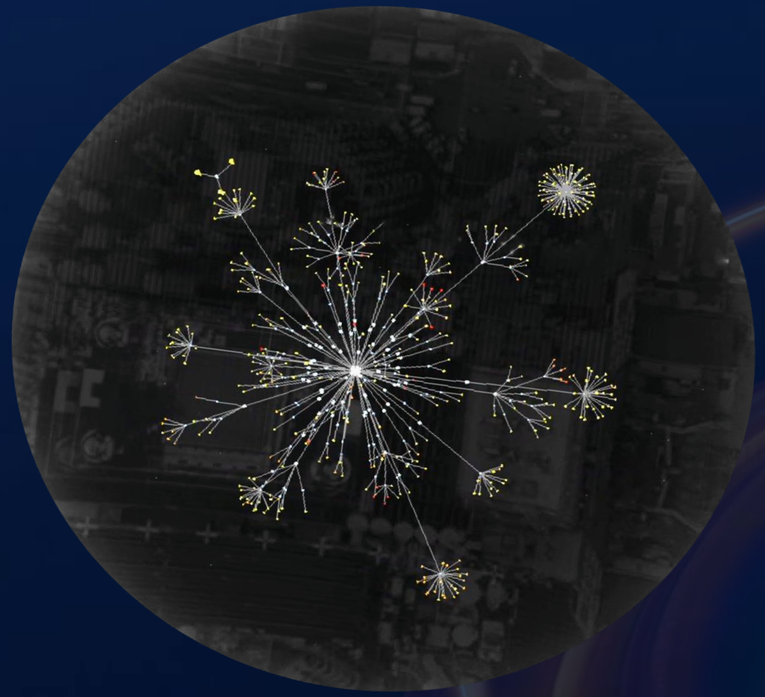
Shadow IT

IT governance

Security deficiencies

Malicious infrastructure

Misconfigurations



GDPR

Subsidiary / M&A risk

Data leaks

API security

Supply chain risk

OT security

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Thank you!

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