

Machine Learning: A Stepping Stone in the Journey to AI-Led Security

How Organizations Are Shifting to Proactive Protection



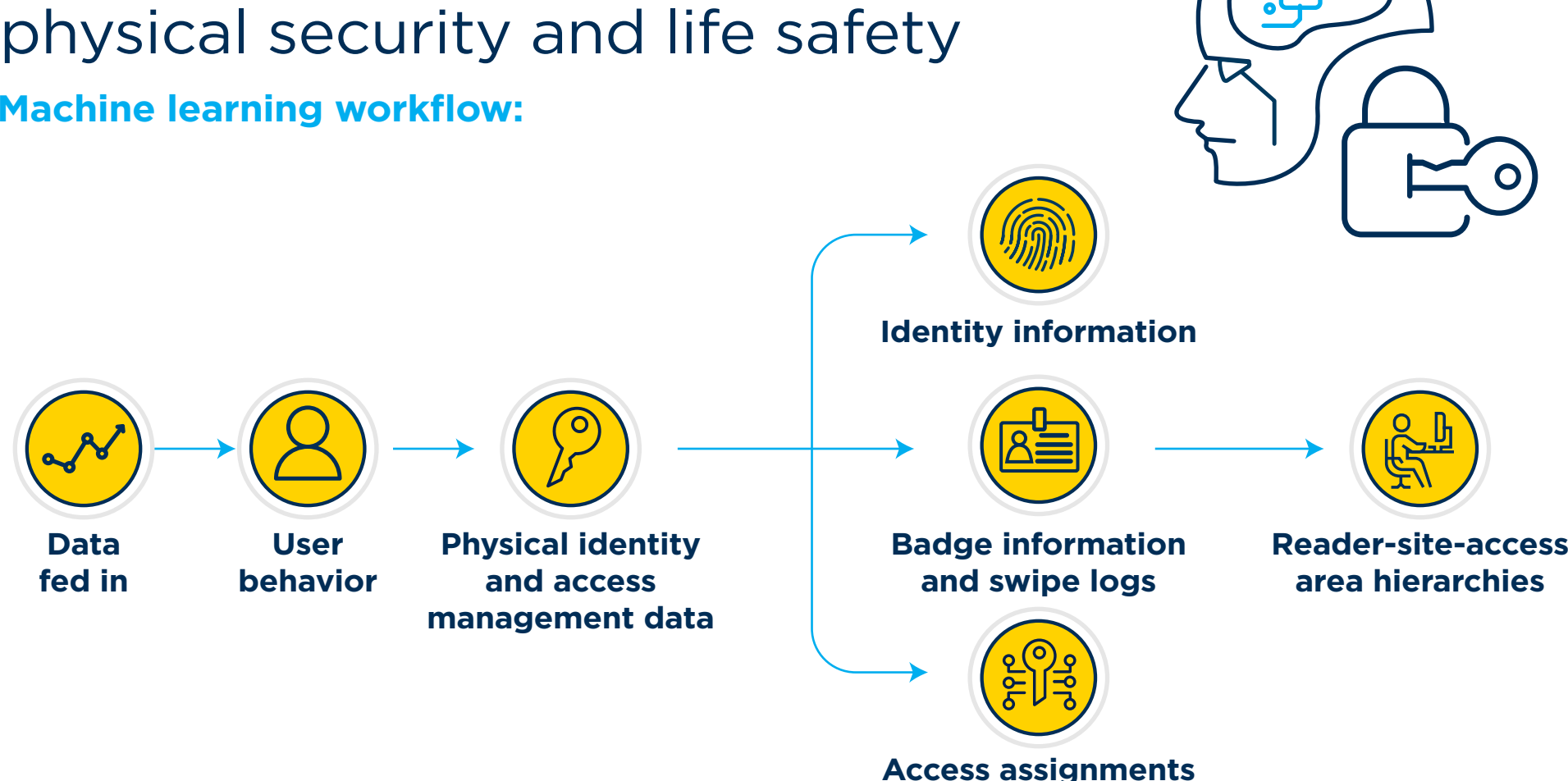
AUTOMATION IN SECURITY: ADDRESSING TODAY'S THREATS



To become a strategic partner with the business, security must evolve from a reactive entity to a proactive organization driven by automation that leverages data and analytics capabilities. Real-time security analytics, enabled by machine learning and artificial intelligence, enables organizations to reap meaningful, contextual insights from their security data.

How machine learning enhances physical security and life safety

Machine learning workflow:



Setting the ML rules

We gave the computer rules—if a person is coming in when few other people are there, that is a risk factor. If people are coming in at a time when they don't usually come in, that is a risk factor.

Building the knowledge base

The computer can then use ML to generate baseline values for each person or group: What is usual for Erica? What is usual for Dylan? What is usual for Fremont?



Machine Learning Cybersecurity Components



Predictive Strategy

A smart predictive security strategy helps answer the following questions:

- What is the automated response to tackle the threat?
- Which assets are most vulnerable and likely to be targeted?
- What is the source of the next threat?
- Which processes need improvement?

Security Spending — Automation Awareness Grows, but Slowed by Navigating Past Hurdles

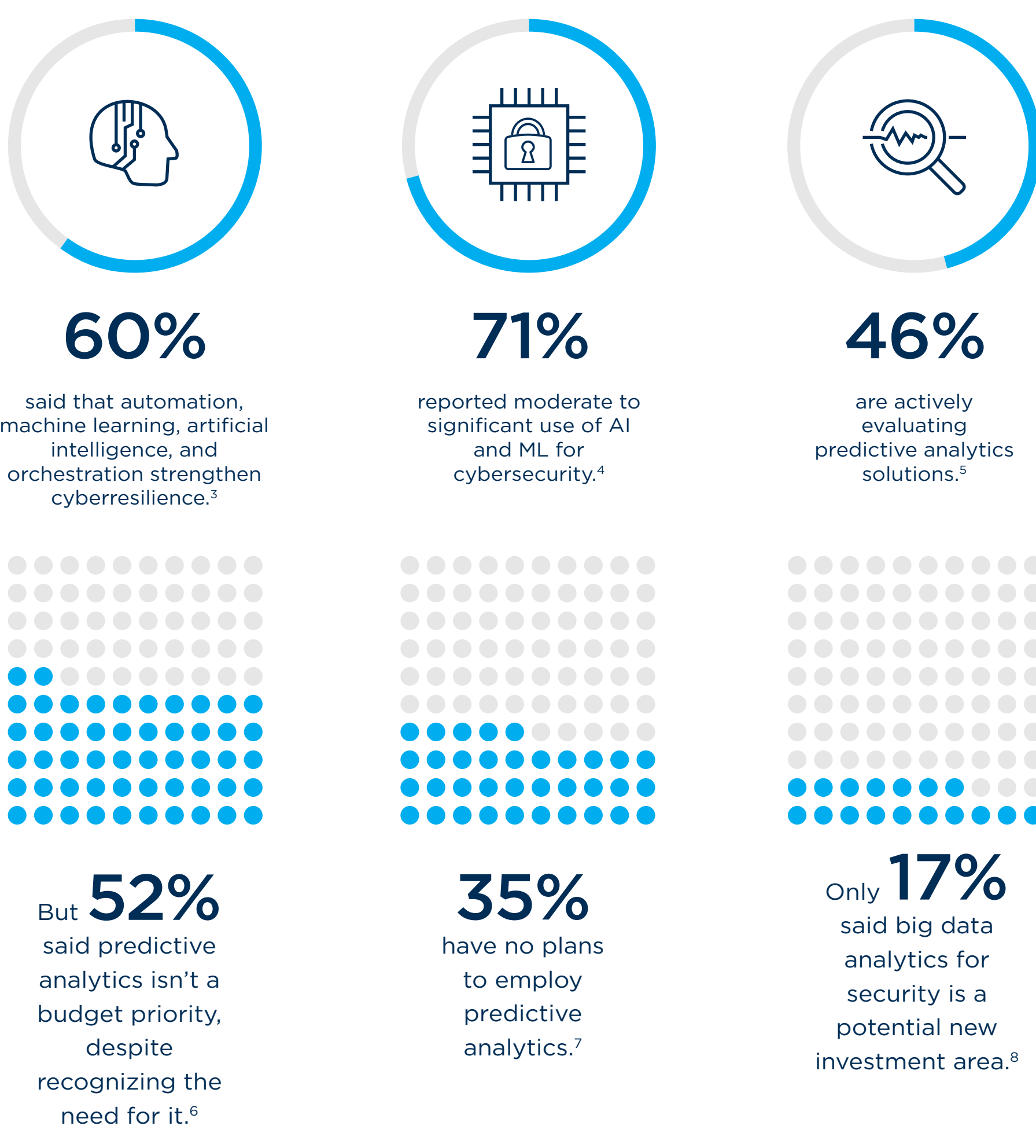


Top security investments¹



“New tech like AI and machine learning have the promise to be transformative.”²

Growth and awareness of risk analytics



The challenge

More investment needed:



Only 30%

of organizations plan to increase security risk analytics spending.⁸

What's holding back adoption?

- Slow start on data capture**
- Lack of quality data**
- Lack of expertise and understanding**
 - Leading to adoption missteps and use of AI solutions that don't solve problem at hand
- Perception that it's an all-or-nothing proposition**

Benefits



RECOMMENDATION: Start collecting data now, even if not ready to apply analytics. The bigger the pool of data, the better the analysis.

[Click here](#) to learn how security professionals are utilizing predictive analytics to prevent threats to their organizations.

Source:
¹ Alltium's recent "State of Digital Transformation" survey.
² "2019 IDG Security Priorities" study.
³ Alltium op. cit.
⁴ Ponemon Institute, "The Cyber Resilient Organization," 2019.
⁵ Security Analytics Market Research, HID SAFE, 2018.
⁶ Ibid.
⁷ IDG op. cit.
⁸ Ibid.