

# Reinventing Cybersecurity with Artificial Intelligence

The new frontier in digital security

## Artificial Intelligence-enabled cybersecurity is increasingly necessary

Cyber analysts cannot keep up with increasing cybersecurity threats

**56%**

of the firms surveyed say their cybersecurity analysts are overwhelmed

**23%**

indicate they are not able to successfully investigate all identified incidents

**42%**

report an increase in incidents through time-sensitive applications

## Organizations are increasing the pace of adoption of AI in cybersecurity

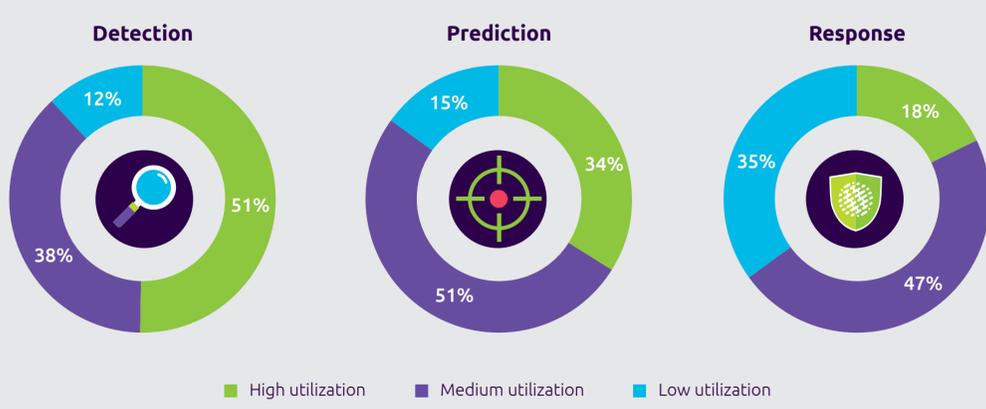
Nearly **1 in 5** organizations used AI in cybersecurity pre-2019



Almost **2 in 3** organizations plan to employ AI by 2020

### Adoption of AI for detection, prediction, and response

Please rate your organization's utilization of AI in cybersecurity for the following areas

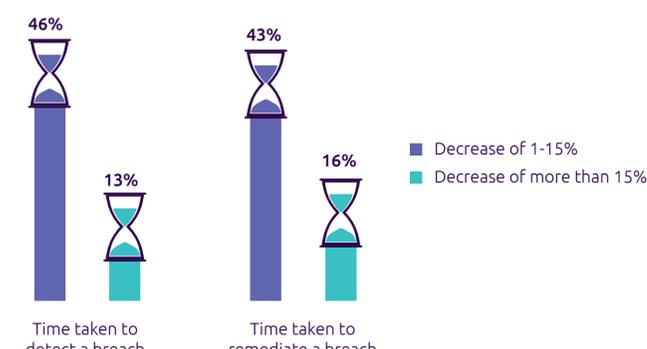


Source: Capgemini Research Institute, AI in Cybersecurity executive survey, N = 850 executives

## How organizations are benefitting from AI in cybersecurity

AI in cybersecurity leads to:

### Share of organizations that have experienced time savings



### Time savings

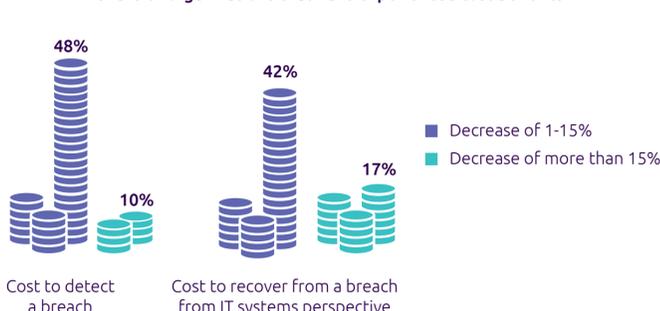
zPower, a leading rechargeable battery manufacturer, was able to contain a threat by using AI, enabling them to remove the threat and head off any attack in real-time <sup>1</sup>



### Cost savings

PetSmart, a US-based specialty retailer, was able to save up to **\$12 million** by using AI in fraud detection <sup>2</sup>

### Share of organizations that have experienced cost benefits



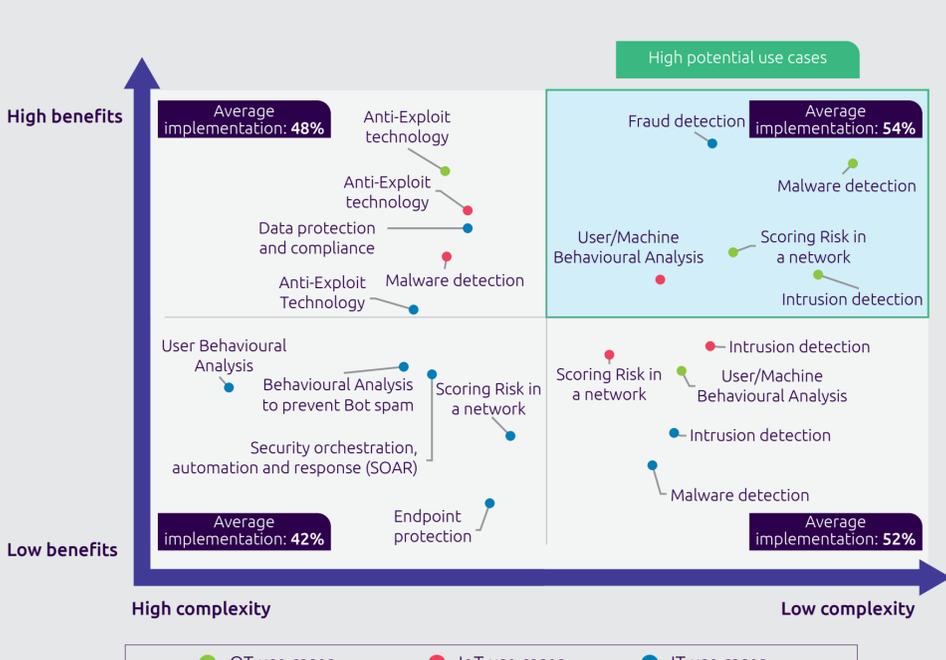
Source: Capgemini Research Institute, AI in Cybersecurity executive survey, N = 850 executives

<sup>1</sup> Darktrace, "Darktrace Stops Emerging Insider Threat at Battery Plant", October 2017

<sup>2</sup> ZDNet, "How technology is saving PetSmart millions by eliminating sales fraud", July 2018

## Where should organizations focus their AI cybersecurity initiatives?

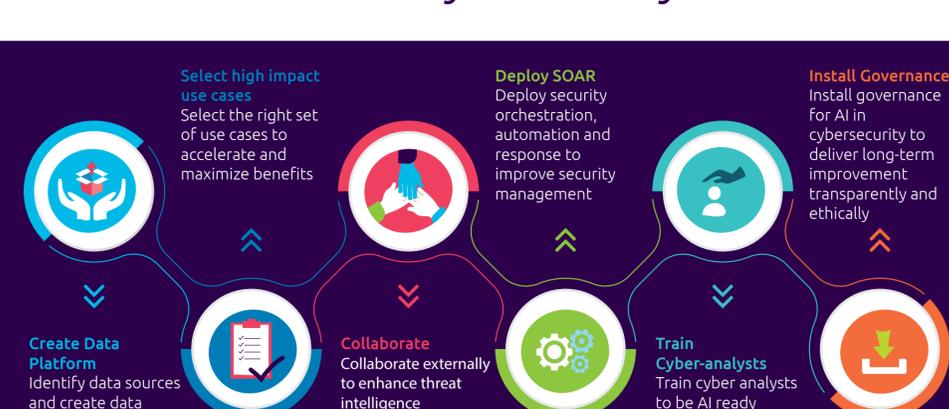
### Recommended Use Cases for AI in Cybersecurity



Source: Capgemini Research Institute, AI in Cybersecurity executive survey, N = 850 executives

Average implementation: Share of organizations who have deployed the use cases in quadrant at first level, multiple or full-scale deployment

## Building a roadmap for implementing AI in cybersecurity



Source: Capgemini Research Institute analysis

**Download Report**