

DATA-DRIVEN DECISION MAKING

Driving the Need for IIoT and Remote Sensors

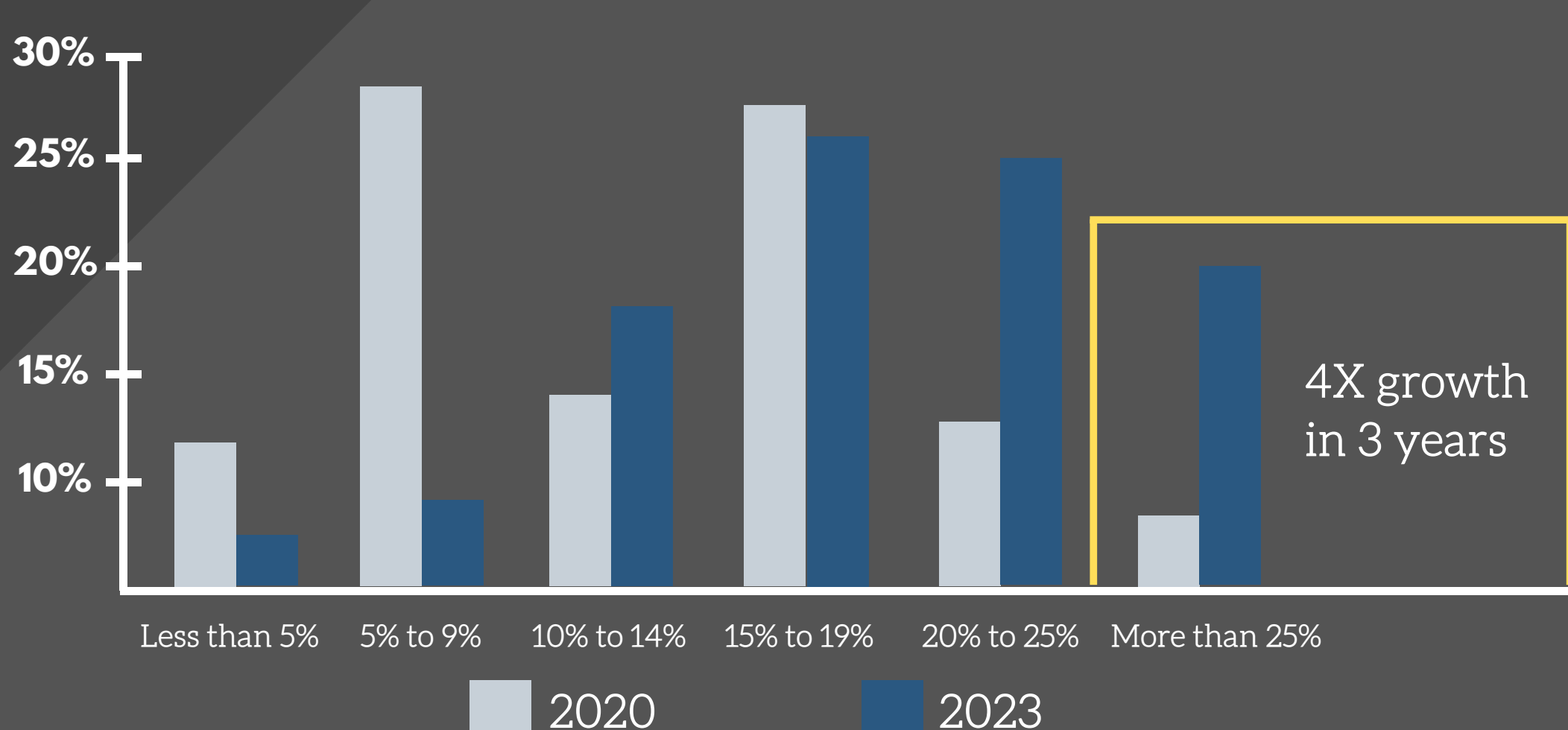
Results from a commissioned study conducted by Forrester Consulting on behalf of ATS.

FRONT RUNNERS

About **1/3** of manufacturers are currently taking a data-driven approach to machine maintenance. However, the use of IIoT sensors is expected to significantly increase in the next three years.

JUST HOW MUCH WILL SENSOR USAGE INCREASE?

Percentage of machinery/equipment with remote /IIoT sensors today compared to 2023



STRUGGLES

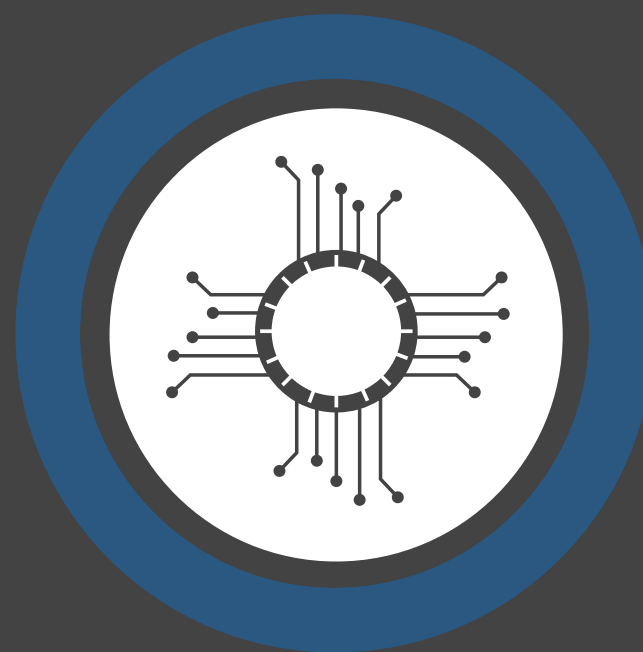
The use of IIoT technology in manufacturing is growing rapidly, but organizations must ask themselves if they have the resources in place to monitor and act on the insights from the data they are collecting.

RESPONDENTS REPORTED THEIR MOST CHALLENGING TASKS ARE...



40%

Recruiting staff with the necessary skills



39%

Integrating IIoT sensors with legacy equipment



35%

Persuading staff to believe data over instinct

55% OF COMPANIES ARE EXPERIENCING DATA OVERLOAD

Over half of respondents disclosed that they are intimidated by the amount of data they are currently collecting.

HOW ARE MANUFACTURERS SOLVING THESE CHALLENGES?

INCREASING TECHNOLOGY BUDGETS

Manufacturers are getting serious about becoming data-driven. 50% reported budget increases related to maintenance programs and technologies in 2020, and 79% said implementing emerging technologies will put them ahead of the competition.

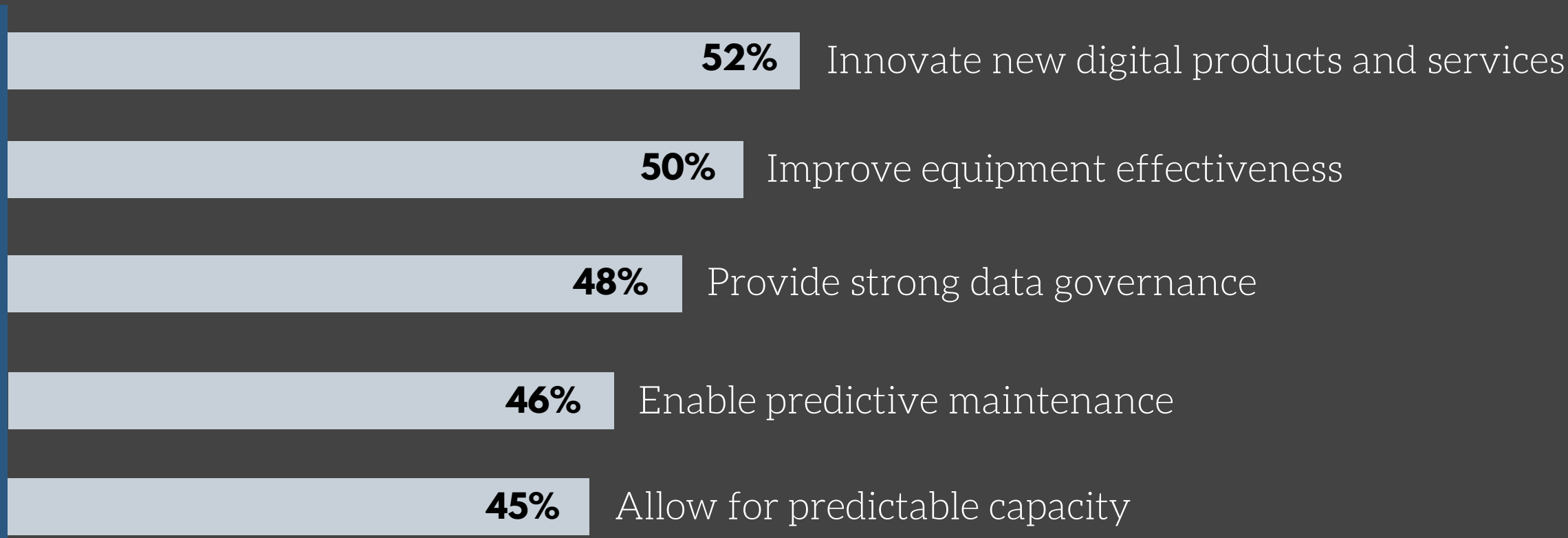
PARTNERING TO BOLSTER IN-HOUSE EFFORTS

55% of manufacturers surveyed expect to use a combination of both external partners alongside in-house resources to collect, analyze and interpret data for actionable results. Quality partnerships can help reduce skills gap challenges, improve machine reliability, and offer centralized data analysis expertise.

SENSOR BENEFITS

In the next one to three years, nearly **three-quarters** of respondents anticipate that their firms will retrofit **20%** or more of their equipment with remote sensors.

WHAT ARE THE OPERATIONAL BENEFITS OF USING SENSORS?



TECHNOLOGY BUDGETS

Manufacturers are increasing budgets to support the use of new technologies in their factories.

WITH OVER 50%

of decision-makers reporting a budget increase in maintenance-related programs and technologies in 2020.

WHAT PERCENT OF THEIR BUDGET DID THEY INCREASE?

28% Increased the budget by 1 - 5 percent

17% Increased the budget by 6 - 10 percent

5% Increased the budget more than 10 percent

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