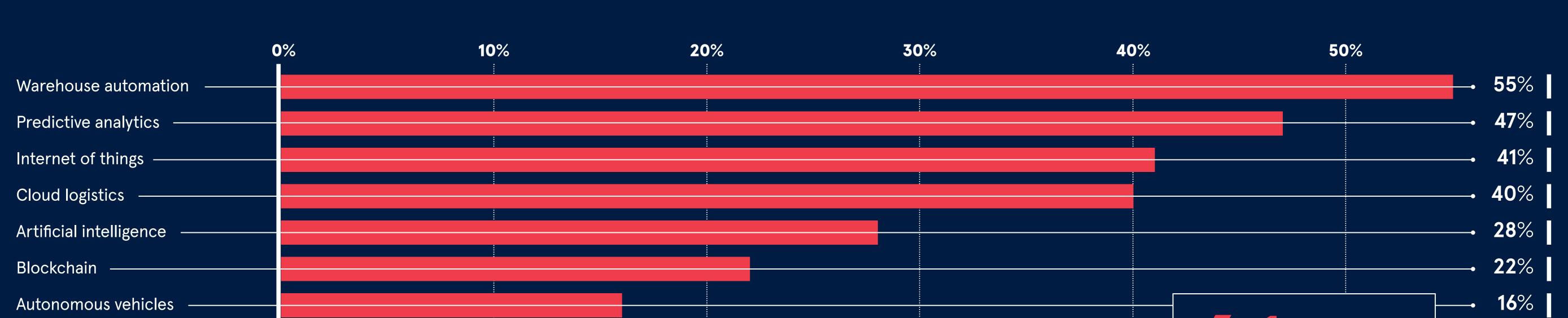
# SUPPLY CHAIN AUTOMATION

Automated technologies have been proven to speed up and streamline processes for warehouse, distribution and logistics organisations, but the majority of companies are still behind the curve in terms of investment and adoption

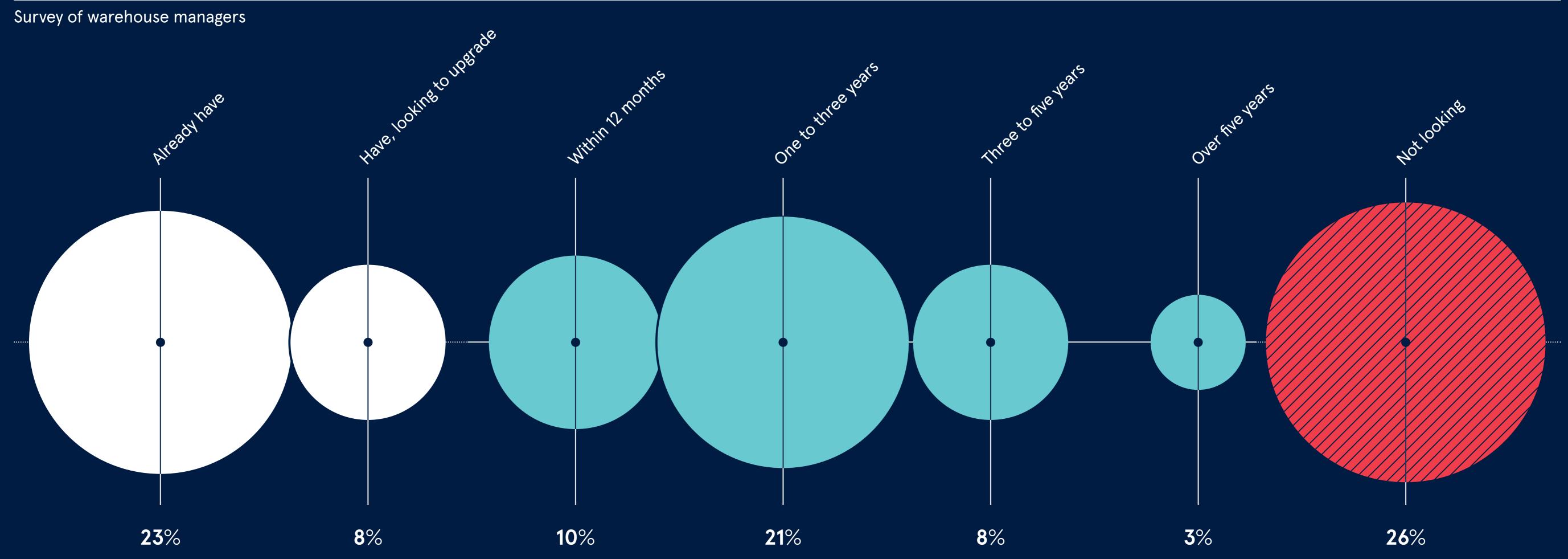
#### **FUTURE TECHNOLOGIES**



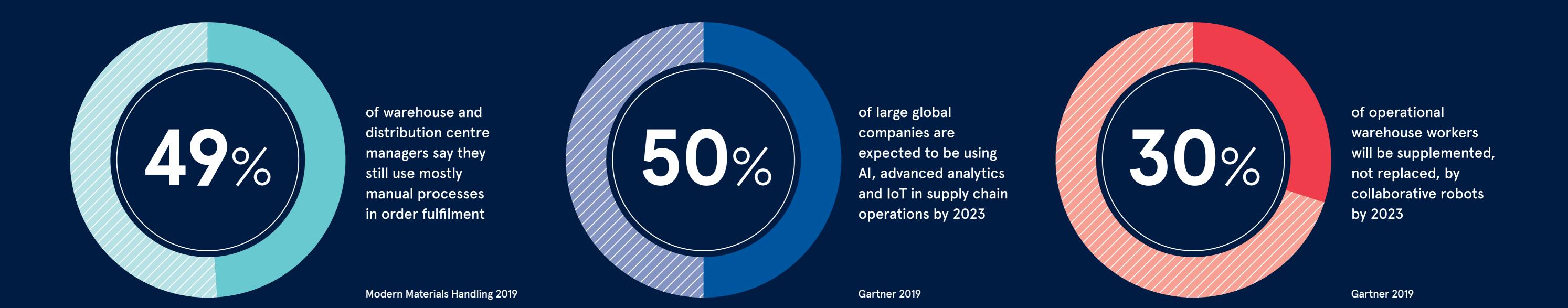
Percentage of retail, manufacturing and logistics professionals who are currently investing in the following

Machine-learning	- <b>16</b> %
Fulfilment robots	- <b>11</b> %
3D printing	- <b>10</b> %
Augmented reality	of professionals expect capacity
Drones	<ul> <li>requirements to increase over</li> <li>T%</li> <li>the next year</li> </ul>
Crowd-sourced delivery ———	<b>− 6</b> %
Virtual reality and digital twins —	EyeforTransport 2019 6%
Delivery robots	<b></b>

### TIMELINE FOR ACQUIRING NEW AUTOMATION TECH



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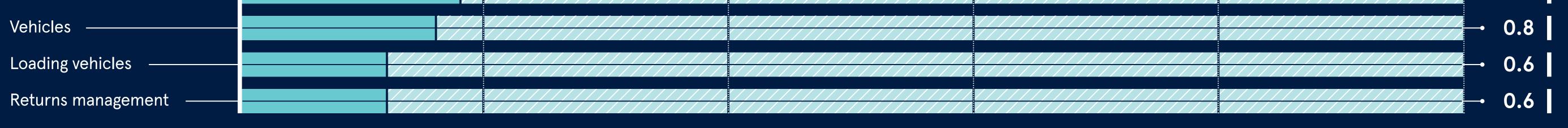


## EXTENT OF SUPPLY CHAIN AUTOMATION

Retail, manufacturing and logistics professionals ranked the degree of their supply chain automation; using a scale of one to five, with five representing full automation and zero fully manual processes

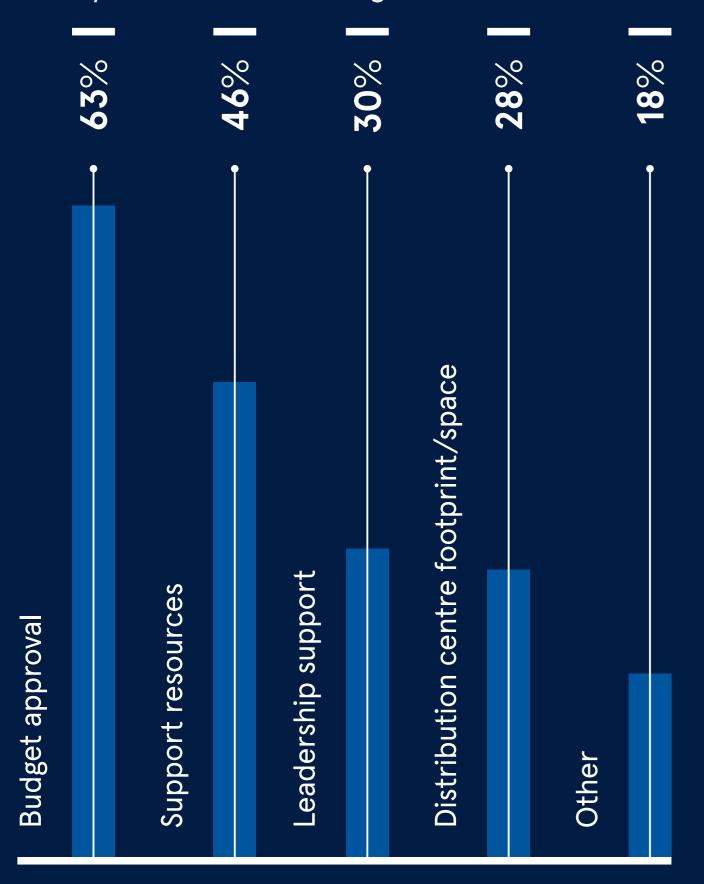
**O** | Manual Automated | 5 2 3 Data interchange 1.9 Manufacturing 1.8 **—**• Data analysis 1.5 -Forecasting 1.5 Back-office processes 1.5 Routing 1.5 -Visibility 1.4 -Warehouse management — 1.4 -• Inventory management — 1.4 Fulfilment 1.3 ----• 1.2 Picking and packing **→** 0.9 Cross-docking –

EyeforTransport 2019



### TOP BARRIERS FOR WAREHOUSE AUTOMATION

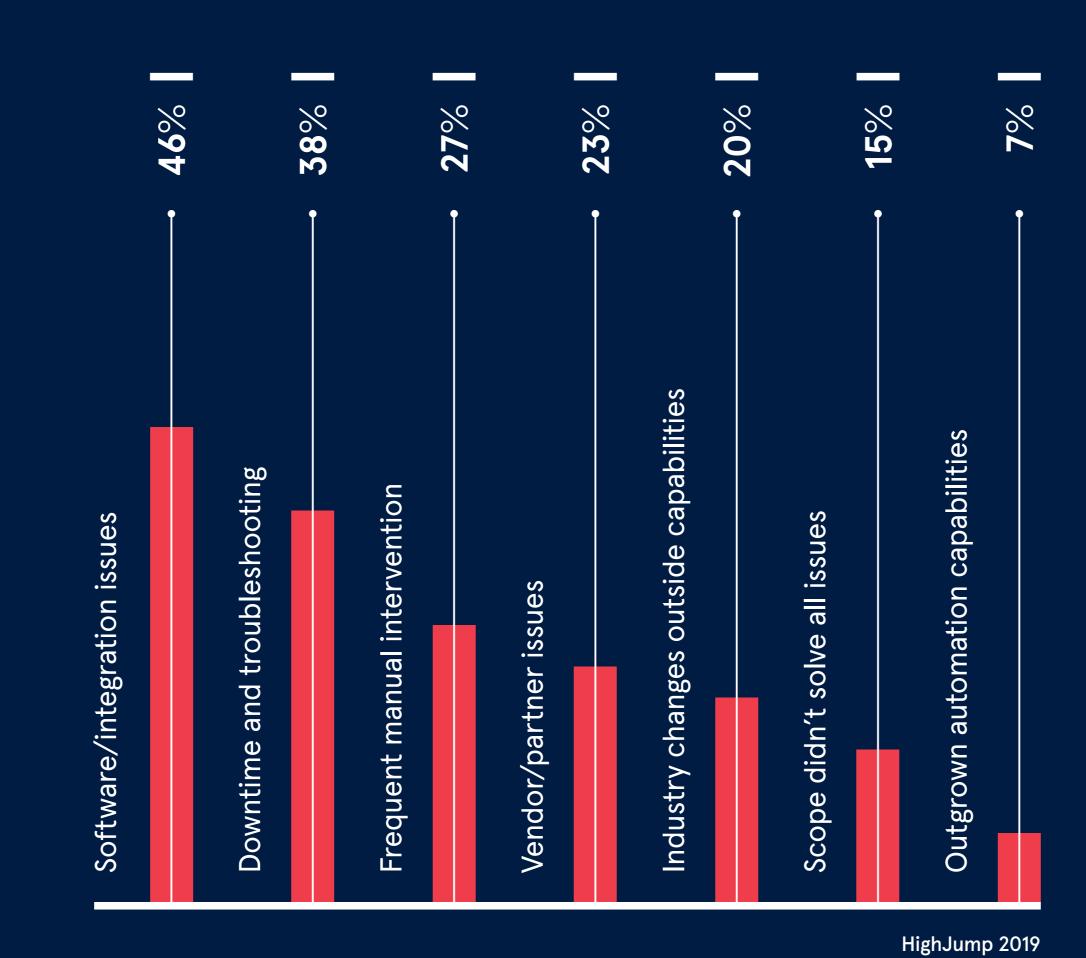
Survey of warehouse managers



HighJump 2019

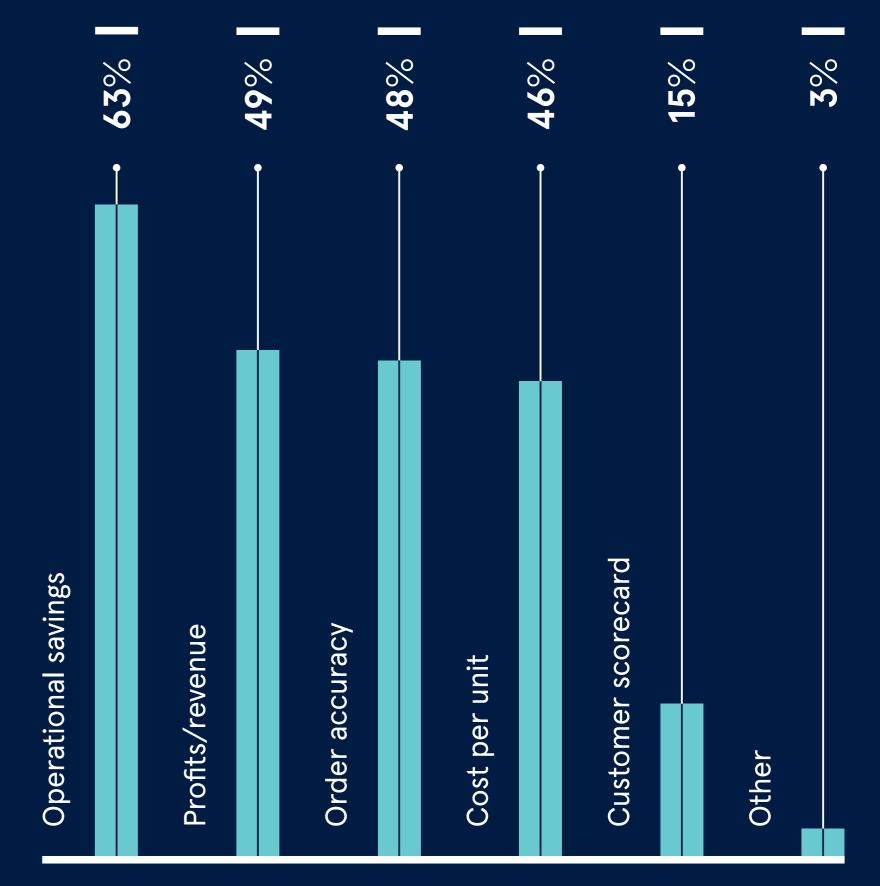
AUTOMATION PERFORMANCE CHALLENGES

Survey of warehouse managers



# HOW AUTOMATION ROLIS MEASURED

Survey of warehouse managers



HighJump 2019

# RACONTEUR