



# A Faster Path to Value from AI in the Commercial Vehicle Aftermarket

MARCH 2026



# Across the value chain, the top reported challenges point to three main imperatives in 2026 and beyond

## Most significant challenges for suppliers

Navigating trade and tariff challenges	80%
Demand volatility or forecasting difficulties	80%
Rising material, energy, or logistics costs	56%
Supplier delays or input shortages affecting production schedules	40%
Inefficient processes or production bottlenecks	40%

## Most significant challenges for distributors, dealers, and ISPs

Difficulty sourcing parts or dealing with suppliers' long lead times	53%
Rising service and labor costs impacting profitability	50%
Increasing customer expectations for faster delivery or response times	44%
Pressure on pricing and margins due to competition	44%
Skill gaps among counter staff, sales teams, or technicians	38%

## Core imperatives



**Controlling costs and margin pressure**



**Improving forecasting and predictability**



**Increasing service quality and reliability**

**Sources:** BCG's Commercial-Vehicle Aftermarket Survey, 2025; interviews with industry leaders.

**Note:** ISP = independent service provider.

**Survey question:** Specific to your commercial-vehicle aftermarket parts production or remanufacturing operations, what are the most significant challenges you face today? Select and rank the top five.

# The ten highest-value AI use cases can help address the industry's core imperatives

## Controlling costs and margin pressure

**40%** Smarter pricing and cost modeling (suppliers, distributors, and ISPs)

**28%** Process and production optimization (suppliers)

**27%** Warranty and return analytics (distributors and ISPs)

## Improving forecasting and predictability

**68%** Demand forecasting and inventory optimization (suppliers)

**38%** Demand forecasting and inventory optimization (distributors and ISPs)

**38%** Predictive service scheduling (distributors and ISPs)

## Increasing service quality and reliability

**56%** Automated parts cross-referencing (distributors and ISPs)

**38%** Customer-support automation (distributors and ISPs)

**32%** Intelligent order processing and automation (distributors and ISPs)

**32%** Marketing- and product-content creation (distributors and ISPs)

● Respondents    ■ Highest-value use cases

**Sources:** BCG's Commercial-Vehicle Aftermarket Survey, 2025; interviews with industry leaders.

**Note:** ISP = independent service provider.

**Survey question:** Which of the following areas represent the highest-value opportunities for AI within the part of the value chain you primarily serve? Select the top three.

# Implementing the highest-value AI use cases can unlock significant value for the commercial vehicle value chain

## Overall commercial-vehicle aftermarket value chain is \$50 billion

	Wholesale parts	Distribution	Retail parts
Market	\$26B	\$40B	\$50B
COGS	\$19B	\$26B	\$40B
Average margin	27%	35%	20%

Focusing on the right AI use cases can unlock transformative cost efficiencies for the total value chain, resulting in

**\$3.5B** in cost efficiencies

plus incremental benefits to top lines and service records for first movers

**Sources:** MacKay & Company, 2025; BCG analysis.

**Note:** COGS = cost of goods sold. Calculated based on a company with \$500 million in revenue: \$15 million impact at the wholesale parts level, \$29 million impact at the distributor level, and \$45 million impact at the retailer level.

# First movers have the opportunity to capture significant advantages



KPIs



Suppliers



Distributors



Retailers

<b>Smarter pricing and cost modeling</b>	Revenue	~\$8M	~\$15M	~\$22M
<b>Demand forecasting and inventory optimization</b>	Inventory cost	~\$7M	~\$9M	~\$15M
<b>Automated parts cross-referencing</b>	Administrative cost	NA	~\$4M	~\$7M
	<b>Total impact</b>	<b>\$15M</b>	<b>~\$28M</b>	<b>~\$45M</b>

Sources: MacKay & Company, 2025; BCG case experience and analysis.  
 Note: Illustrative. Calculated based on \$500 million in sales per year. NA = not applicable.

Most companies are increasing their AI investment, but only a small fraction are unlocking meaningful value from it

70%

Share of respondents who are investing in AI

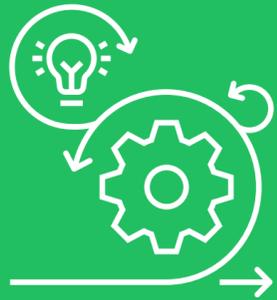
14%

Share of respondents who have generated value from existing investments

**Sources:** BCG's Commercial-Vehicle Aftermarket Survey, 2025; interviews with industry leaders.

**Survey question:** How would you characterize the business impact of your organization's AI initiatives so far?

AI-driven precision, speed, scale, and predictability make new outcomes possible for the commercial vehicle aftermarket's top use cases



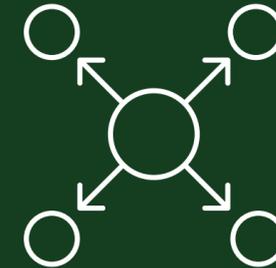
## Smarter pricing and cost modeling

Builds a **predictive and self-optimizing price elasticity engine** that balances growth, margin, and customer context



## Demand forecasting and inventory optimization

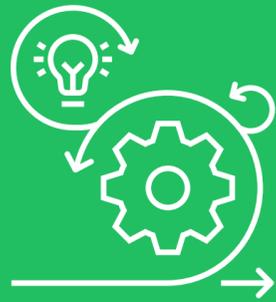
Enables transforming reactive, averages-based processes into **predictive models that anticipate demand shifts and geopolitical factors and optimizes** to locations, products, and more



## Automated parts cross-referencing

Scale beyond tribal knowledge to **unlock faster and more accurate service for parts ordering**, with lower costs and reduced return rates

# AI-driven pricing and cost modeling enables first-mover companies to increase revenue and profits



Smarter  
pricing and  
cost modeling

## Execution pain points

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Manual cost and vendor inputs

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Limited competitive price scraping

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Low maturity of price modeling capabilities

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Simple cost-plus for long-tail SKUs

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## AI-driven improvements

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Continuous optimization that incorporates real-time costs and market shifts

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Always-on competitor intelligence across long-tail SKUs

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Advanced predictive modeling to analyze elasticity

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Autonomous pricing using volume mix analysis to optimize for individual SKUs

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# AI-driven demand forecasting and inventory optimization improves accuracy and scalability



## Demand forecasting and inventory optimization

### Execution pain points

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Input data quality and completeness issues

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Difficult to integrate macroeconomic factors

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Highly manual processes using spreadsheets

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Limited ability to drive predictive modeling

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### AI-driven improvements

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Automated data compilation and cleansing across first-party and third-party sources

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Integration of market-level trends and geopolitical factors

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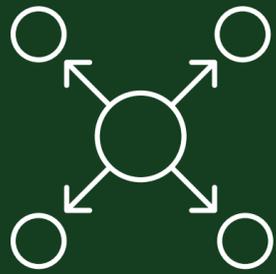
Analysis completed by AI, leveraging human expertise for strategic refinement

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Automated predictive model continuously optimizes to complex variables and unique context

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# AI-driven automated parts cross-referencing enables faster and more accurate parts ordering



## Automated parts cross-referencing

### Execution pain points

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Incomplete parts data catalog across independent aftermarket and OEM supersessions and discontinuations

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Compatibility data often depends on expert knowledge

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### AI-driven improvements

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GenAI standardizes attributes and fills gaps from supplier feeds and part supersessions

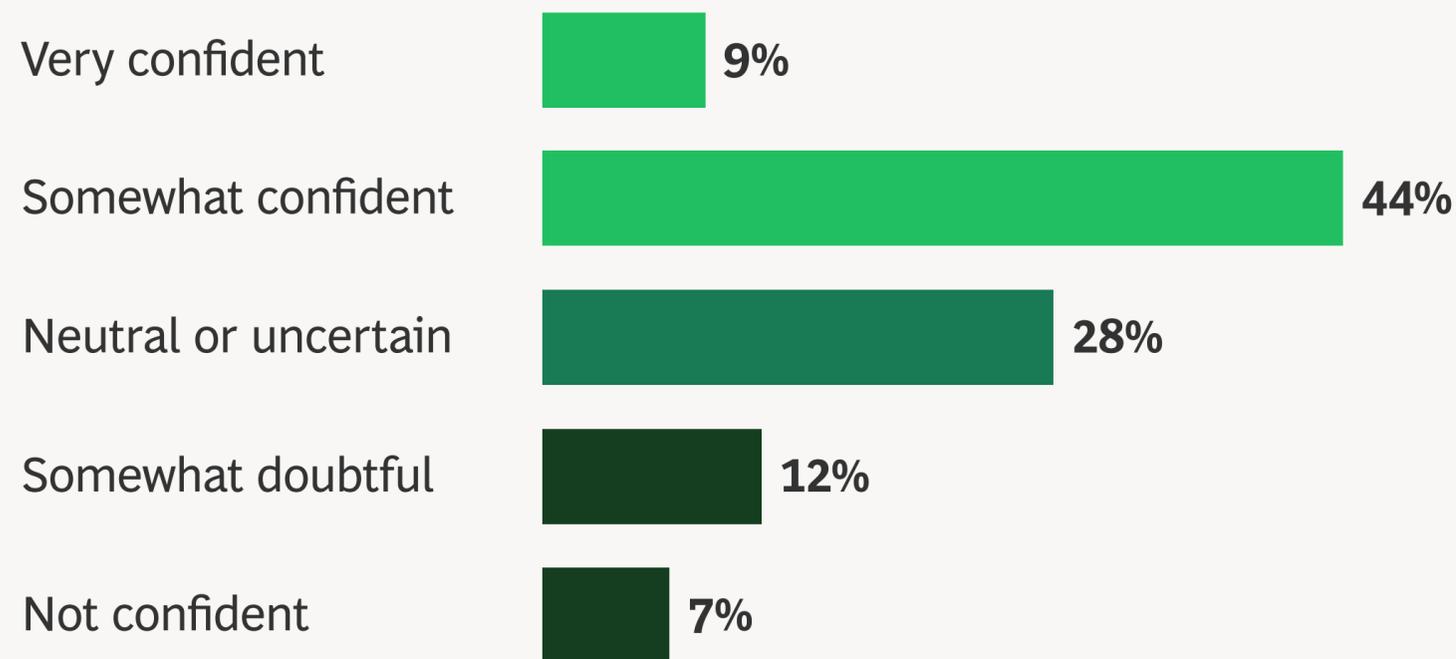
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AI lookup tool and agents complete real-time, accurate lookups across systems

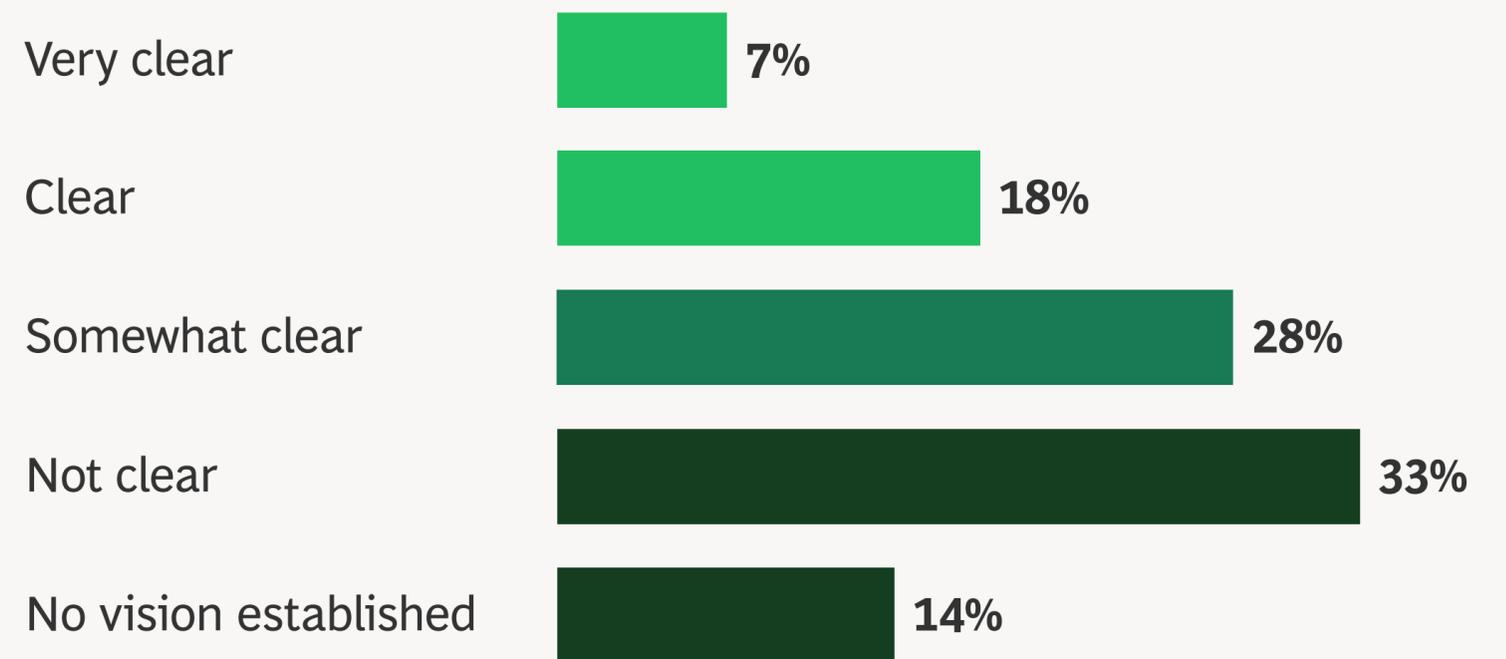
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# Most companies are certain about scaling AI in the near term but less clear on their long-term vision or AI's connection to business value

RESPONDENTS' CONFIDENCE IN SCALING AI OVER NEXT THREE YEARS (%)



RESPONDENTS' VIEW OF COMPANY'S LONG-TERM VISION FOR HOW AI WILL CREATE VALUE (%)



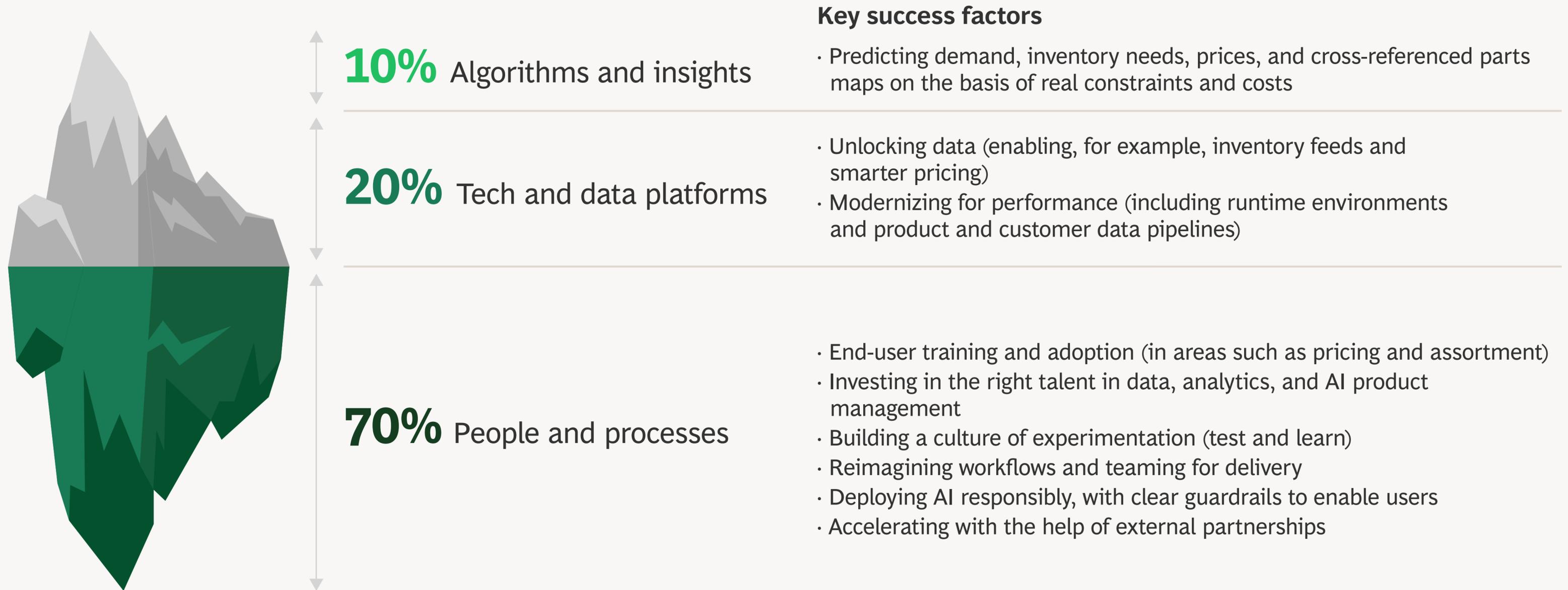
Companies need to link AI to business challenges, objectives, and strategy to generate value from it

Sources: BCG's Commercial-Vehicle Aftermarket Survey, 2025; interviews with industry leaders.

Survey question: How confident are you that your organization has the capabilities needed to scale AI successfully over the next three years? Select one.

Survey question: How clear is your organization's long-term vision for how AI can or will create value for your business? Select one.

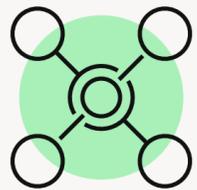
# Technology is only a small driver of success; 70% of a company's focus must be on enabling people and redesigning processes and workflows



Source: BCG's Global Study on AI and Digital Maturity, 2024; n = 1,000.

Survey question: What is your company's maturity across 53 capability questions covering strategy, innovation, customer experience, operations, tech, data, operating model, and people?

# Four priorities can help aftermarket players address their core challenges and realize value from AI



## Four priorities

### Value-driven strategy and planning

#### Define clear outcomes

- Identify strategic priorities and value drivers
- Select targets
- Zero in on two to five AI use cases that support strategic priorities

#### Prioritize AI use cases

- Select the highest-value area for a pilot
- Establish a baseline to track use case impact

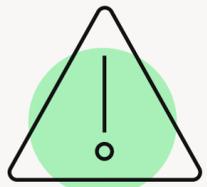
### Implementing for success

#### Launch a pilot to validate value

- Start with a small pilot
- Measure the impact and collect feedback
- Refine the pilot before scaling

#### Scale up using the 10-20-70 approach

- Focus 70% of the effort on people and processes
- Launch a change management program
- Report the impact and optimize over time



## Respondents' top challenges

- Prioritizing the right use cases (**50%**)
- Understanding the costs of solutions (**40%**)
- Lacking clear success criteria (**40%**)

- Limited skills or expertise (**37%**)
- Quality and accuracy of AI outputs (**33%**)
- Difficulty proving ROI (**32%**)

**Sources:** BCG's Commercial-Vehicle Aftermarket Survey, 2025; interviews with industry leaders; BCG analysis.

**Survey question:** What types of strategic and planning decisions about AI are most difficult for your organization right now?

**Survey question:** Please denote what, if any, of the following implementation-related challenges have arisen as your organization has undertaken recent AI initiatives. Select all that apply.