

# RETHINK, REINVENT, REALIZE.

How to successfully scale digital  
innovation to drive growth

AUTOMOTIVE – OES



# THE IDEA: FIND INDUSTRY X.O BEST PRACTICES!

## OUR PREMISE AND RESEARCH QUESTION

When it comes to digital transformation, scaling innovation pilots is critical.

Yet many clients tell us that they are struggling with this very step – and feel that they might get stuck with “piecemeal projects” that don’t deliver significant value.

**Can we find key best practices that could help them overcome their challenges, and drive real change, for real new growth?**



## GLOBAL SURVEY AT-A-GLANCE

**n=1,350**  
responses from  
companies with  
1bn+ in revenue

**60%**  
C-suite respondents

**13** industries  
and **17** countries



## AUTOMOTIVE – OES AT-A-GLANCE

**n=108**  
responses  
from  
companies  
with  
1bn+ in  
revenue

**57%**  
C-suite respondents

**13**  
countries

# THE RESULT: IT'S ALL A MATTER OF MANAGEMENT!

## OUR KEY FINDINGS

**Companies are scaling more than 60 percent of all digital PoCs**, but less than two out of ten companies are doing it successfully.

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### A SURPRISE!

(we didn't expect to find that many companies trying to scale!)

What's the difference?  
**The leading 15 percent manage their scaling efforts differently.**

Following the **four best practices** of these "Champions" is a recipe to **succeed at innovating for digital transformation.**

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### THE REASON TO READ!

(these best practices are what readers will come for)

**Q:**

**WHAT'S THE CURRENT STATUS  
IN SCALING DIGITAL  
INNOVATION?**

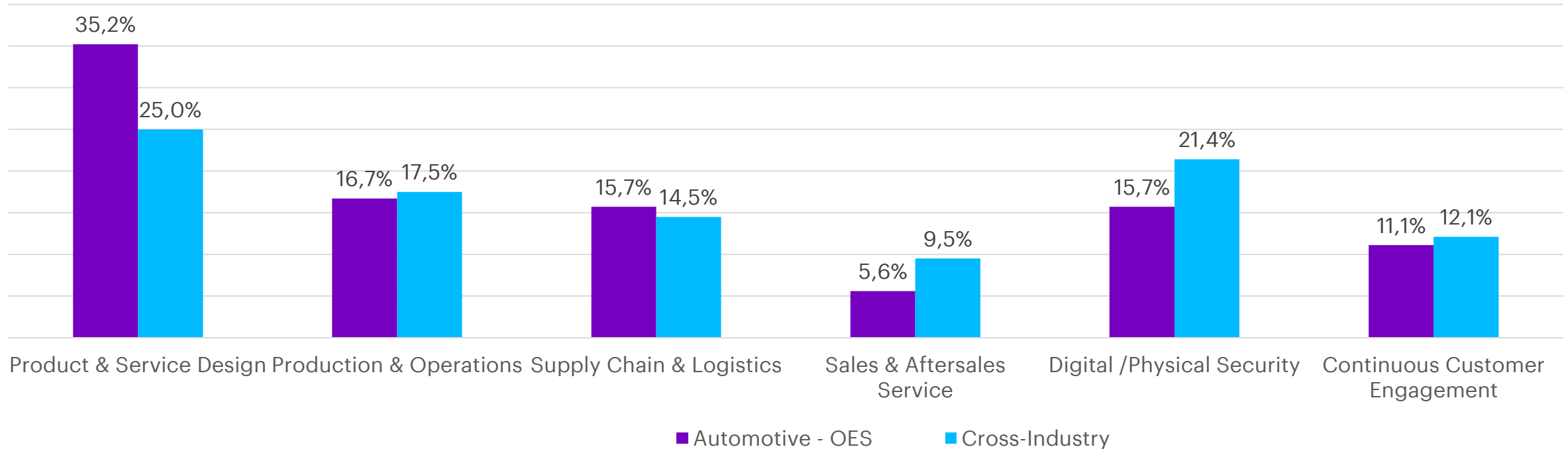
**A:**

**THINGS ARE SPEEDING UP – IN  
SURPRISING WAYS.**

# DESIGN AND PRODUCTION AND OPERATIONS ARE INNOVATION PRIORITIES FOR AUTO-OES COMPANIES

Design is an obvious innovation priority as they focus deeply on product quality and features. Production & Operations is a close second due to the emphasis on streamlined manufacturing operations and rapid turnaround.

## INNOVATION PRIORITY\*

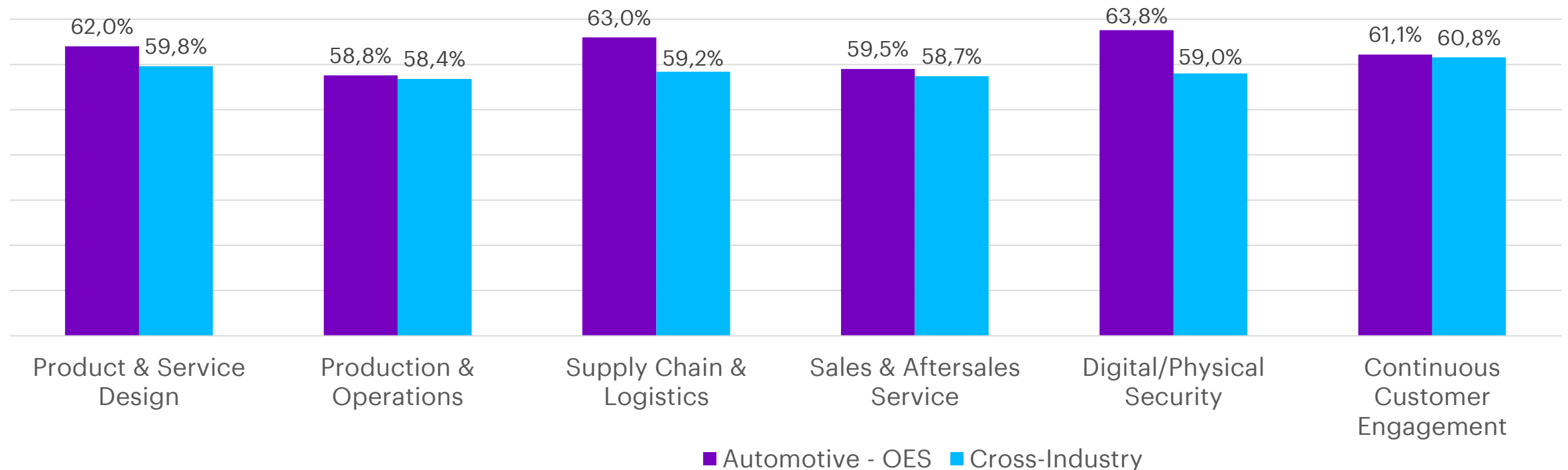


\* "innovation priority" = percentage of respondents who are prioritizing digital innovation in these business areas

# AUTOMOTIVE – OES COMPANIES ARE SCALING DIGITAL POCs ACROSS BUSINESS FUNCTIONS

**Automotive – OES manufacturers are almost evenly scaling digital POCs across key business areas**

## SCALING INTENSITY\*



\* "scaling intensity" = ratio of avg. number of proof of concepts scaled to avg. number initiated in each business function, across discrete and process industries.

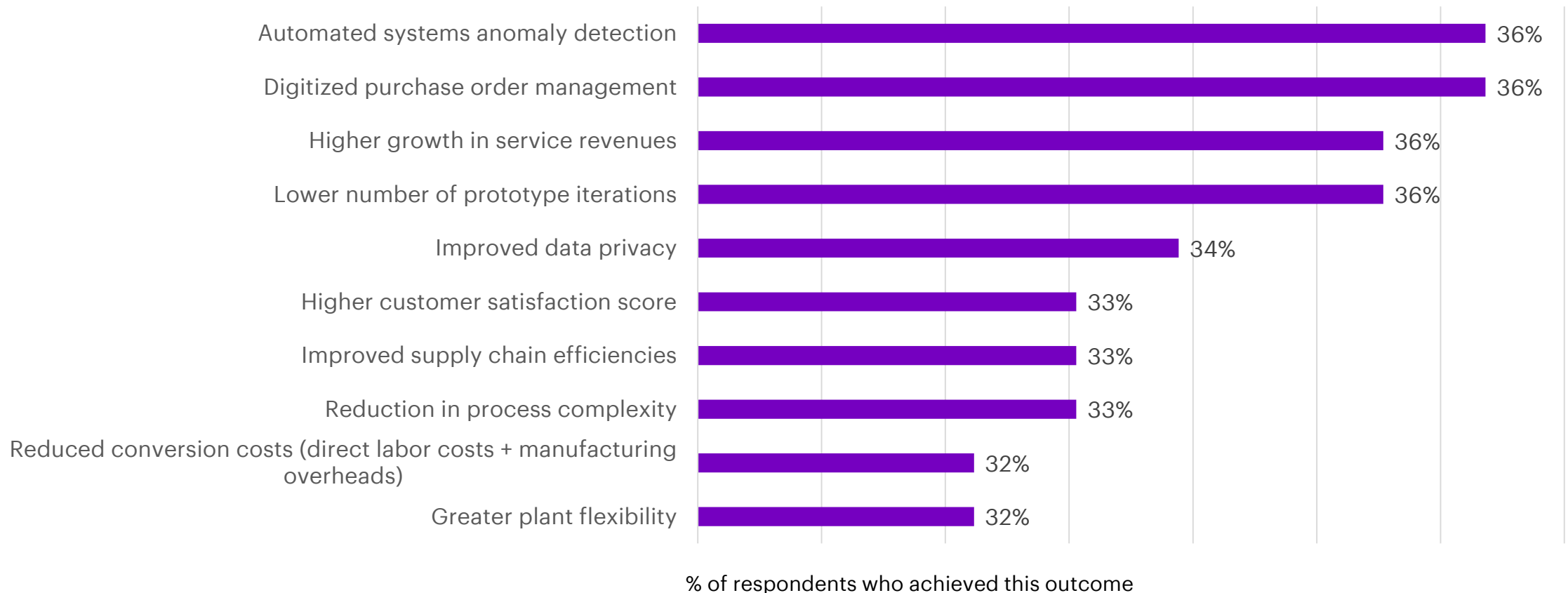
# AUTOMOTIVE – OES COMPANIES RECOGNIZE THE NEED FOR INNOVATING AT SCALE TO:

| Operate at speed with an **innovative and robust supply chain**, and

| Continuously **deliver reliable and connected products to the customers.**

# ANOMALY DETECTION AND PURCHASE ORDER MANAGEMENT ARE KEY OUTCOMES...

## Top 10 outcomes targeted by Automotive – OES companies through scaling of digital PoCs



# ...AND THEY ARE CHOOSING BIG DATA ANALYTICS, AR/VR & CLOUD TO DRIVE THESE OUTCOMES

## Top 3 technologies leveraged to facilitate scaling, by function

	PRODUCT & SERVICE DESIGN	PRODUCTION & OPERATIONS	SUPPLY CHAIN & LOGISTICS	SALES & AFTERSALES SERVICE	DIGITAL/ PHYSICAL SECURITY	CONTINUOUS CUSTOMER ENGAGEMENT
AI/Al-powered Automation		<b>RANK 1</b>				
AI Assistants						
3D printing						
Mobility						
IIOT Sensors & Transmitters						
Immersive Experience			<b>RANK 3</b>			<b>RANK 1</b>
Industrial Robotics						
Big Data Analytics		<b>RANK 3</b>		<b>RANK 1</b>	<b>RANK 2</b>	<b>RANK 2</b>
Digital Twin						
Cloud	<b>RANK 1</b>					<b>RANK 3</b>
Blockchain				<b>RANK 2</b>	<b>RANK 3</b>	
Autonomous Vehicles	<b>RANK 3</b>		<b>RANK 1</b>			
Machine Learning/Deep Learning	<b>RANK 2</b>		<b>RANK 2</b>			
Quantum Computing				<b>RANK 3</b>		
Cyber Security Protocols		<b>RANK 2</b>			<b>RANK 1</b>	

**Q:**

**WHAT ABOUT SCALING  
SUCCESS – DOES EVERYONE  
SEE IT?**

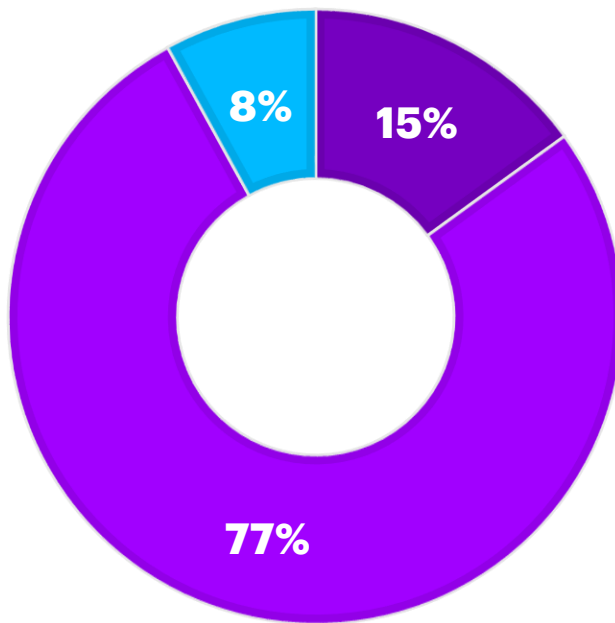
**A:**

**NO. SOME COMPANIES RACE  
AHEAD, OTHERS STRUGGLE.**

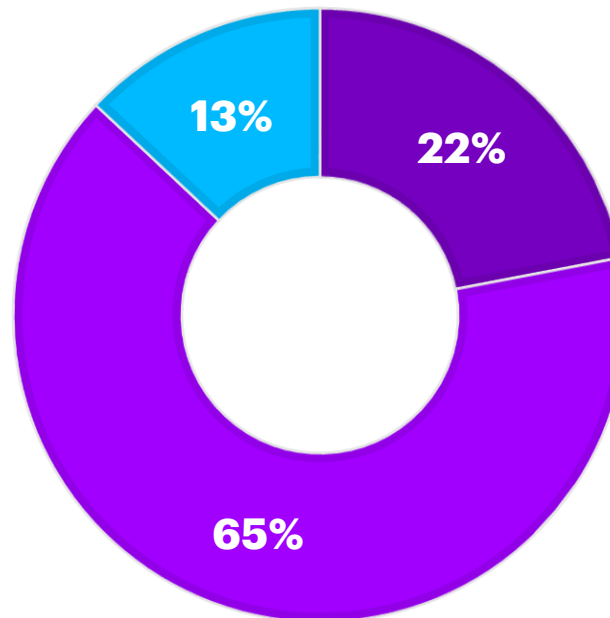
# SO, WHO'S SCALING THE BEST?

The Automotive – OES industry has a lower percentage of Champions compared to the global average

**AUTOMOTIVE - OES**



**CROSS-INDUSTRY**



## **CHAMPIONS**

Earn RODI higher than industry ROIC and industry RODI; scale more than 50% of their digital Proof-of-Concepts

## **CONTENDERS**

Earn RODI lower than industry ROIC and lower than industry RODI; scale more than 50% of their PoCs

## **CADETS**

Earn RODI lower than industry ROIC and lower than industry RODI; scale less than 50% of their PoCs

\*Percentage of champions in each geography =  $100 \times (\text{The number of champions in a particular geography}) / (\text{Total number of companies surveyed in that particular geography})$

\*\*Percentage of champions in each industry =  $100 \times (\text{The number of champions in a particular industry}) / (\text{Total number of companies surveyed in that particular industry})$

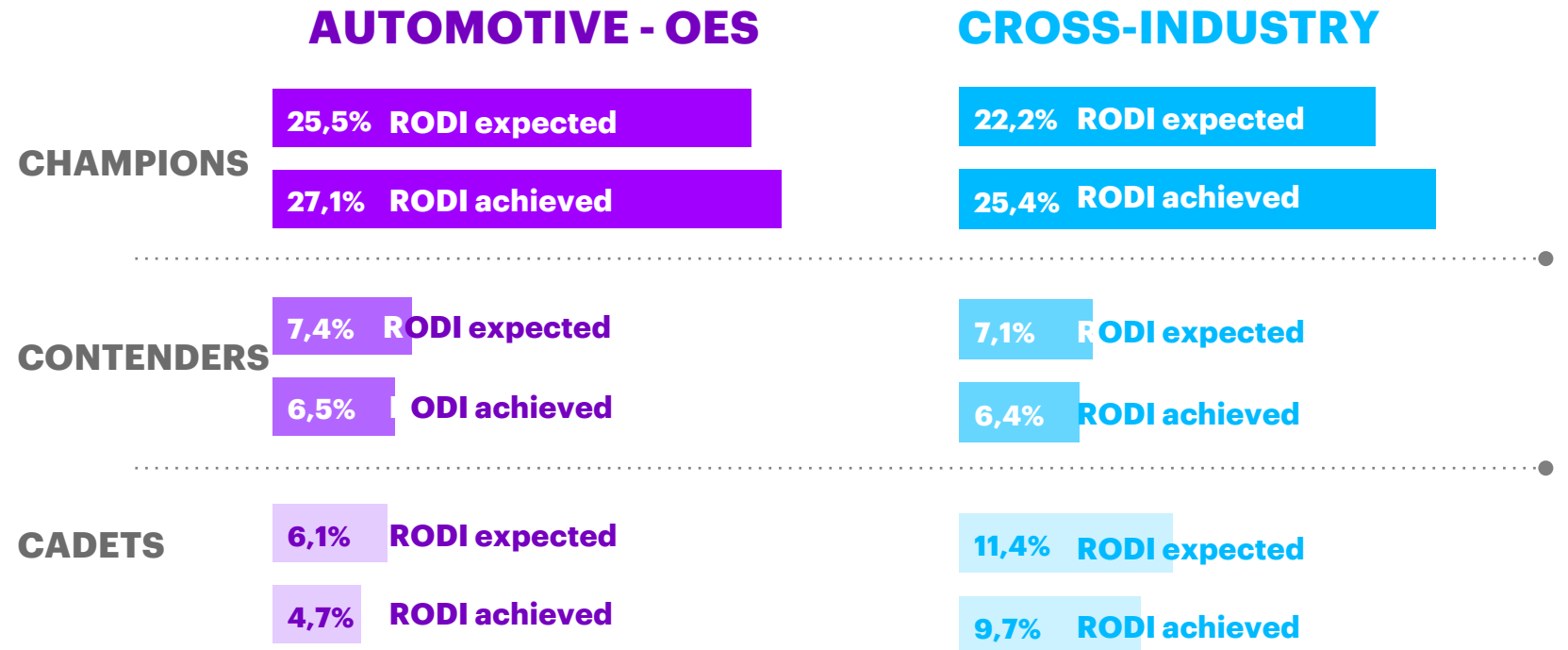
# AUTO-OES CHAMPIONS SET THEMSELVES HIGHER “RODI” TARGETS AND ACHIEVE THEM TOO.

**Automotive – OES Champions achieved over 4 times the RODI clocked by Contenders; proving that its not how much you scale, but how you scale that matters**

## Returns on Digital Investment (RODI)

RODI = Returns on Investment (Net Gain/Total Investment) from scaled digital PoCs across all the key business functions.

We asked executives about the average RODI they expected before scaling digital PoCs, and the RODI they finally achieved.



**Q:**

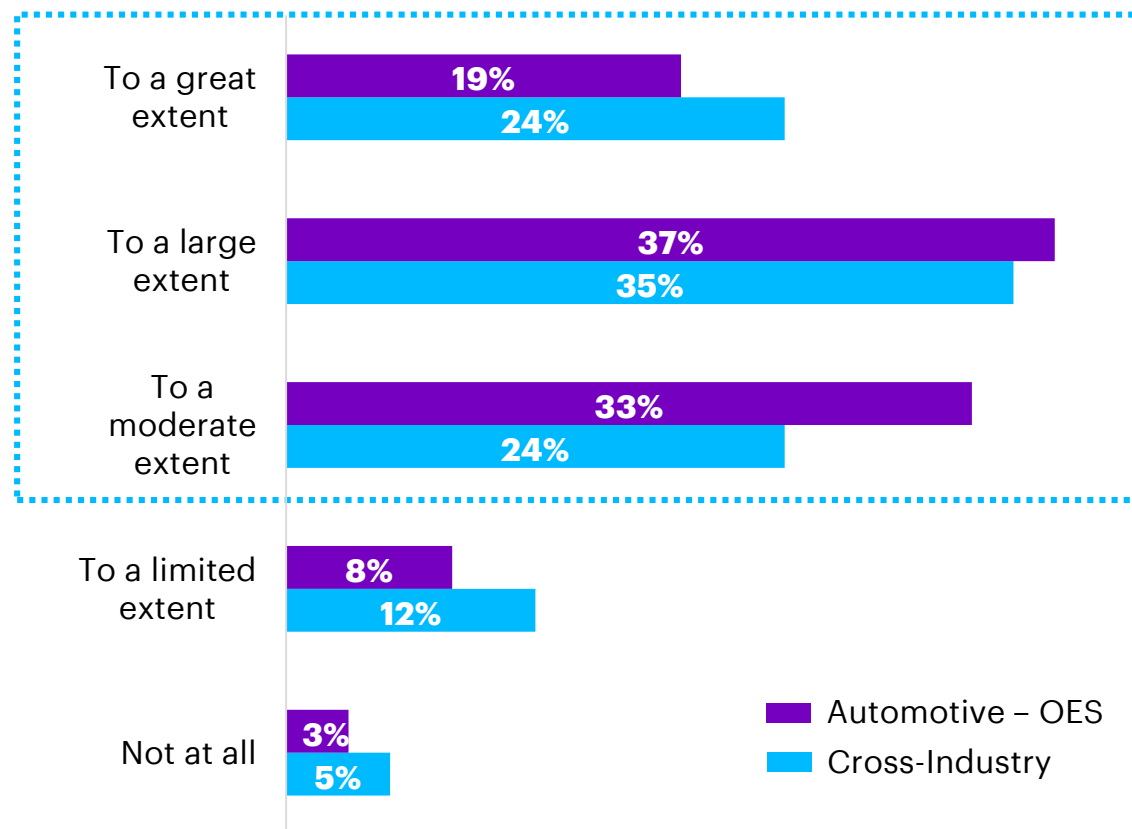
**WHAT'S STOPPING CONTENDERS  
AND CADETS FROM BECOMING  
CHAMPIONS?**

**A:**

**LIKE CHAMPIONS, CONTENDERS AND  
CADETS TOO FACE ALIGNMENT AND  
TALENT DEFICITS. WHILE CHAMPIONS  
OVERCOME THESE, OTHERS CONTINUE  
TO GRAPPLE WITH THEM.**

# SECURING FUNDING FOR DIGITAL REINVENTION FROM THE BOARD IS A MAJOR ROADBLOCK FOR AUTO – OES COMPANIES

## EXTENT TO WHICH SECURING FUNDING FROM THE BOARD FOR DIGITAL REINVENTION IS A CHALLENGE





## RANK KEY REASONS WHY BOARDS OF AUTOMOTIVE – OES COMPANIES REFUSE TO FUND DIGITAL REINVENTION

1. Failure to scale digital PoCs in the past
2. Shortage of and difficult access to digital skills; Lack of a clear digital roadmap; Foreseen immaturity of technology
3. Shortage of budget for capital investments
4. Inadequate ROI from digital investments
5. Poor understanding of digital reinvention within Top Management
6. Lack of a digital-native mindset among Board members

# ALIGNMENT CHALLENGES AND SKILL DEFICITS ARE OF PRIMARY CONCERN

## Automotive – OES executives' top picks\* for “biggest challenges to scaling digital PoCs”

 Biggest challenge  
 Second biggest

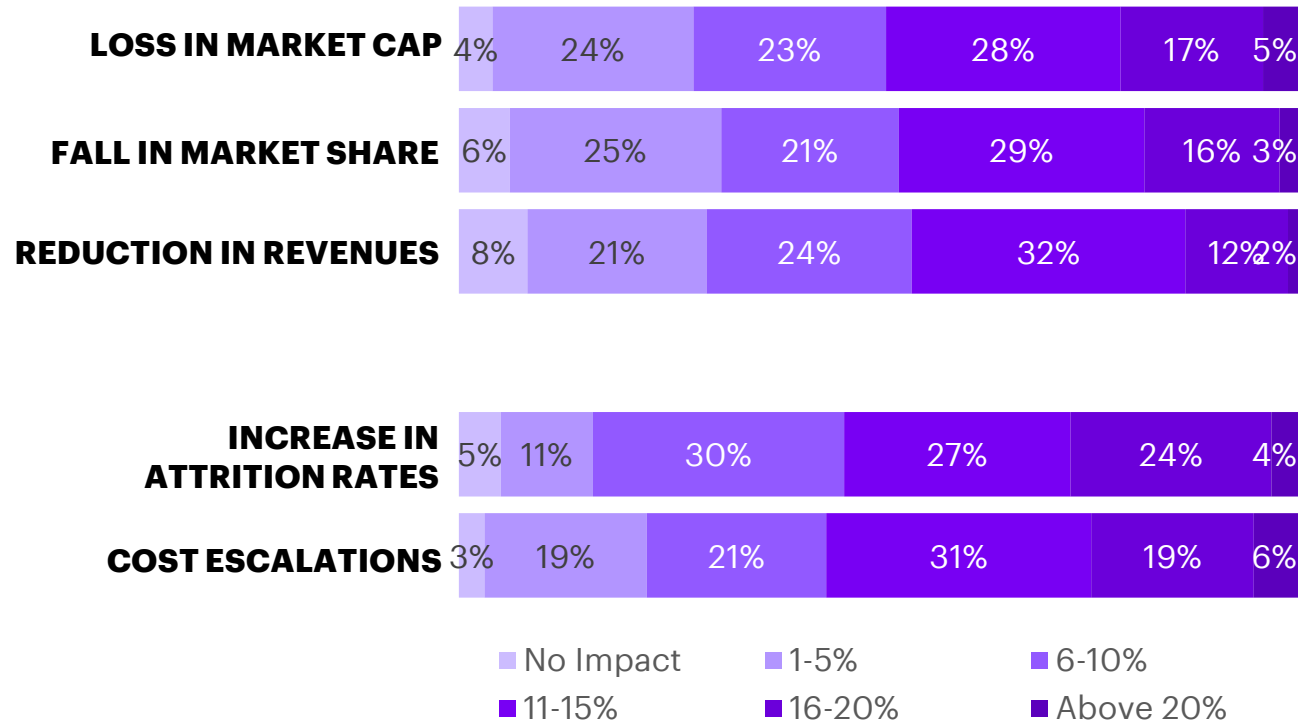
	PRODUCT & SERVICE DESIGN			PRODUCTION & OPERATIONS			SUPPLY CHAIN & LOGISTICS			SALES, AFTER SALES SERVICE			DIGITAL / PHYSICAL SECURITY			CONTINUOUS CUSTOMER ENGAGEMENT		
CHAMPIONS (CH), CONTENDERS (CT), CADETS (CA)	CH	CT	CA	CH	CT	CA	CH	CT	CA	CH	CT	CA	CH	CT	CA	CH	CT	CA
<b>Inability to align</b> top and middle management to innovate customer value																		
<b>Inability to align</b> talent pools and IT assets across key business functions																		
<b>Inability to align</b> top management view on 'digital value'																		
<b>Lack of adequate skills</b> to translate digital proofs of concept into scaled-up action plans																		
<b>Inadequate infrastructure</b> to innovate relevant digital value with speed																		
<b>Absence of culture</b> to stimulate technology driven cross-functional innovations																		

\* other options which weren't picked and often included: "Inability to align to in-house innovation systems/architecture with agile digital ecosystems", "Lack of skills to innovate with digital technologies and platforms," "Lack of skills to identify and articulate business case for digital," "Absence of culture to design, develop and deliver digital business models," "Absence of culture to stimulate cross-functional innovation with digital," "Absence of culture to drive on-time innovation of monetizable customer experiences", "Lack of partnerships to bridge digital gaps across processes," "Inadequate metrics to systematically track digital investments"

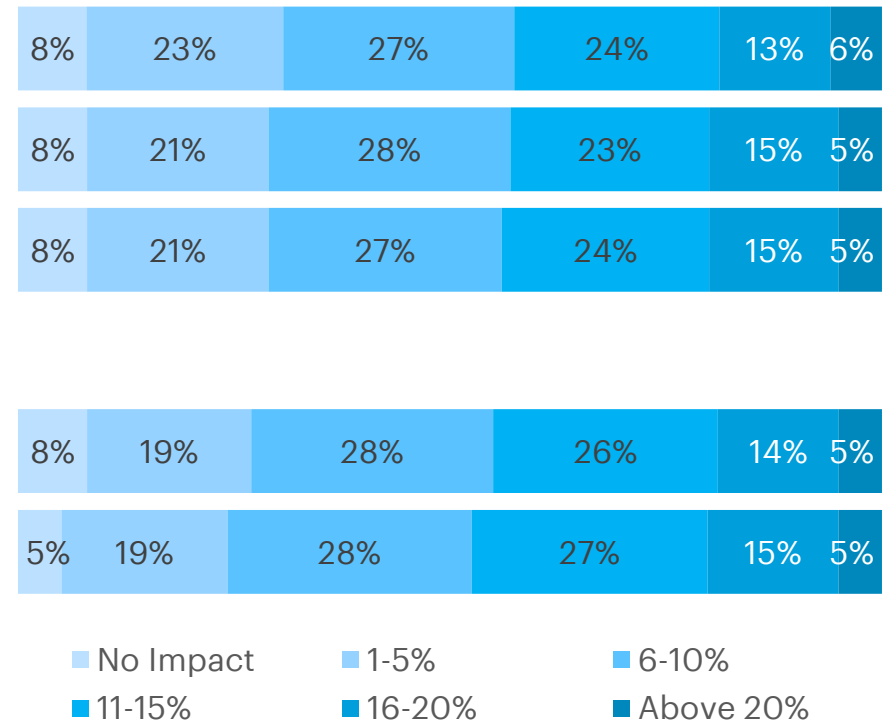
# WHAT DO COMPANIES STAND TO LOSE IF THEY FAIL TO ADDRESS THESE CHALLENGES?

**Around 80% of Automotive – OES leaders fear significant escalations in cost (>5%) alongside losing talent (>5%), if they fail to overcome organizational challenges**

## AUTOMOTIVE – OES



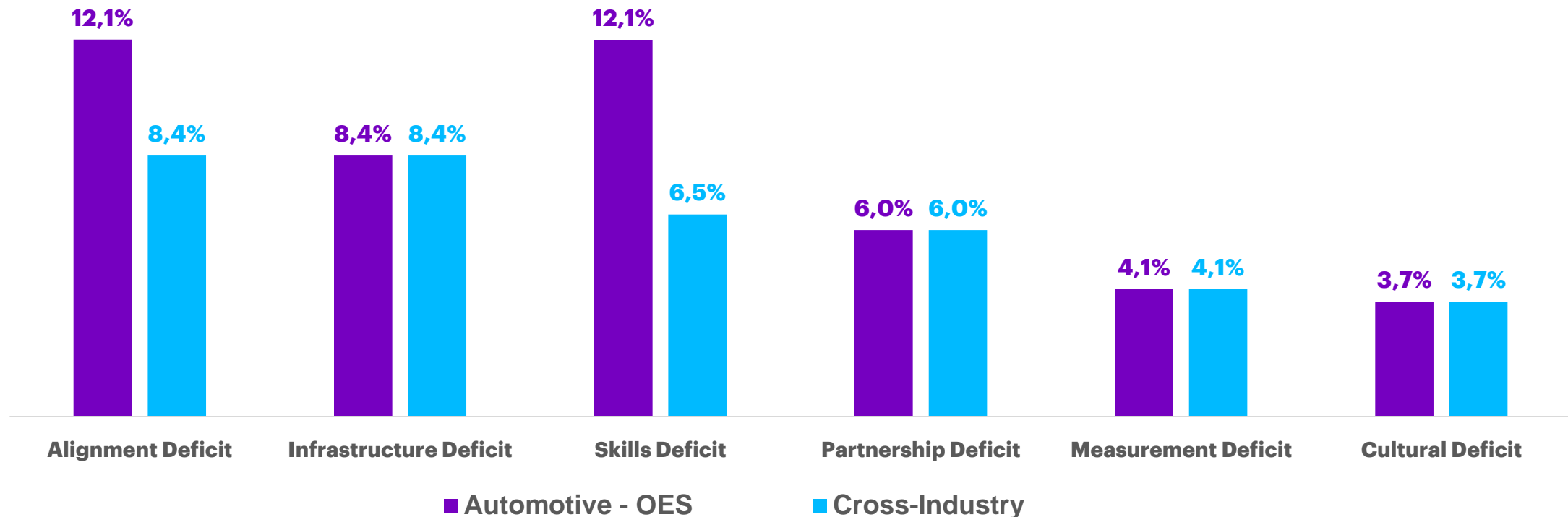
## CROSS-INDUSTRY



# HOW MUCH CAN COMPANIES GAIN IF THEY OVERCOME THESE DEFICITS?

**Automotive – OES companies have the opportunity to achieve sizeable increase in RODI, if they focus on overcoming skill and alignment deficits**

## INCREMENTAL RODI POTENTIAL IF DEFICIT IS OVERCOME



**Q:**

**HOW DO CHAMPIONS OVERCOME  
THESE CHALLENGES AND SCALE  
THEIR DIGITAL INNOVATIONS?**

**A:**

**WITH 4 SPECIFIC  
BEST PRACTICES.**

# 1.

## **DEFINING THE VALUE THAT GUIDES INNOVATION EFFORTS**

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Champions assess the opportunities before them, and narrow in on the market opportunities they want to pursue. They then use that clarity to communicate with middle management and direct their innovation efforts to secure expected returns.

# 2.

## **FOCUS ON INTERNAL CHANGE AND EXTERNAL VALUE**

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Champions prefer a measured approach to blend organizational change with digital transformation initiatives, creating what we call an ambidextrous organization. With a clear view of the customer value, managers and employees are less likely to feel blindsided by a digital learning curve that is too steep.

# 3.

## **BUILD IN-HOUSE INNOVATION FACTORIES WITH TARGETED INFLUENCE**

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Champions recognize the enormity of integrating rapidly advancing technologies, along with talent and assets, back into their organization. In line with their ambidextrous approach, they take the vital step to re-rig the core of their organizations, seeding and growing new digital innovations organically within organizational boundaries.

# 4.

## **MAP KEY INNOVATION ENABLERS TO APPROPRIATE BUSINESS FUNCTIONS**

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Most manufacturers use the same enablers to drive innovation, such as software applications to support operations, or analytics platforms to generate better insights. However, Champions alone are masters at matching the support to the function that needs it most and will use it best.

**Q:**

**IS THERE A **ROADMAP** TO MATURE  
AS AN ORGANIZATION TOWARDS  
SUCCESSFULLY SCALING DIGITAL  
INNOVATION?**

**A:**

**YES THERE IS...**

# ... WE HAVE BUILT ONE LEVERAGING FIVE KEY ORGANIZATIONAL LEVERS



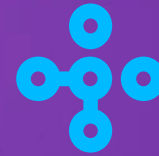
**LEADERSHIP &  
CULTURE**



**ECOSYSTEM  
PARTNERSHIPS**



**SKILLSETS**



**TECHNOLOGY**



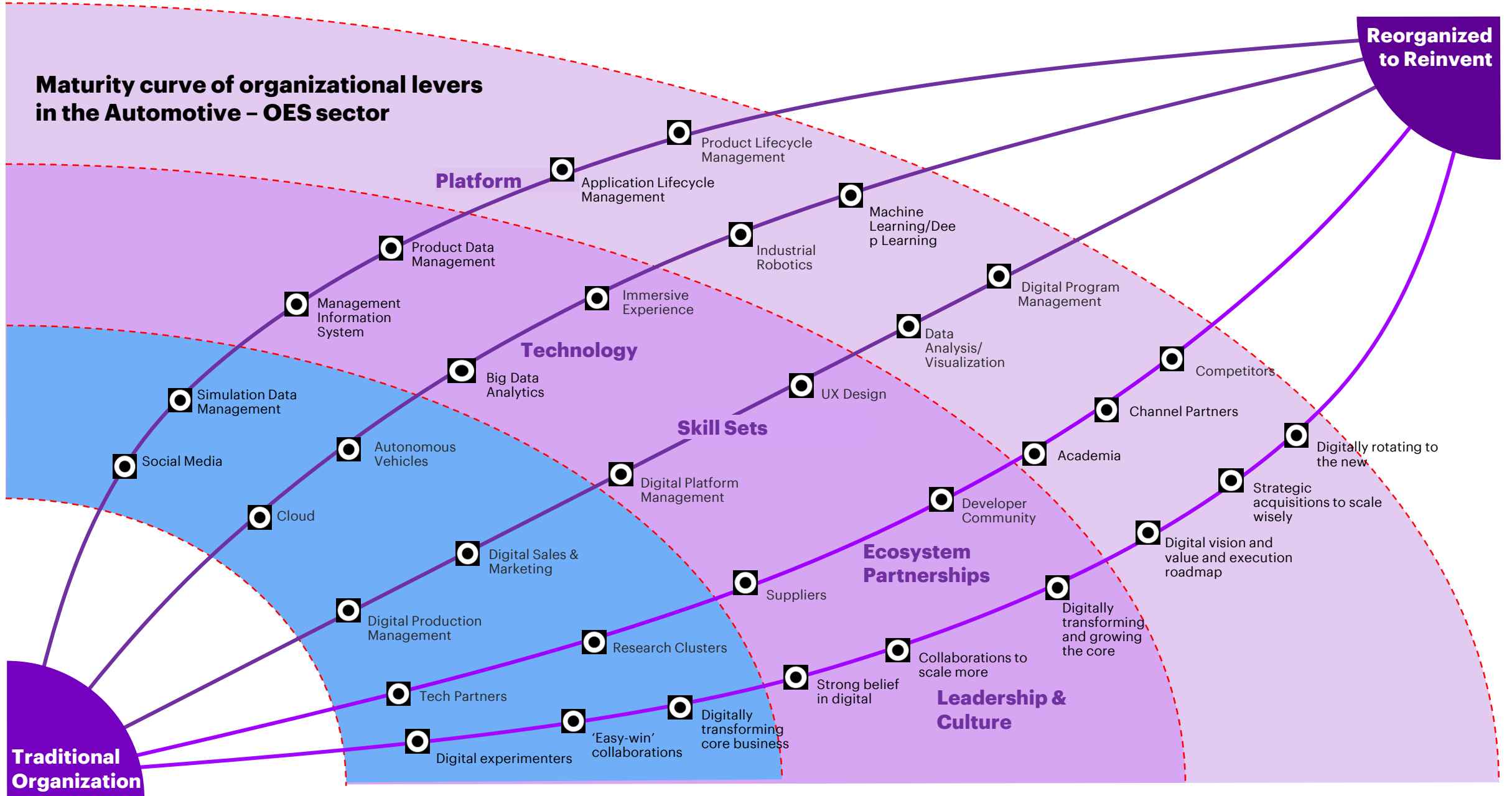
**PLATFORM**

CHAMPIONS

CONTENDERS

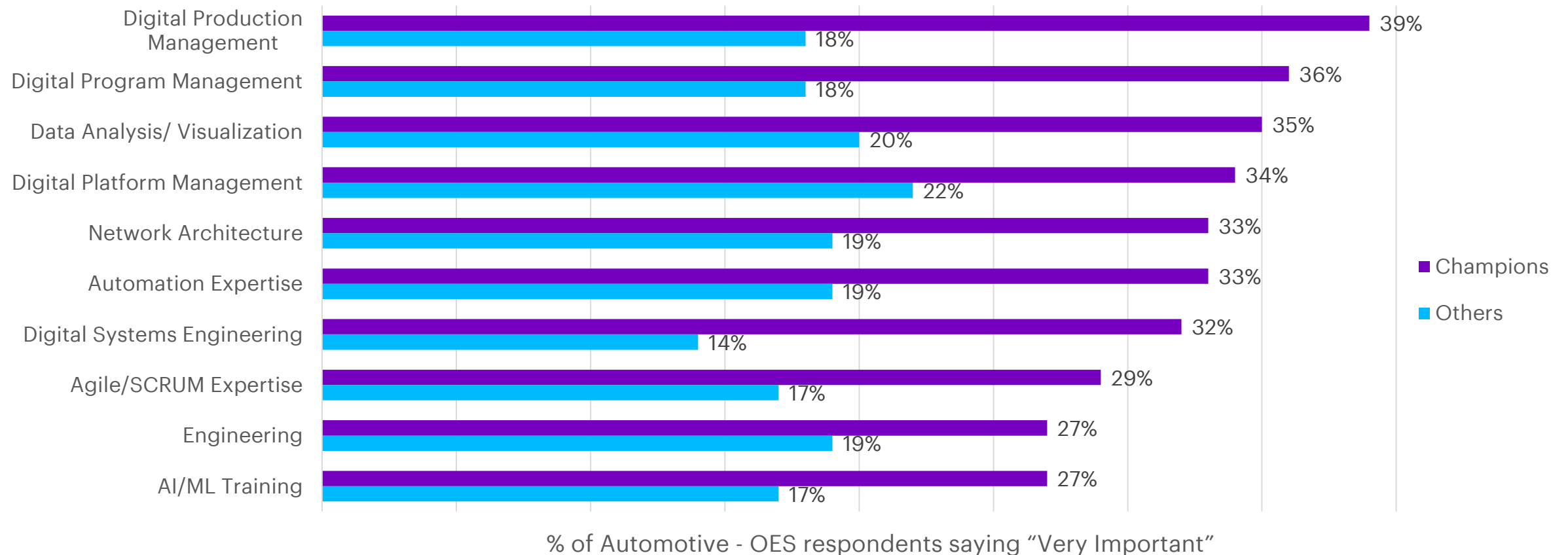
CADETS

## Maturity curve of organizational levers in the Automotive - OES sector



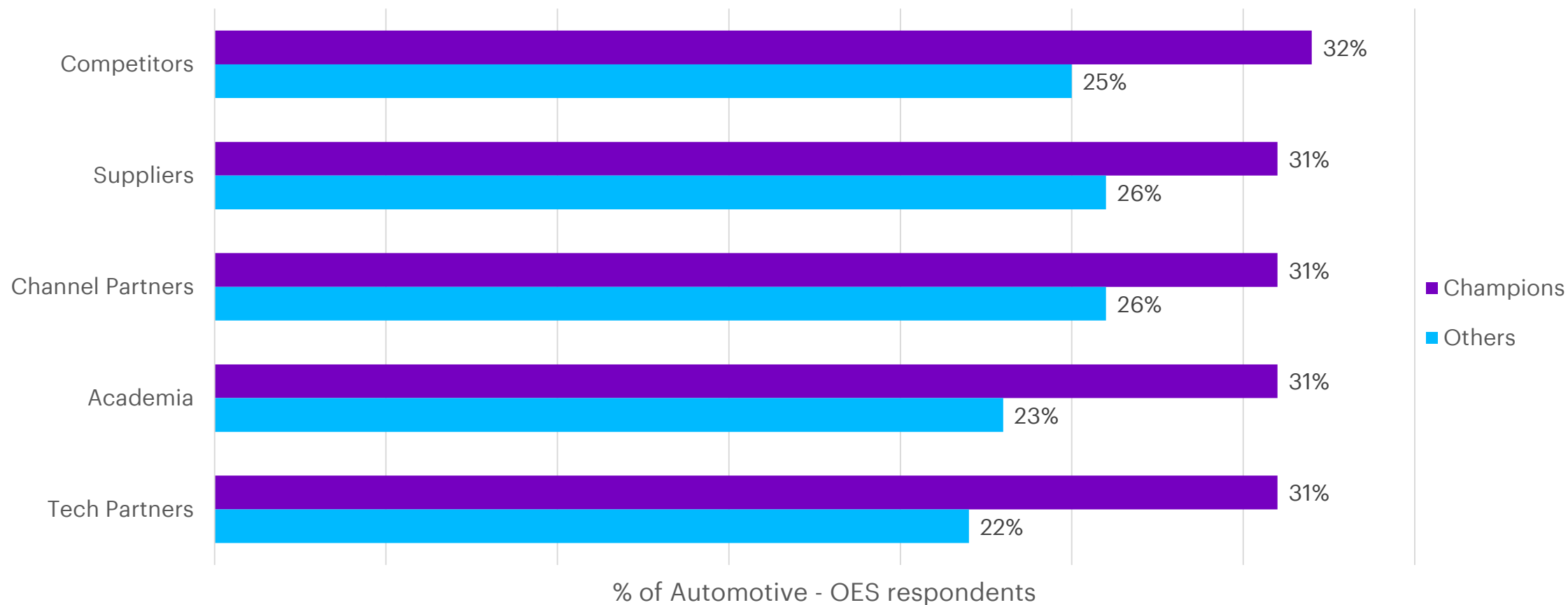
# TOP 10 SKILL SETS FOR AUTOMOTIVE – OES CHAMPIONS

**Digital Production Management along with Digital Program Management are critical skills to scale digital PoCs**



# TOP 5 PARTNERSHIPS FOR AUTOMOTIVE – OES CHAMPIONS

**Competitors and suppliers are critical partnerships to scale digital PoCs**



**Q:**

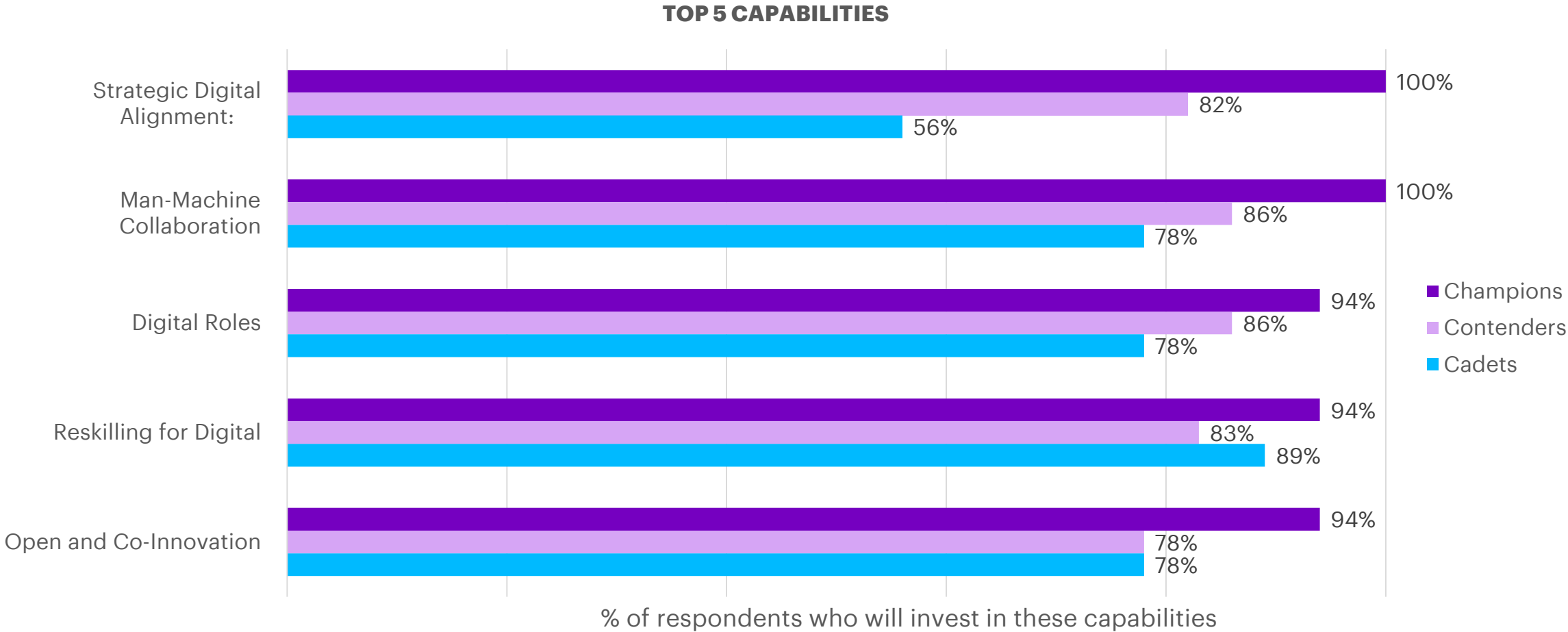
**WHAT CAPABILITIES DO  
AUTOMOTIVE – OES COMPANIES  
NEED TO BUILD AS THEY NAVIGATE  
ALONG THIS ROADMAP?**

**A:**

**CHAMPIONS PRIORITIZE  
CERTAIN CAPABILITIES, AND  
INVEST HEAVILY IN THEM**

# CHAMPIONS WANTS TO INVEST IN STRATEGIC DIGITAL ALIGNMENT, DIGITAL ROLES AND MAN-MACHINE COLLABORATION

This corresponds with their choice of Competitors and suppliers as partners



# Striving to scale your own innovations?

## Get in touch!

Whether you are seeking to start new initiatives the right way, help with scaling those you already have—we are ready to help you improve your outcomes by putting our knowledge to work! Please reach out to **raghav.narsalay@accenture.com** or **aaroahi.sen@accenture.com** at Accenture Research, or visit **accenture.com/scaling-innovation**

## References:

David Abood, Aidan Quilligan, Raghav Narsalay, and Aaroahi Sen (2019), Rethink, Reinvent, Realize, downloadable from [here](#).

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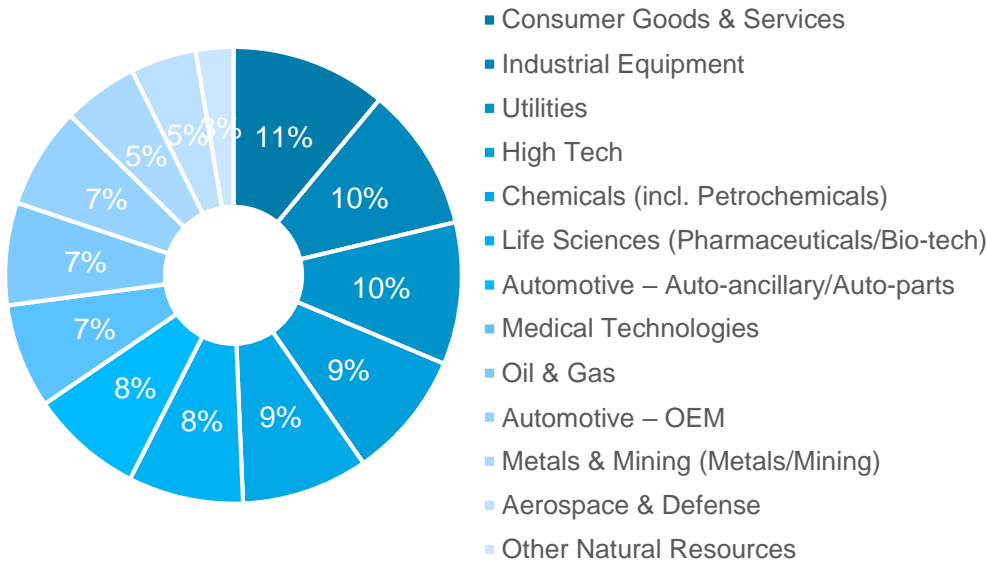
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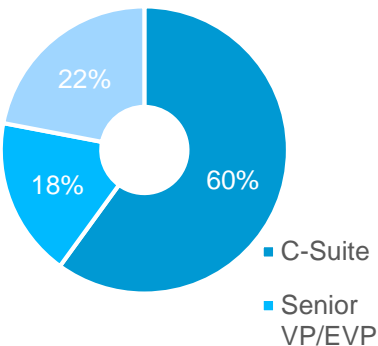
# APPENDIX

# SURVEY DEMOGRAPHICS – OVERALL (n=1350)

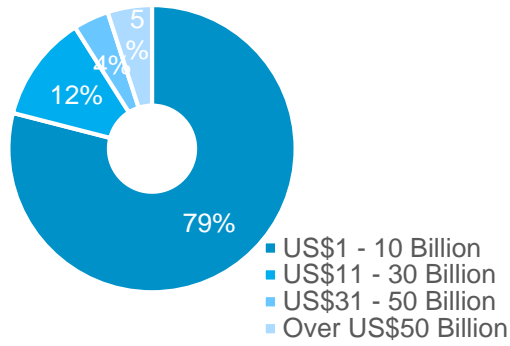
INDUSTRY



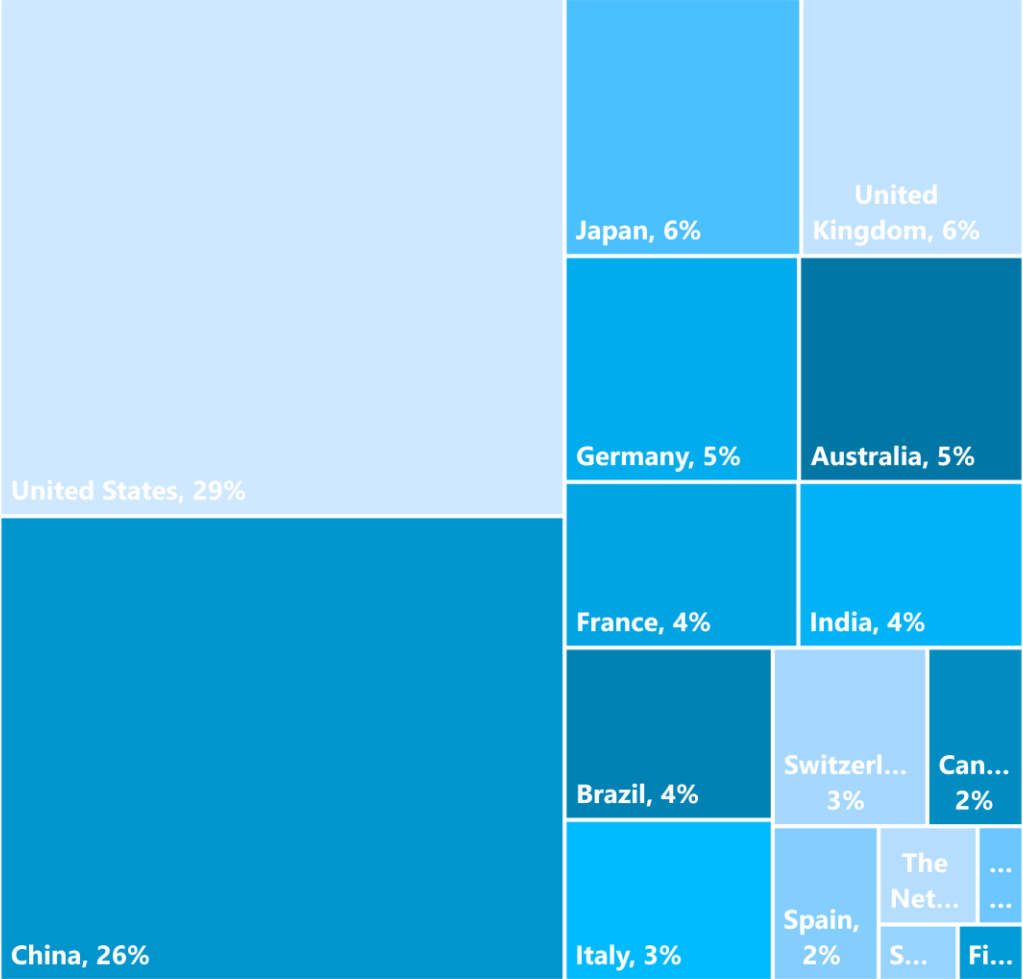
EXEC PROFILE



ANNUAL REVENUE

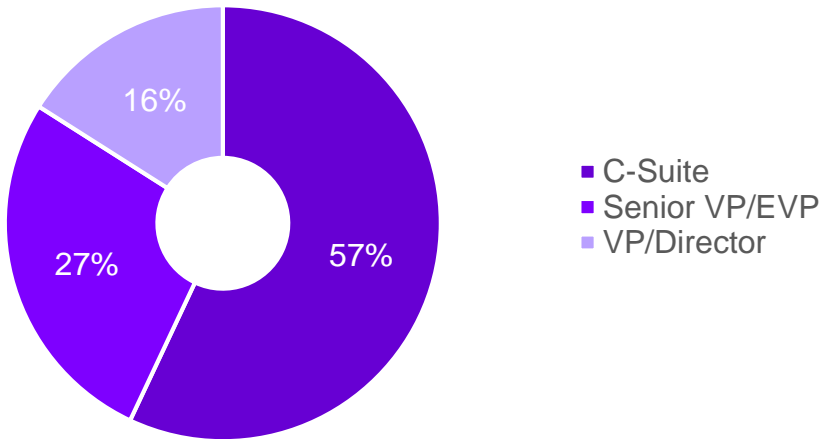


GEO-SPREAD

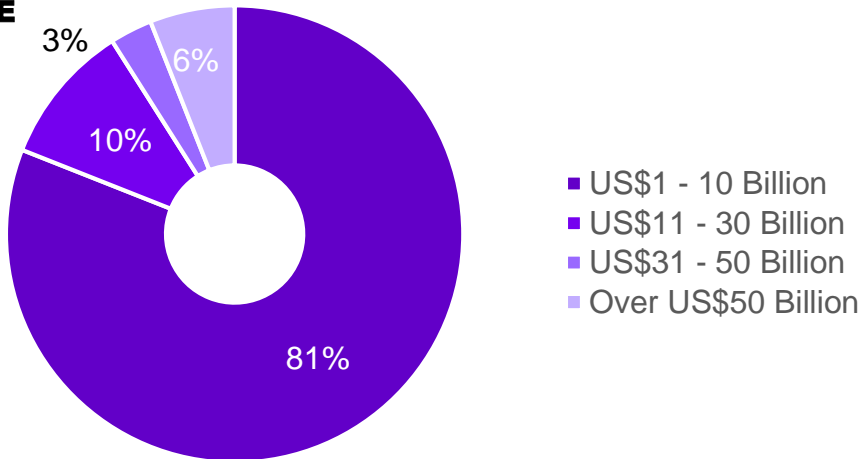


# SURVEY DEMOGRAPHICS – AUTO-OES (n=108)

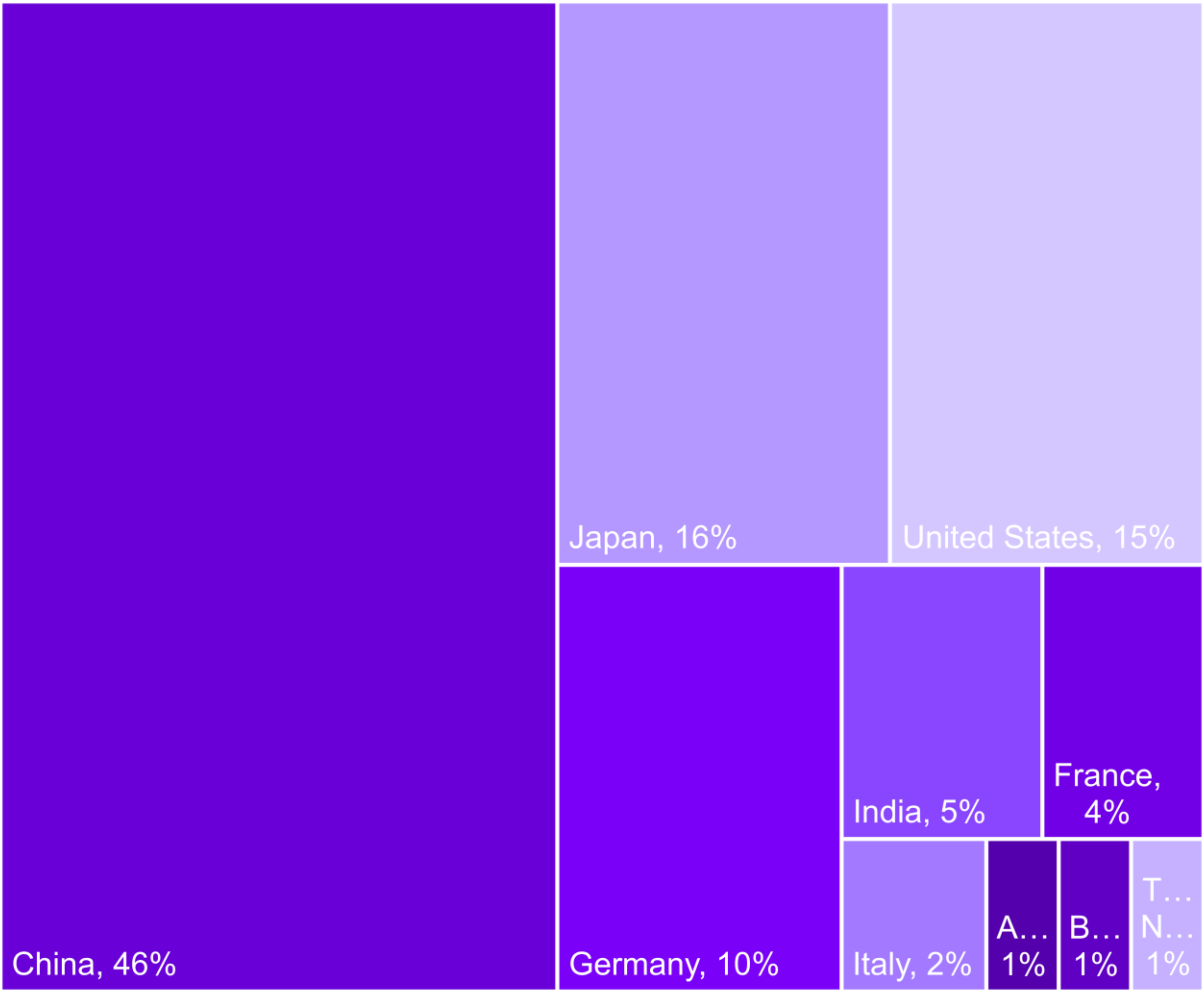
EXEC PROFILE



ANNUAL REVENUE



GEO-SPREAD



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