

RETHINK, REINVENT, REALIZE.

How to successfully scale digital
innovation to drive growth

INDUSTRIAL EQUIPMENT



THE IDEA: FIND INDUSTRY X.0 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?



SURVEY AT-A-GLANCE

n=1,350
companies with
1bn+ in revenue

60%
C-suite respondents

13 industries
and **17** countries



INDUSTRIAL EQUIPMENT AT-A-GLANCE

n=138
responses from
companies with
1bn+ in revenue

68%
C-suite respondents

13
countries

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

OUR KEY FINDINGS

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

A SURPRISE!

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

What's the difference?
The leading 28 percent manage their scaling efforts differently.

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

THE REASON TO READ!

(these best practices are what readers will come for)

Q:

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

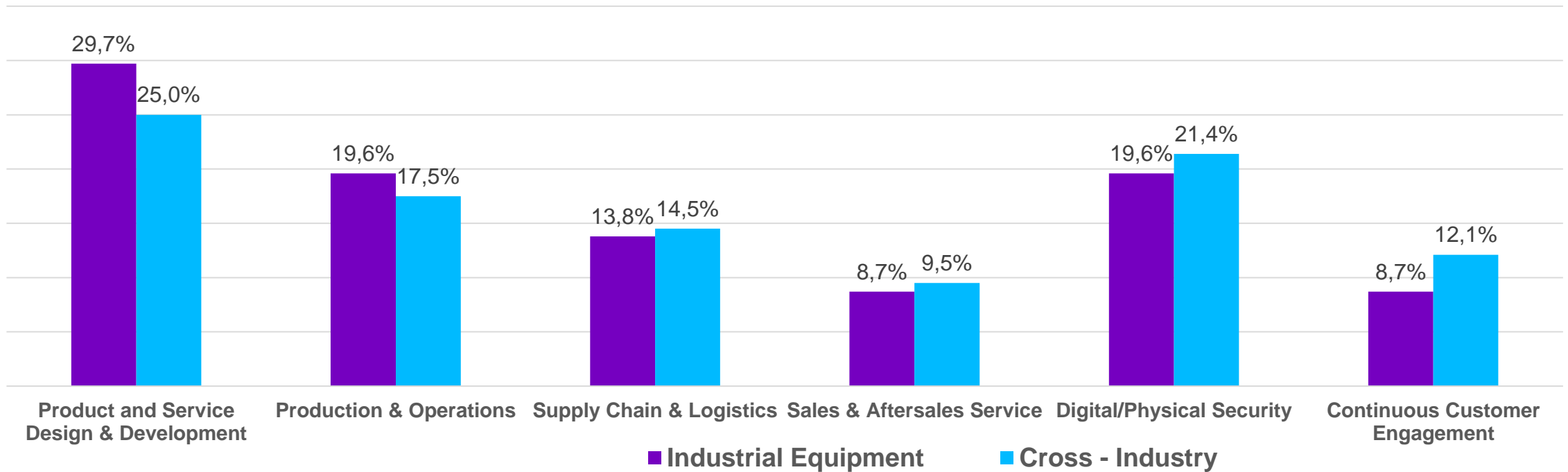
A:

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

PRODUCT & SERVICE DESIGN IS A TOP INNOVATION PRIORITY FOR INDUSTRIAL EQUIPMENT COMPANIES

Product & Service Design is an innovation priority Industrial Equipment companies by a long margin

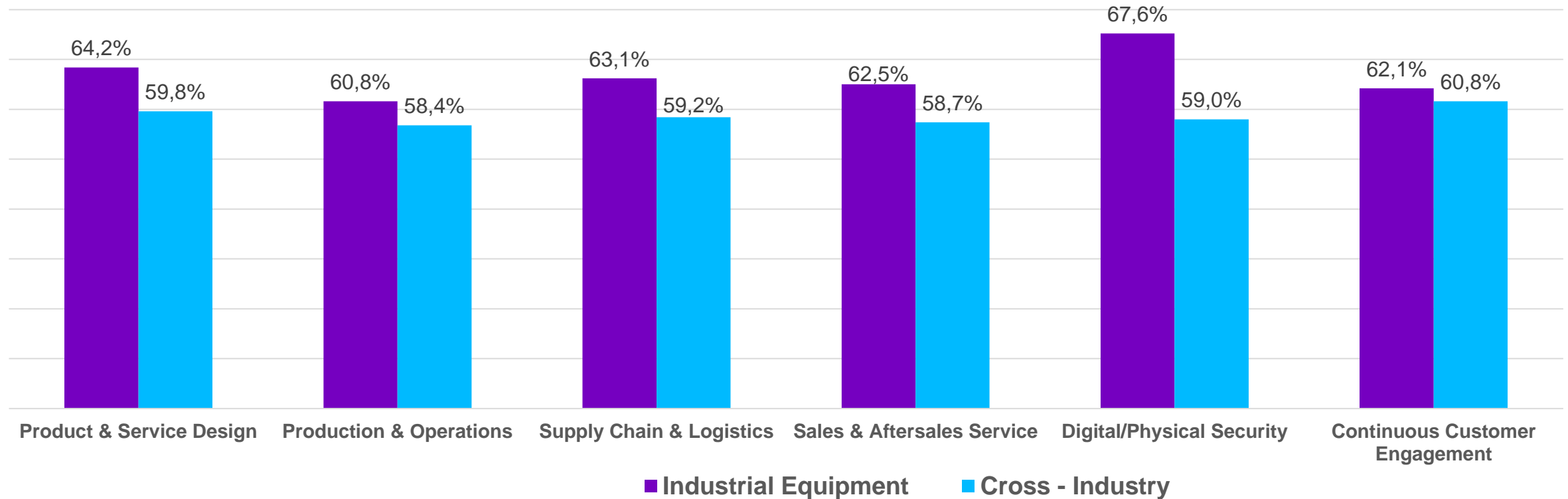
INNOVATION PRIORITY*



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

INDUSTRIAL EQUIPMENT COMPANIES ARE SCALING DIGITAL POCS ACROSS ALL BUSINESS FUNCTIONS

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.

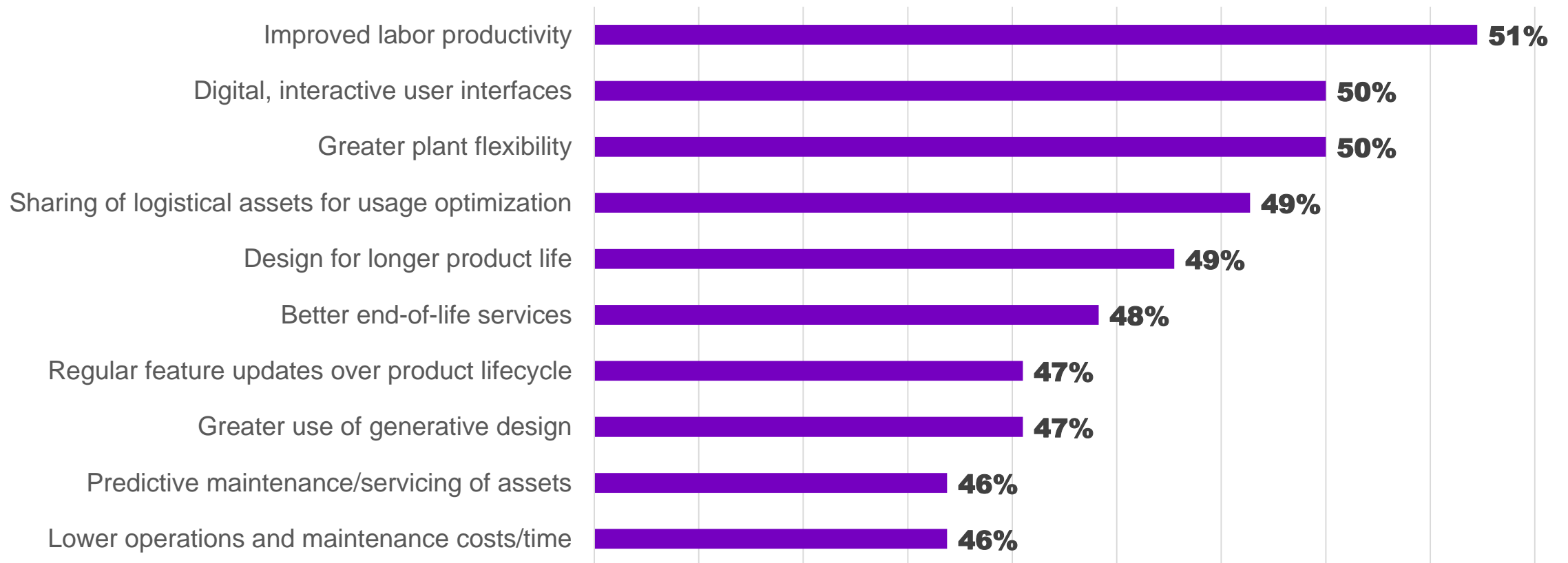


INDUSTRIAL EQUIPMENT COMPANIES RECOGNIZE THE NEED FOR INNOVATING AT SCALE TO:

- | Deliver **secure and personalized experiences** for customers and workforce, and
- | Unlock **new operational efficiencies**

IMPROVED LABOR PRODUCTIVITY AND INTERACTIVE USER INTERFACES ARE KEY OUTCOMES...

Top 10 outcomes for Industrial Equipment companies through scaling of digital PoCs



% of respondents who achieved this outcome

...AND THEY ARE CHOOSING CLOUD AND BIG DATA ANALYTICS 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		RANK 1				
AI Assistants				RANK 3		RANK 3
3D printing						
Mobility						
IIOT Sensors & Transmitters						
Immersive Experience	RANK 2			RANK 2		
Industrial Robotics						
Big Data Analytics	RANK 1	RANK 3	RANK 2			RANK 2
Digital Twin						
Cloud				RANK 1	RANK 2	RANK 1
Blockchain			RANK 3			
Autonomous Vehicles					RANK 3	
Machine Learning/Deep Learning	RANK 3	RANK 2				
Quantum Computing						
Cyber Security Protocols			RANK 1		RANK 1	

Q:

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

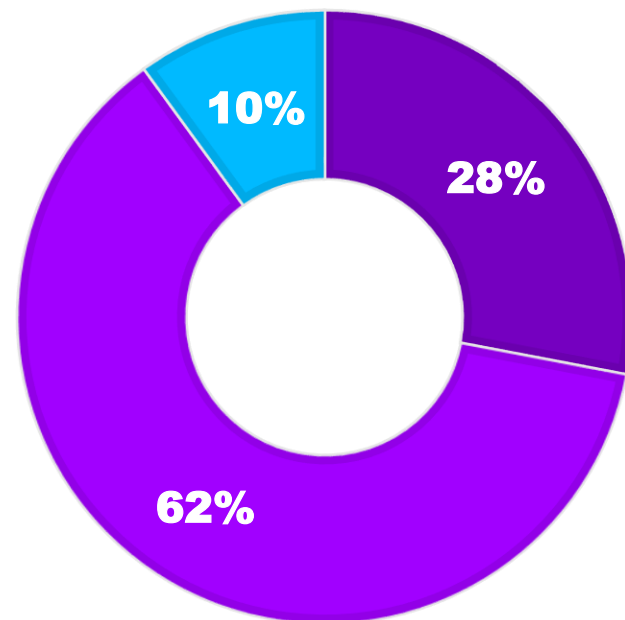
A:

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

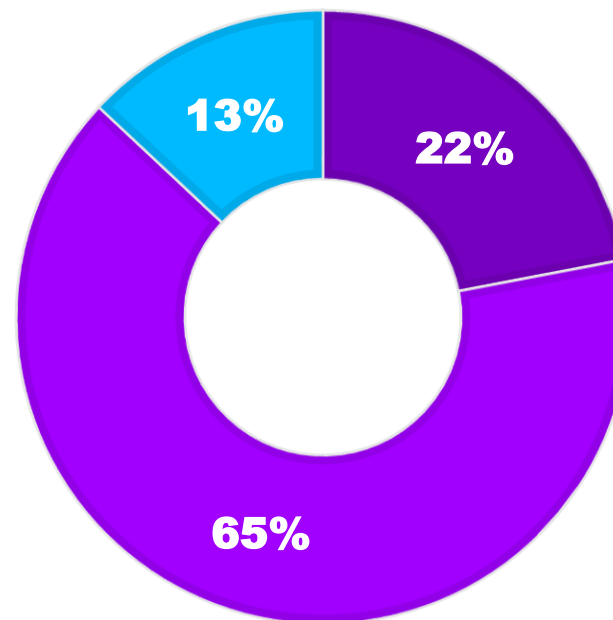
SO, WHO'S SCALING THE BEST?

Industrial Equipment boasts a higher share of Champions compared to the global, cross-industry average

INDUSTRIAL EQUIPMENT



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

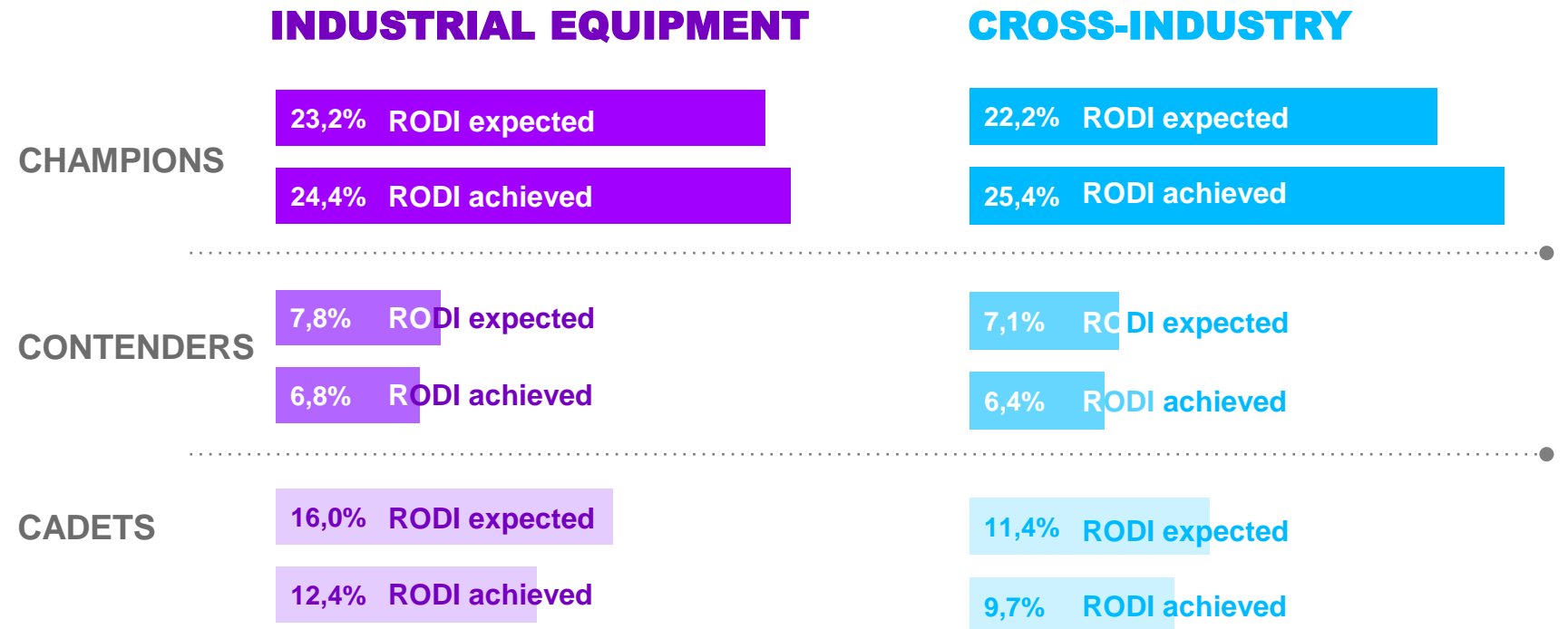
CHAMPIONS SET THEMSELVES HIGHER “RODI” TARGETS AND ACHIEVE THEM TOO.

Industrial Equipment Champions achieved more than 3 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:

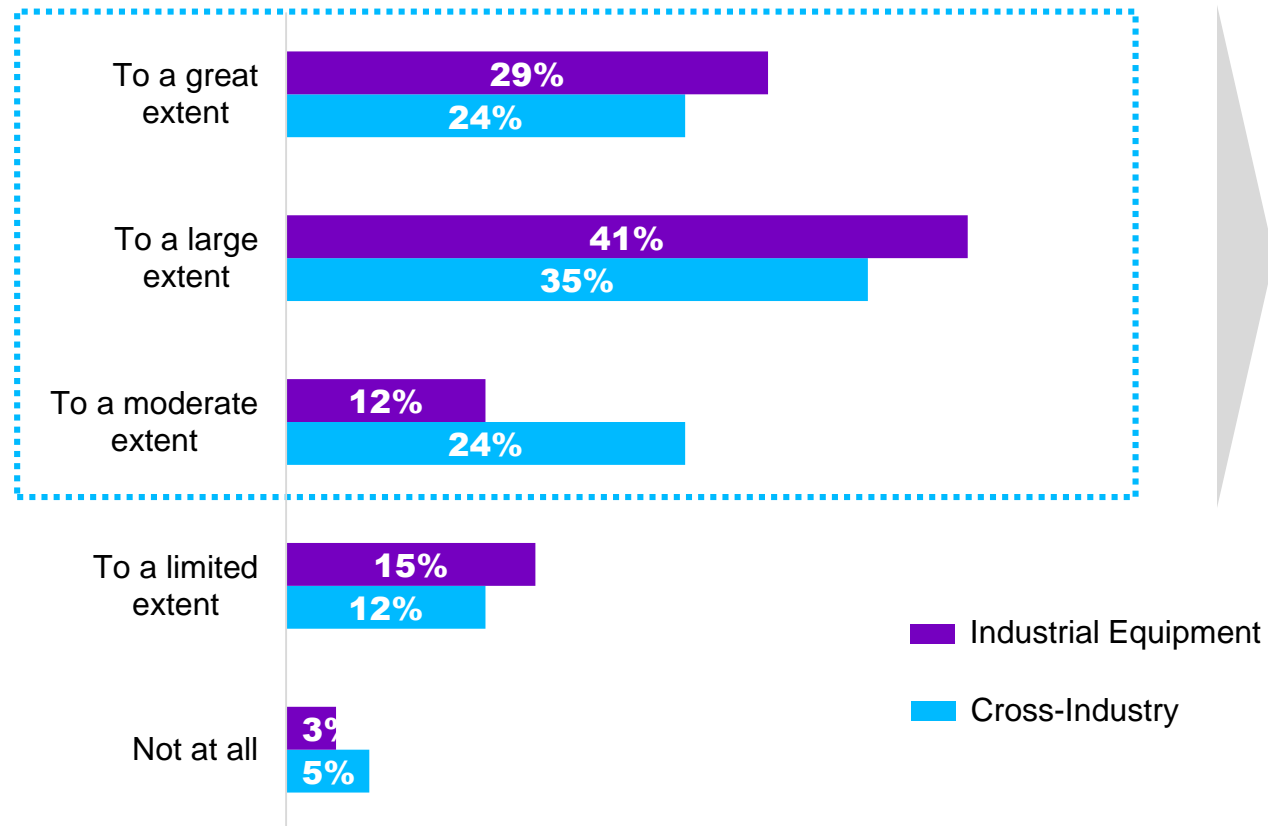
**WHAT'S STOPPING
CONTENDERS AND CADETS
FROM BECOMING CHAMPIONS?**

A:

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

SECURING FUNDING FOR DIGITAL REINVENTION PROJECTS FROM THE BOARD IS STILL NOT EASY



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



RANK	KEY REASONS WHY BOARDS OF INDUSTRIAL EQUIPMENT COMPANIES REFUSE TO FUND DIGITAL REINVENTION
1.	Failure to scale digital proofs of concept (PoCs) in the past
2.	Inadequate ROI from digital investments
3.	Lack of a clear digital roadmap; Lack of a digital-native mindset among Board members
4.	Foreseen immaturity of technology
5.	Shortage of budget for capital investments
6.	Shortage of and difficult access to digital skills
7.	Poor understanding of digital reinvention within Top Management

ALIGNMENT CHALLENGES AND LACK OF PARTNERSHIPS ARE OF PRIMARY CONCERN

Industrial Equipment executives' top picks* for “biggest challenges to scaling digital PoCs”

 Biggest challenge
 Second biggest

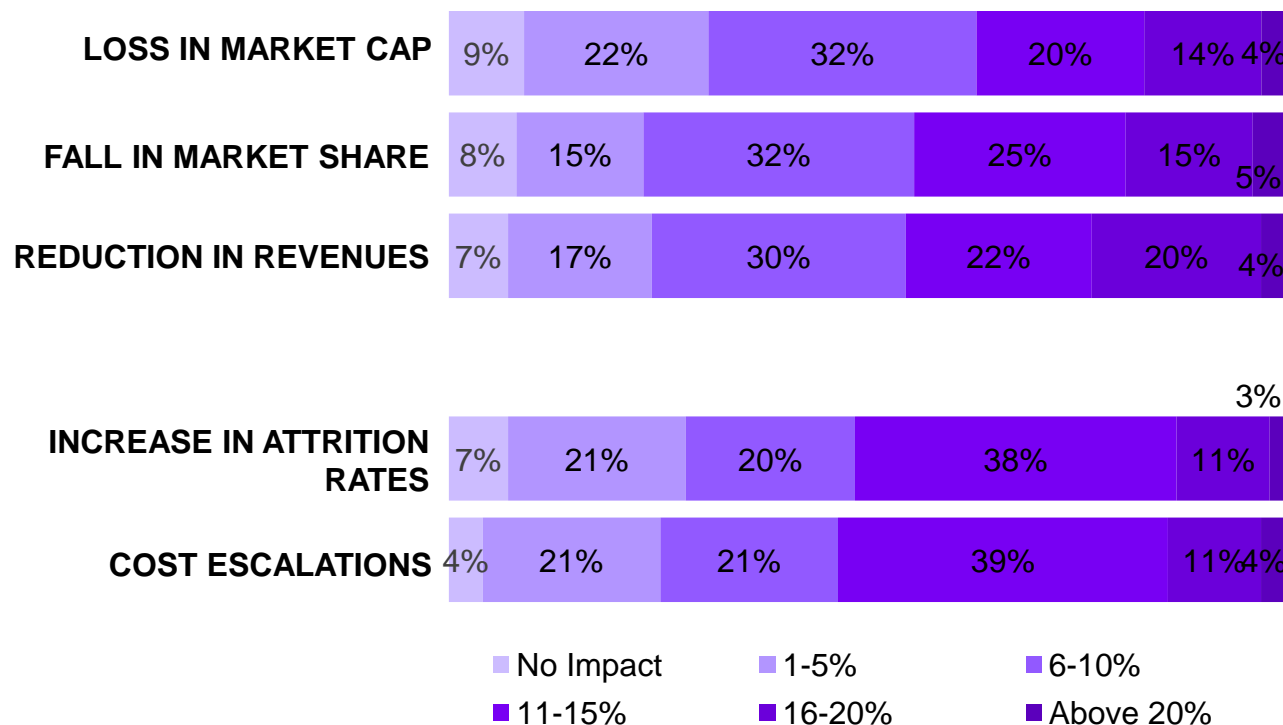
	PRODUCT & SERVICE DESIGN			PRODUCTION & OPERATIONS			SUPPLY CHAIN & LOGISTICS			SALES, AFTER SALES SERVICE			DIGITAL / PHYSICAL SECURITY			CONTINUOUS CUSTOMER ENGAGEMENT		
CHAMPIONS (CH), CONTENDERS (CT), CADETS (CA)	CH	CT	CA	CH	CT	CA	CH	CT	CA	CH	CT	CA	CH	CT	CA	CH	CT	CA
Inability to align top management view on 'digital value'																		
Inability to align legacy IT to digital talent and asset pools																		
Inability to align top and middle management to innovate customer value																		
Inability to align in-house innovation with agile digital ecosystems																		
Inadequate infrastructure to innovate with digital technologies and platforms																		
Lack of skills to understand value chain disruption																		

- other options which weren't picked and often included: “Inadequate infrastructure to promote collaborative innovation between the business and the enterprise”, “Inadequate infrastructure to manage complex integration of services channels and products to drive experiences in the 'new'”, “Inadequate infrastructure to innovate relevant digital value with speed”, “Lack of partnerships to co-innovate offerings impacting the top line with agility”, “Lack of skills to identify and articulate business case for digital”, “Absence of culture to drive on-time innovation of monetizable customer-relevant experiences”.

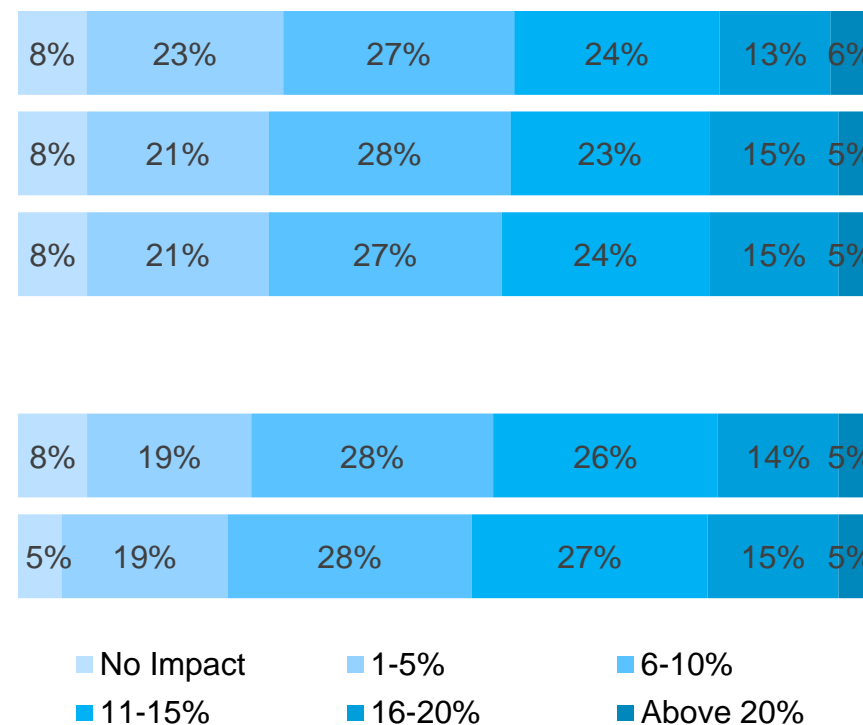
WHAT DO COMPANIES STAND TO LOSE IF THEY FAIL TO ORGANIZE FOR DIGITAL REINVENTION?

Over 75% of Industrial Equipment leaders fear substantial escalations in cost (>5%) alongside losing significant market share (>5%), if they fail to overcome organizational challenges

INDUSTRIAL EQUIPMENT



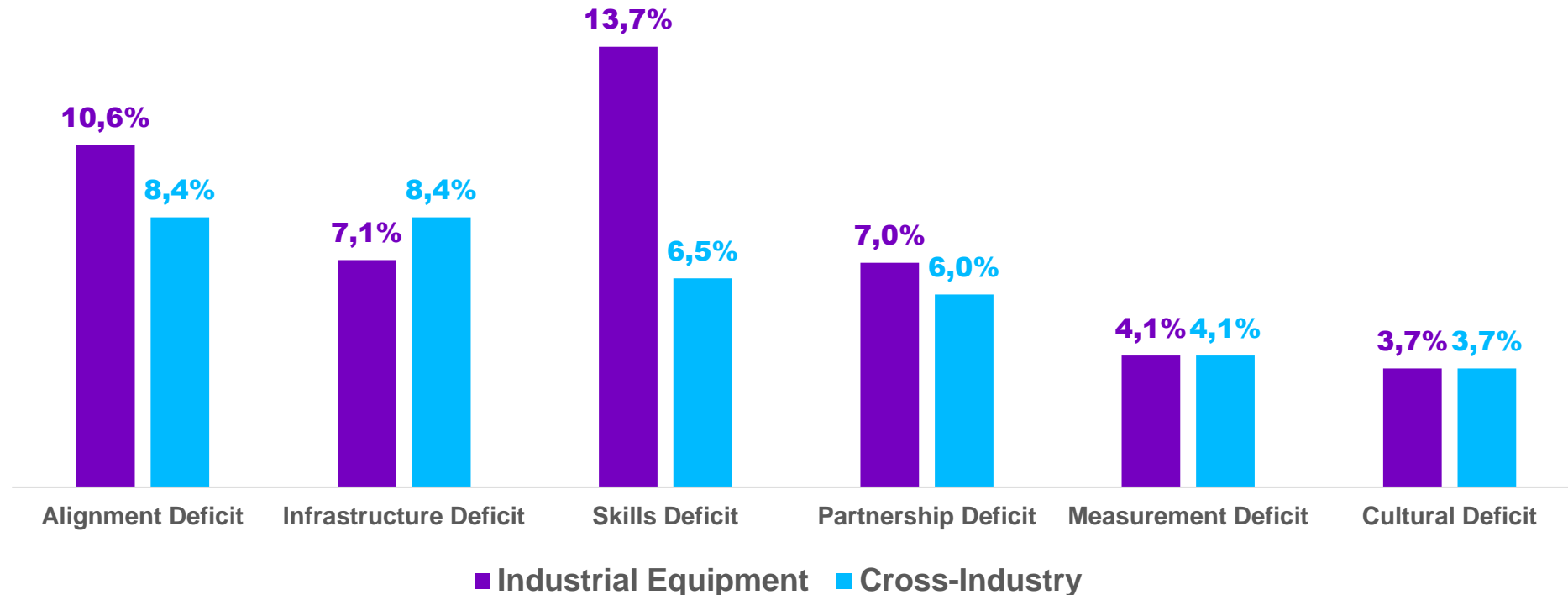
CROSS-INDUSTRY



HOW MUCH CAN COMPANIES GAIN IF THEY OVERCOME THESE DEFICITS?

Industrial Equipment companies have the opportunity to achieve sizeable increase in RODI, if they focus on solving skill 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

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

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

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

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



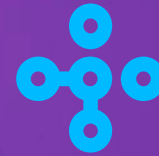
**LEADERSHIP &
CULTURE**



**ECOSYSTEM
PARTNERSHIPS**



SKILLSETS



TECHNOLOGY



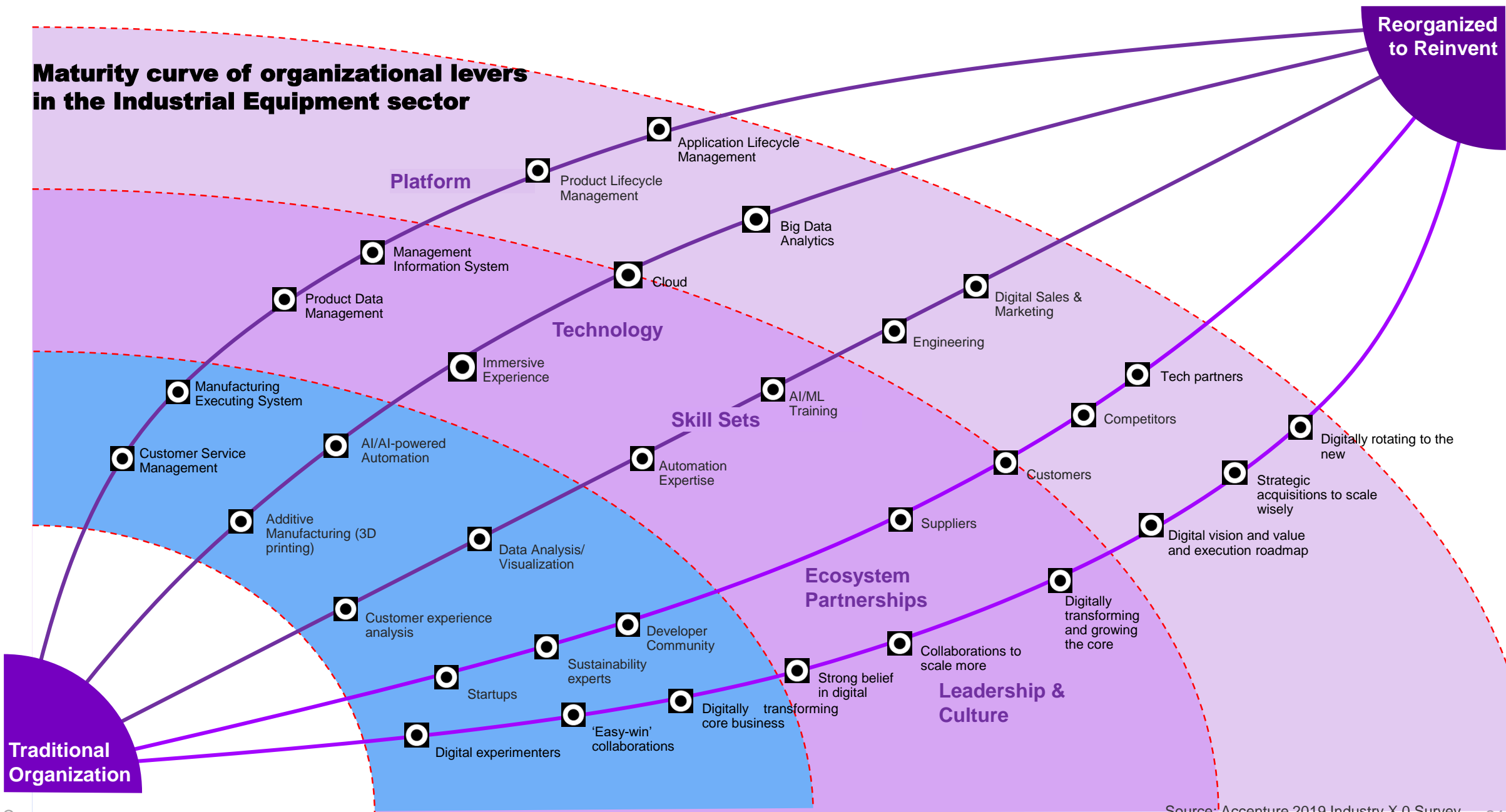
PLATFORM

CHAMPIONS

CONTENDERS

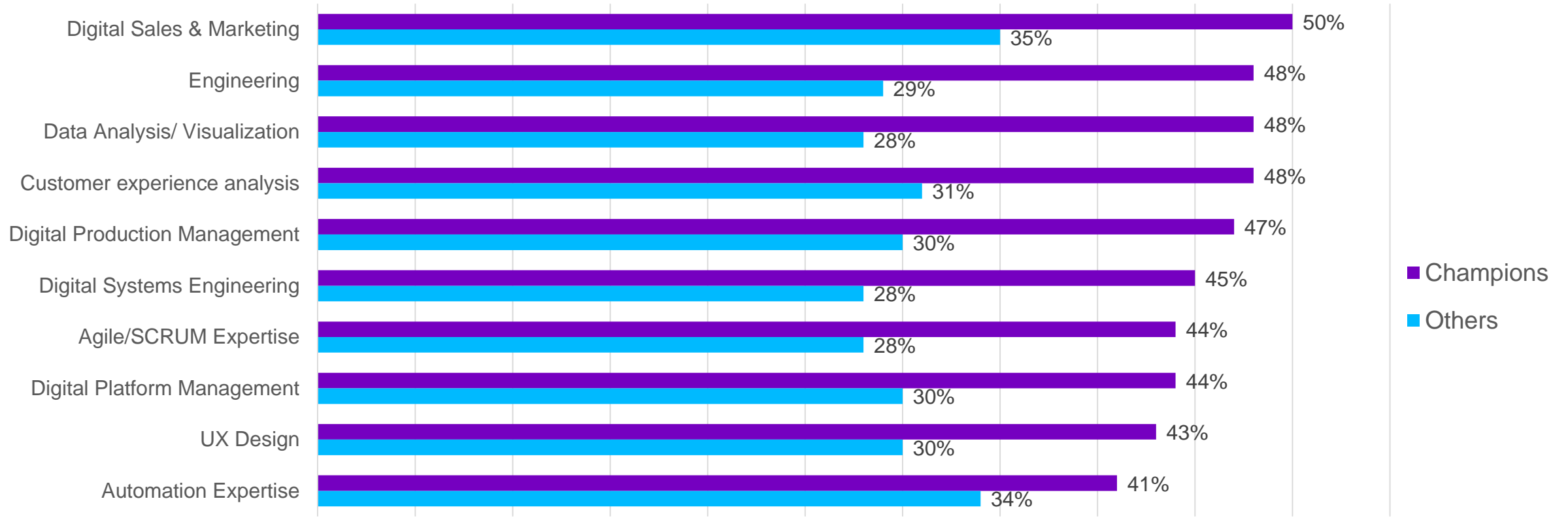
CADETS

Maturity curve of organizational levers in the Industrial Equipment sector



TOP 10 SKILL SETS FOR INDUSTRIAL EQUIPMENT CHAMPIONS

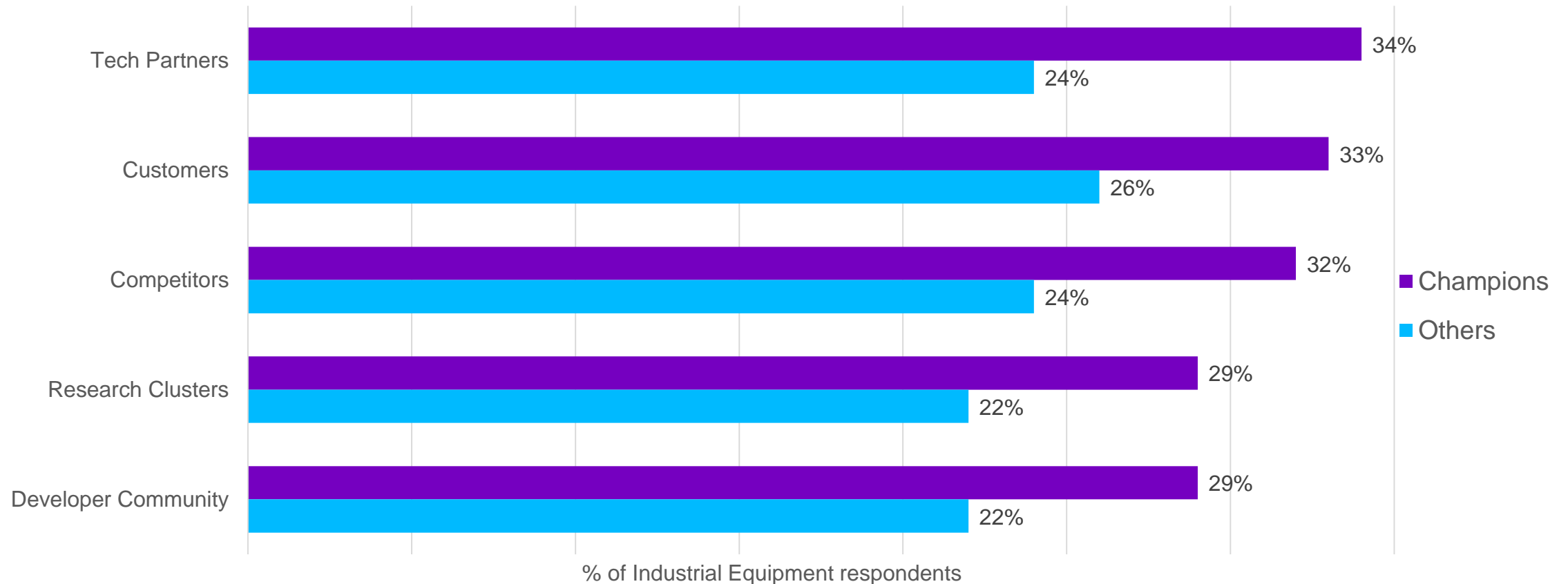
Digital Sales & Marketing, along with Engineering and Data Analysis, are critical skills to build and scale digital PoCs



% of Industrial Equipment respondents saying "Very Important"

TOP 5 PARTNERSHIPS FOR INDUSTRIAL EQUIPMENT CHAMPIONS

Tech Partners and Customers are critical partnerships to build and scale digital PoCs



Q:

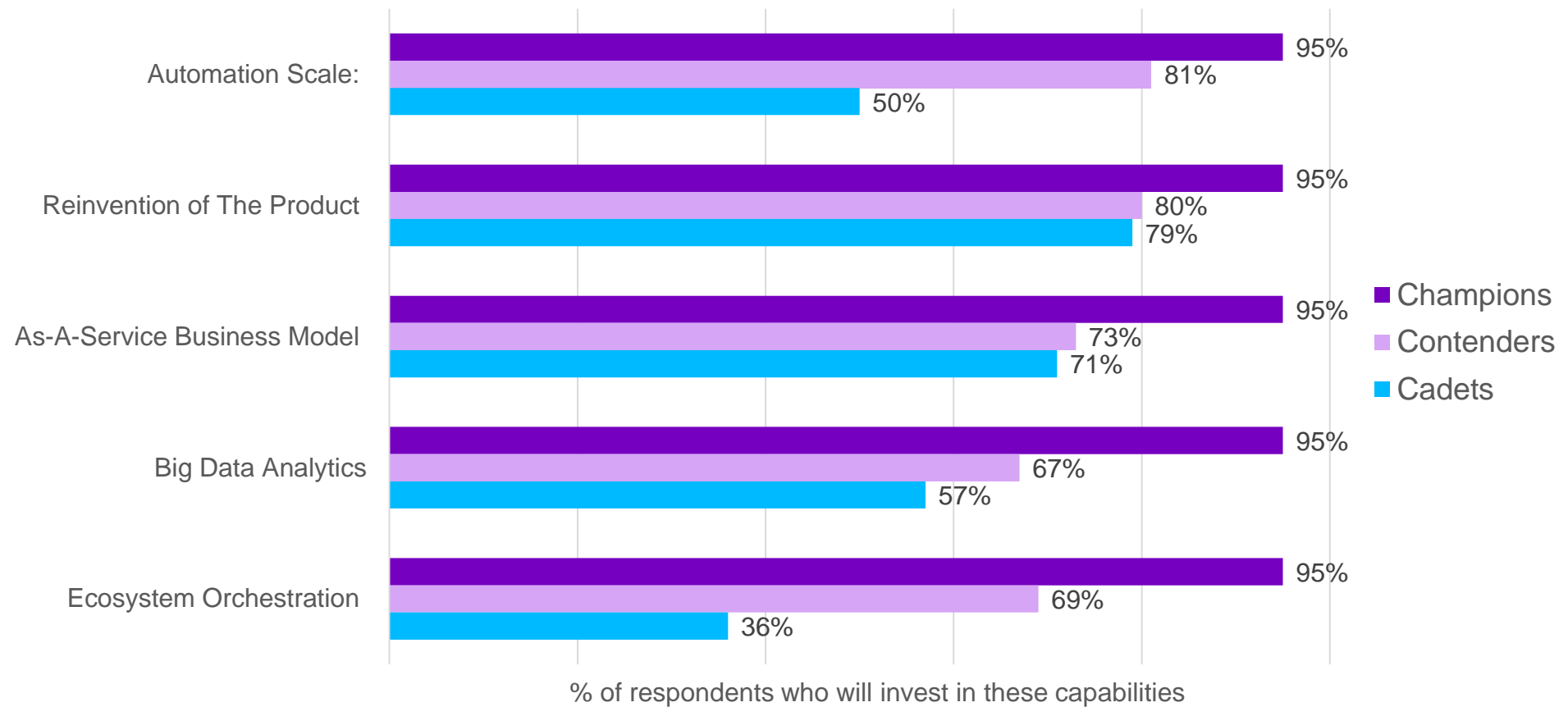
WHAT CAPABILITIES DO INDUSTRIAL EQUIPMENT COMPANIES NEED TO BUILD AS THEY NAVIGATE ALONG THIS ROADMAP?

A:

CHAMPIONS PRIORITIZE CERTAIN CAPABILITIES, AND INVEST HEAVILY IN THEM

CHAMPIONS WANT TO INVEST IN AUTOMATION, AND REINVENTION OF THE PRODUCT

Top 5 capabilities for scaling digital PoCs



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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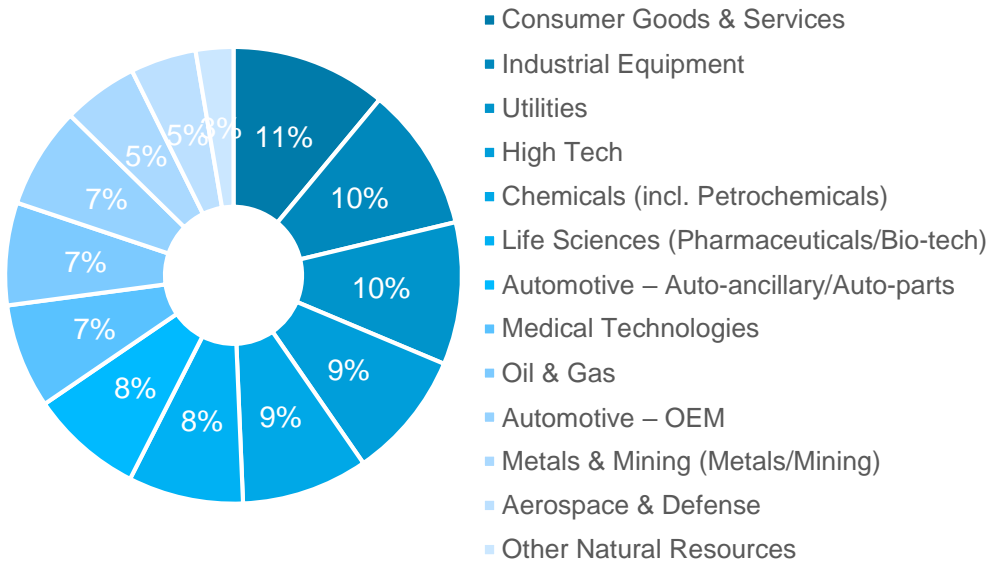
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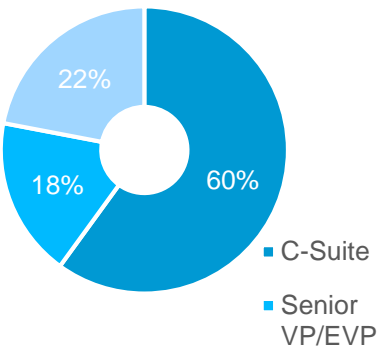
APPENDIX

SURVEY DEMOGRAPHICS – OVERALL (n=1350)

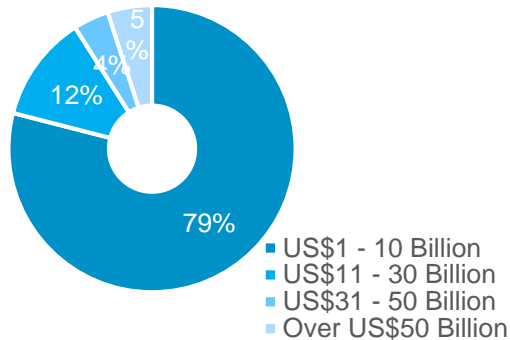
INDUSTRY



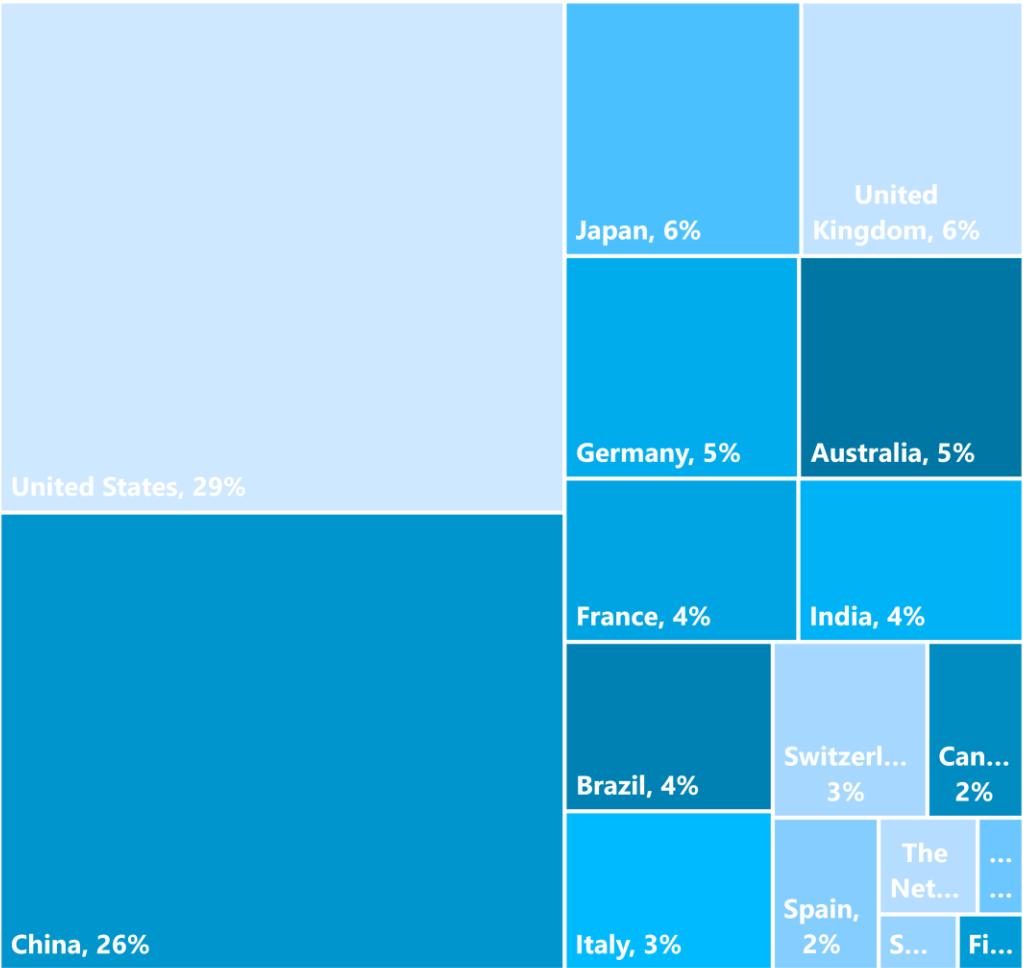
EXEC PROFILE



ANNUAL REVENUE

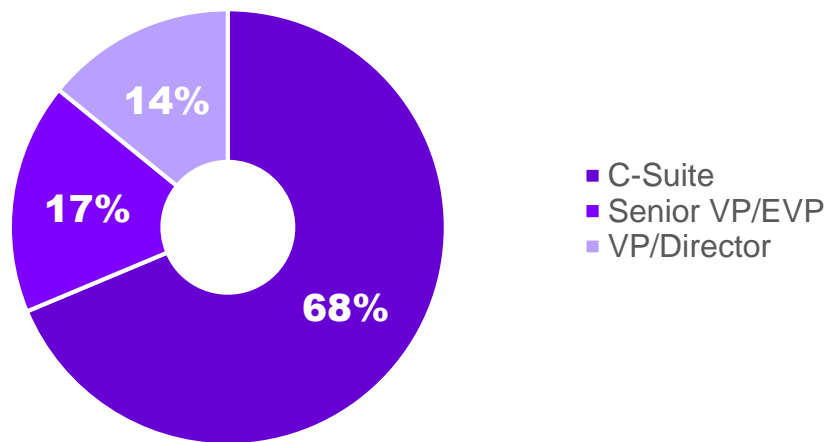


GEO-SPREAD

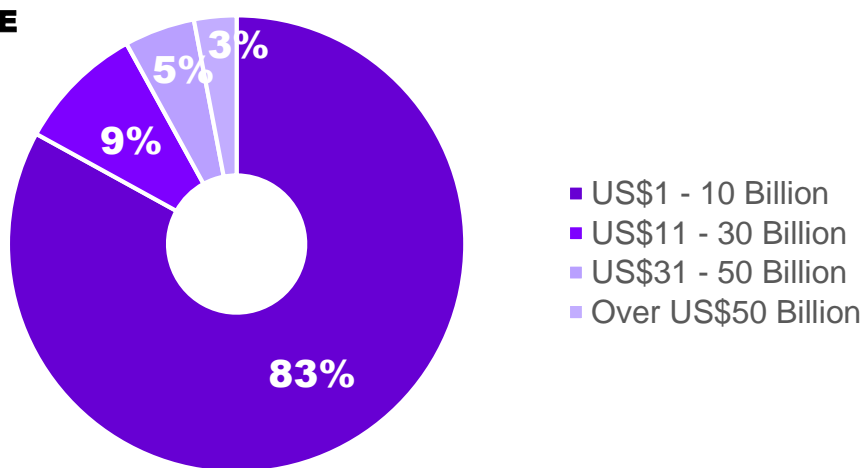


SURVEY DEMOGRAPHICS – INDUSTRIAL EQUIPMENT (n=138)

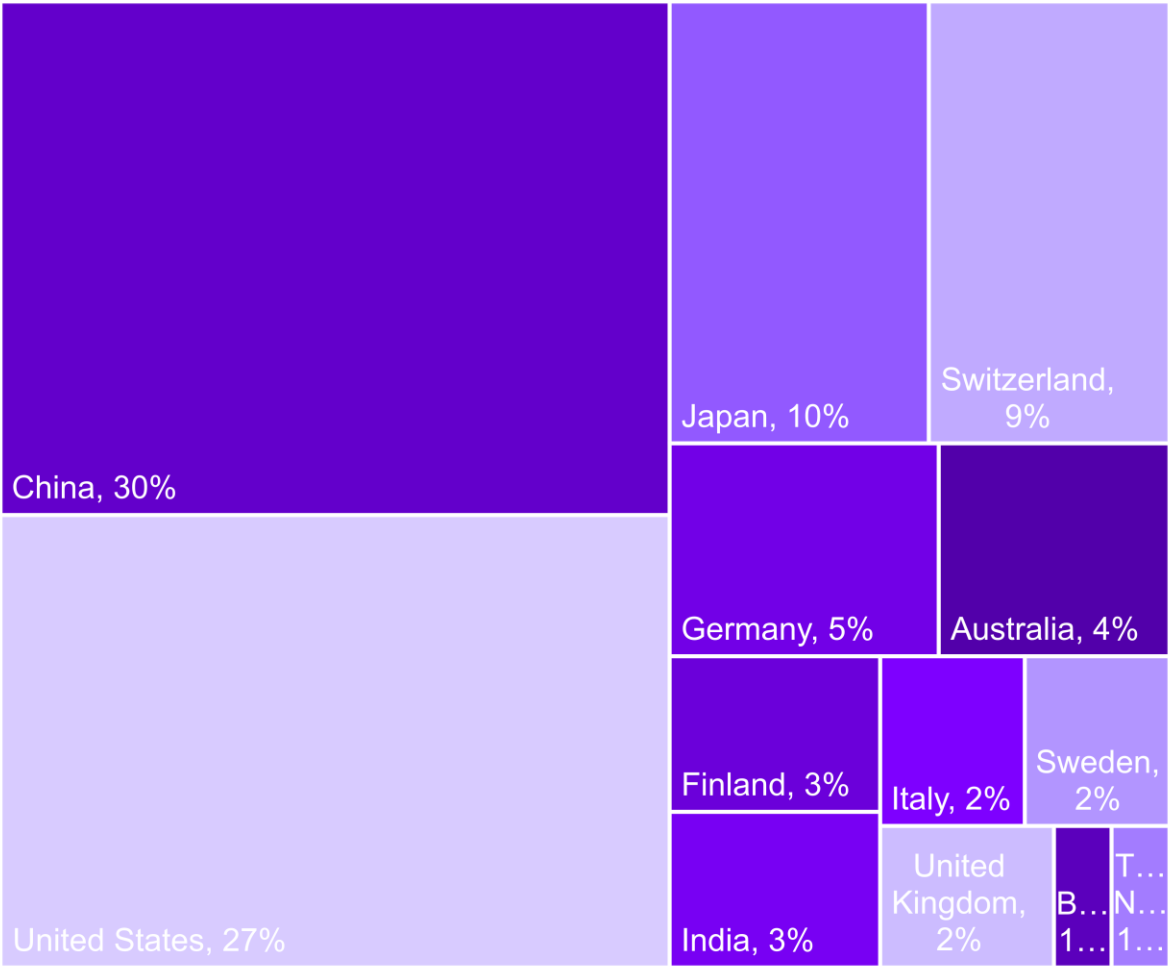
EXEC PROFILE



ANNUAL REVENUE



GEO-SPREAD



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