

The Digital Talent Gap

Looking at leaders and laggards based on a global survey of enterprise workforce digital skills readiness

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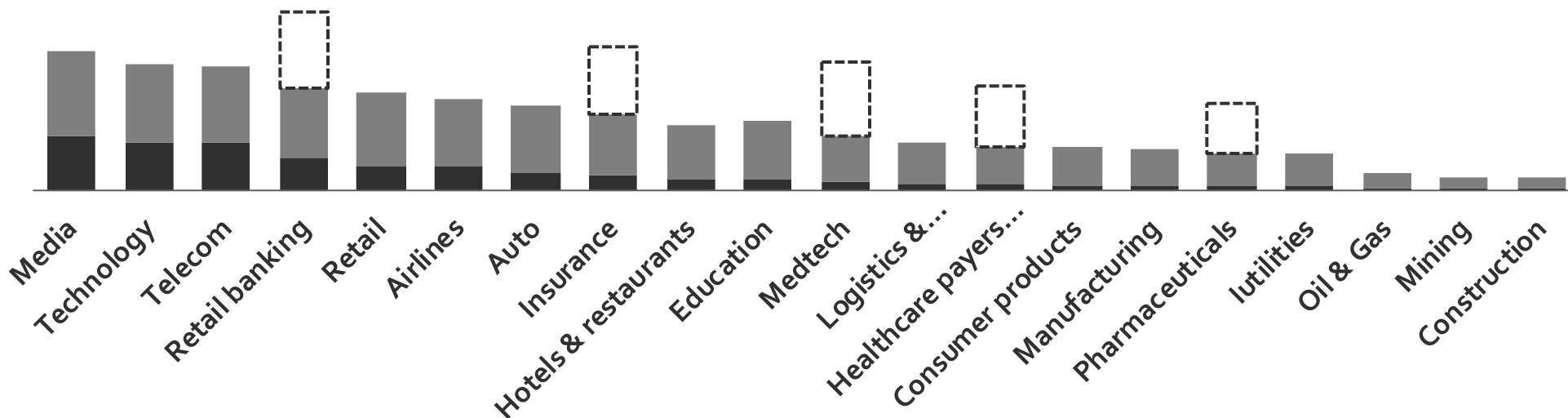
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Digital disruption is impacting almost all industries.... But current technologies will have a more severe impact on some industries... and regulations are slowing disruption in selected industries

Digital disruption by industry (2014, 2020)

□ Additional disruption, if there was no/less regulatory, legal barriers to entry of disruptors
 Incremental through 2020
 Today



Note: The rankings are based on examination of more than 300 companies engaged in Digital projects, plus additional industry interviews. We calculated relative levels of disruption based on our review of value chain impact and importance both today and in the future—that is, which segments of the value chain are most important to success in that industry and how much disruption has occurred and will occur in those segments.



The rapid increase in processing power, storage capacity, and communication speeds, all at cheaper prices, are the fundamental drivers of technology innovation

Underlying drivers of rapid technology innovation



Faster & cheaper

Processing Power

(incl. future quantum computing)



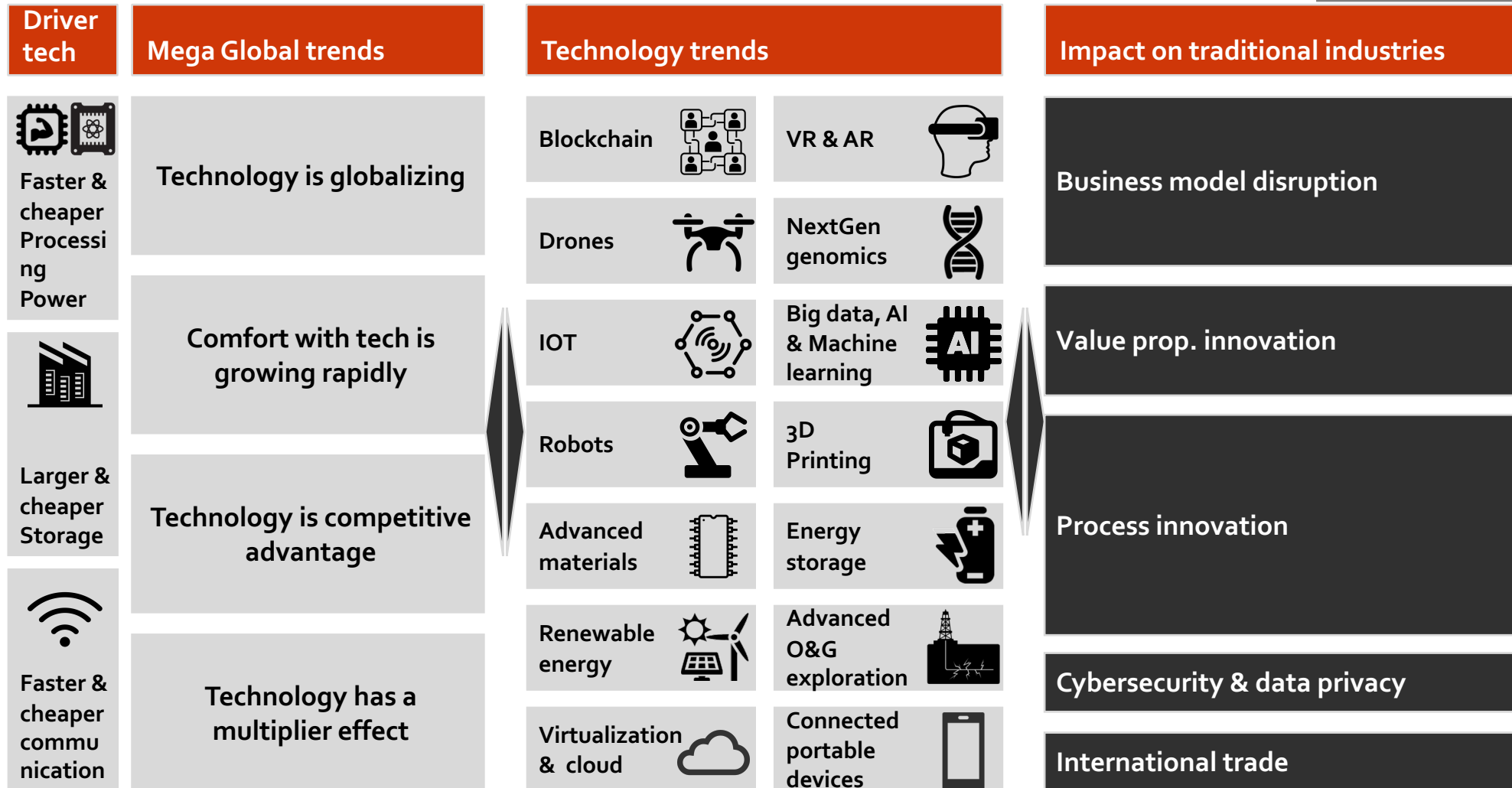
Larger & cheaper Storage



**Faster & cheaper
communication**

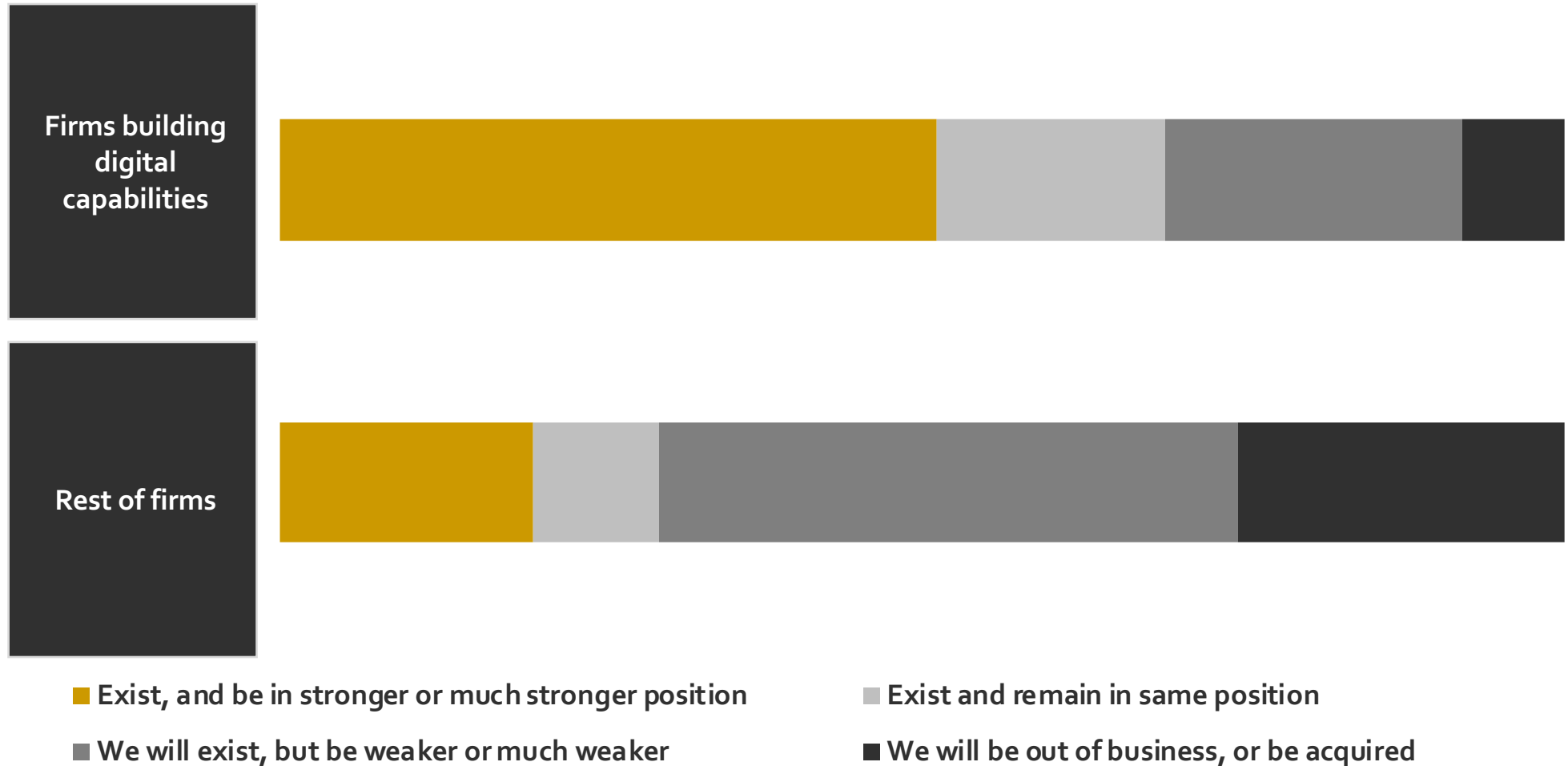
3 underlying technology drivers are having a ripple effect that are transforming industry value chains

NON-EXHAUSTIVE



Firms that are building strong digital capabilities expect to survive or thrive digital disruption, while the rest expect to disappear or become weaker due to digital disruption

Industry leaders expectations of firm survival in next 20 years due to digital disruption (2019)



Becoming digitally competitive requires action along 4 pillars of a digital transformation, underpinned by digital capabilities built into the DNA of the organization

Digital Transformation

(Define your digital strategy and how it fits into your corporate strategy)

Digitally smart core

Digitize the core, cash cow business

Digitally smart operations

- Digitize & automate back office operations

Digitally smart customer experience journeys

- Redesign experience outside-in
- Data analytics-driven insights
- Investing in digital channels
- Integrated digital & physical channels

Smart growth beyond the core

Move into adjacent businesses enabled by digital capabilities

Digitally smart collaboration platforms

- Platforms for partners to plug into, creating new revenues & enhancing the core business

Smart & selective disruptive digital plays

- Selectively target disruptive digital plays that show the highest promise & leverage organizational strengths

Digital DNA: A digitally ready organization

- Digitally smart IT and data:** Real time, integrated and converged customer and operational data analytics skills & tools
- Digitally smart culture:** Aligned, collaborative, agile, internally and with external ecosystem partners
- Digitally smart governance and structure:** Clear roles, with analytical, agile, data-driven decision making
- Digitally smart workforce and leadership:** Analytical, balance between business, managerial, & technical skills

There are critical organizational capabilities that underpin each of these pillars of digital transformation

NON-EXHAUSTIVE

Digitizing operations

Predictive maintenance

Digitized fulfilment & procurement

Intelligent process automation

Flexible IT architecture

Integrating analytics into management processes

Digitizing customer experiences

Human-centered design

Consistent omni-channel experience delivery

Agile sales and marketing operations

Data-driven customer analytics and insights

Social media optimally used

Personalized journeys

Cyber security and personal data privacy

Ecosystems, platform business models, and digital plays

Ecosystem partnerships and collaboration

Platform analytics

Robust risk management with high risk appetite

Agile project and venture decision-making

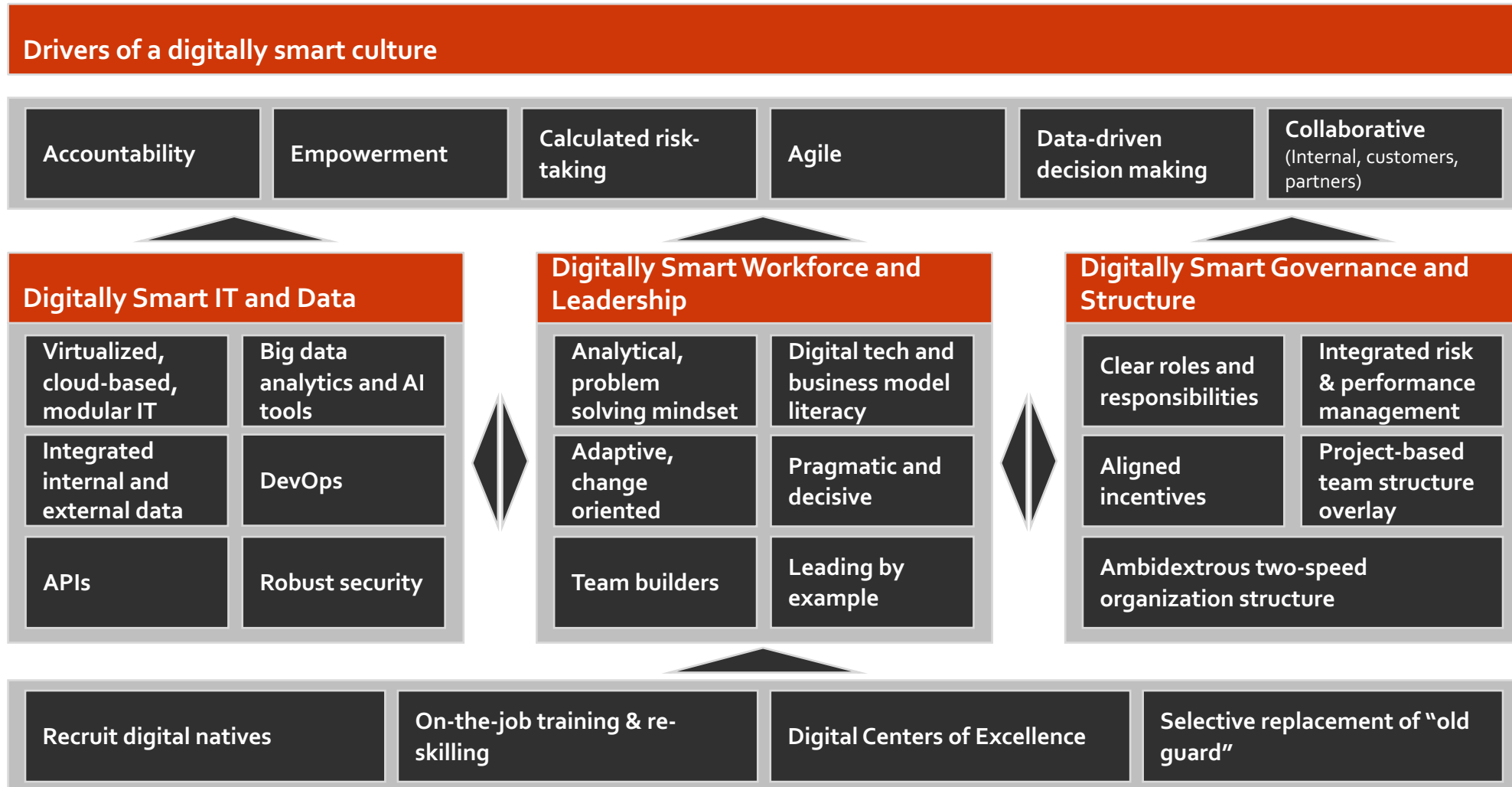
Market intelligence on adjacent markets

M&A

Venture capitalist approach

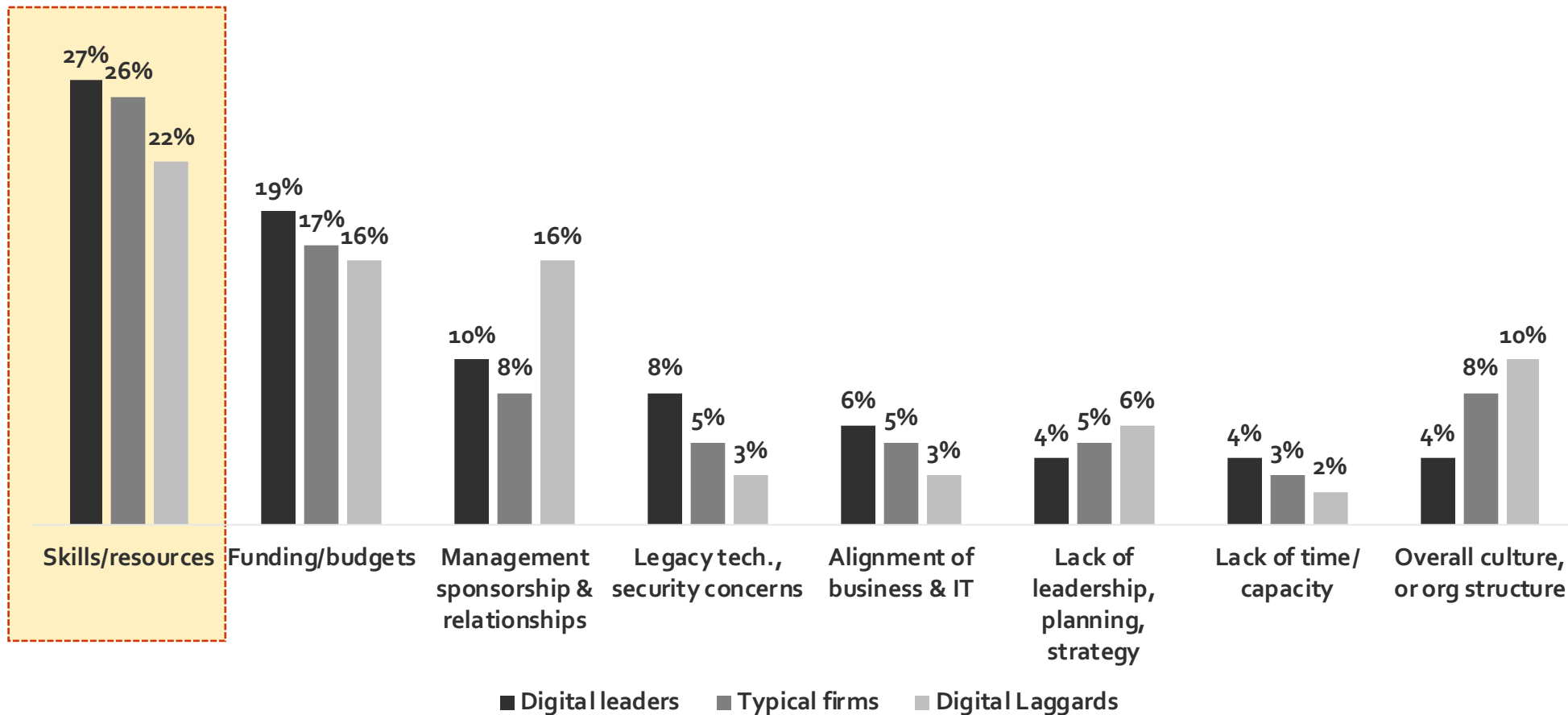
Security and data privacy protection

And underpinning all of those organizational capabilities is a digital culture that is built on smart IT, a digital workforce, and smart governance and structure



Perhaps the most difficult part of building those organizational capabilities for a digital transformation is the the workforce skills

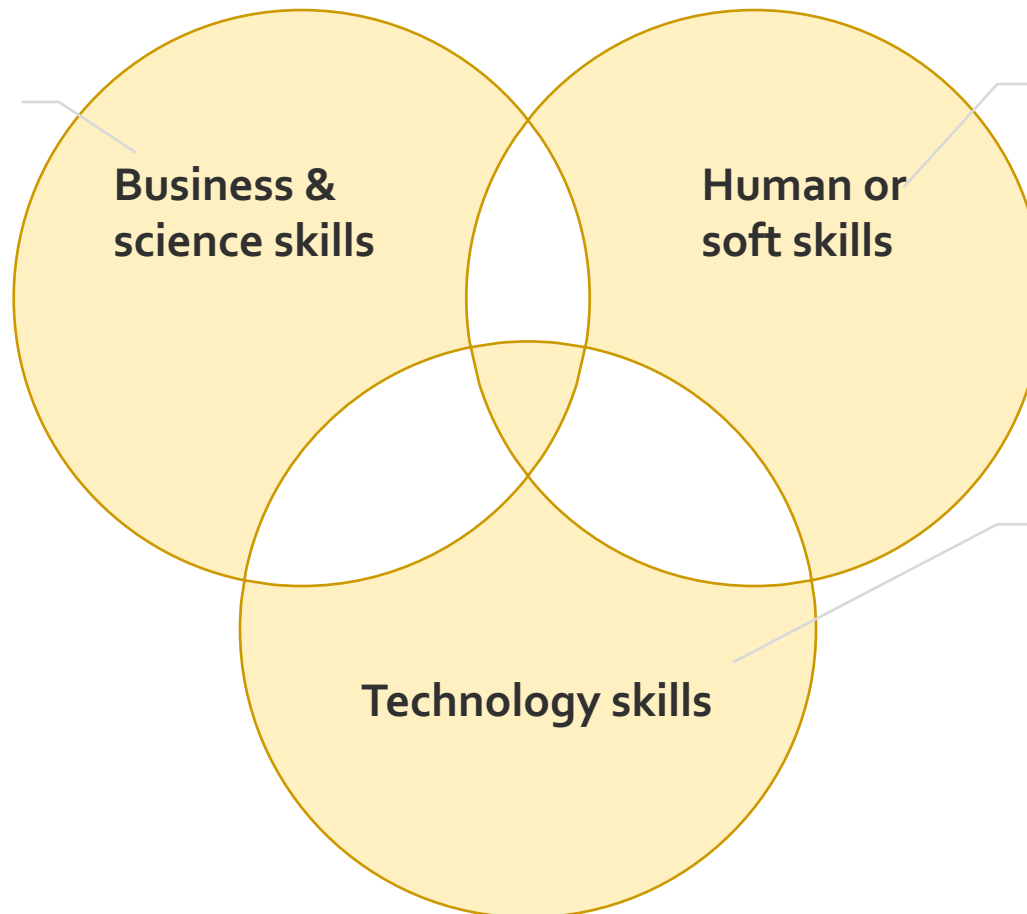
CXO barriers to achieving digital transformation objectives



Skills are of 3 types. For a digital transformation, organizations need to build all three types of digital skills

Digital re-skilling must combine 3 types of skills

Domain specialties such as marketing, org design, finance, or specific focus areas across physical and social sciences. The ability to share data across domains is contributing to new learnings and innovations

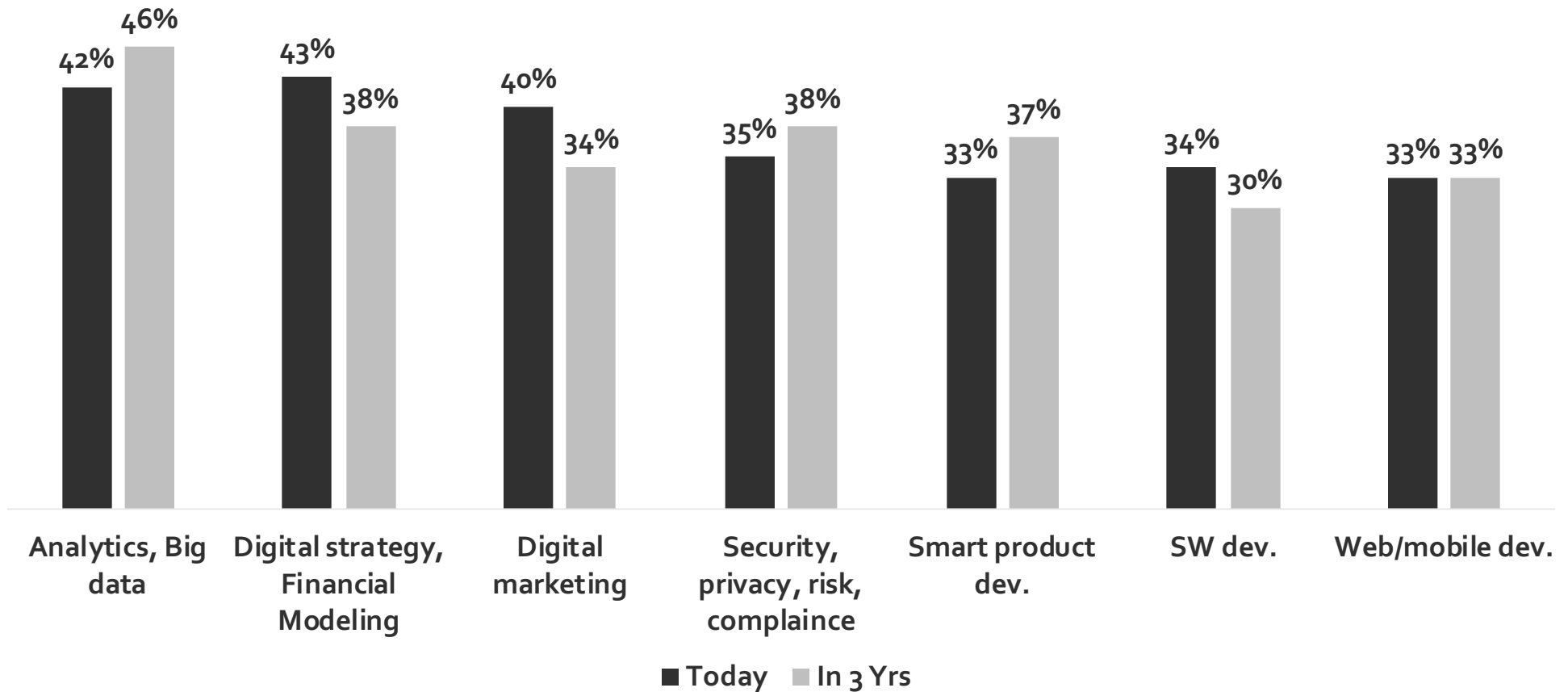


Communication
Critical thinking
Adaptability
Problem-solving
Leadership
Creativity
Innovation

From basic data literacy to applying AI to real-world problems
This area is most commonly cited as a gap for mid-career workers, as data and analytics are becoming more democratized and more useful across organizations

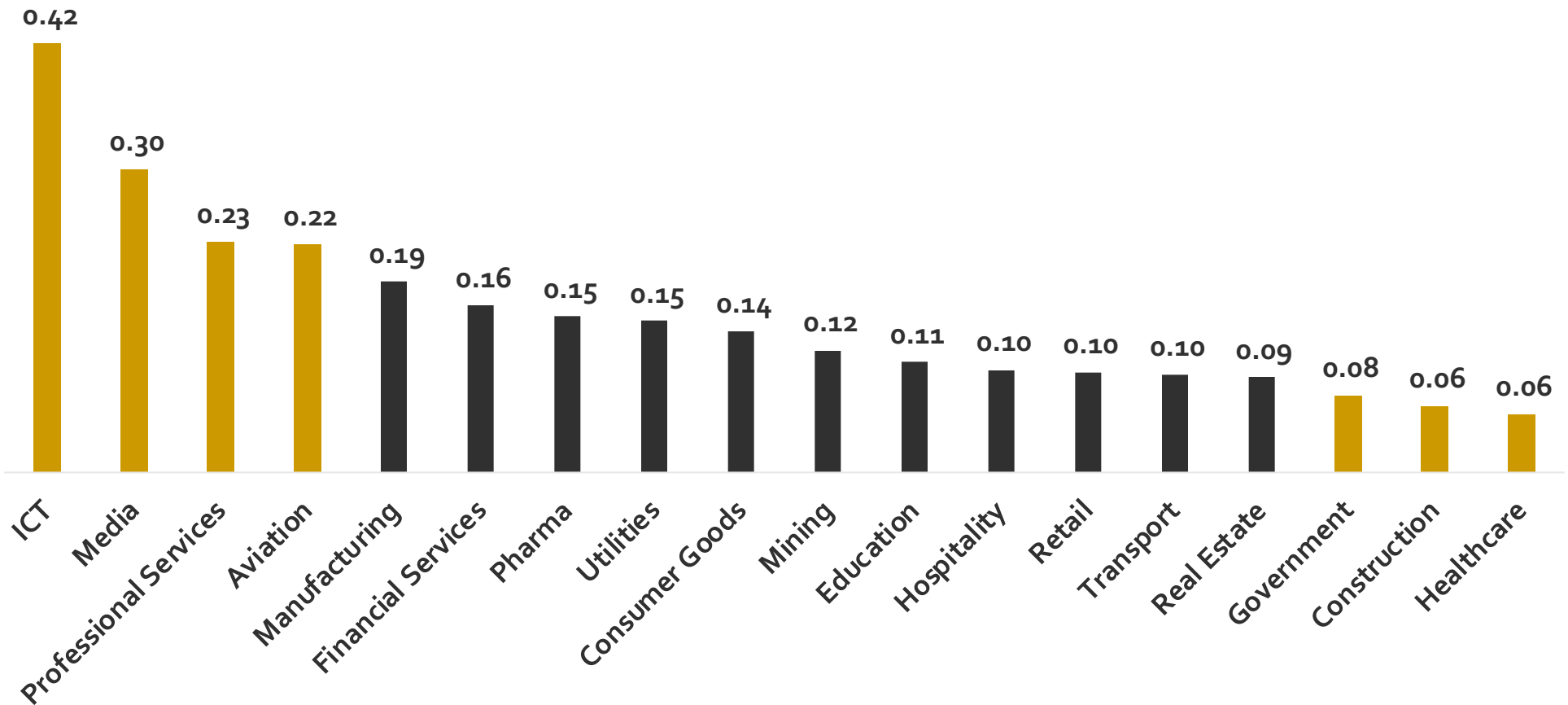
But it is the “hard” business and technical skills that have the highest gaps for organizations undergoing digital transformation

Critical skills gaps for digital transformation



Across the 18 industries we surveyed globally, aside from the ICT industry sector, most others are still in need of further digital skills development

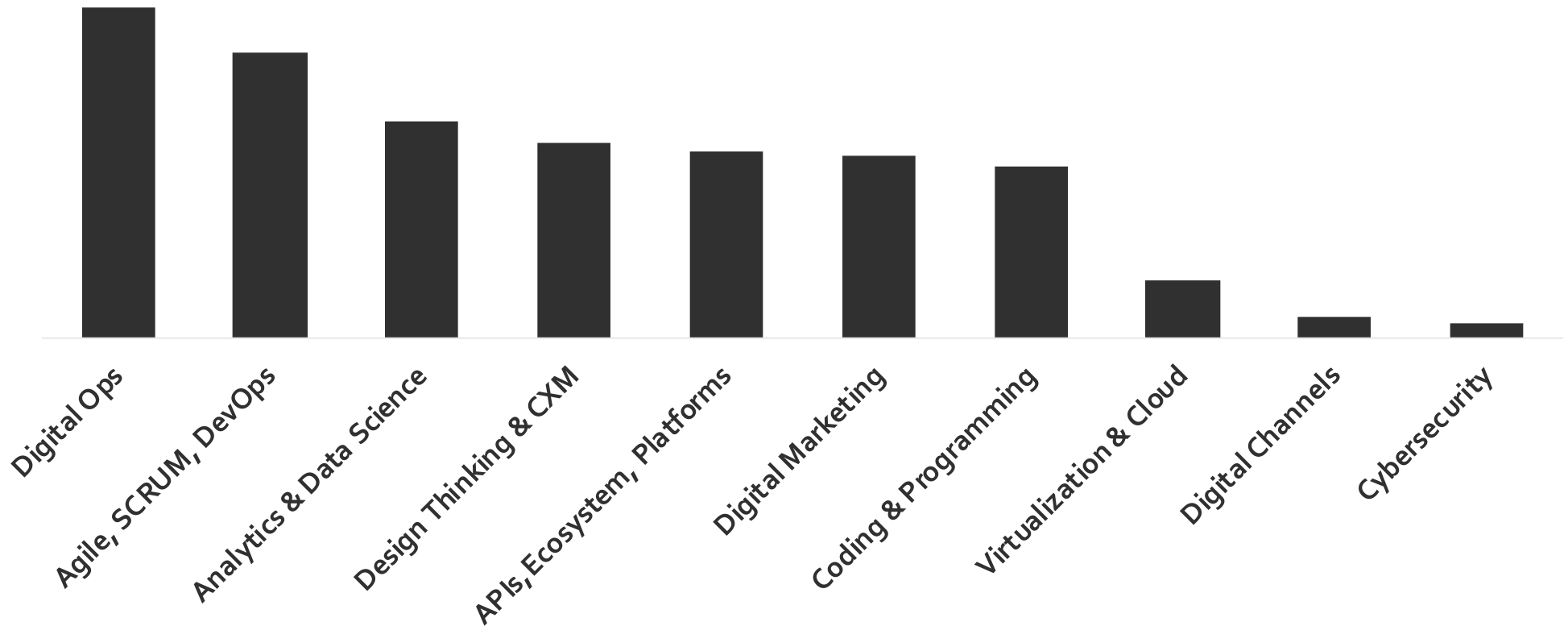
Global: Workforce digital skills readiness index by sector (Q4 2018)



Note: Index is a calculation based on % of employees having working knowledge of at least one digital sub-skill

Across all industries and countries, firms have focused on developing skills required for digitizing operations, agile, DevOps, analytics and customer experience management

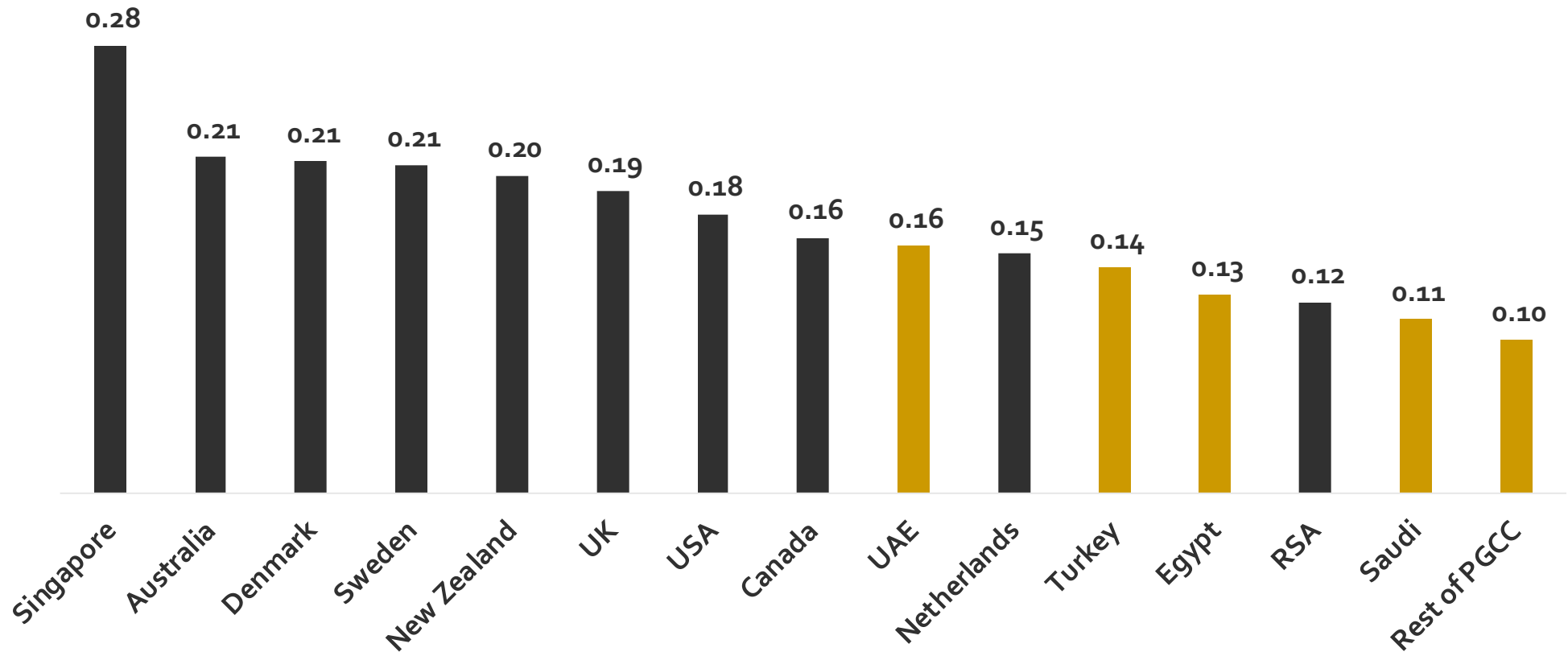
Global: Workforce digital skills readiness by skill type (2018)



Note: Index is a calculation based on % of employees having working knowledge of at least one digital sub-skill

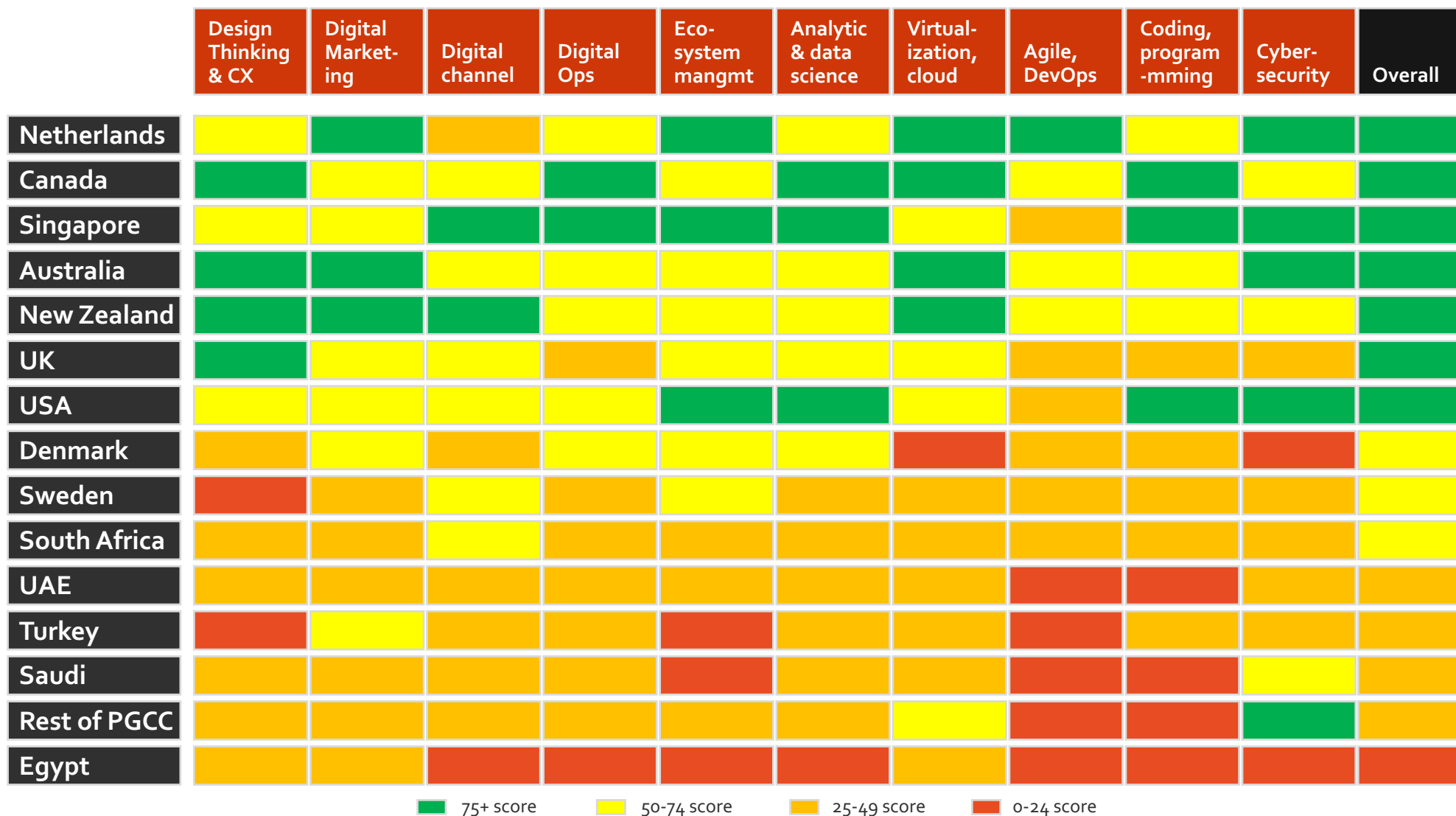
The Middle Eastern countries have some ways to go to reach the level of workforce digital skills readiness of leading countries such as Singapore & Australia

Global: Workforce digital skills readiness index by country (Q4 2018)

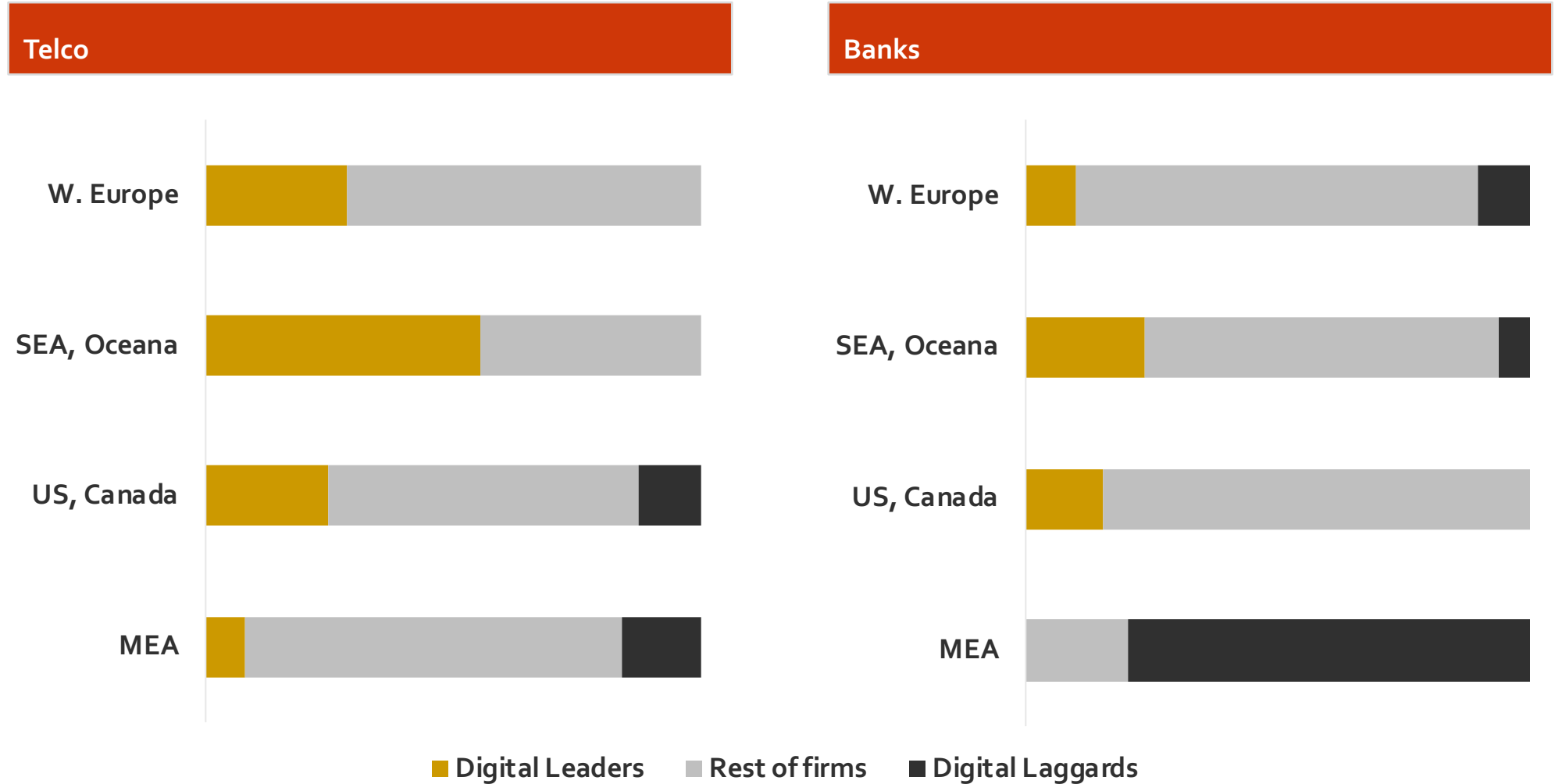


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From one sample industry (banking) we see that the Middle Eastern countries are ranked low in workforce digital skills readiness across most skills categories

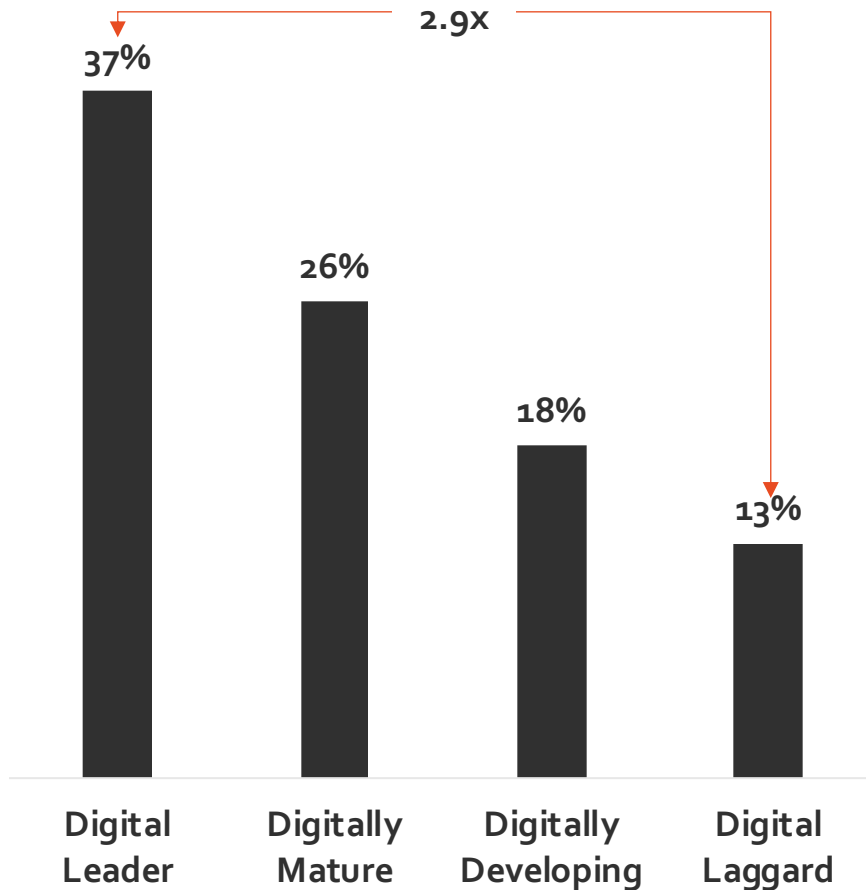


The reason for this weakness in workforce digital skills readiness in the Middle East is that the region lacks digital leader firms compared to other regions

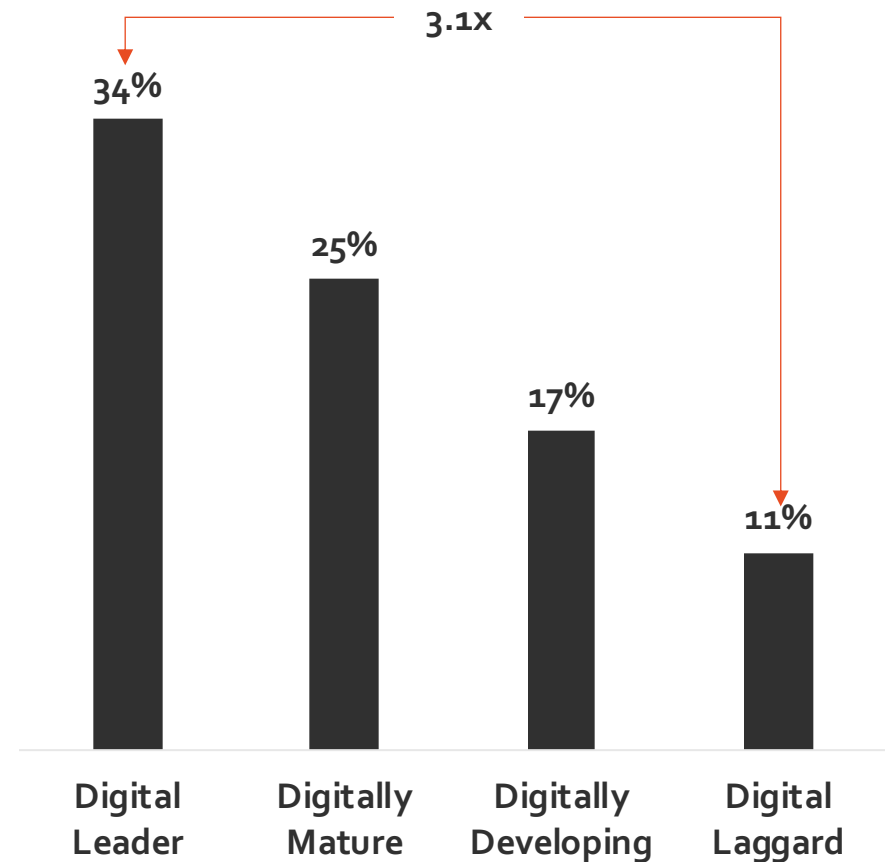


And our survey findings demonstrate that the gap in workforce digital skills between digital leader firms vs laggards is substantial

Telco sector



Bank sector

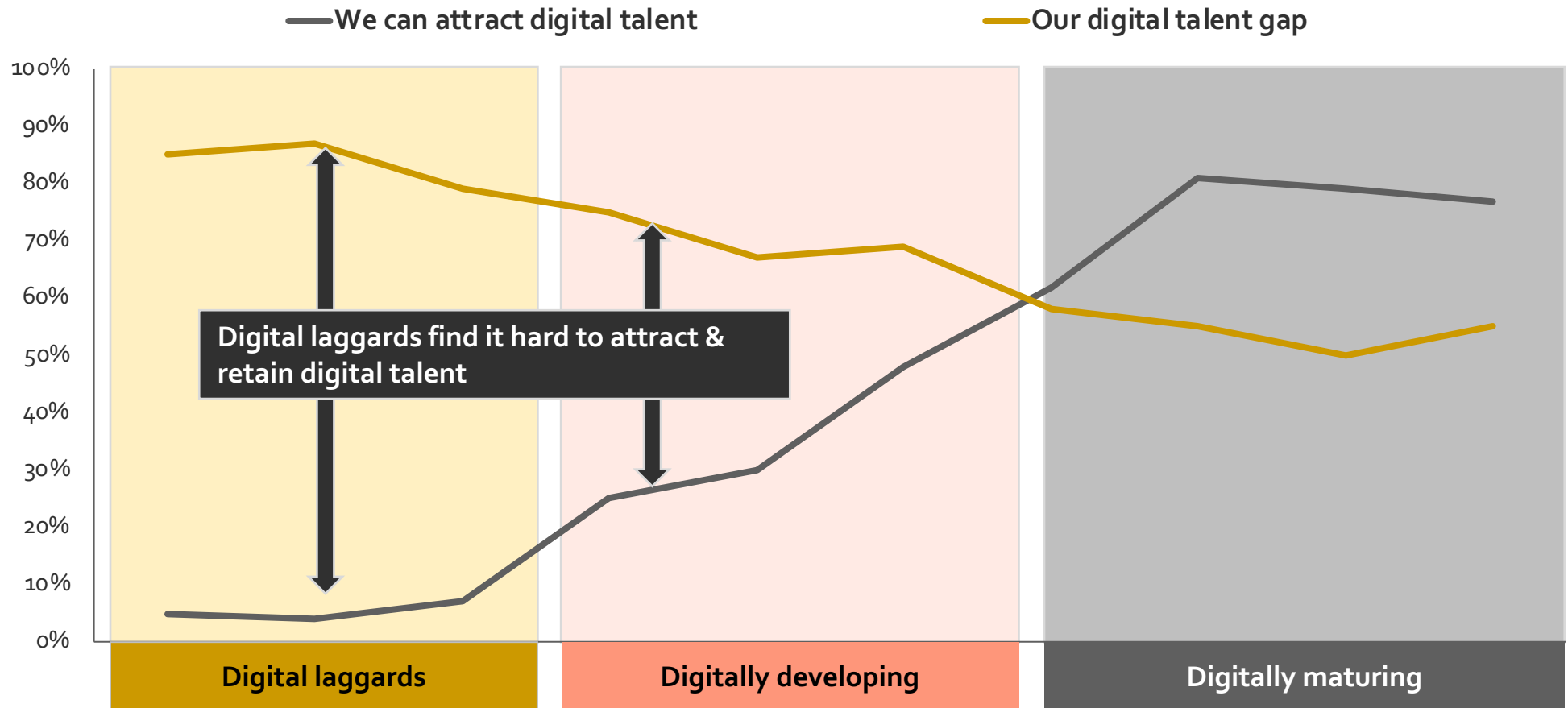


Note: Index is a calculation based on % of employees having working knowledge of at least one digital sub-skill



But not only are digital laggards far behind in skills readiness, they also find it very hard to attract and retain digital talent compared to digital leaders

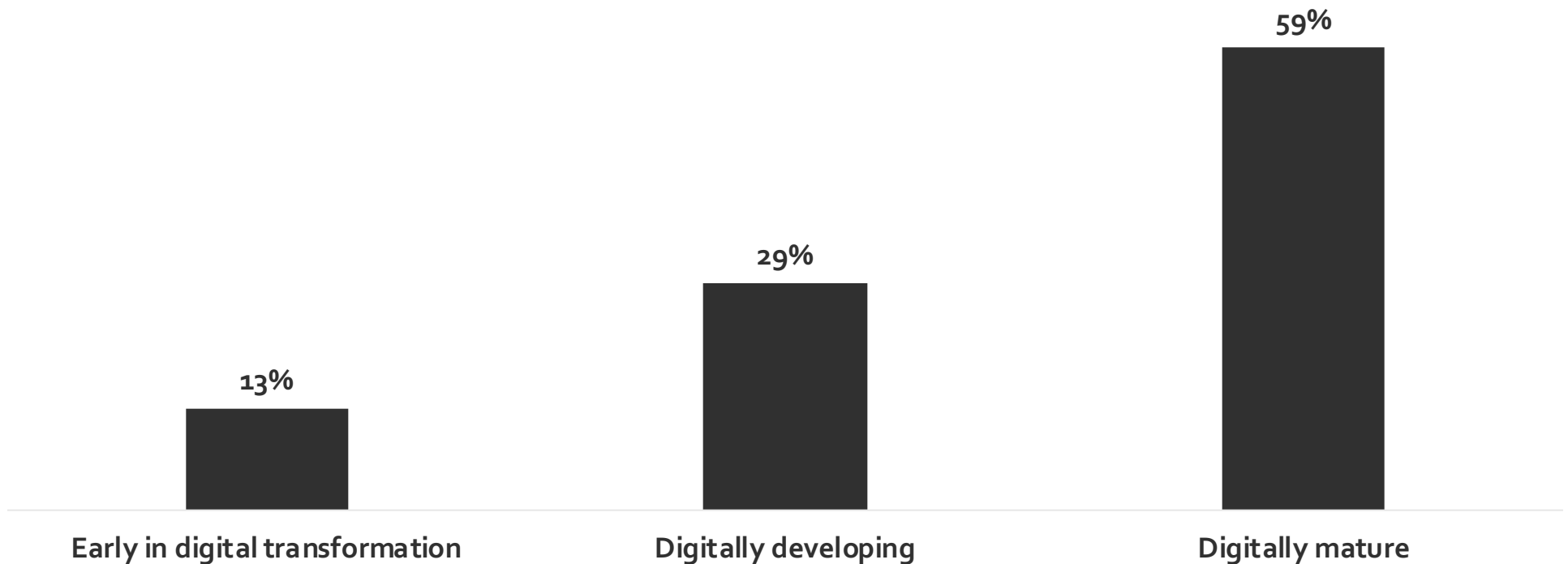
Talent gap of organizations by firm digital maturity



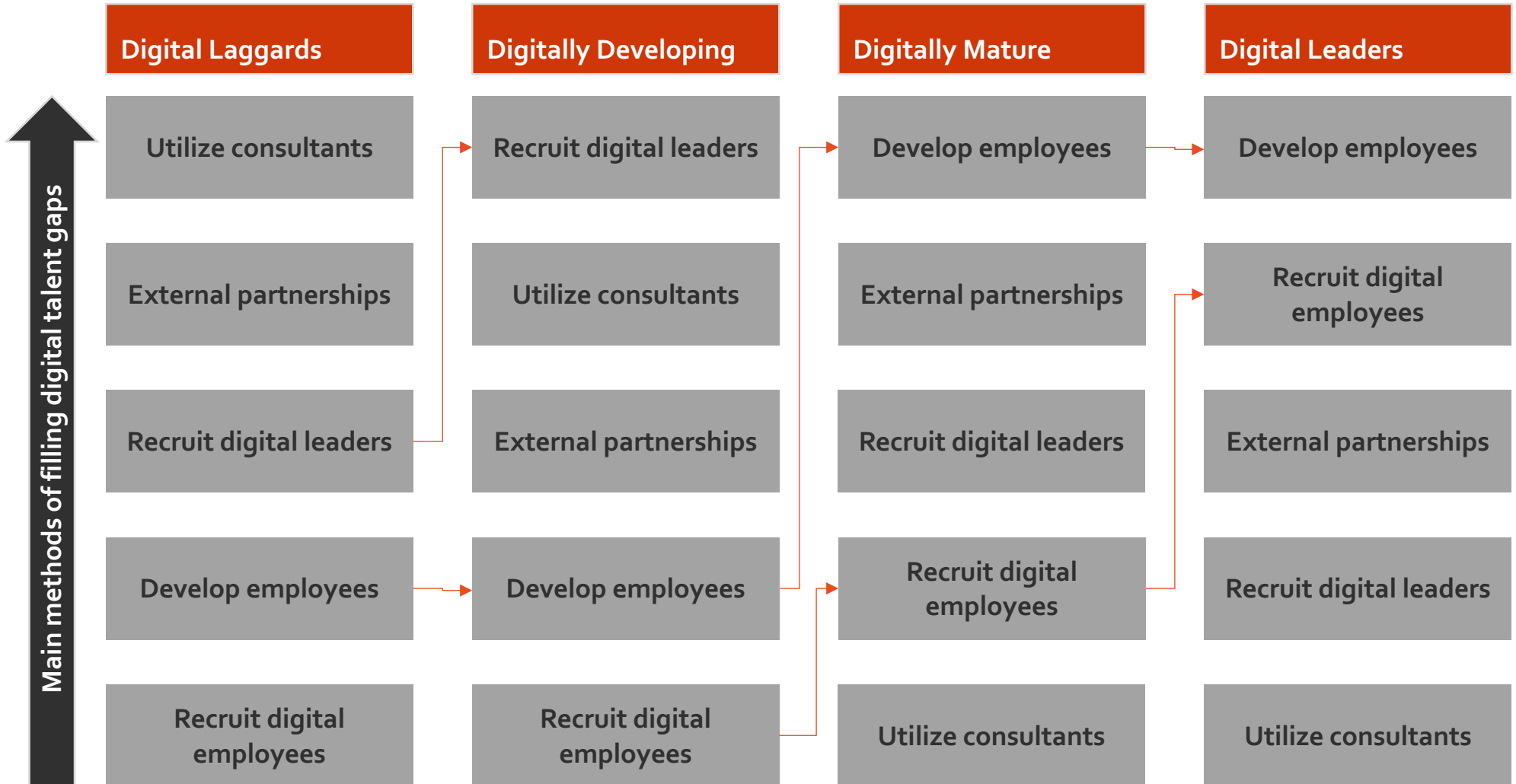
One of the reasons digital leaders have a higher workforce digital skills readiness is their focus on developing and updating their employees' skills

Organization's level of support in enabling workforce skills updating by digital maturity (% of respondents)

Question asked: am satisfied with how my organization is helping me prepare for the changes necessary for working in a digital environment

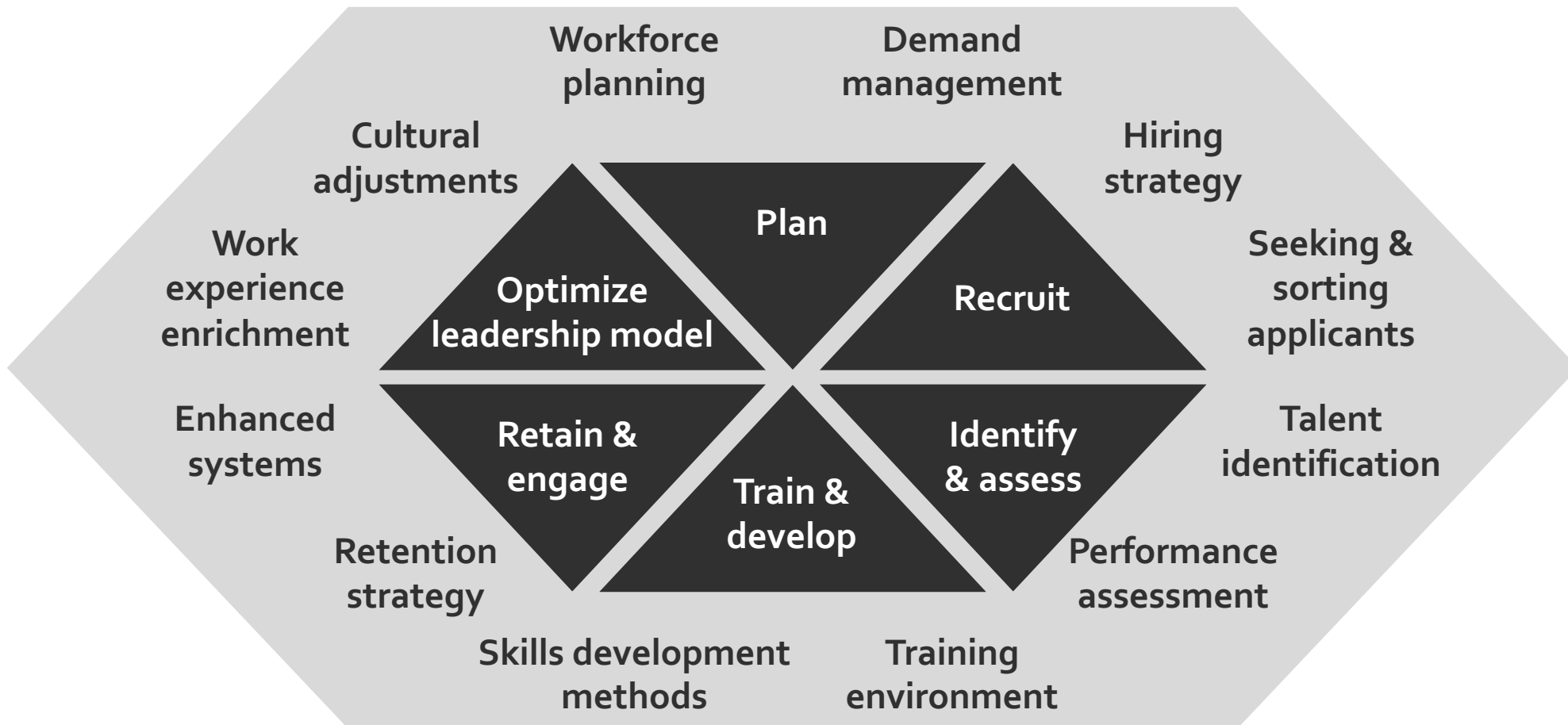


But if you are at the beginning of your digital transformation journey, how do you manage to fill your skills gaps in the short term?



For organizations to close the skills cap in their workforce, we recommend a 6-step approach

Six steps to closing the skills gap in your workforce



Thank you!

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