



DIGITALBCG

Accelerating digital to build the 'bionic company'

BCG's Digital Acceleration Index (DAI) to measure digital maturity

SEPTEMBER 23, 2020

Agenda

➤ The Bionic (Digital) Company

Measuring digital maturity

What bionic companies do differently

Case: Digitizing Government

COVID-19 is forcing companies to face a new reality



High uncertainty
complicating decision
making, effective
responses and planning



**Disruption to operations
& supply chain** resulting
in lost revenue and
increased costs



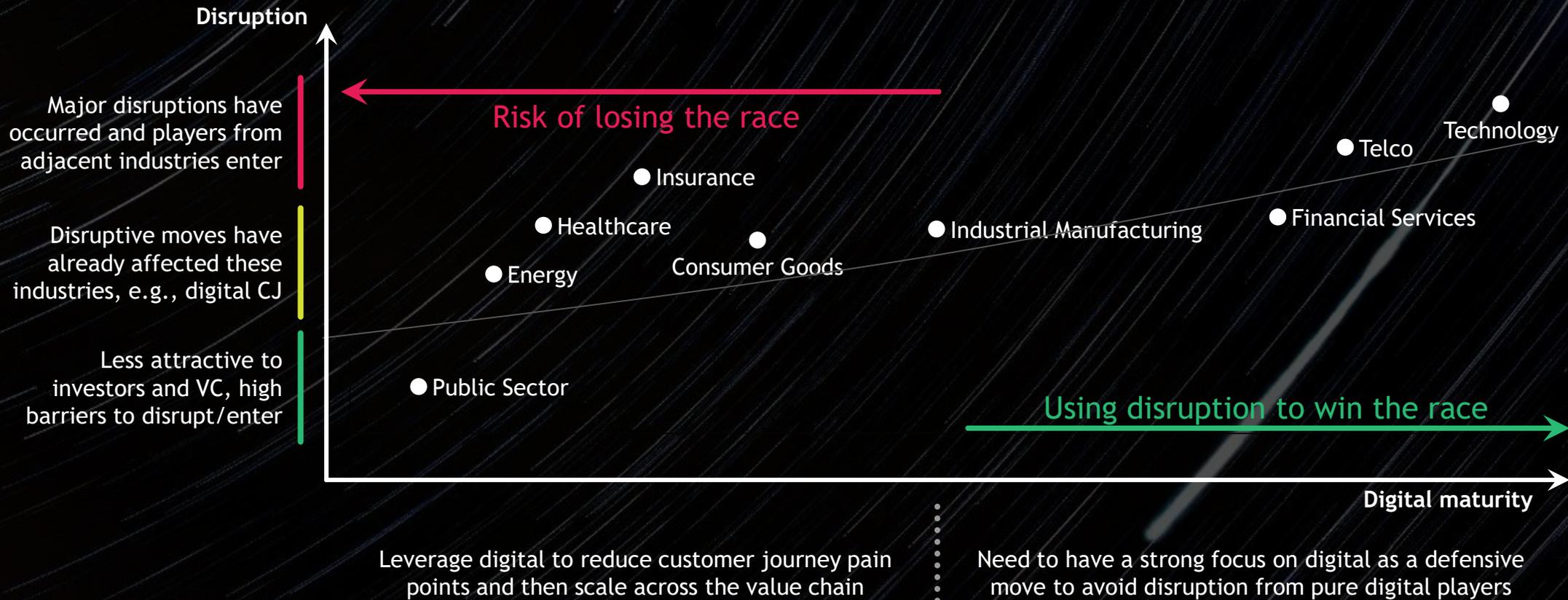
**Suboptimal workforce
allocation** for fast
changing supply/demand
and new ways of working



**Drastic change in
consumer demand**
requiring ways to re-
build it and find growth

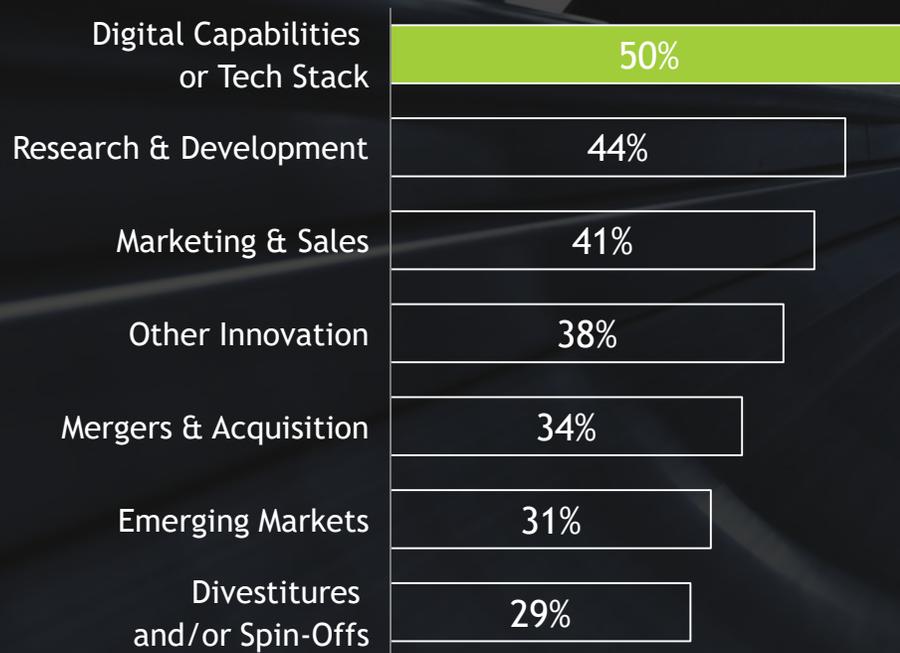
» Companies are looking to deploy solutions quickly, and
plan for a successful recovery

Basically all industries need to cope with digital disruption



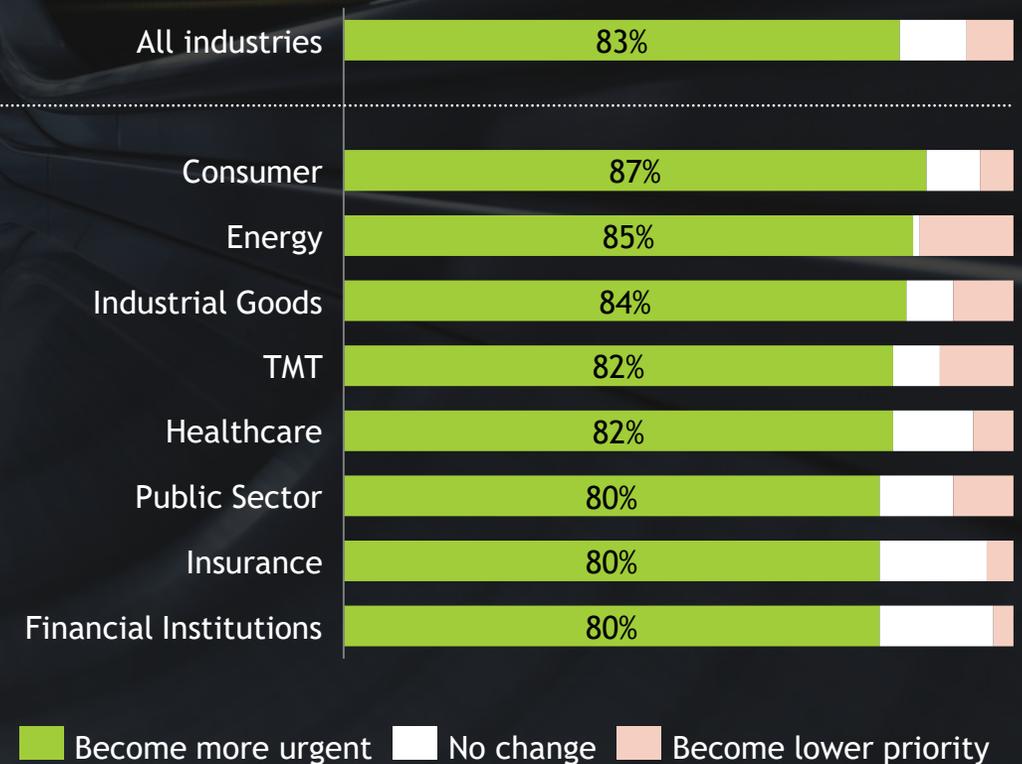
Pre-crisis, digital capability investments have been top priority

Investor views on priority areas companies should aggressively invest in¹



Now, ~80% of companies plan to accelerate digital transformations

Percentage of respondent², by views on priority of digital transformation post crisis

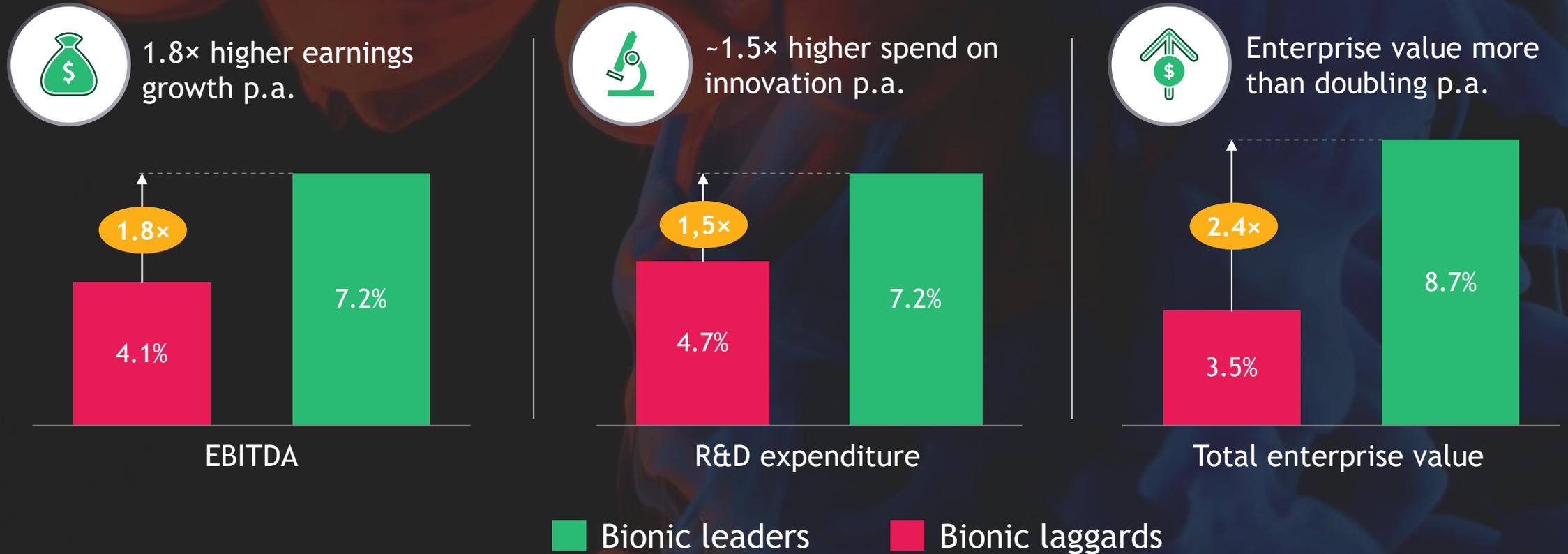


1. Respondents were asked what percentage of companies should be more aggressive in pursuing the following strategies for value creation

2. Respondents asked if COVID-19 pandemic affected the urgency of their organization's overall digital strategy

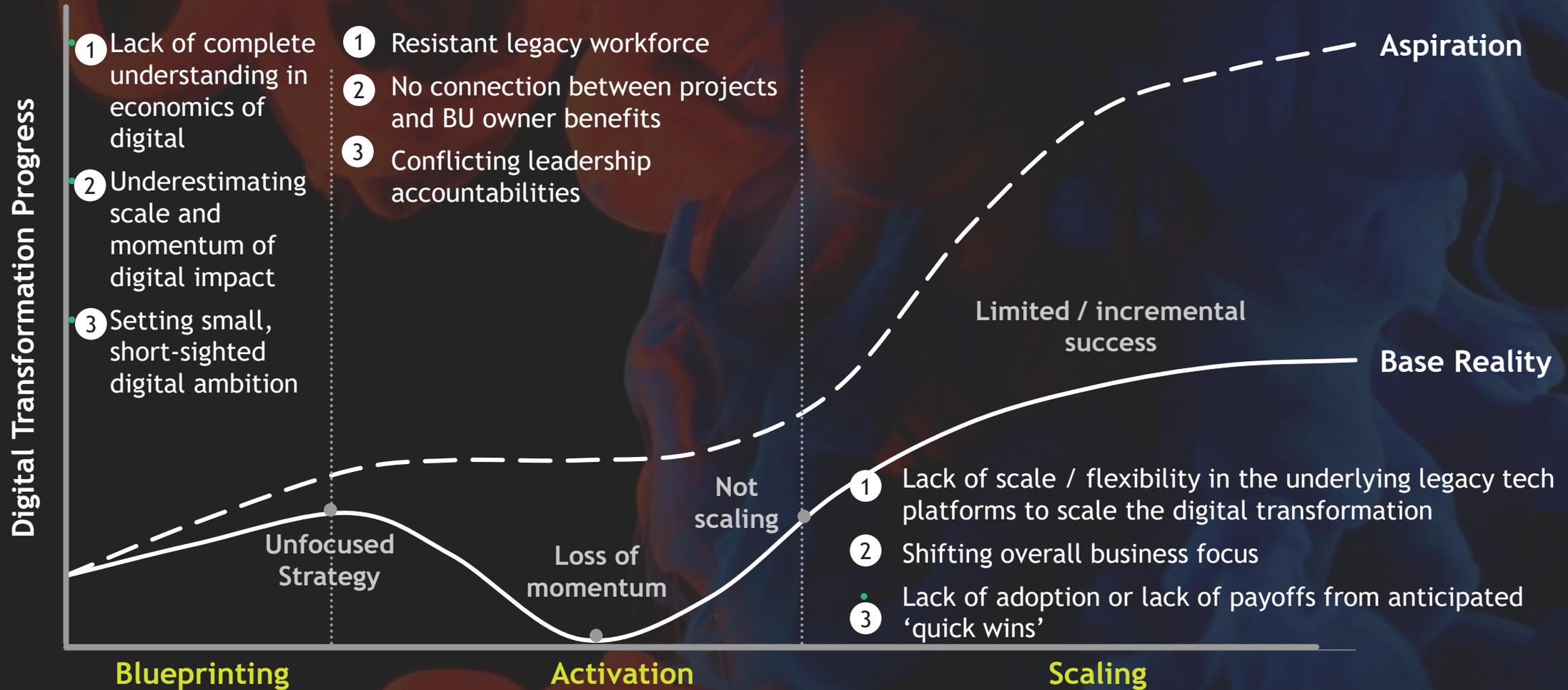
Source: DSR Digital Transformation 2020 Survey still ongoing with n=775; BCG 11th annual investor survey 2019 with n=251

Leaders outperform laggards in earnings, innovation and value



1. Digital Performer and Digital Leader aggregated to one category
Source: Capital IQ (n=224), DAI Global Database

Still, several challenges why digital transformations fail to deliver



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➤ **Measuring digital maturity**

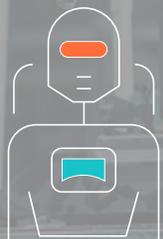
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Now, the overall nature of work is transforming significantly

From human operated ...

... to human designed



**Human
operated**

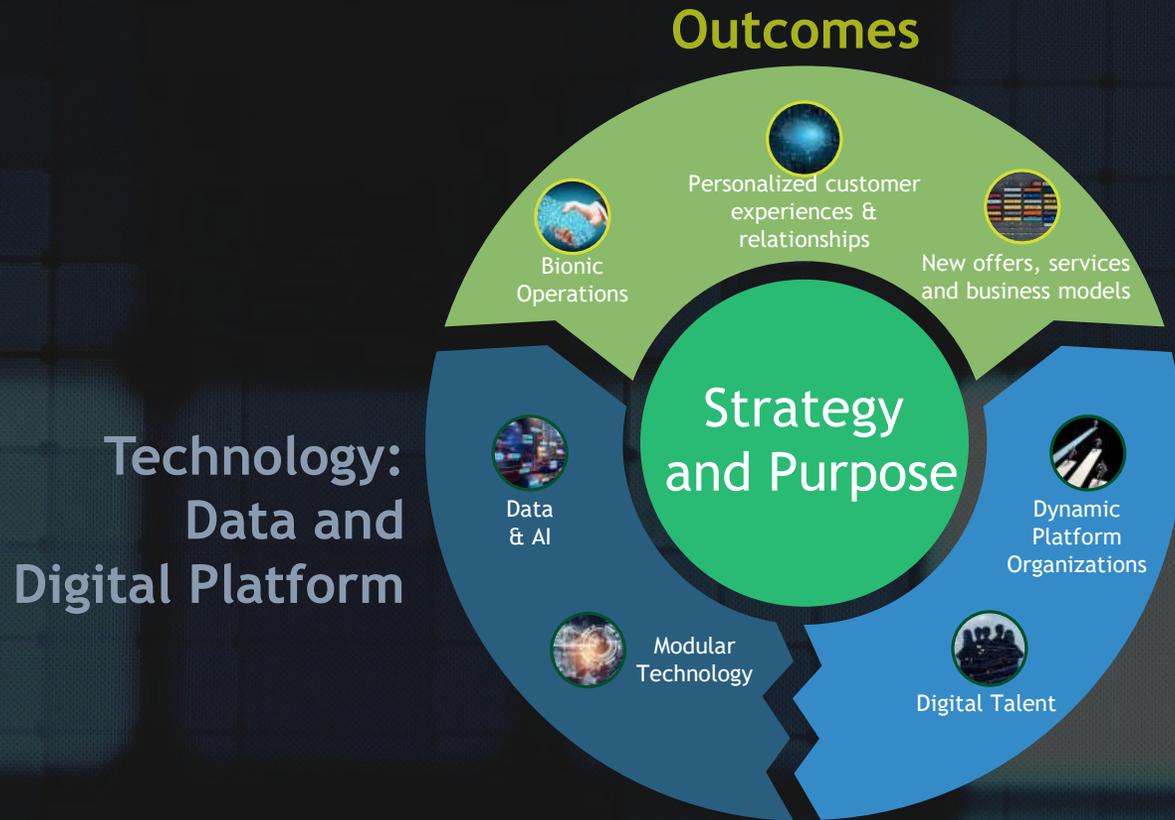


**Technology/AI
augmented**



**Technology/AI
transformed**

The company of the future is bionic

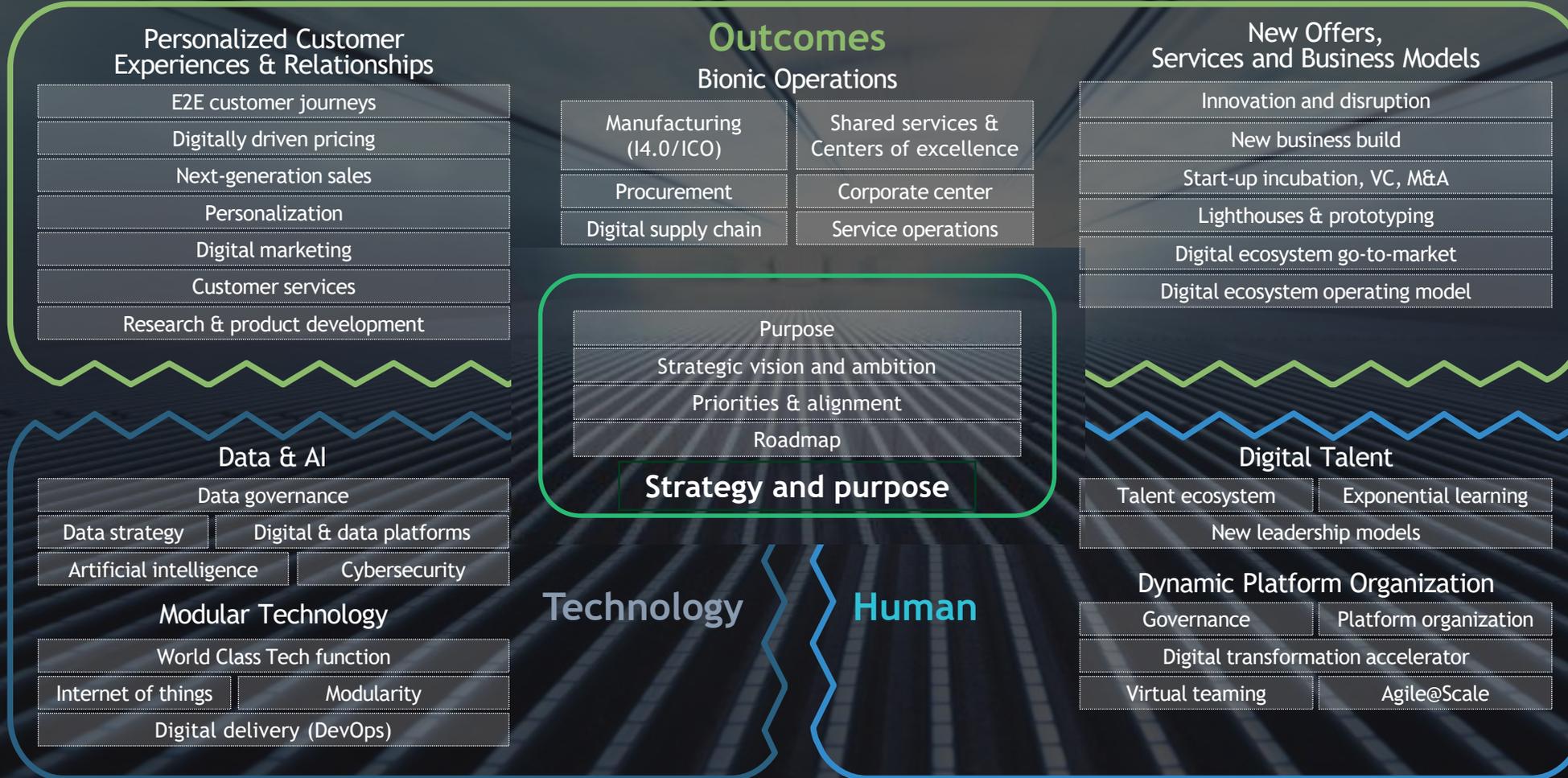


Building the Bionic Company means "designing technology and the human org around each other to realize transformation outcomes operations, customer experiences & relationships, and new offers and businesses"

Human: Org, Talent, Ways of working

Bionic DAI with 40 dimensions to measure digital maturity

Level 3 - 40 dimensions



Bionic maturity

Each dimension is scored along 4 maturities to calculate overall DAI

DAI score
Bionic maturity
(1-100)

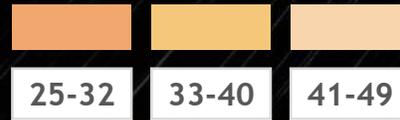


Starter

Unclear Digital vision

Business and IT sometimes work on digital topics based on ad hoc demands, align only if projects jointly executed

Organization not yet digitally enabling

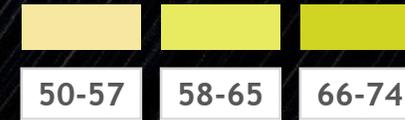


Literate

Clear vision/strategy & roadmap defined

Processes are being digitized and Businesses, Functions execute digital initiatives, but in functional silos

Digitally enabling governance in place

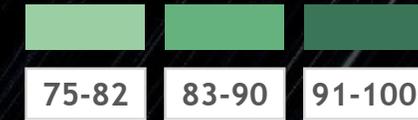


Performer

Strong digital mindset and agile culture

Business and IT have jointly built key Digital capabilities across all areas

Digital initiatives are built & commercialized with success. Some disruptive businesses have already been launched



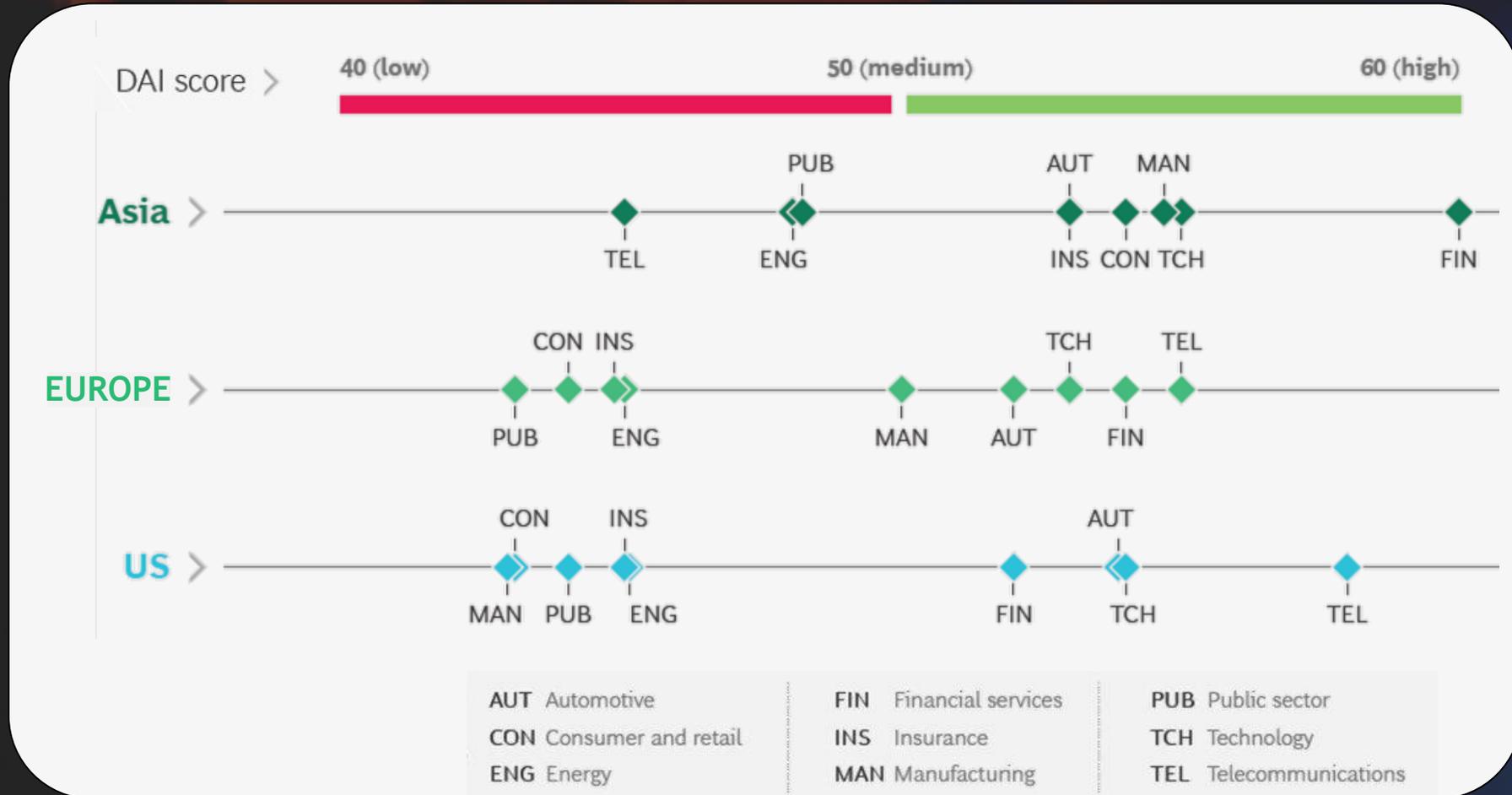
Leader

Initiatives are contributing to strategy with a clear value added

Digital has been embedded throughout the company: innovation, value proposition, tech, & ops.

Outperforms peers in key digital metrics, and digital is seen as the key driver of the company value

Global study 2019 | FI and Telco companies with highest DAI scores



Gap between top and low sectors smaller in Asia vs. EU or US

Europe with no sector which is globally leading

High spread in US btw top sectors & those falling behind

Note: Scores are the average DAI score from 0 (lowest) to 100 (highest) per industry in a region.
 Source: BCG global DAI study 2019

Agenda

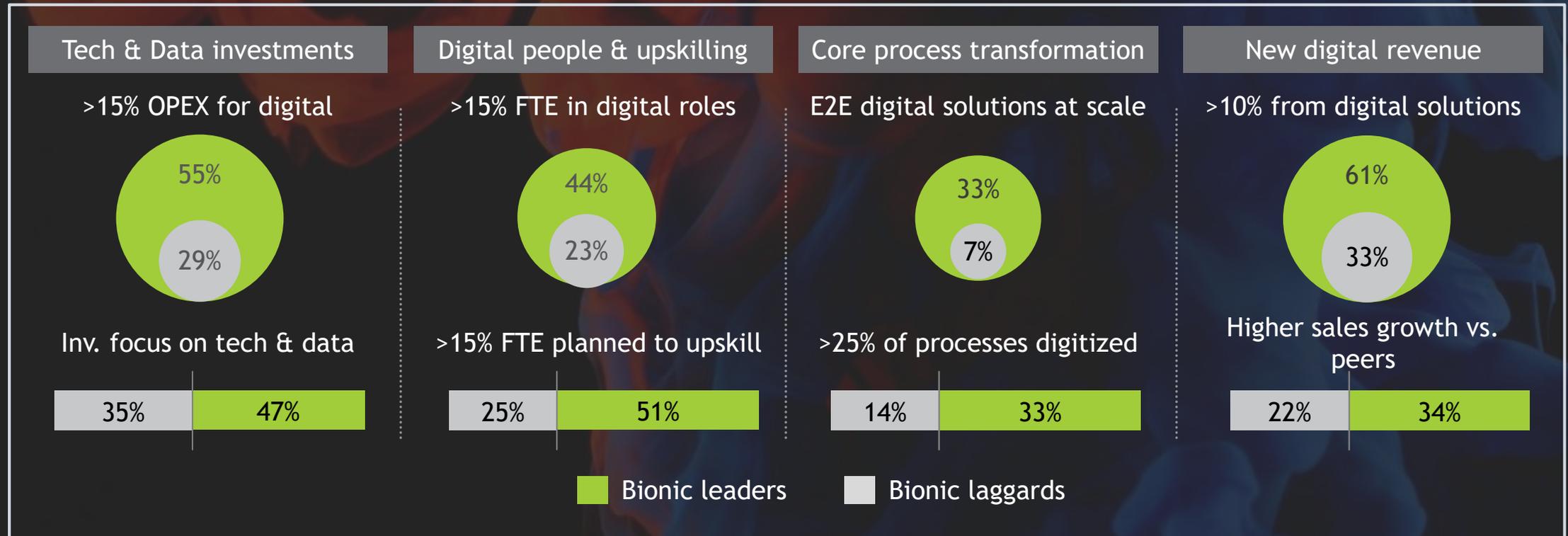
The Bionic (Digital) Company

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➤ **What bionic companies do differently**

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Bionic companies apply four boosters in their digital transformation

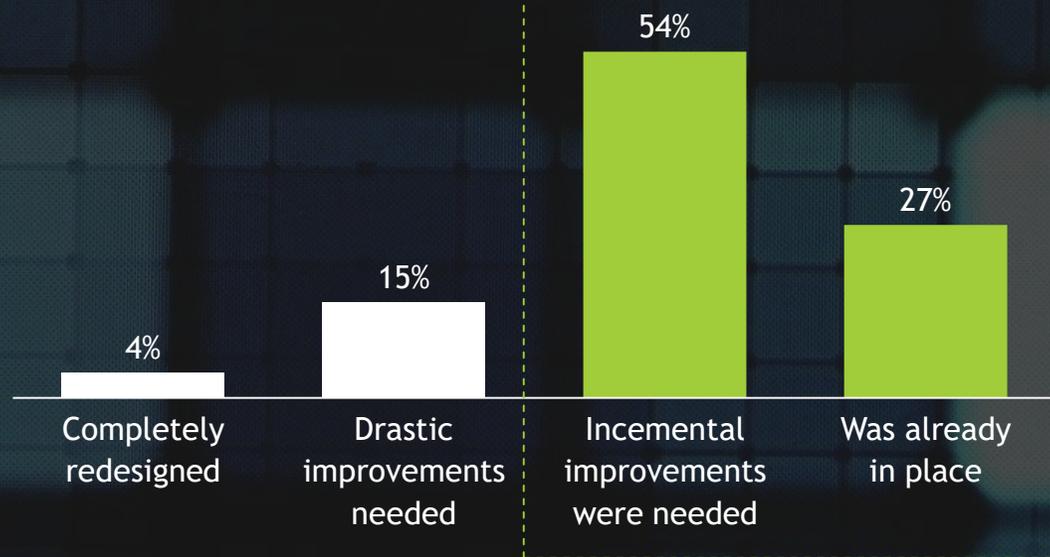


>60% companies incorrectly assessed changes needed to technology

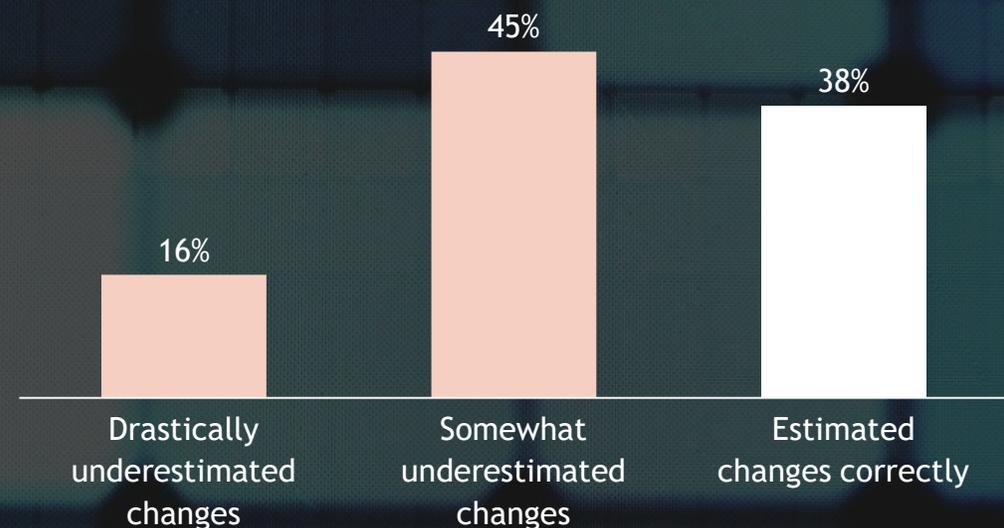
~80% of companies felt they had necessary IT architecture to support digital transformation¹

In hindsight, >60% among them said they underestimated the changes required²

Percentage of transformations, assessment of IT infrastructure available



Percentage of transformations, estimation of IT changes required



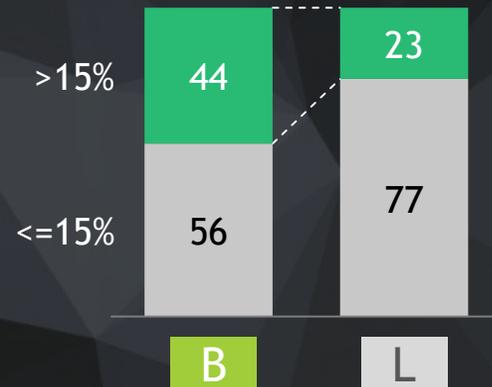
1. Respondents asked to rate the level of sophistication of IT architecture / data and digital platform to support digital transformation initiatives
2. Respondents asked to identify in hindsight the ability to plan the type of changes to IT infrastructure and data platform required to allow for flexibility
Source: DSR Global Digital Transformation 2020 Survey; n=825

Bionic companies prioritize human enablers

Dedication of people

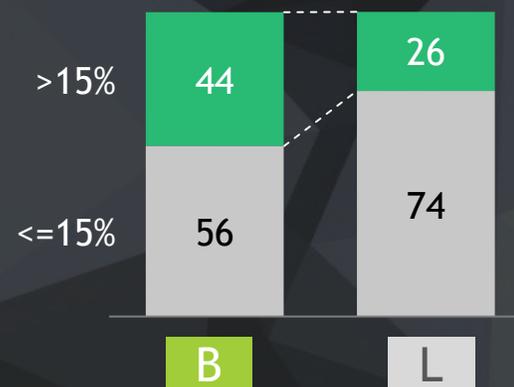
Dedication

Q: Share of FTE dedicated to digital / working in digital roles



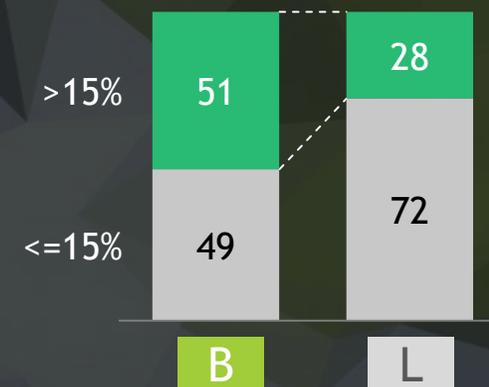
Hiring

Q: Digital FTE growth target in coming 3 years



Upskilling

Q: Share of FTE for upskilling in digital along the coming year



■ Bionic companies ■ Bionic laggards

Companies that transform successfully, follow 6 key success factors



Define strategy and Purpose

Integrated strategy with clear transformation goals

1



Drive to Outcomes

Leadership commitment from CEO to middle management

2

Effective monitoring of progress towards outcomes

3



Invest in Human

High-caliber talent dedicated to transformation program

4

Agile leadership & persistence, driving broader adoption

5



Invest in Technology

Flexible, modular technology & data platform

6

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Digital transformation of a major Government bureaucracy...



Improve agency's delivery of digital services



Improve the way government buy/use technology



Help build digital skills and establish agile ways of working



Provide greater transparency on IT projects, costs, risks and opportunities

...but faces major hurdles in its journey to drive sustained change



200+ departments and agencies



\$10B annual spend on IT

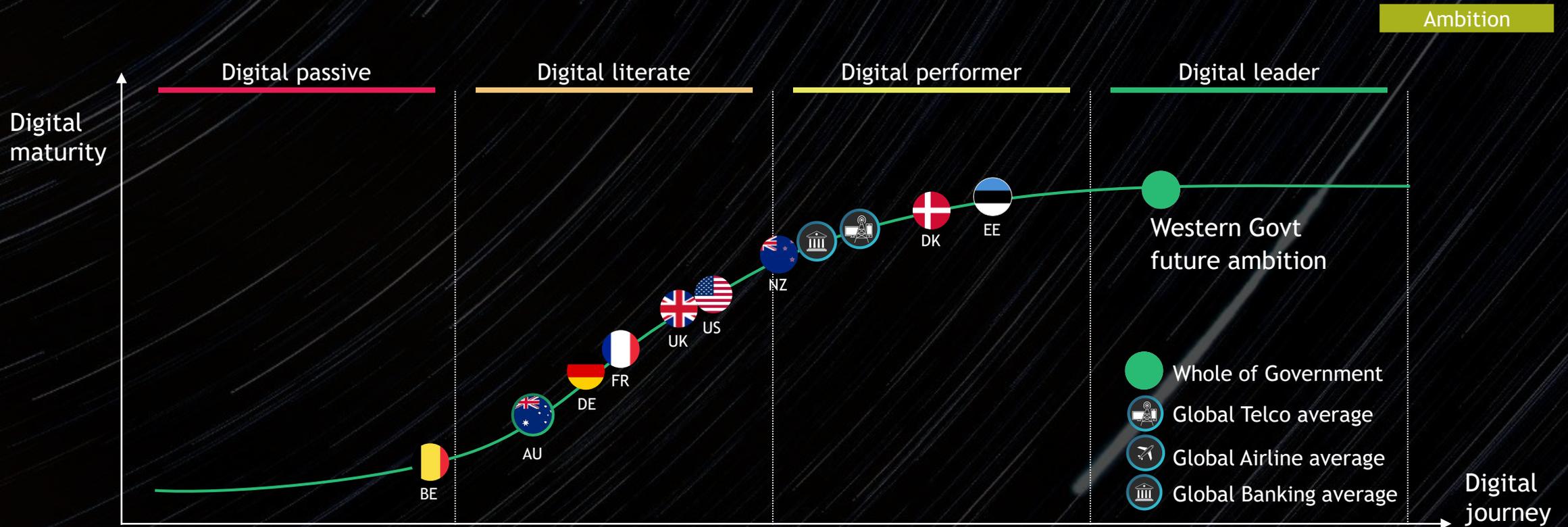


72 digital projects over \$10M "reported" as at 2018



Lacked consistent digital ambition and a coherent digital agenda

Client Government's aspiration to become digital leader by 2025



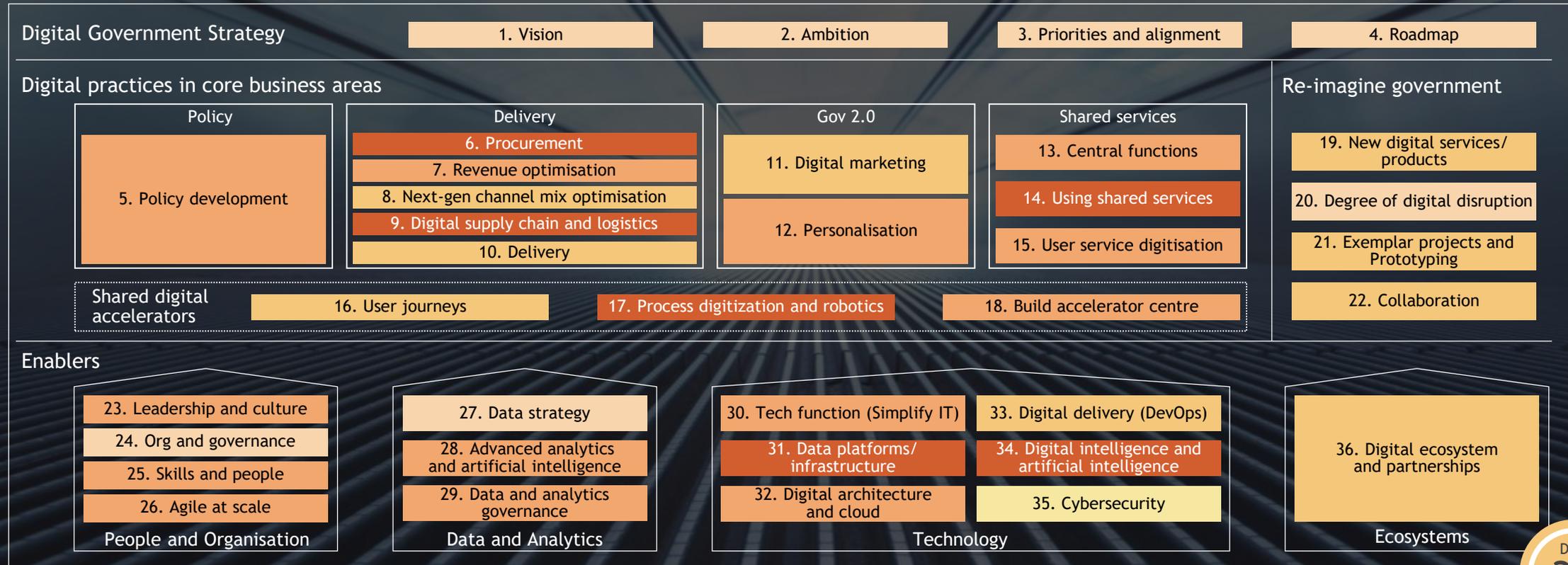
- Often unclear vision
- Isolated initiatives
- Organisation not yet digitally enabling

- Clear vision/strategy
- Roadmap defined
- Digitally enabling governance in place

- Key digital capabilities
- Digitalized processes
- Strong digital mindset and agile culture

- Digital visionaries
- Digital first governments
- Most citizen interactions through digital

Client Government has a digital maturity score of 33

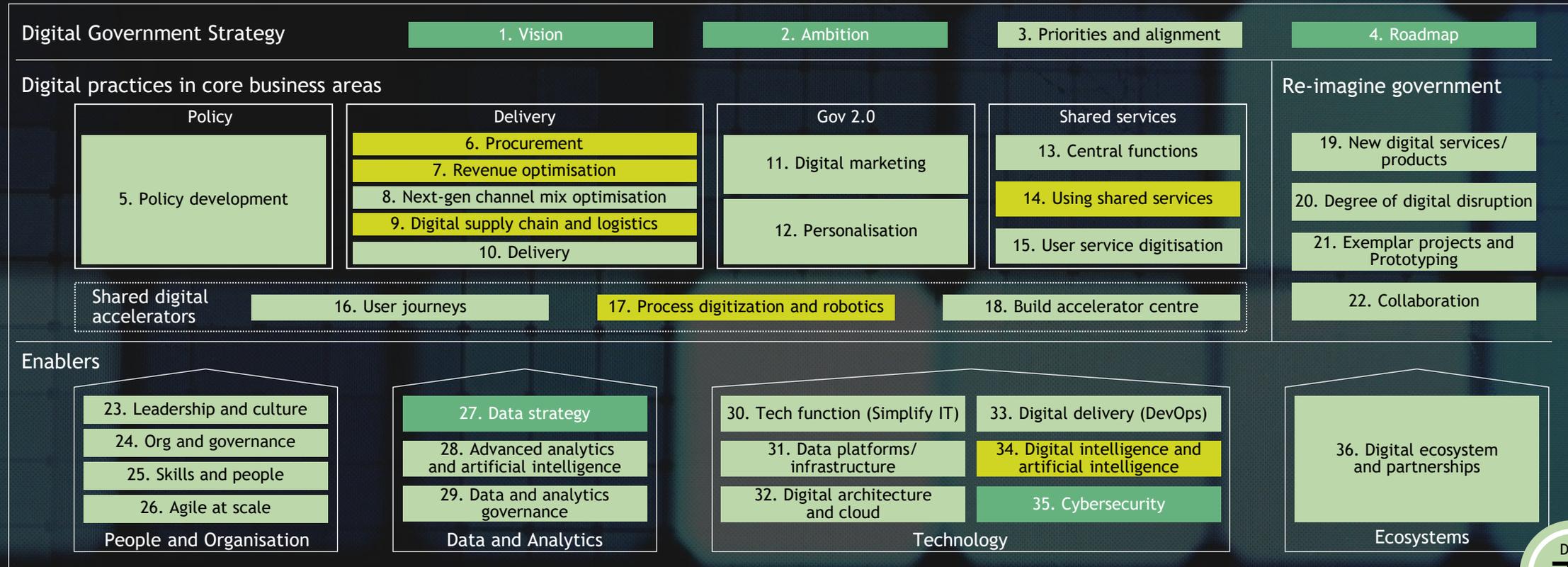


DAI
33

Digital maturity score



Client Government ambition to become a digital leader



DAI
79



Source: DAI survey conducted from 15th May 2018 to 1st June 2018 (n=537), BCG experience

Enablers with highest importance and largest maturity gap

Client Government digital maturity matrix

Gap to ambition (Future ambition—current state)



Digital government strategy

- 1. Vision
- 2. Ambition
- 3. Priorities and alignment
- 4. Roadmap

Digital practices in core business areas

- 5. Policy development
- 6. Procurement
- 7. Revenue optimisation
- 8. Next-gen channel mix optimisation
- 9. Digital supply chain and logistics
- 10. Delivery
- 11. Digital marketing
- 12. Personalisation
- 13. Central functions
- 14. Using shared services

Reimagine government

- 15. User service digitisation
- 16. User journeys
- 17. Process digitisation and robotics
- 18. Build accelerator centre
- 19. New digital services/products
- 20. Degree of digital disruption
- 21. Exemplar projects and prototyping
- 22. Collaboration

Enablers

- 23. Leadership and culture and governance
- 24. Organisation and governance
- 25. Skills and people
- 26. Agile at scale
- 27. Data strategy
- 28. Advanced analytics and AI
- 29. Data and analytics governance
- 30. Tech function (Simplify IT)
- 31. Data platforms/infrastructure
- 32. Digital architecture and cloud
- 33. Digital delivery (DevOps)
- 34. Digital intelligence and AI
- 35. Cybersecurity
- 36. Digital ecosystem and partnerships

Four priority areas for client government identified by gap to ambition, relative importance and alignment to strategy

- 1 Skills and People
- 2 Leadership and Culture
- 3 Advanced Analytics and AI
- 4 User Journeys

DAI provided critical foundations for the digital strategy



Evidence base for digital transformation strategy

The DAI assessment provided a benchmarked capability assessment to priorities initiatives and develop a case for change for the whole of government digital transformation strategy



Identified four priority areas to focus efforts and investments

The team used DAI outputs to develop playbooks for four priority areas to support agencies to increase their digital maturity

Playbooks for advanced analytics & AI, leadership & culture, skills & people, and user journeys



Ongoing monitoring and tracking of digital performance

DAI was proposed to be integrated into client's reporting process to measure digital maturity improvements in agencies on an annual refresh cycle



Facilitated great conversations with agency leaders

DAI helped drive better conversations with the client and with the 20+ large government agencies/leaders on their digital agenda

Further content | BCG.com DAI page and publications

DAI-based study reports (Links)

- [The Real Champions of Building the Digital Future \(July 2017\)](#)
- [Discovering the how and where to add digital to your privat equity \(November 2017\)](#)
- [Is the Digital Revolution in Aerospace and Defense in Crisis? \(May 2018\)](#)
- [Digital maturity is paying off \(June 2018\)](#)
- [How Digital Champions Invest \(2019\)](#)
- [The Race for Digital Advantage in Africa \(March 2020\)](#)
- [Digital Underinvestment Hurts Insurers \(May 2020\)](#)
- [Is Your Technology Ready for the New Digital Reality \(May 2020\)](#)
- [Bionic Champions in the Middle East \(July 2020\)](#)
- [The Digital Path to Business Resilience \(July 2020\)](#)
- [Bionic champions in the middle east \(July 2020\)](#)

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