## Digital in MedTech: Opportunities and challenges

September 2022



## Six key building blocks of digital



100.00



## "Digital" covers 6 building blocks with 36 dimensions

BUSINESS STRATEGY DRIVEN BY DIGIT	AL Vision	Ambition Priorities & ali	ignment Roadmap
DIGITIZE THE CORE Customer offer & Go-to-market Research & product development Digital marketing Personalization Next-generation sales Digitally driven pricing	Operations E2E customer journeys Manufacturing (I4.0/ICO) <sup>1</sup> Smart hospital <sup>2</sup> Digital supply chain Procurement Service operations	Support functions Corporate center Shared services & centers of excellence Customer services	NEW DIGITAL GROWTH    New digital services/products   Degree of digital disruption   Lighthouses & prototyping   Start-up incubation, VC, M&A
Leadership & culture Organization & governance Skills & people Agile@Scale Digital transformation accelerator CHANGING WAYS OF WORKING	Data strategyData governanceArtificial intelligenceDigital & data platformsLEVERAGING THE POWER O	World Class Tech FunctionDigital delivery (DevOps)Internet of thingsCybersecurityF DATA & TECHNOLOGY	Digital ecosystem go to market Digital ecosystem operating model INTEGRATING ECOSYSTEMS

1. Only applicable to Pharma & MedTech; 2. Only applicable to Provider Note: I4.0 = Industry 4.0; ICO = BCG's Innovation Center for Operations; VC = venture capital; M&A = mergers and acquisitions; E2E = end to end Source: DAI@HC Study 2019

## Digitization with double digit EBITDA uplift potential in MedTech



### Also increasing external pressure to digitize MedTech



Increasing demand form regulatory agencies for data, traceability, supply chain certainty, sustainability,... Case in point MDR

MDD

20 articles

60 pages

12 annexes

Directive



Primarily product based MDR 123 articles 175 pages

17 annexes

Regulation

Entire lifetime and lifecycle of the product

## Yet, Healthcare shows overall at most medium Digital maturity



## Within Healthcare MedTech clearly leading the pack



Source: DAI@HC Study 2019

# COVID accelerated digitalization but still huge difference between industries, amongst which Healthcare shows largest boost

Global sample

+13

+12

+9

+7

+7

+6

+5

+5

+4

7

)19

DAI score	2019	2020	2021	2022	$\Delta$	DAI score	2019	2022
						S Consumer	47	60
Asia					+9	👌 Healthcare	45	57
5	53	55	59	62		Technology	55	64
						Energy	47	54
Europe 🤃	50	E0 E1	54	56	+6	Insurance	48	55
	50	21	94	20		Telecommunicatio	า 55	61
US 50				<b>1</b>	+5	Dublic sector & NG	0 45	50
	50	10	54			Industrial Goods	53	58
	JU 49 J4			Financial Institutio	ns 57	61		

## Digitalization in Healthcare industry mainly driven by boosting Outcomes

Healthcare sample



42 DAI dimensions

Top 5 dimensions driving digitalization in Healthcare



6

8

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### In Healthcare, Digital champions outperform laggards along common KPIs

Healthcare sample



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## In Healthcare, Digital champions invest more significantly in tech and human than laggards

Healthcare sample



10

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## In past years, four company archetypes emerged

#### Global sample

**Digital Champions** 

**Hyperscalers** 

natives

G

 $(\widehat{\boldsymbol{s}})$ 

5,6%

Few, very large digital

NETFLIX C2.

0,7%

(Top 25% of sample)



Digital Maturity



30%

Share of sample

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11

Source: BCG Digital Acceleration Index (DAI) - Global Study 2022; in alignment with DSR research on company archetypes

**64%** 

# Healthcare falling behind; more than 2/3 of companies not yet went through successful digital transformation (legacy incumbents)

51%	44%	<mark>3%</mark> -2%
56%	35%	8% -1%
59%	33%	6% -1%
60%	31%	7% -1%
60%	33%	7%
66%	31%	- 3%
70%	27%	-2%
76%	18%	6%
78%	16%	6%
	51% 56% 59% 60% 66% 66% 70% 76% 78%	51% $44%$ $56%$ $35%$ $59%$ $33%$ $60%$ $31%$ $60%$ $33%$ $66%$ $31%$ $66%$ $31%$ $70%$ $27%$ $76%$ $18%$ $78%$ $16%$

Share of company archetypes

**Global sample** 

## Common pitfalls in digital transformations



### Value proof

- Limited view on value
- Insufficient ExCo sponsor support
- "POC machines": too many isolated initiatives; not industrialized
- Lack of e2e vision vs. use case focused based on problem of today, e.g., regulatory changes

### Outcomes



#### Data governance

- Lack of visibility on data (what & where)
- Difficulty to collect sufficient data
- Limited business ownership of data
- Under-investment in data quality and standardization



#### **Digital Platforms**

Multiplication of tech. POCs

High reliance on IT vendors

Fear of impact on legacy systems

Limited deployment of agile project management

Lack of human-centered design and customer acquisition



### People

Skills fragmented across organization

Unclear ops model (how many, where in the org, etc.)

Difficulties to attract and retain critical talents (e.g., no clear career path)

No methodology for multi-disciplinary work



### Change management



Impacts on process & ways of working not anticipated

Limited efforts on trainings and adoption

Lack of platform for new business growth

### Technology

Human

### Top performers apply four boosters in their digital transformation



Source: Global DAI study 2019/2020

# The company of the future is bionic - focusing on outcomes and closely integrating technology & human aspects



## Roadmap to digital transformation





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