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The Gartner Top Strategic Technology Trends for 2022: Healthcare & Life Science



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A View into the Crystal Ball; Leading Practices in 2022 and Beyond



Trends





Welcome to The Next Normal



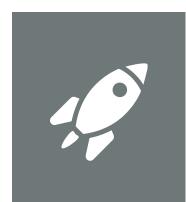
Case Study The New Stanford Hospital



The Importance of **Partnerships**



Employee Engagement



A View into the Crystal Ball; Leading **Practices** in 2022 and **Beyond**



Must-Know Healthcare Statistics in 2022



The global healthcare market will reach \$11,908.9 billion by 2022, according to Business Wire (forecasted CAGR of 8.9%).



The US has the greatest healthcare spending, sitting at \$12,703 per capita (2021 est).



There are 784,626 companies in the US healthcare sector.



The internet of things (IoT) can lower the costs of operational and clinical inefficiencies by \$100 billion per year.



64% of physicians believe the IoT can help reduce the burden on nurses and doctors.



Innovation in Consumer Wearables and Apps

More than a million health and well-being apps are available from the Apple and Google app stores.

Smart watchmakers are now adding blood oxygen (Sp02) sensors to their devices as standard or thermometers that can track the rise of body temperature that often accompanies viral infections.

Connectivity accelerated by 5G

Al and VR integration

appleinsider

Apple developing new terahertz radiation sensor tech for non-invasive glucose monitoring





The Rapid Advance of Payers and Retail Giants

2019 Largest Healthcare Companies (U.S.)







The 10 biggest healthcare companies

do not include a healthcare system (Kaiser was #8 in 2019, would fit in at #11 in 2020). But it does include three payers and two retail giants!

CVS \$69B acquisition of Aetna created a digital and retail healthcare giant.

Created a Value Based Care partnership with Banner Health in Arizona. Walgreens deploying a digital first patient platform using a digital front door.

They have partnered with VillageMD to staff and operate connected health clinics in 700 locations (US) over the next 5 years.

MCKESSON



















The Rapid Advance of Payers and Retail Giants

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Cigna













The Value of Data

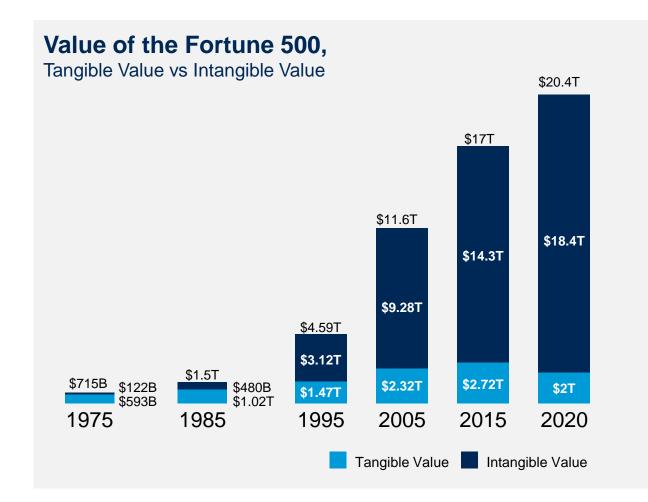


Caroline Chung, M.D., named MD Anderson's first Chief Data Officer

The University of Texas MD Anderson Cancer Center today named Caroline Chung, M.D., associate professor of Radiation Oncology and Diagnostic Radiology, the new vice president and chief data officer (CDO), effective Oct. 1, 2021

"We have established the role of CDO to develop our data strategy and manage one of our most valuable strategic assets – our data," said David Jaffray, Ph.D., senior vice president and chief technology and digital officer of MD Anderson.

"Her extensive experience leading data-driven operations and innovations makes her uniquely qualified for this role."





Global Transition to Value Based Care

Most wealthy countries are in some process of adopting VBC.

Sweden has very high alignment with VBC, UK has high alignment

US scores high within enabling elements for VBC, but low on overall adoption

Outcomes Cost Quality



One extreme interpretation of the VBH model considers diagnostic radiology as a "cost center" to be minimized Value can be increased by radiologists participating in team-based clinical decisionmaking with other specialists.

Maximizing value is often interpreted as maximizing volume

It will also require willingness on the part of referrers to work with radiologists to ensure the most appropriate use of radiology resources, services and personnel

Source: The Economist, "Value-based healthcare: A global assessment"

Source: "Radiology in the Era of Value-based Healthcare: A Multi-Society Expert Statement from the ACR, CAR, ESR, IS3R, RANZCR, and RSNA"



Digital Health Funding Sets YoY Records

Digital Health funding doubled in 2020



Funding will double again in 2021



Telehealth accounts for almost 30% of the funding raised in the first half of 2021



Fifty digital health companies raised \$100 million or more in 2021



M&A activity within the hospital sector declined substantially, dropping 43%



H1 2021 Digital Health Funding: Another Blockbuster Year...In Six Months



Digital health dollars hit \$15B high driven by telehealth investment in 2021



Explosion in Digital Therapeutics

Virtual Primary Care









Digital Diabetic Therapeutic







Digital Diagnosis



Measurement



Health and Wellness





Digestive Health



Hypertension



Neurodegenerative

Remote Patient **Monitoring**





Dermatology



Pain Management



Digital Asthma & COPD Therapeutic



Medication Adherence



Substance Abuse



Pain Therapy









Digital Coaching

Virtual Clinical Trials :::medidata Science 37

Sleep Disorders

evidation

Cognitive Health



Expert Guidance

Caption Health

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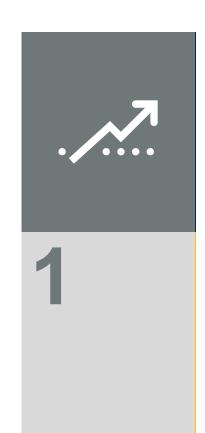
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Digital Physical

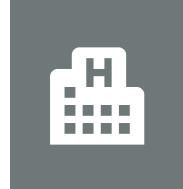
Therapist

Welcome to The Next Normal





Welcome to The Next Normal



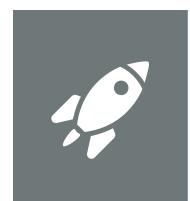
Case Study The New Stanford Hospital



The Importance of **Partnerships**



Employee Engagement



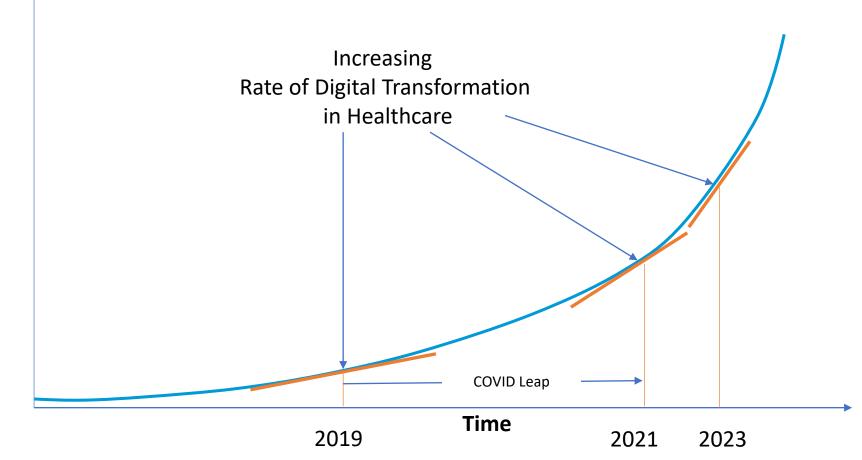
A View into the Crystal Ball; Leading **Practices** in 2022 and Beyond



Trends

The Increasing Rate of Change In Innovation

Digital Transformation

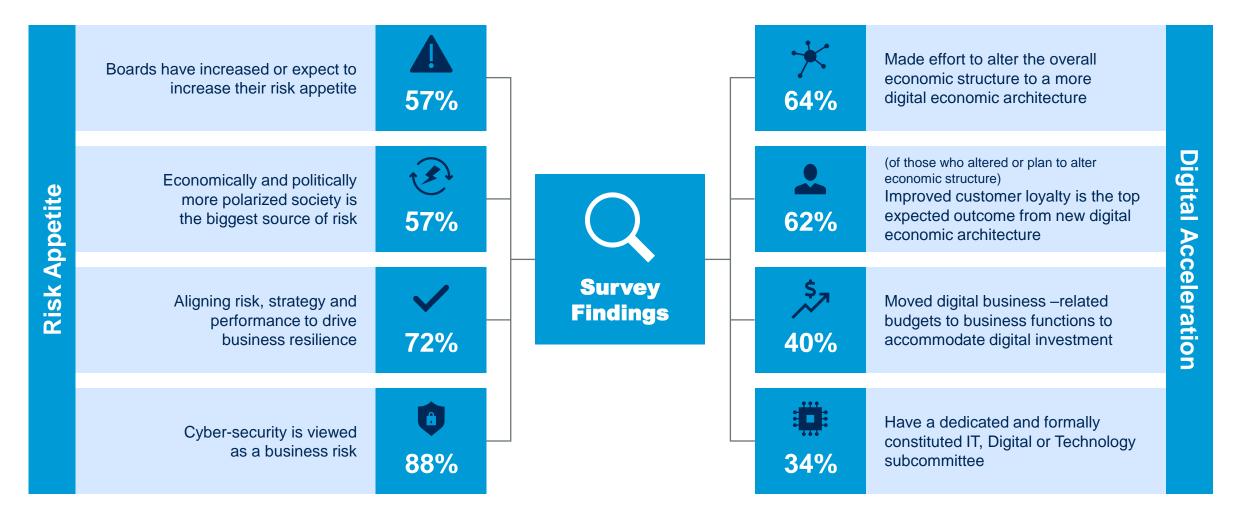






The Era of Continuous Change

Key Insights from the 2022 Board of Directors Survey





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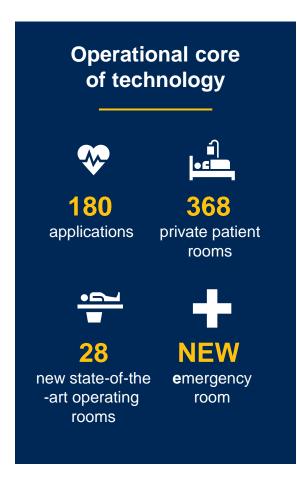
Case Study The New Stanford Hospital

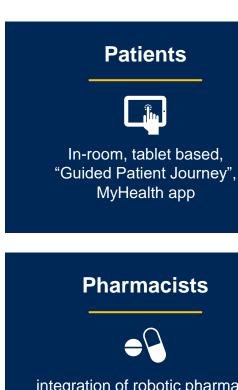


Actions Taken

The New Stanford Hospital

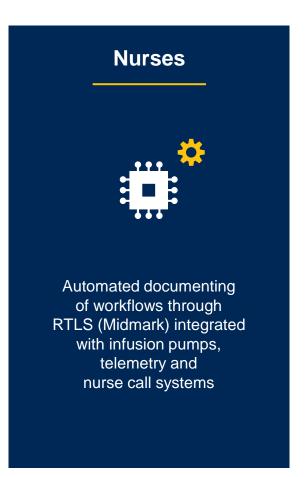
From Automated Patient Check-ins to Pharmacy Robots: Everything's Smart











Benefits

The New Stanford Hospital

Engaged patients, integrated processes, improved resource utilization

Increased transparency, visibility, leverage and availability of biomedical equipment with the RTLS

5%

reduction of equipment purchases



Increased transparency in patient experience, improved patient engagement



High degree of workflow integration delivered USD \$2 Million in cost savings



Improved clinician efficiency

2.5x

increased capacity for ER

20%

increase in operating room volumes

From 12 minutes to 2 minutes

> reduced care team response time



Stanford Hospital Value Equation



Quality

The quality of services we provide to maximize both safety and effectiveness.

02

Service

The ease of access to care from Stanford Health Care.

03

Cost-efficiency

The cost of our services and efficiency of our care delivery. 04

Engagement

The caliber of our people, their level of engagement, and the support we provide to help them do their best work.



The Importance of Partnerships



Trends



Welcome to The Next Normal



Case Study The New Stanford Hospital



The **Importance of Partnerships**



Employee Engagement



A View into the Crystal Ball; Leading **Practices** in 2022 and Beyond



Transformation Is More Than Technology

Role of CIO as an Adviser to the Board on Digital Business Issues

Customer Experience

Compliance and Risk

Management

Impact of **Big Data and Analytics Technology** Change Cloud **Internet of Things** Omnichannel Competencies, Culture **Business Model** and Mindsets and Strategy **Ways of Working Impact of Corporate Clock Speed** and Governance **Enterprise Change** Leadership and **Change Management** 15x IT's Operating Model

Source: Gartner

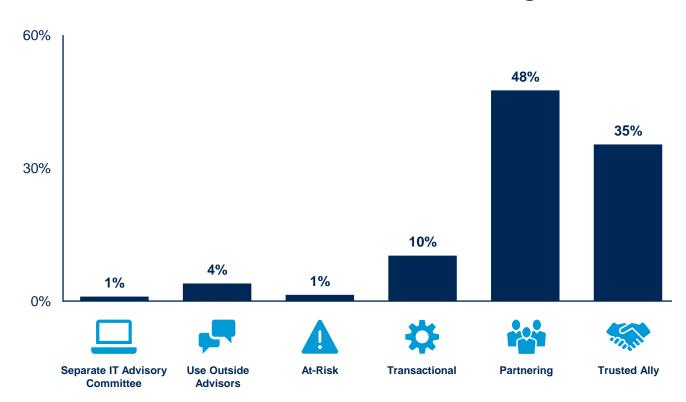
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Incentives, Prioritization

and Funding Model

CIOs Have High Visibility and **Respect at the Board Level**

Role of CIO as an Adviser to the Board on Digital Business Issues



n = 271; All Respondents, Excluding Don't Know

Q10. How would you describe the current levels of influence and power of the CIO (Chief Information Officer) or the most senior IT executive as it relates to digital business and his/her role as an 'adviser' to the Board on digital business issues? Source: 2022 Gartner View from the Board of Directors' Survey

Trusted Ally: We look to the CIO to take leadership role/ownership of business/digital business issues and be a key adviser to the Board

Partnering: The CIO and IT organization often work in partnership with senior business leaders and occasionally provide inputs to the Board

Transactional: The CIO and IT organization are seen as a back office transactional function and do not typically interact with the Board

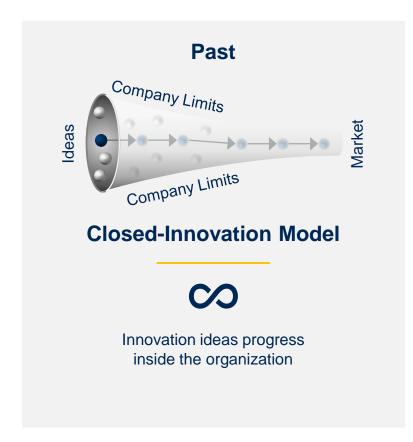
At-Risk: The CIO and IT organization are perceived to be in crisis management mode most of the time and interact with the Board only when there are major IT issues or concerns the Board has

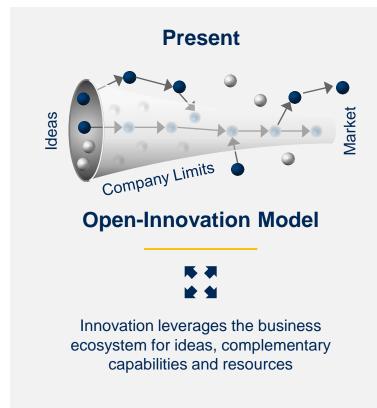
Use Outside Advisors: We mainly use outside advisers (consultants) as digital business advisers and the CIO has no role to play in that

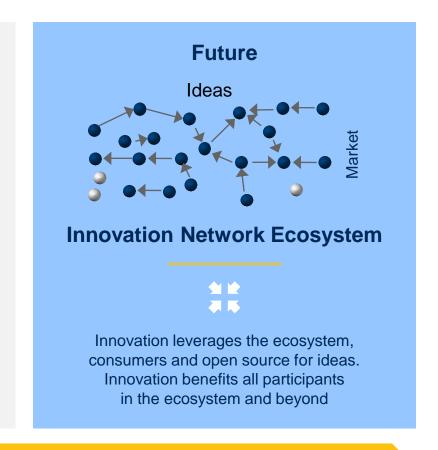
Separate IT Advisory Committee: We have a separate IT Advisory sub-committee the Board relies on for digital business advise



Evolve Your Innovation Competencies to Match the Ecosystem Business Vision of Health Systems







Scale of Innovation

Clarity of Strategy Drives Perceived Value:

Make Sure Strategy Is Clear and Referenced in Investment Decisions





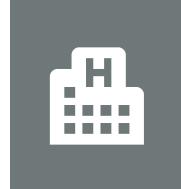
The Great Resignation



Trends



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A View into the Crystal Ball; Leading **Practices** in 2022 and Beyond



Welcome to the Great Resignation







54% of physicians said COVID-19 has caused them to change their employment plans with over half stating they plan to leave their current employer and 36% saying they will retire early or leave the practice of medicine.

The pandemic is causing 92% of nurses to consider leaving the workforce. Nearly half cite insufficient staffing as one of the primary reasons.

The pandemic has caused 39% of nurses ages 20-39 to report that their commitment to nursing has decreased.



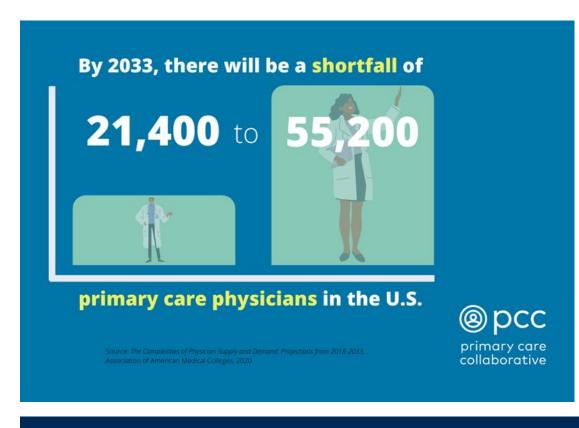
Nursing Shortage

Recent surveys indicate the turnover rate for staff RNs is now 18.7%, hospitals have an average vacancy rate of 10% with a recruiting and onboarding time of 89 days on average. Hospitals are experiencing nursing shortages for several reasons, including the possibility that nurses could **get** \$150 an hour to be a traveling nurse versus the \$48 an hour they are paid as hospital staff.

Nurses are the Most Trusted Professional in the U.S. Rating of selected U.S. professions in terms of honesty and ethical standards in 2018. Low/Very low Very high/High 84% Nurses 67% **Medical doctors** 66% **Pharmacists** 10% 60% **Highschool teachers** 13% 54% Police officers 42% **Accountants** Clergy **Journalists** 34% 20% **Building contractors** 21% Bankers Real estate agents 19% Lawvers **Business executives** 32% Car salespeople Forbes statista Members of Congress 58% N = 1,025 U.S adults; Source: Gallup



Projected Physician Shortages by 2033





Nonprimary care specialties

Between 33,700 and 86,700 physicians



Surgical specialties

Between 17,100 and 28,700 physicians



Medical specialties

Between 9,300 and 17,800 physicians



Other specialties (i.e., pathology, radiology, psychiatry)

Between 17,100 and 41,900 physicians

Healthcare professionals (HCPs) are in an existential crisis; strategies to attract and retain HCPs is quickly becoming mission critical for health systems.



A View into the Crystal Ball; **Leading Practices in 2022 and Beyond**



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Welcome to Digital First Healthcare





Digital First

The Health Journey

Wellness/ Health

Prevention

Investigation

Self Treatment & Monitoring

Clinical Investigation/ Diagnosis

Clinical **Treatment** Clinical Recovering/ Rehabilitation

Monitoring/Care Management

Digital Front Door

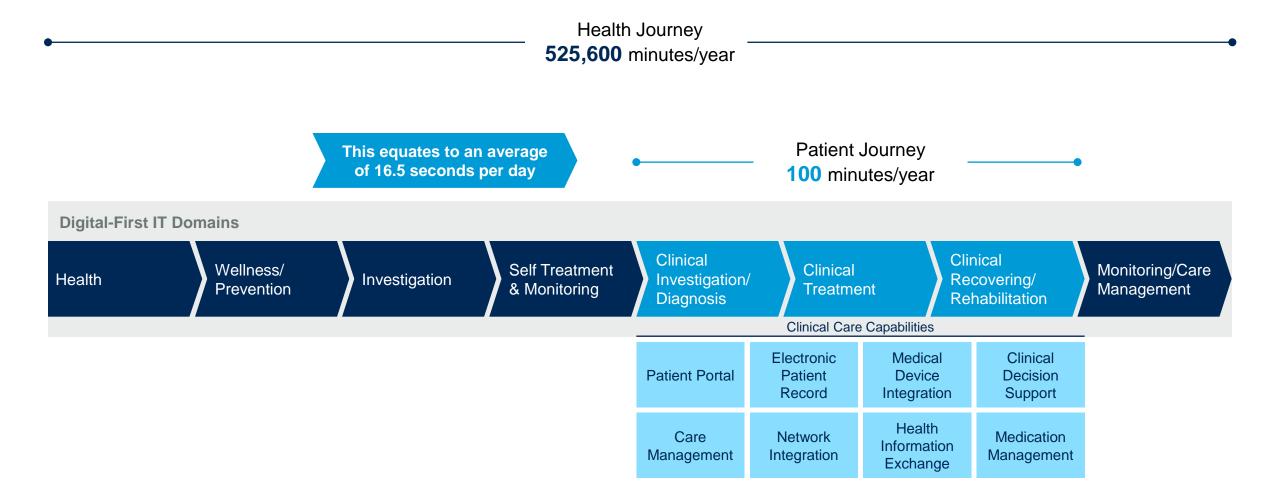


A digital-first engagement strategy seeks to systemically flip today's in-person-centric health and healthcare delivery business model into one that prioritizes digital engagement and the use of digital interactions products and services throughout the entirety of an individual's journey through health, wellness and illness.





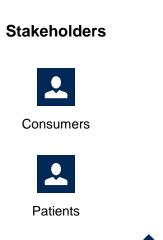
The Health Journey





Create Digital Journeys with a Digital Front Door 2.0



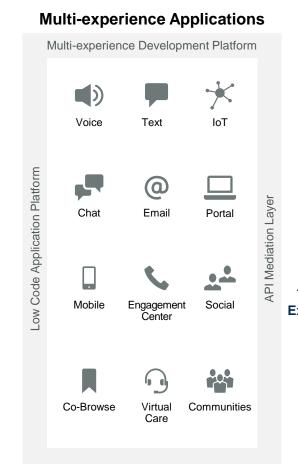


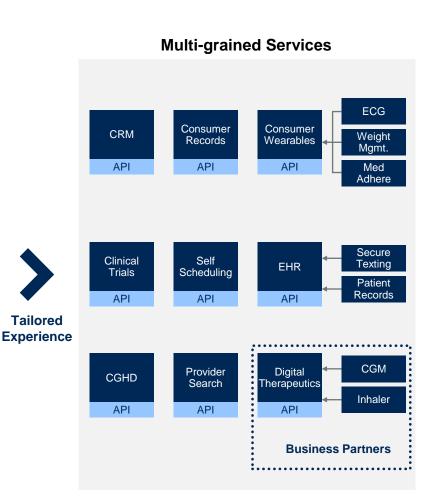




Physicians

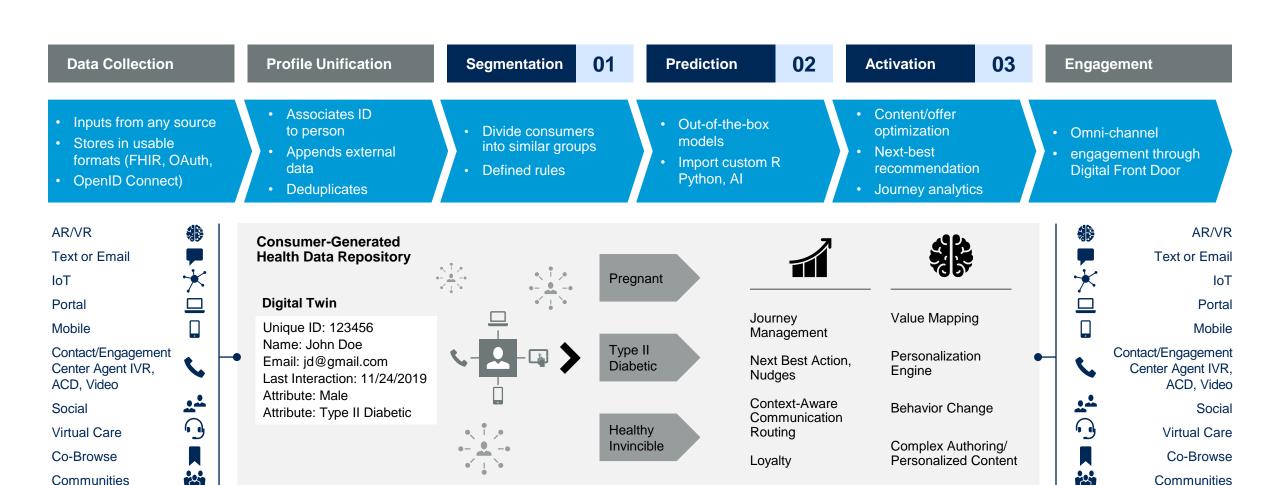
Care managers







Engage and Activate Healthcare Consumers

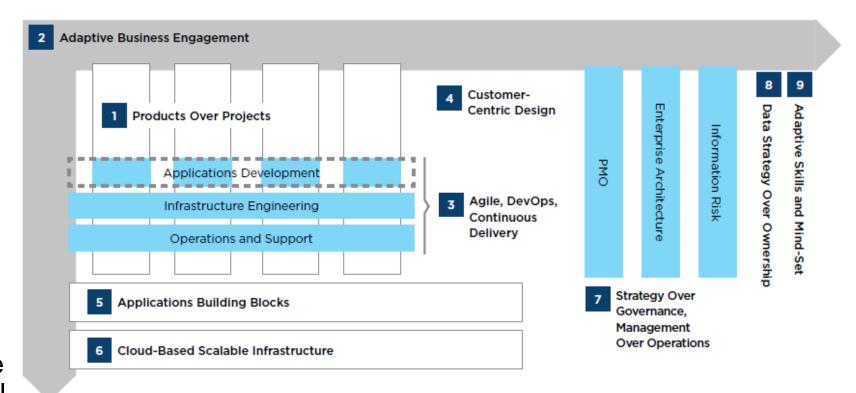




Communities

The New Digital Operating Model

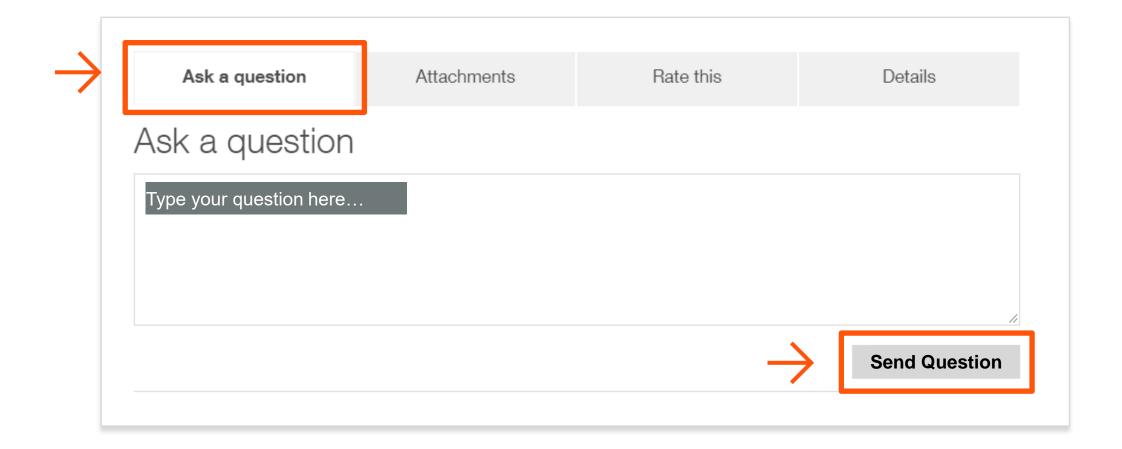
- Progressive IT leaders are making IT more adaptive. An adaptive IT organization accelerates the rest of the business rather than hindering it.
- The best way to become adaptive is to change IT's operating model. We have identified nine features of the new operating model that will position IT teams for digital Success.



- 1 Products Over Projects: Priorities and budgets are set for business capabilities and products, not projects.
- 2 Adaptive Business Engagement: Business engagement approach flexes based on business context.
- 3 Agile, DevOps, Continuous **Delivery:** Integrated delivery, engineering, and support boost responsiveness and output.
- 4 Customer-Centric Design: Customer-journey mapping is used to guide design.
- 5 Applications Building Blocks: APIs, platforms, data. and reusable services reduce effort and accelerate delivery.

- 6 Cloud-Based Scalable Infrastructure: IT automation and cloud platforms cuts time to scale.
- 7 Strategy Over Governance, Management Over Operations: Central groups refocus on facilitating strategy, innovation, change, and enterprise data.
- 8 Data Strategy Over Ownership: Coherent strategy and guidelines around data allow for rapid exploitation by distributed teams.
- 9 Adaptive Skills and Mind-Set: Staff become technically versatile, collaborative, and open to innovation.

Ask your questions





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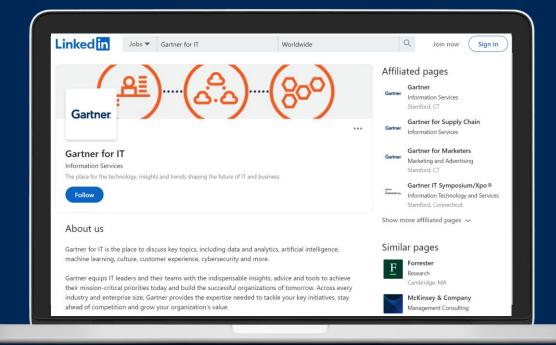
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