

THE BOSTON CONSULTING GROUP

### Personalization: Moving to a "Segment of One"

The Leadership Institute



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#### Introductions



Sanjay Saxena, MD
Senior Partner and Managing Director
Global Healthcare Leader: Payer, Provider, Services

- 20+ years of healthcare consulting and industry experience
- Led >100 engagements with hospitals / health systems, national / regional payers, services companies
- Extensive experience working with Boards / management teams on strategy, capability building and transformation



Brett Spencer, MD

Partner and Managing Director

North America Lead: Provider Sector

- Two decades of healthcare consulting experience
- Founder and CEO of multi-specialty physician group; practiced as a Board-certified internist for 18 years
- Specialist in M&A evaluation, post-merger integration, system strategy, care model and payment innovation
- Extensive experience with consumer centric growth strategies, with both payer and provider clients
- Deep expertise in payer-provider collaboration

### Objectives for today

- 1. Review how segmentation has evolved rapidly in the digital age
- 2. Discuss how personalization is being used today
- 3. Identify value creation opportunities and critical success factors for use in healthcare

### Imagine a world where ...



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#### Segmentation evolution—what we often see







Payer type



Gender



Disease type

#### Segmentation evolution - behavioral segmentation











Cost	sens	itive	
to h	ealth	plar	
contributions			

Drug coverage sensitive

Cost sensitive to major health issues

Access seekers

Insurance brand loyal

	%	of
respond	ler	nts

40

27

13

13

7

#### Key differentiate d preferences

- Low costs (premium, OOP max, deductible)
- High quality physicians
- Drug coverage
- No limitations on spec./PCPs
- Referrals

- Low cost hospital stay/ER visit
- No limitations on access
- High quality physicians
- No referral needed

- Insurance brand
- No limitations on hospitals
- Low cost hospital/ER visits

#### Least important factors

- Insurance brand
- Referrals
- Limitations on access
- High quality Dr

- Referrals
- No limitations on specialists/PCPs
- High quality Dr
- Low costs (ER visit, copay, hospital visit, coinsurance, deductible, OOP max, premium)
- Low deductible
- Good drug coverage
- Low premium

#### Segmentation evolution - behavioral segmentation











Prestigo
seekers

shoppers

Experience optimizers

Convenience seekers

Recommendation seekers

% of respondents

25

21

Price

20

18

16

Key differentiate d preferences

- Physician affiliation
- Ability to see a doctor
- Located in medical facility

- Price
- Distance

- High clinical quality
- Patient experience
- Recommended: doctor
- Same/next day appt.
- Convenient appt. times
- Distance

- Recommended: friends/family
- Located in a medical facility

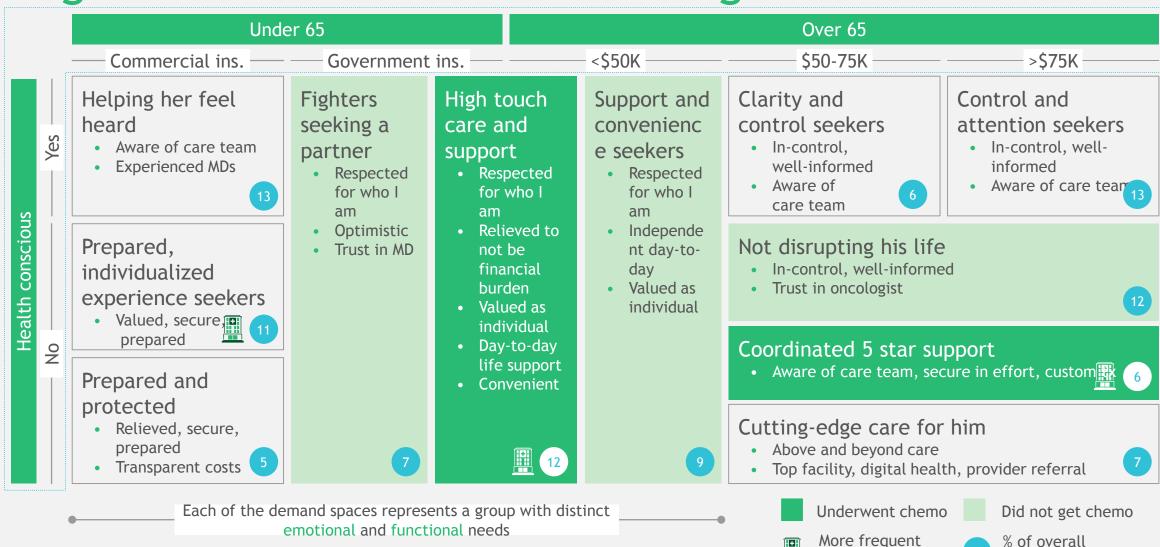
Least important factors

- Recommended: friends/family
- Distance
- Same/next day appt.
- Price

- Ability to see a doctor
- Located in a medical facility
- Located in a medical facility
- Distance
- Ability to see Dr
- Same/next day appt.
- Price

- Located in a medical facility
- Physician affiliation
- Ability to see Dr
- High clinical quality

#### Segmentation evolution - DCG segmentation



respondents

hospitalizations

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### Next step -- Personalization: Right service or experience to the Right person at the Right time

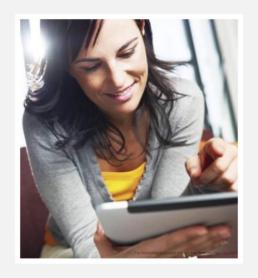
For the PATIENT/CONSUMER, this means ...

I get a *curated*, *concierge* experience

This health system really knows me ...

- My interests and preferences
- My current context
- My health journey with them

I trust them with my information and they respect my boundaries



For the HEALTH SYSTEM, this means ...

We *engage with individuals* rather than segments

We have a cross-channel view of consumers

We can tailor messages and experiences at 1:1 level

We don't waste resources

#### Personalization is applicable in many industry verticals

High customer engagement













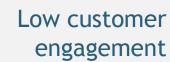














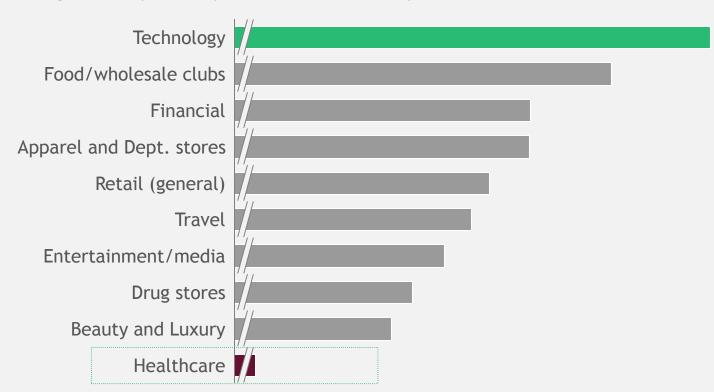




#### Healthcare is behind the curve

Healthcare lags other industries in adoption of personalization strategies

Average score by industry on BCGs Global Survey on Personalization •



Used at scale, personalization has a transformational effect on business

- 5-15% sales lift on total business
- +100% in marketing efficiency
- 5-10 pt reduction in churn
- +100-200% engagement

Industry leaders are already using technology to tailor messages and experiences at scale













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#### ... And needs to catch up quickly



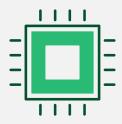
#### Patients/Consumers

Increasingly "owning" their health, expect experiences tailored to their needs and preferences



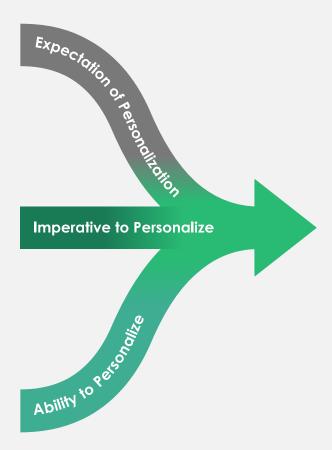
#### Competitors

Consumer-centric leaders (e.g. Amazon/CVS) actively seeking to disrupt status quo



#### **Technology**

Evolution of big data/ analytics capable of connecting disparate systems (EMR, claims, etc), create holistic patient view



#### Personalization Today

Using technology to tailor messages and experiences at scale, define growth strategy and competitive differentiation

- Core source of competitive advantage for early movers
- Now possible for all healthcare players (not just digital natives)

#### Personalization State of the Art

Starbucks set out on a journey to become the most personal brand in the world



# Personalization meant unlocking data-driven, individualized offers

### Which meant a few challenges had to be addressed:

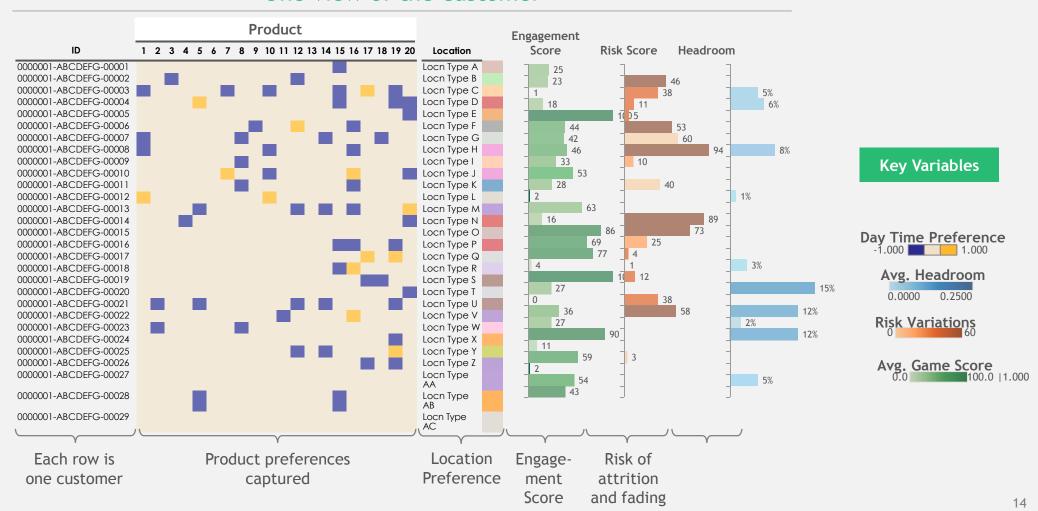
Highly manual operations

Coarsely segmented, not 1:1 targeting

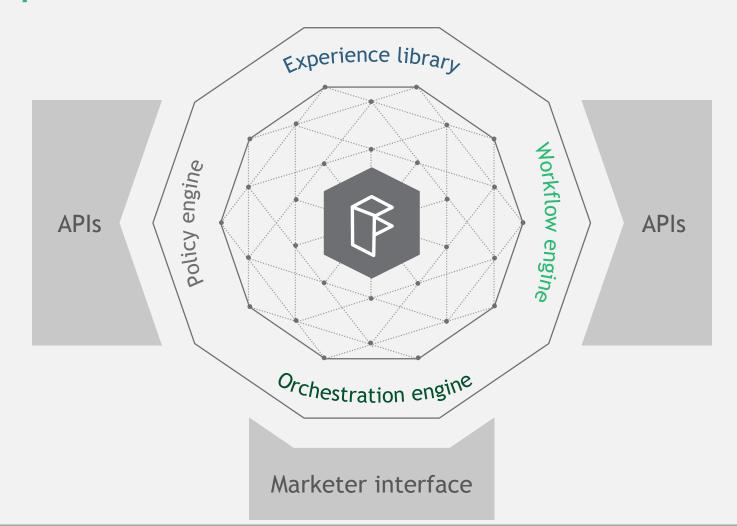
Single channel contact use

#### Platform inputs

#### One view of the customer







Serving millions of consumers daily



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#### \$150M annualized impact delivered in year 1...

~3x

Improvement in campaign results run rate

2x

Campaign redemption

8%

Member revenue growth (from traffic & ticket)

#### **HOWARD SCHULTZ, Chairman**

"Our new one-to-one personalized marketing capability...will prove to be a retail industry game changer"

#### KEVIN JOHNSON, CEO

"The personalized Star Dashes and suggested selling are examples of how we are using personalization to provide a relevant customer experience and to increase engagement...we saw 8% growth, the highest growth rate in average spend per active rewards member over a prior year ever, reflecting both increased ticket and transaction frequency."

#### Apply lean startup methodology—speed=impact



- 1% The 1% rule
  - "A 1% win every week is worth a 65% win in a year"
  - Insights developed along the way can lead to step changes
- (2) Test and learn
- Rapid prototyping, iterative developments make it into production
- Continuous improvement and delivery

#### The Starbucks personalization journey

#### January 2016

#### October 2016 \ January 2017

2018 ...

- 2-week lag
- Spreadsheet-driven
- Handcrafted email, max 30 variants
- Real-time
- Personalized Engine

June 2016

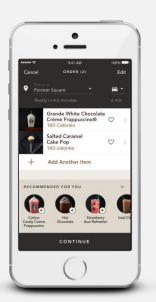
- Hyper-Personalized emails: 400,000 variants/week
- Mobile Offer Card:
   Offers and tracking in app
- Favorite items and stores

- 1:1 Suggestive
  Selling in App (MOP)
  - In-store experience
  - Geo-tagging







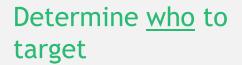




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### Personalization in Healthcare - Redefining Care Management





Identify members with health conditions that can be effectively impacted



Decide with what to intervene

Match each member with the right level of intervention to create positive ROI



Identify when to intervene

Intervene at the "trigger points" where members become at higher risk



Member claims database and advanced analytics to help us radically rethink our client's care program

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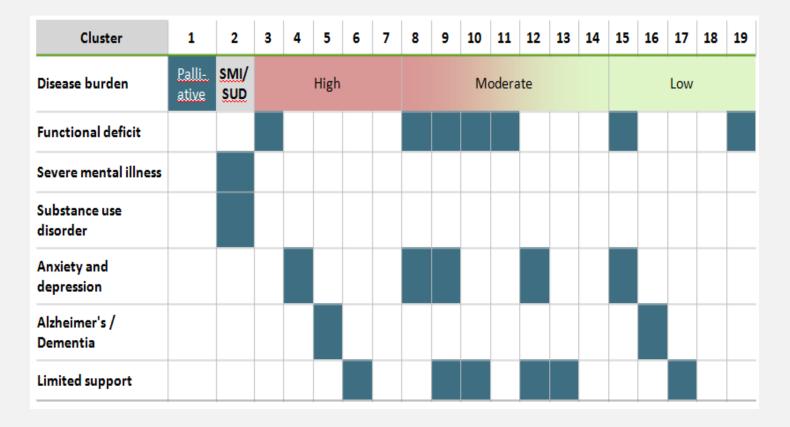
#### Who: Expanded client's basic 4-quadrant segmentation

#### Many limitations to client's segmentation

Segmentation included only 2 factors: Disease burden and functional deficit

Saw a lot of variation within each segment—but client did not know why

Addressed through more nuanced, 19-cluster segmentation—with greater predictive power

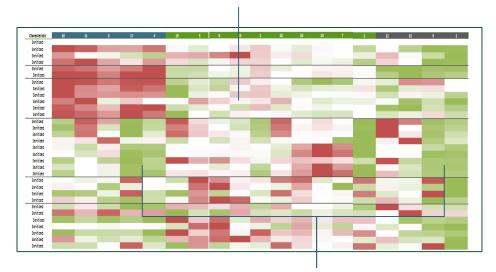


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### What: Shifted to flexible, front-loaded, dynamic approach

Developed "propensity-matching" methodology to evaluate effectiveness of current interventions

Prioritized redesign for high cost, underserved members



Preserved interventions that were working well

#### Key learnings

Many members getting no benefit from current program

 Need stricter entry requirements and program size reduction

Biggest impact was in first few months

Need to front-load interventions

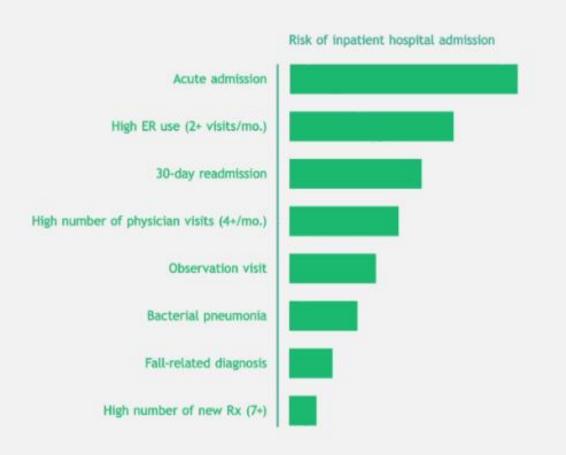
Member needs change over time, but program does not adapt

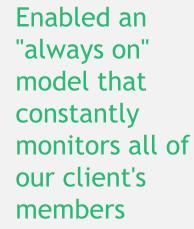
 Need to empower clinicians to dynamically adjust care

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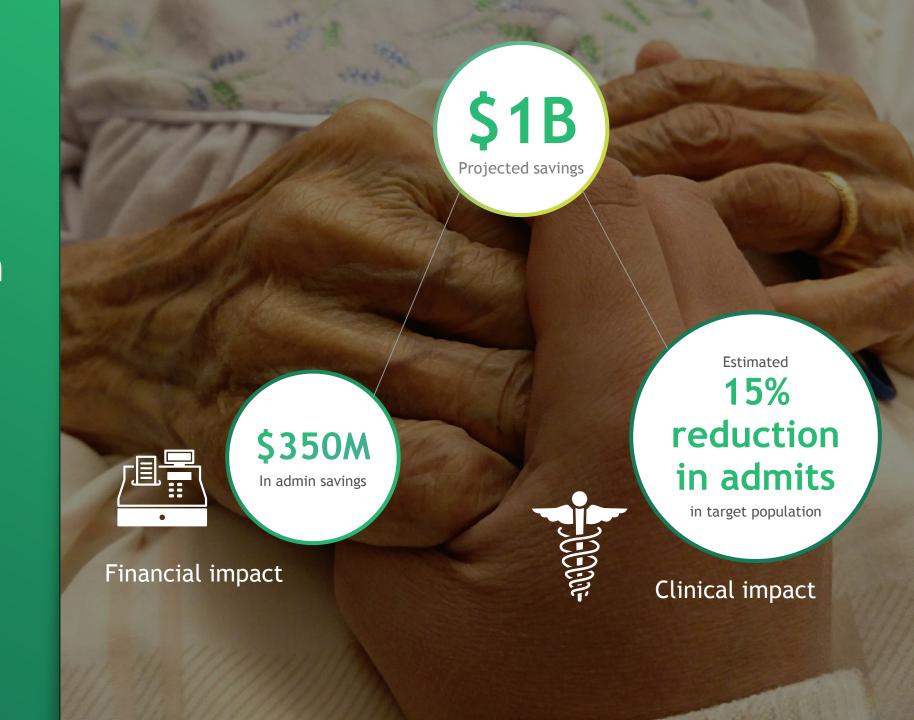
### When: Moved away from static, "in for life" model to event-triggered intervention system

Analytics: Conducted time-series analysis to identify most critical trigger moments





Implementation resulted in significant financial and clinical impact



### Personalization in Healthcare

### Dramatically improving medication adherence

**Improving medication adherence** is one of the most significant opportunities in health care—three types:

- Primary adherence
- Compliance
- Persistence

Opportunity could be significant... Missed therapies leading to unnecessary complications

Numerous specific root causes of patient behavior

• e.g., Forget to pick-up, can't afford copay, challenges with side effects, misunderstand how to use, don't believe they need, ...

Key is addressing the right root cause, at the right time, with the right intervention, through the right channel

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#### Three generations of adherence programs

1st generation





2<sup>nd</sup> generation







"Mass" interventions, simple targeting

Target simple, recognizable behaviors (e.g., late to fill)

Intervene on key root causes

Highest ROI tactics rolled-out broadly in existing channels

System infrastructure built to deliver, track, measure

Segmented and tailored interventions

Leveraged program data to-date

Segmented patients / therapies (not all created equal)

Definitively quantified ROI by tactic

Combined interventions to maximize ROI

Personalized interventions, longitudinal targeting

Dramatically enriched data set

Longitudinal view of behaviors and interactions

AA/ML to predict *future* behavior and efficacy of tactics

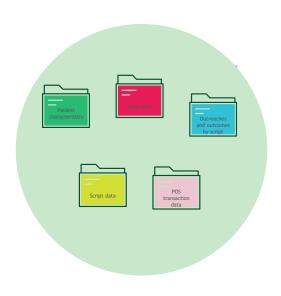
Expanding constituents; systematizing flexibility

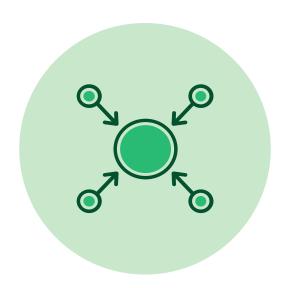
### Developed predictive algorithms using a longitudinal view of the patient

Stood up an Advanced Analytics environment

Ingested and aggregated extremely rich data set

Developed and tested advanced predictive models



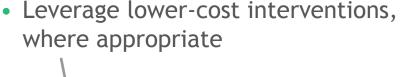


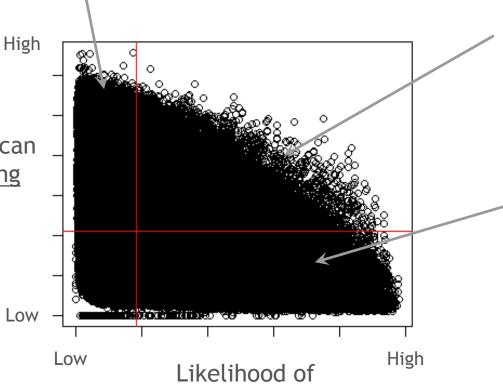


Predictive modeling of next fill behavior...

Likelihood patient can

be <u>influenced using</u> <u>existing tactics</u>





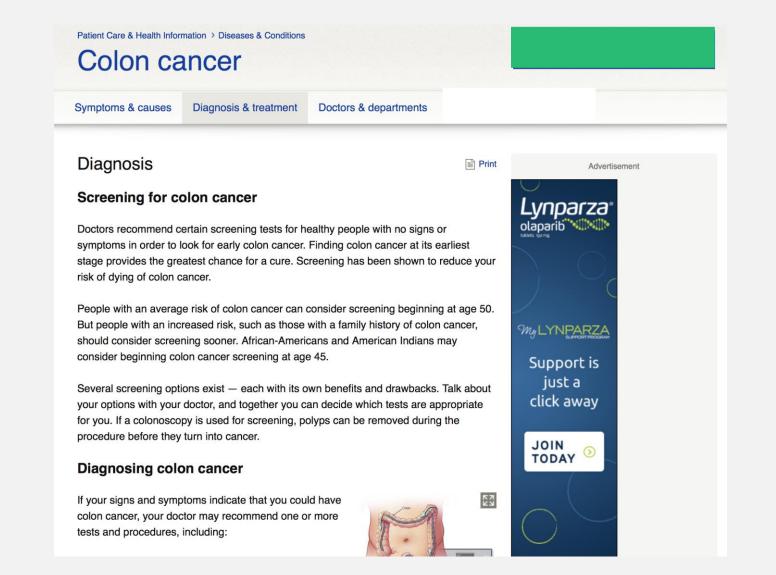
non-adherence

- Target with existing tactics
- Reprioritize / accelerate based on specific ROI

- Identify large, actionable micro-segments
- Develop new interventions based on micro-segment needs / expectations
- Mini-test /refine

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#### Personalization in Healthcare - Business Growth



### The personalization effort focuses on three fundamental levers to drive growth

Demand generation: Transition legacy website from static resource to dynamic, personalized portal—consider partnership to increase traffic

Triage and targeting: Use AI and advanced analytics to build prioritization engine: Boost payer mix and service mix

Yield: Improve conversion of interested parties to active patients



Improve status quo

Improve care management and clinical intervention effectiveness, efficiently address specific pain points through sophisticated segmentation

Personalization offers tangible, near-term value creation

New sources of growth



Anticipate needs, deliver exceptional experience to minimize leakage, capture "up for grabs" population actively shopping for services

Maintain relationships



Create loyalty/stickiness with both patient base and referring physicians/multispecialty groups through targeted support

### Critical for health systems to act quickly in this space

Consumer expectations are continuing to grow



Consumer expectations shaped by digital experiences with innovative companies from other industries

Competitors—old and new—investing in personalization



Cleveland Clinic investing heavily into patient engagement with digital front door Amazon launched a team code-named1492 to develop digital health offerings CVS/Aetna pursuing personalized offerings

Pace of change in the digital world accelerating rapidly



Technologies have shorter life cycles and lower barriers to entry, leading to more frequent largescale disruptions and competitive threats

Potential to advance client's strategic position



Digital consumer engagement functionalities can give client an advantage over key competitors Need to move quickly to development in order to capture leadership position



#### Four building blocks to deliver Personalization at scale

#### **Consumer Centric Design**

Across all key channels; Critical steps of consumer journey

#### **Technology**

Scalable tech platform; Omnichannel deployment and coordination capabilities

#### Data and Analytics

Access to consolidated data; Leveraging machine learning

Personalization

At Scale

#### Ways of Working

Cross-functional teams;
Agile approach;
Rapid test & learn

#### Many solutions to get to "yes" and overcome barriers

Why hasn't this happened yet?



Enough data



The right data



Platform to deliver

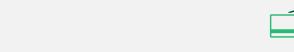
Set of partners that can provide the data and / or platform



Consortiums of like minded systems



**Payers** 









Search engines (e.g., WebMD)



Retailers: Big Box (Walmart), Virtual (Amazon)



Wellness (FitBit, Apple)

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May be possible to build some capabilities internally, but speed to market, usability increased by exploring range of partners with likely mutual interest

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#### Questions?

