



Agfa HealthCare

eHealth – Enabling coordinated care through IT

eHealth Congress Poland September 2018

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AGFA 
HealthCare

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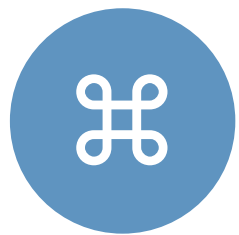
Technology for Health & Wellbeing



NEED FOR CHANGE



TECHNOLOGY DRIVING CHANGE



DIGITAL PATIENT



NOT JUST TECHNOLOGY



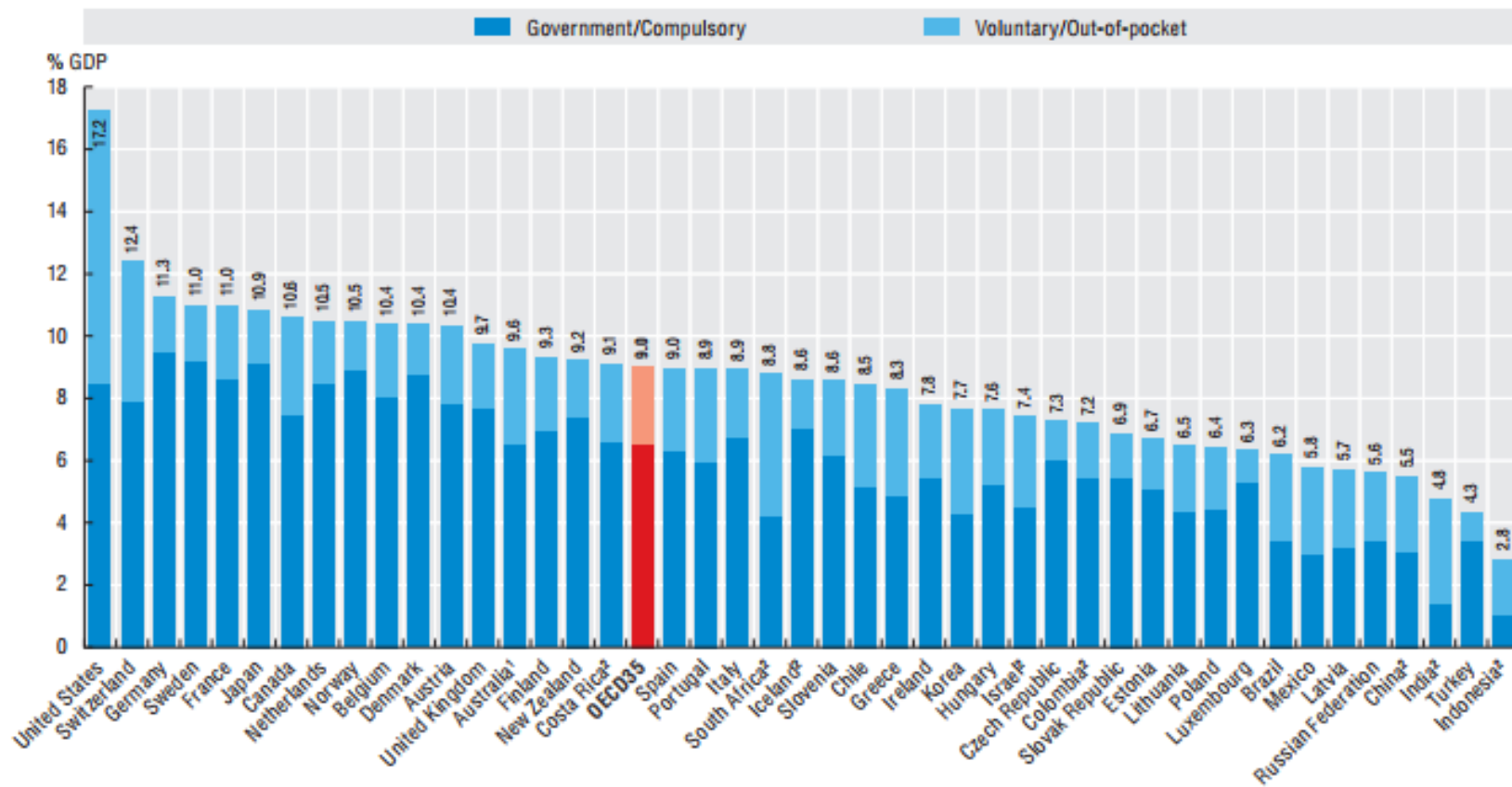


NEED FOR CHANGE

Healthcare Costs



7.3. Health expenditure as a share of GDP, 2016 (or nearest year)



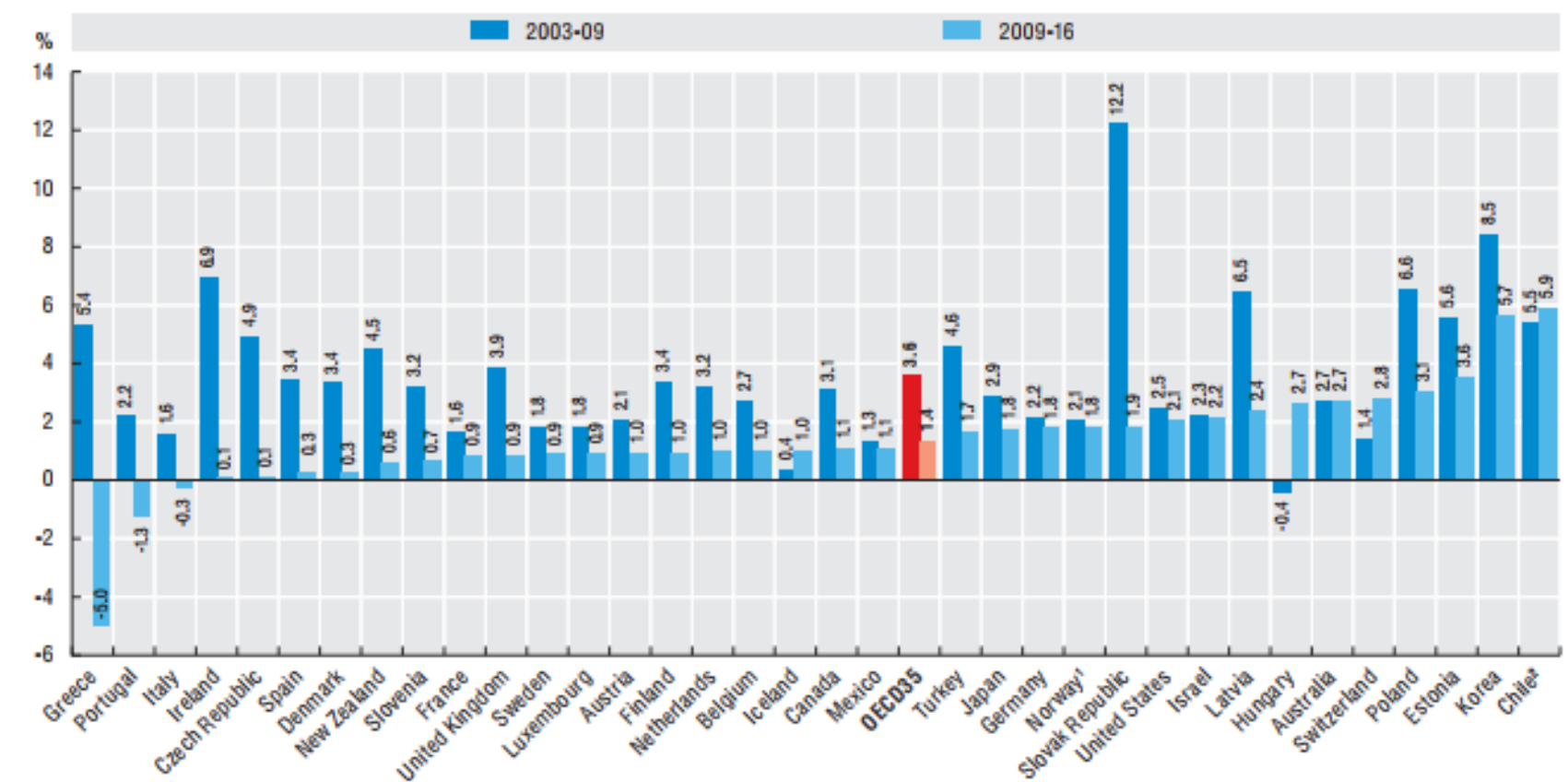
Note: Expenditure excludes investments, unless otherwise stated.

1. Australian expenditure estimates exclude all expenditure for residential aged care facilities in welfare (social) services.
2. Includes investments.

Source: OECD Health Statistics 2017, WHO Global Health Expenditure Database.

StatLink <http://dx.doi.org/10.1787/888933604229>

7.2. Annual average growth rate in per capita health expenditure, real terms, 2003 to 2016 (or nearest year)



Mainland Norway GDP price index used as deflator.
CPI used as deflator.

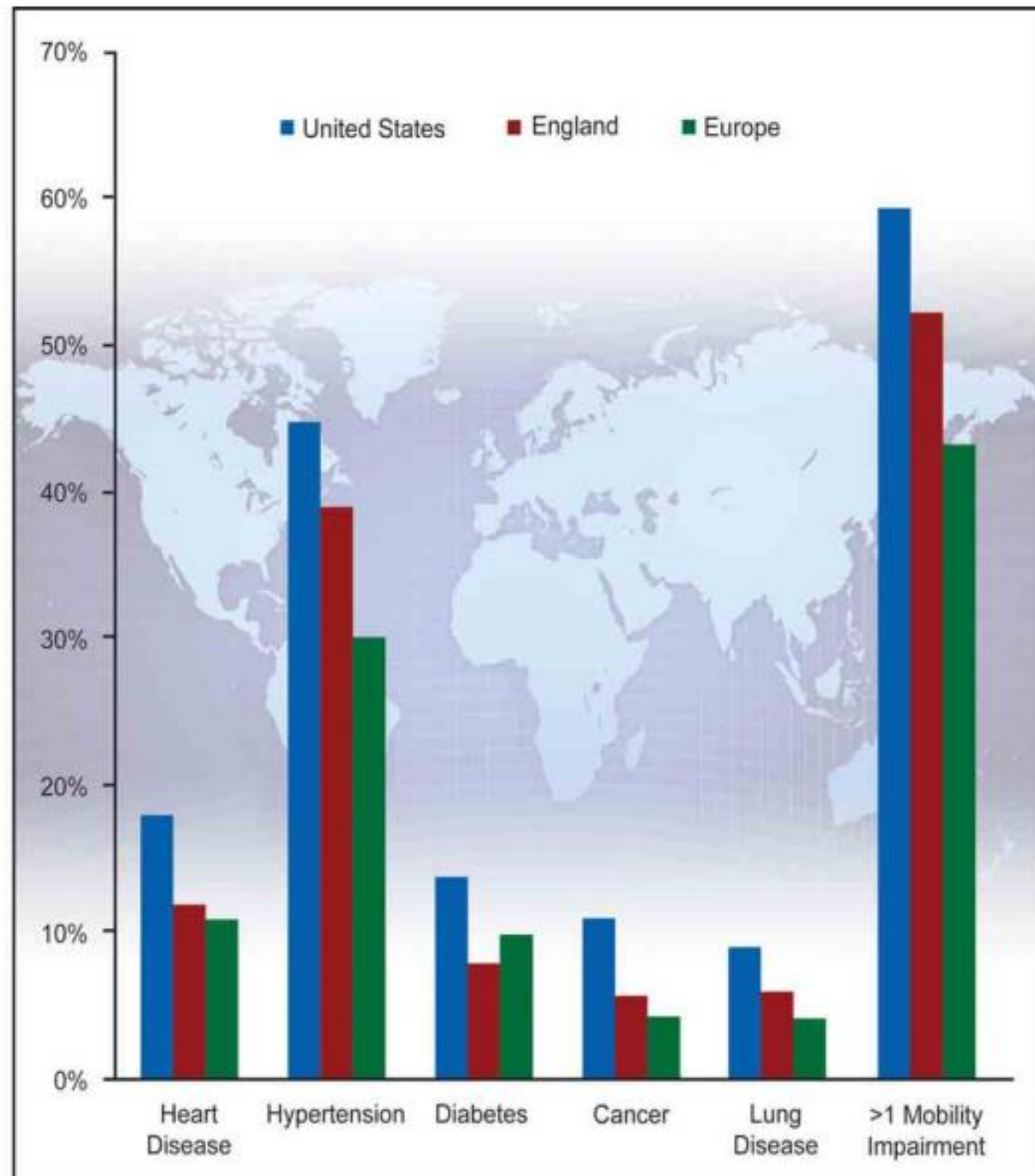
Source: OECD Health Statistics 2017.

StatLink <http://dx.doi.org/10.1787/888933604210>

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Burden of Chronic Disease

Figure 8.
Prevalence of Chronic Disease and Disability among Men and Women Aged 50-74 Years in the United States, England, and Europe: 2004



Source: Adapted from Avendano M, Glymour MM, Banks J, Mackenbach JP. Health disadvantage in US adults aged 50 to 74 years: A comparison of the health of rich and poor Americans with that of Europeans. *American Journal of Public Health* 2009; 99/3:540-548, using data from the Health and Retirement Study, the English Longitudinal Study of Ageing, and the Survey of Health, Ageing and Retirement in Europe. Please see original source for additional information.

How Common Are Specific Disabilities by Age?

Percentage of civilian noninstitutionalized population



United States
Census
 Bureau

U.S. Department of Commerce
 Economics and Statistics Administration
 U.S. CENSUS BUREAU
 census.gov

Source: 2015 American Community Survey
www.census.gov/programs-surveys/acs/

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Cost of Chronic Disease



Chronic diseases, such as heart disease, cancer, and diabetes, are responsible for 7 of every 10 deaths among Americans each year and account for **75% of the nation's health spending.**

Source: CDC web-site, 27 November 2017

Communicate and Collaborate
at every step
of the care process

TECHNOLOGY DRIVING CHANGE?

eHealth Roadmap



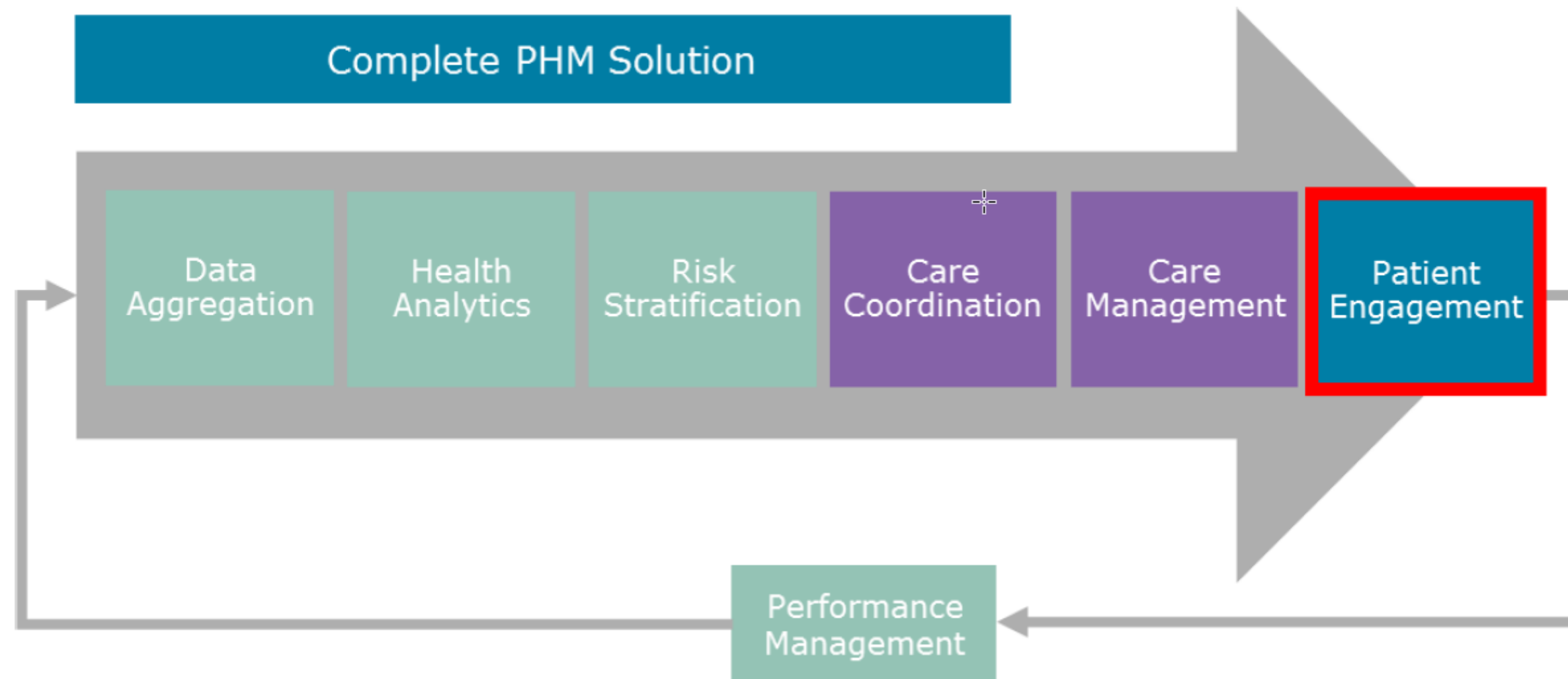
	1	2	3	4	5	6
	CAPTURE	AGGREGATE & SHARE	COLLABORATE	COORDINATE	SMART CARE	POPULATION HEALTH
PHASES						
FUNCTIONS	All stakeholders in the care continuum capture all necessary data	All stakeholders in the care continuum may access, share, aggregate and visualise meaningful data on a daily basis	Multidisciplinary teams, including the patient, formal and informal caregivers and processes for collaboration are set-up	Delivery of integrated care may begin, based on agreed care pathways across health and care settings, covering first medical care but evolving to wellness and social care	Smart applications routinely support caregivers and patients, taking into account the changing medical, social and operational context. Quality management processes are in place	The acquired experience and insights trickles down to health care experts and health policy makers, enabling them to further focus on outcomes and adopt a VBHC approach
	POLICY		INCENTIVES		SKILLS	

	INTEROPERABILITY	DATA PROTECTION	HEALTH TECHNOLOGY ASSESSMENT	
TECHNOLOGIES	<ol style="list-style-type: none"> Usability of EMRs, data capture and navigation tools Non-traditional data capture: medical devices, wearables, social media, -omics, Patient Reported Outcomes Cloud and Mobile-ready tools 	<ol style="list-style-type: none"> Semantic Interoperability for data and workflows Standards Natural Language Processing Identity management and patient consent Visual integration of external data sources Data sharing platforms 	<ol style="list-style-type: none"> IT support for the establishment of teams and collaboration between team members Bi-directional instantaneous communication between team members 	<ol style="list-style-type: none"> Distributed and dynamic workflows and associated tools Patient-specific care plans Visual integration in daily used IT tools and apps Gamification to engage citizens and patients Telehealth

The modular approach to eHealth



PHM and the Role of Patient Engagement



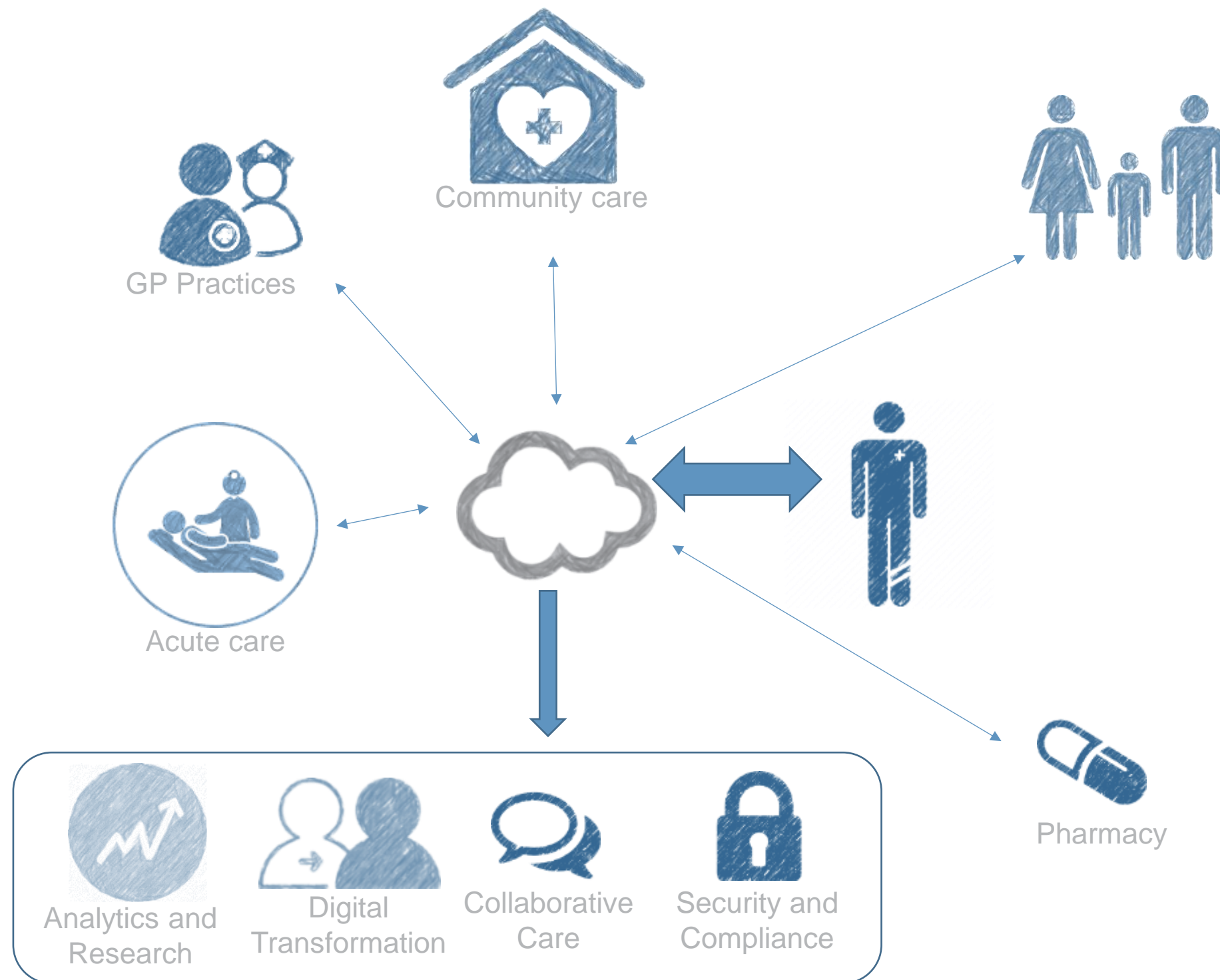
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HealthCare as Data Science



The Determinants of Health (1992) Dahlgren and Whitehead

IT Platform for Care Transformation



Characteristics

- ⊗ Neutral, Open Standards based platform
- ⊗ Aggregated Health records with centralized consent and compliance
- ⊗ Support multiple standards
- ⊗ Data and Care Orchestration tools for Micro applications
- ⊗ Provide access to the patient's longitudinal record embedded within each entity's system
- ⊗ FHIR based Open APIs, Smart Notifications and Workflow Engines

Impact

- !! Vendor Neutral and interchangeable Platform
- !! Implement digital transformation strategies without underlying system complexities
- !! Aggregated Clinical Data
- !! Patient-centric design

Data Analytics & Integrated Care

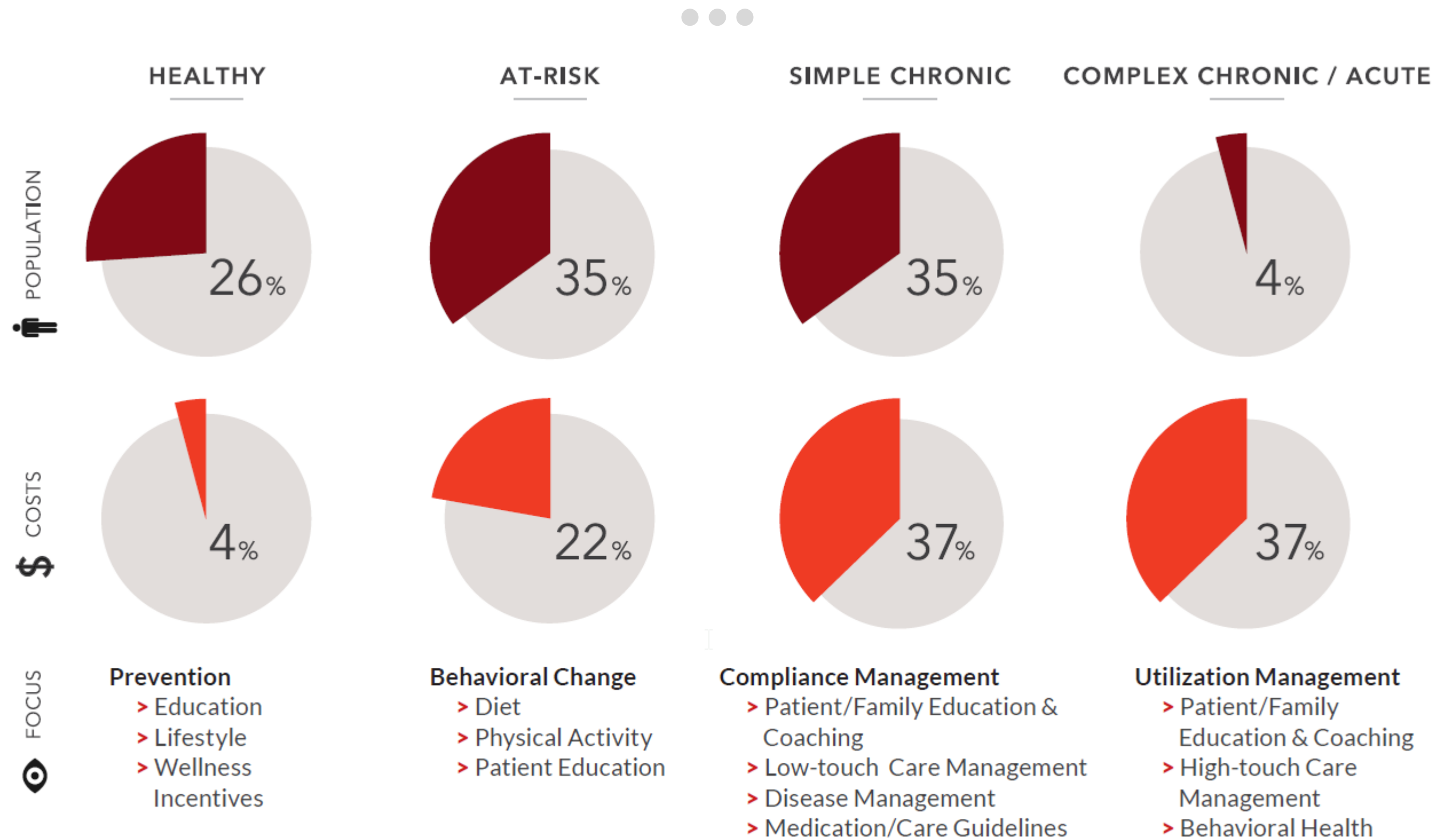


Figure 2.3: Stratifying Population for Cost and Care Models

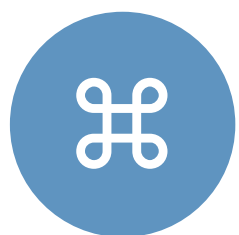
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Self Care



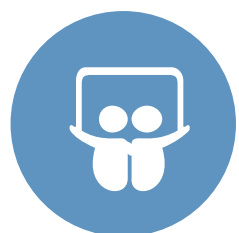
Patients with chronic conditions spend most time outside of primary or acute care



Patients with chronic conditions make day-to-day decisions about—self manage—their illnesses.



Digital programs for self care management of chronic diseases have high drop out rates



Chronic diseases not well managed have a higher change for complications and increased costs.



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The Digital Patient



To manage her Parkinson's disease, Sara Riggare spends 1 hour in neurological healthcare and 8,765 hours in selfcare per year.



DIGITAL PATIENT

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The Digital Patient



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The Digital Patient

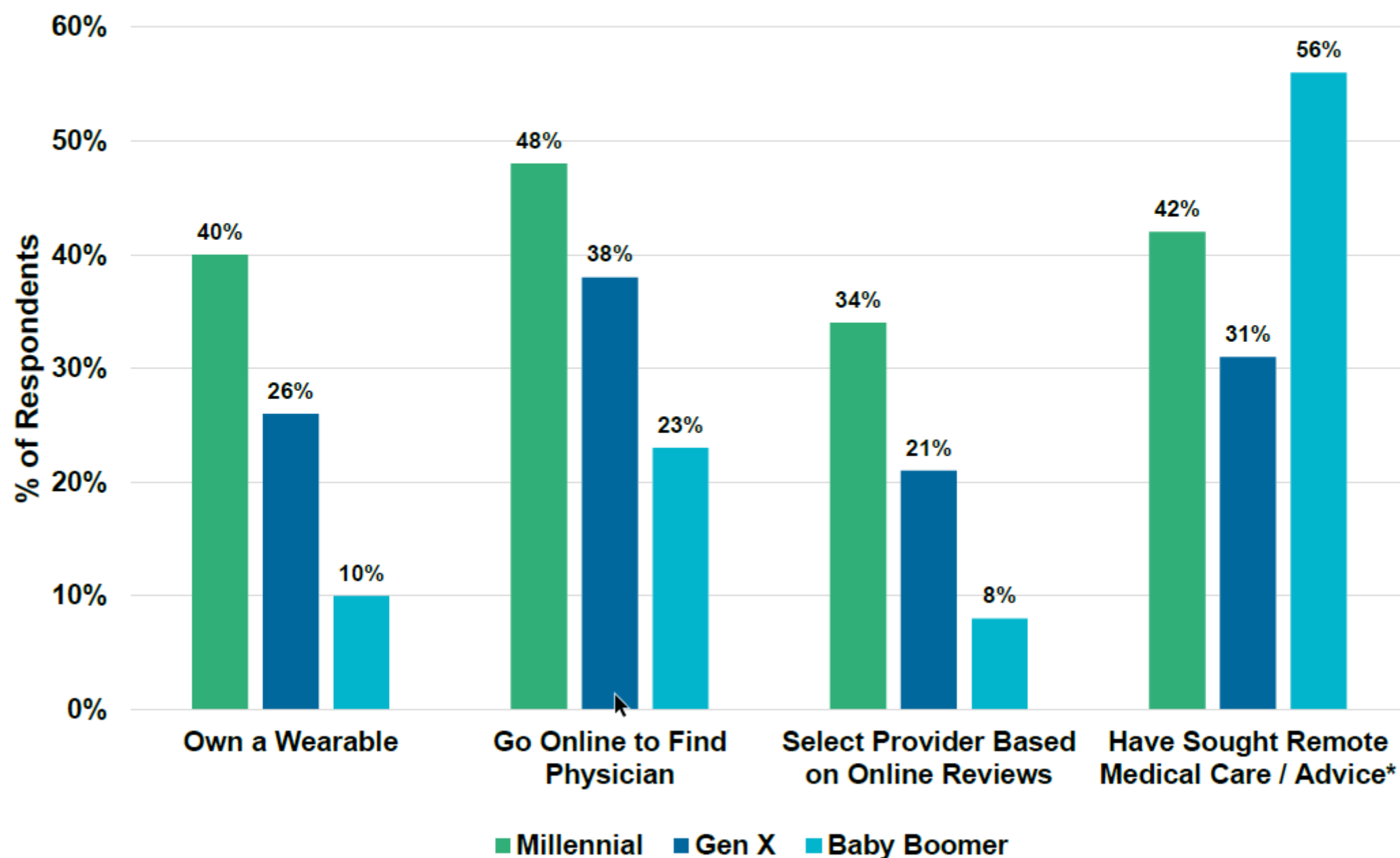


2017 Mary Meeker Internet Trends Report



Consumers = Increasingly Expect Digital Health Services... Especially Millennials...

Digital Health Adoption Across Generations



Source: Rock Health Digital Health Consumer Adoption (12/16)
 *Represents % of Millennials that have sought medical care/advice over live video, % of Gen X that have over text message, and % of Baby Boomers who have over phone
 Millennials include 18-34 year olds; Gen X include 35-54 year olds; Baby Boomers include 55+ year olds



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Person Centered Care



The four principles of person-centred care



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Risk Of Well Coordinated Professionals



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Do Not Forget ...



“ ... the secret of the care of the patient is in caring for the patient. ”

Frances W. Peabody, MD, October 22, 1926



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THANK YOU!



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