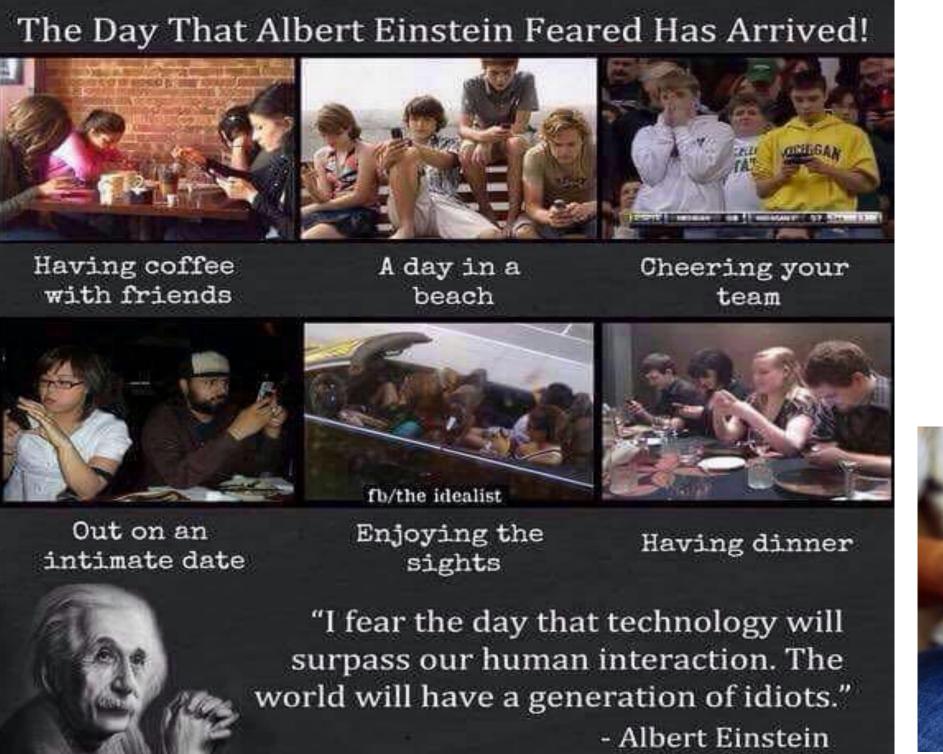
# Patient-centred healthcare: How workable is it in Asia?

Mr Zee Yoong Kang Chief Executive Officer, Health Promotion Board

Presented at: FT Asia Healthcare & Life Sciences Summit: Shaping the future of healthcare, 25 April 2017, Singapore.



# The world we live in today tempts us to indulge & be physically inactive

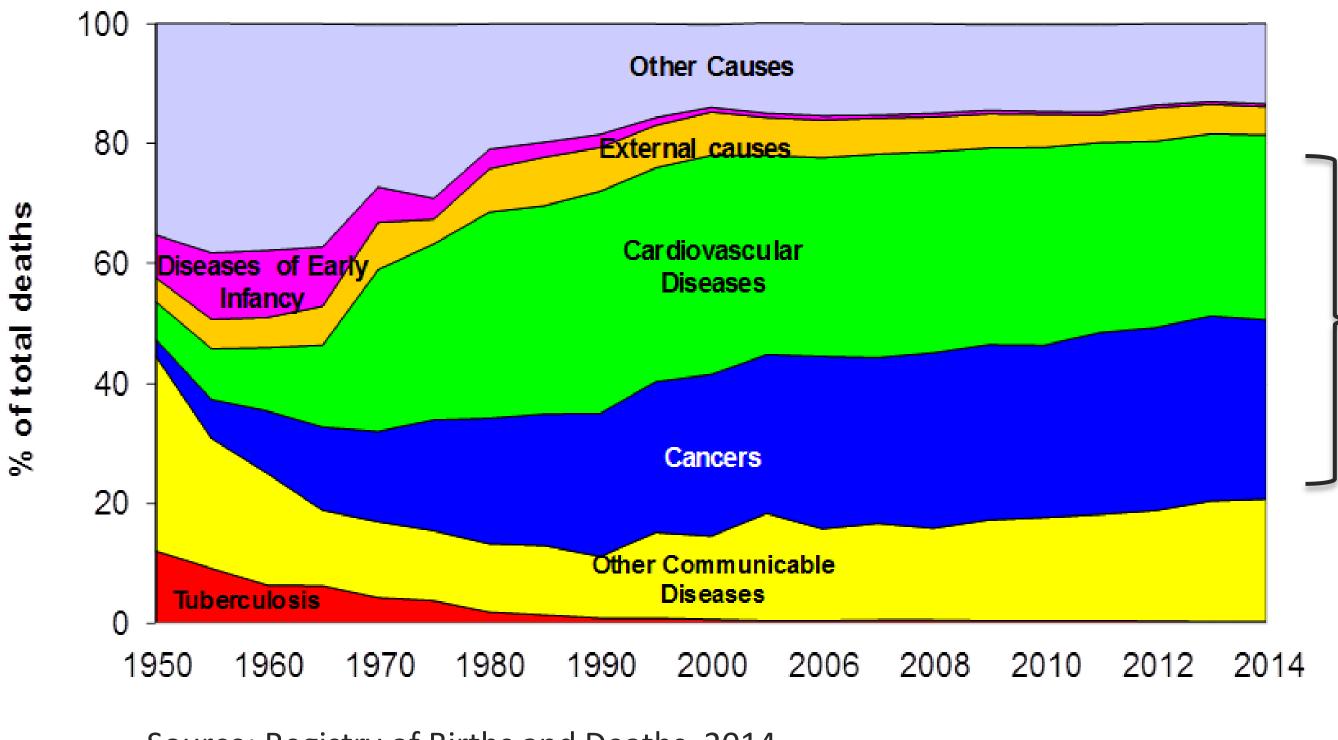








# Since 1970s, non-communicable diseases (NCDs) are the leading causes of death among Singaporeans

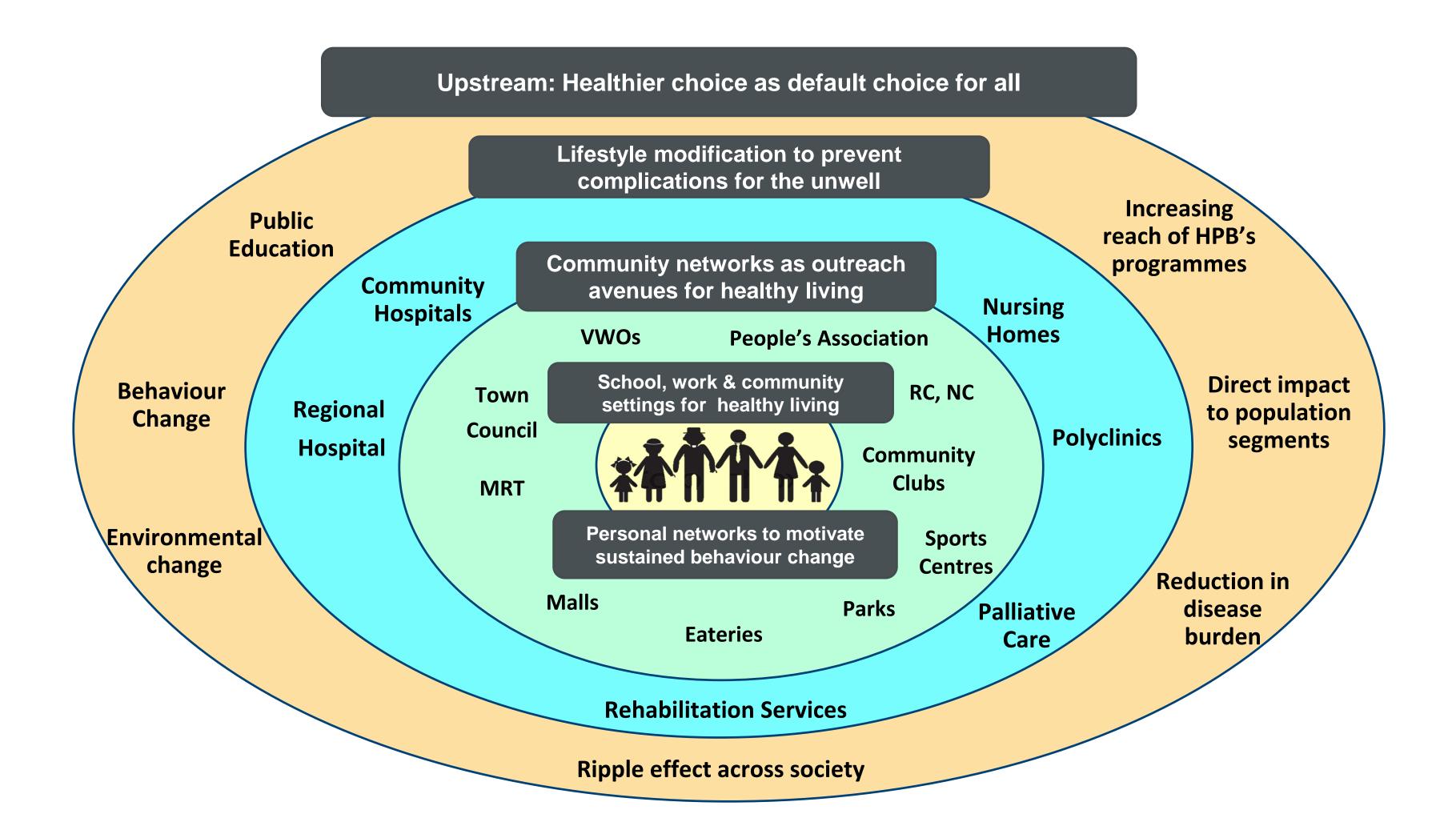


Source: Registry of Births and Deaths, 2014

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Non-communicable conditions that can be caused by modifiable lifestyle risk factors such as high body mass, physical inactivity and cigarette smoking.

# HPB has a strong presence across society to empower the population to lead a healthy lifestyle



Leveraging technological connectedness, HPB customises and extends our reach to diverse population segments, enabling population ownership for health



### Supported by multiple face to face touch points across Singapore



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**Diabetes Prevention / Management** 

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∡	Lab Test Results Last undated, 64 king 2015	>
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### MANAGE PATIENTS

Appointments Lab Results Medication Adherence Tele-Health

National Nutrition, Health Behavioral Surveillance, Student Health

DIY Analytics; Personalised Services; Programme & Policy

# **Delivering health & wellness via technology:** The National Steps Challenge (NSC) example



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1	Steps per day	per day Points	
t	5,000	15 pts	
I	7,500	45 pts	
I	10,000	60 pts (max)	

	R		
r	1	VOUCH	

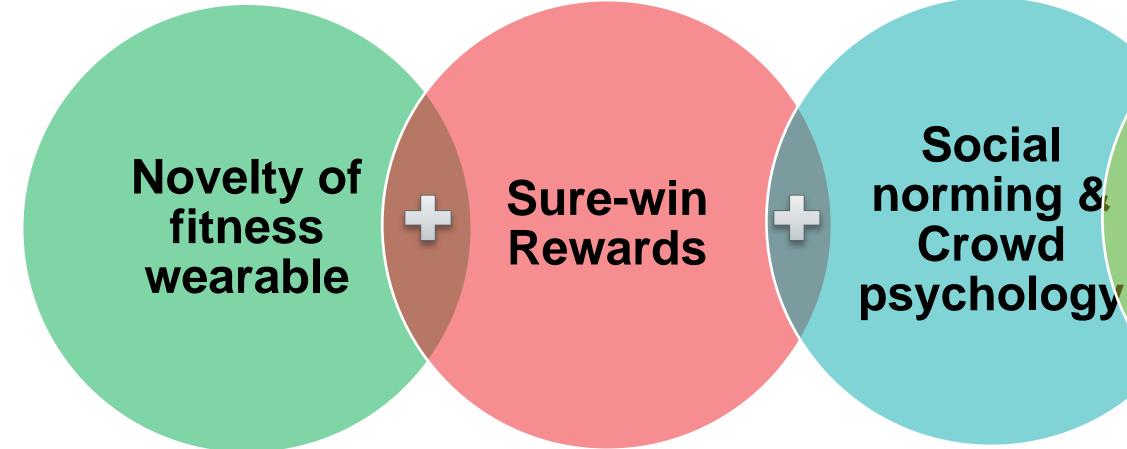
sure-win rewards (worth \$30 or more) with points<sup>3</sup> earned. The more points you collect, the greater the value of the

Prize Tier	Points	Rewards Value	
Tier I	600 pts	From \$5	
Tier 2	+ 1,800 pts	From \$I5	
Tier 3	+ 1,200 pts	From \$IO	

### **Start walking to collect rewards!**

# The NSC is an unprecedented physical activity movement, mobilizing 500,000 Singapore residents over 2 seasons

**Key Success Factors of NSC** 



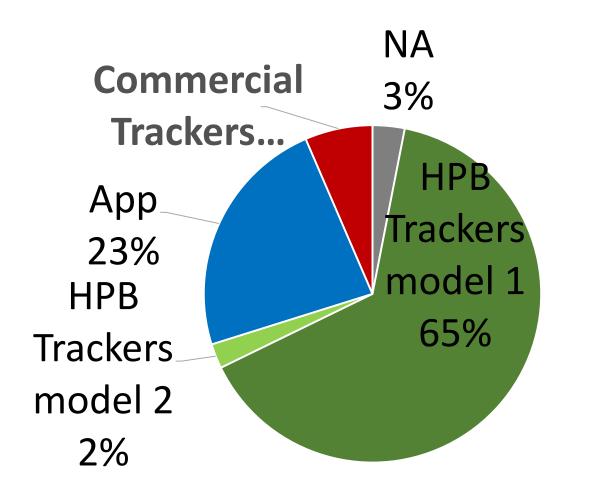


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# Integrated marketing campaign

# Stronger engagement seen among commercial tracker users in NSC compared to industry reports about use of commercial trackers

### Among the 300,000 NSC 2 participants



7% or about 20,000 of participants wore commercial trackers (e.g. Fitbit)

"Around 40 per cent of participants stopped using the activity tracker (Fitbit Zip) in the first six months" - The Lancet Diabetes & Endocrinology (4 Oct 2016)

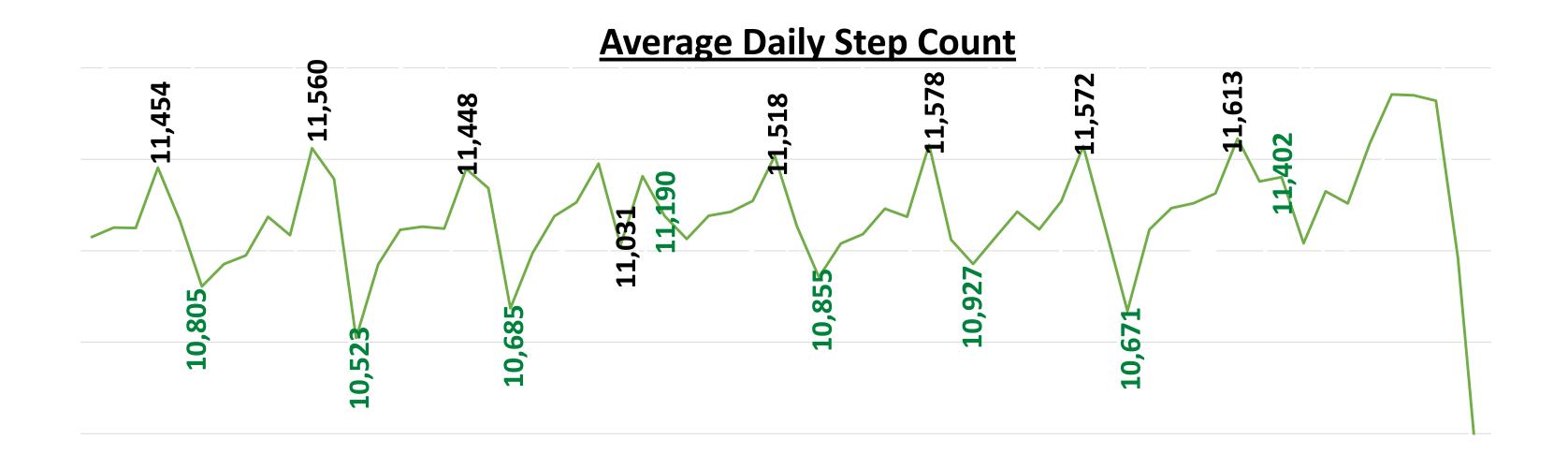
*"15% of Fitbit users "disconnect" within the first 30* **days**" – Forbes (7 May 2015)

"Industry reports show that 30-50% of employees (in company based programmes) stop using their fitness tracker in less than six months, despite the compensation for the device and additional incentives to encourage exercise and tracking." -Integrating Population-based Patterns with Personal Routine to Re-engage Fitbit Use (16 May 2016)

## As of end Feb 2017, 5 months into NSC 2 and after the conclusion of sure-win incentives, 74% of commercial trackers participants continue to be active users.

# NSC provided us with step count, attitude towards and information on physical activity patterns from our participants

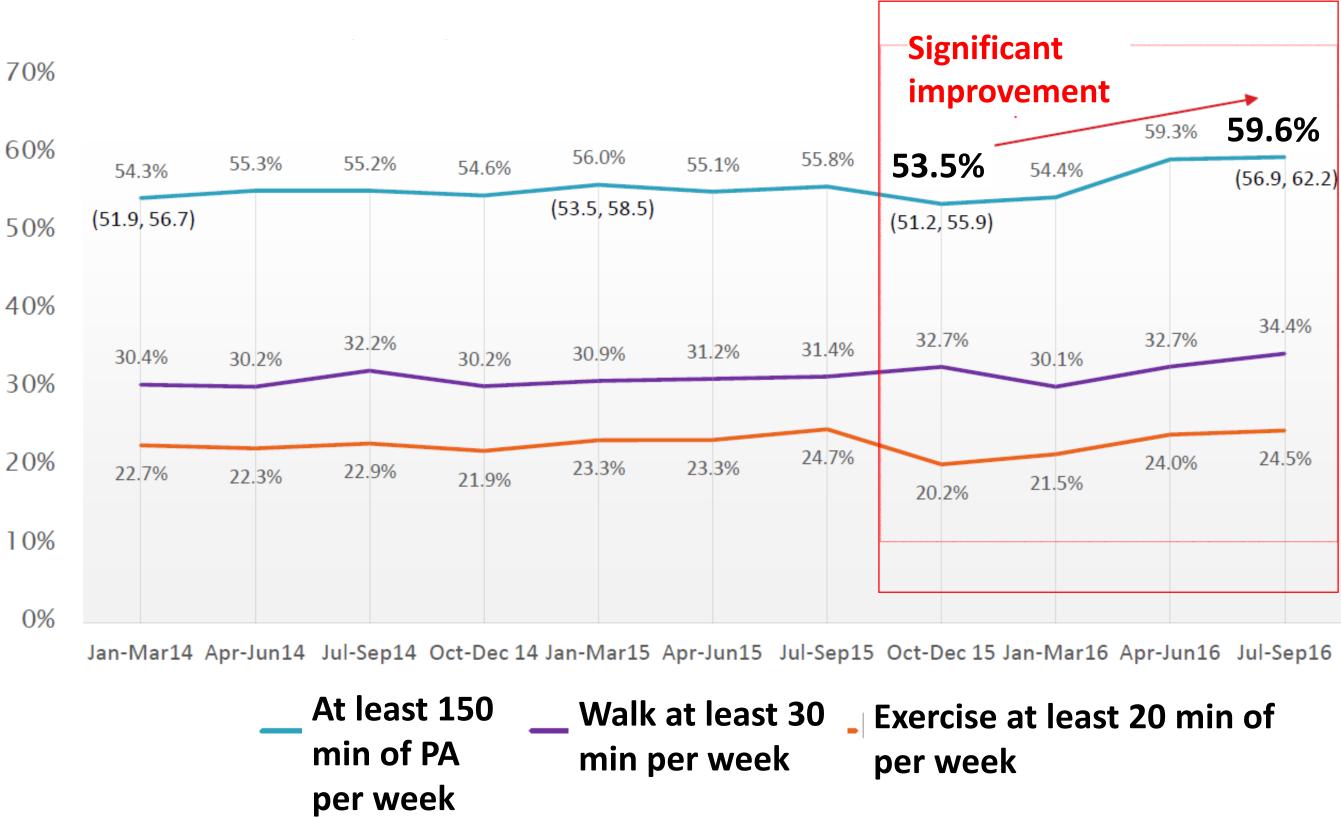
A glimpse into Singaporeans' walking habits (e.g. weekend warriors vs. work week daily 10,000 steppers)



Noticed the lowest usage and activity levels among adults on Sundays, suggesting most of their Physical Activity come from work-related commuting.

Developed and introduced booster activities during the weekend to increase the step count (physical activity levels) on a momentum

## **Positive impact on Population-Level Physical Activity:** Significant increase in sufficient physical activity in Singapore since NSC started.



### **Prevalence of sufficient physical activity in Singapore**

Source: Health Behaviour Surveillance of Singapore, among Singapore Residents aged 18-69 years

# Empowering health conditions management via technology: The HealthHub example

The Health Hub integrates content and services to influence health behaviour and simplify interaction with health service providers

### Health Content

Trusted source of information, tips and advice on healthy living

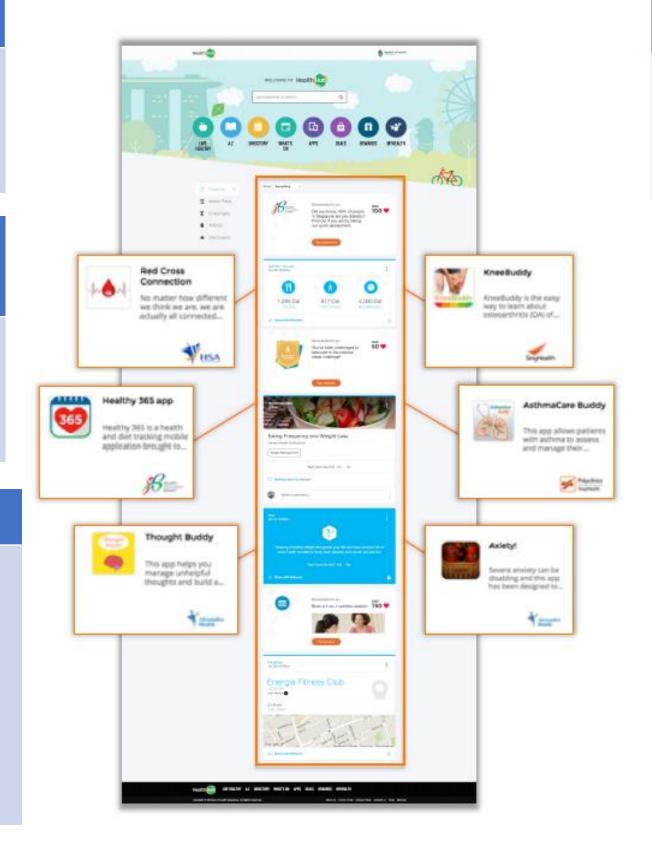
# Health Services & Navigation

Locate health services, facilities & healthcare professionals from one place

### Health Admin & Finance

Single point of contact to various health service transactions e.g. view blood donation history, appointments, view CHAS balance

## **Content & Services**



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### **Personal Health Records**

Simplified access to individual health records and wellness data for ease of use

### **Personal Health Management**

Personalised content and enrollment for preventive care programmes & conditionspecific action plans to selfmonitor and self-manage i.e. user engagement journey

### **Communities & Marketplace**

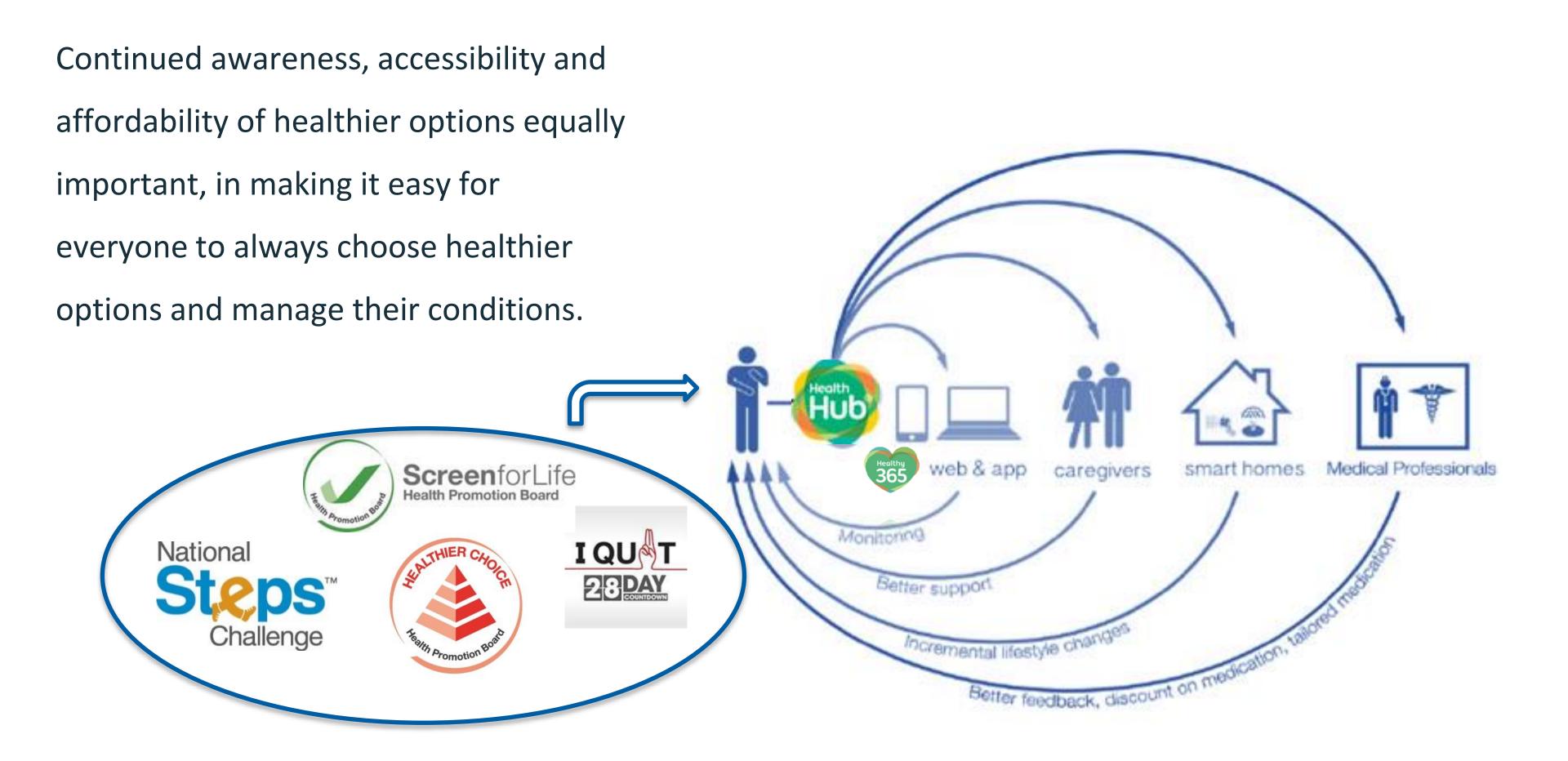
Source of community support and care services

## Adoption metrics for HealthHub surpassed our expectations and continues its growth momentum

				Health	lub
	Achieved By Oct 2016	Achieved by Feb 2017	Benchmark	S	
Total Account sign-up <sup>1</sup>	36,000	45,000	NA	NA	
Total App Downloads <sup>1</sup>	41,000	90,000	Healthbuddy (V1 launched 2012)	33,000	*Estimates: Total downloads/app tenure X 12 months
Total website Page Views <sup>1</sup>	7,200,000	9,300,000	Webmd.com	15M	*Estimates: Total PV from Oct 2014-Oct 2015
Customer satisfaction score	62%	NA	NA	NA	

<sup>1</sup>Cumulative figures since launch on 15 Oct 2015 Data sources: Comscore & Google Analytics

# Technology will continue to be a strong enabler to instill strong individual ownership of health



# Thank you.