

## Focus Reset: Adopting a consumer "first mile" mindset

David Thomas, Vice-President, TELUS Health



#### Our healthcare system needs transformation



#### BUT it's resistant to transformation

- Heavy government regulation resulting in suppression of
  - Market competition
  - Mergers and acquisitions
  - Cross border service delivery
- Commercial relationship between customer and provider is heavily intermediated
- Very limited consumer knowledge about care quality



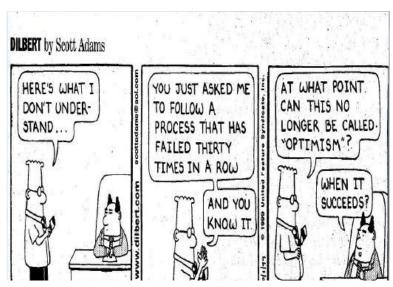
Over the last 25 years, there have been many attempts to change the trajectory



#### Investment has primarily focused on providers



- Quality initiatives within existing institutions
- Downsizing existing institutions
- Productivity improvements within existing policy structures
- Technology solutions that connect providers



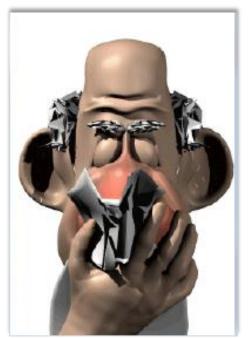
#### But it is clearly not enough...

#### What we are doing today is not working



"If the Health Care System were a patient, and the symptoms were found to be persistent despite intensive therapy, the diagnosis should be questioned and new treatments considered"

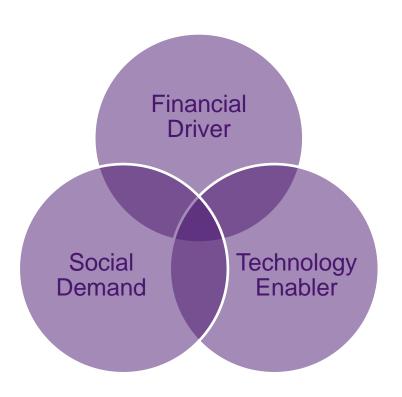
Dr. Robert Corona "Teaching old Gods new tricks"



We need to take a disruptive view of our Health System

#### There Key Drivers of Disruption





## Disruptive innovation in the health care sector:

- The transference of skills from highly trained but also expensive personnel to more affordable providers, including technology-based care
- The shift away from traditional health care venues like hospitals into clinics and office settings, and, in some cases, into patients' own home

#### Disruptive Forces



## Potential Disruptive Technology Enablers

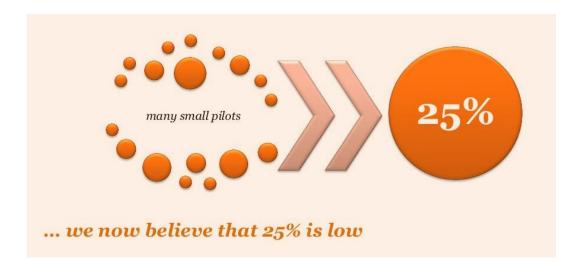
- Mobile computing
- Power to the consumer
- Virtual visits
- Saving acute illness & creating chronic illness



# Virtual visits – patient and provider in different locations



"By 2020, more than 25% of care will be delivered virtually (with provider and patient in separate places)." - Dr. Ed Brown, Nov. 2011



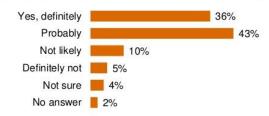
Virtual, more accessible care...not otherwise available

# Canadians are ready for virtual monitoring of chronic conditions

79%

of Canadians
indicate that
they are
comfortable
with virtual
monitoring for
chronic
conditions

Most Canadians indicated they would be comfortable having a chronic condition monitored virtually...



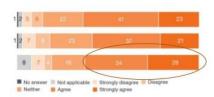
... and 62% of caregivers indicated that virtual health care would help them to provide care for someone else (e.g. parent/child)

I think we should try to deliver health care virtually wherever appropriate

I would be interested in receiving health care virtually for myself

I provide care for someone else (e.g., parents, children) and we would benefit from virtual health care for them\*

\*Only includes those who care for someone else

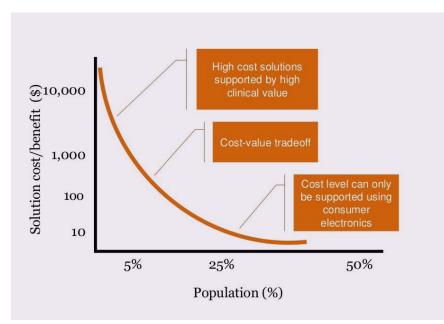


#### Consumer mHealth is a disruptive innovation



mHealth can impact higher quality of care at lower costs by impacting:

- supporting citizens in making lives healthier through wellness and prevention
- faster diagnosis of chronic diseases to limit severity
- remote monitoring can support treatment and reduce hospitalizations
- enhancing decision making by making analytics more relevant and available



Virtual, more accessible care...not otherwise available



### Disruptive Forces



- 34% using social media, 46% using online health portals, 67% using search engines
- 26% of Canadians would pay extra to access their online record
- Between 60 and 80 million consumers use social media to share their health experiences online

## Potential Social Demand for Change

- Aging Population
- Digital providers
- Tech savvy consumers
- Unhealthy lifestyles

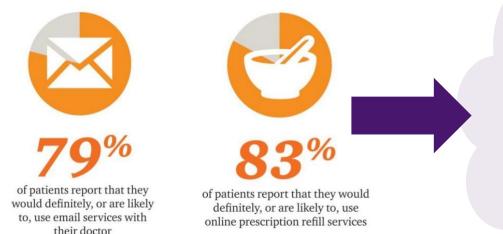
- 72% of e-patients search for medical information
- 93% of e-patients say the Internet allows them to get the medical information they need
- 36% of people want to see what other consumers say about medication or treatment



#### An outside-in view: the Consumer



More than 2,400 Canadians participated in our research to address the central question, "What does the future of health care delivery look like?"



Check for an ear infection at home using a device attached to a phone



Have a wound or pressure sore treated at a clinic in a retail store or pharmacy



Get an MRI at a clinic in a retail store or a pharmacy



Have chemotherapy at home



Have a pacemaker or defibrillator checked at home by your physician



http://www.pwc.com/ca/en/healthcare/virtual-health-making-care-mobile-canada.jhtml

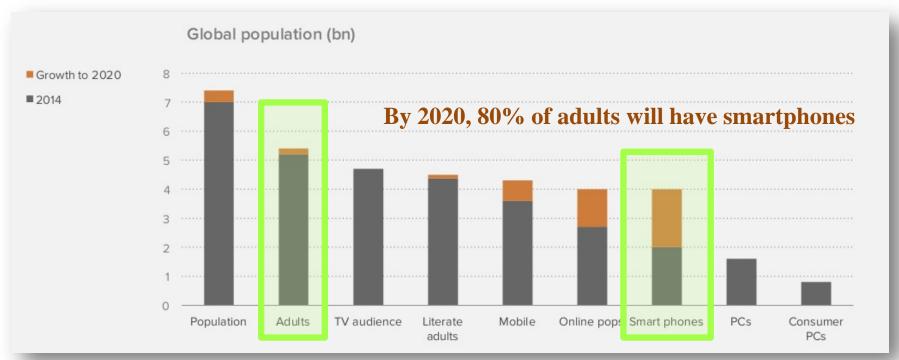
Consumers are demanding modernization, moving away from traditional care models

# ...and getting together on-line and influencing their own care path



### ...and becoming increasingly technology savvy





Source: World Bank, GSMA, a16z via Evans 2014



#### Rise of virtualization and consumer mHealth





expands and deepens this trend across healthcare



### Disruptive Forces





## Financial Drivers of Change

- Rising costs of labour and drugs
- Cost containment strategies
- Private sector partnerships



#### Status quo is clearly not an option...

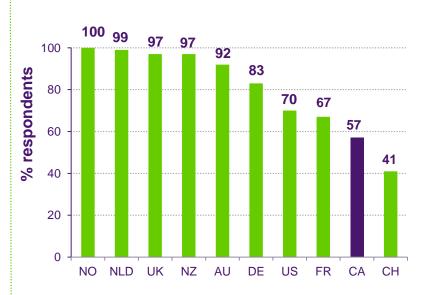


#### **Healthcare Performance Ranking- 11 OECD Countries**

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	AUS	CAN	FRA	GER	<b>NETH</b>	NZ	NOR	SWE	SWIZ	UK	US
Overall Ranking (2013)	4	10	9	5	5	7	7	3	2	1	11
Quality Care	2	9	8	7	5	4	11	10	3	1	5
Effective Care	4	7	9	6	5	2	11	10	8	1	3
Safe Care	3	10	2	6	7	9	11	5	4	1	7
Coordinated Care	4	8	9	10	5	2	7	11	3	1	6
Patient-Centered Care	5	8	10	7	3	6	11	9	2	1	4
Access	8	9	11	2	4	7	6	4	2	1	9
Cost-Related Problem	9	5	10	4	8	6	3	1	7	1	11
Timeliness of Care	6	11	10	4	2	7	8	9	1	3	5
Efficiency	4	10	8	9	7	3	4	2	6	1	11
Equity	5	9	7	4	8	10	6	1	2	2	11
Healthy Lives	4	8	1	7	5	9	6	2	3	10	11
Health Expenditures/ Capita 2011	\$3,800	\$4,522	\$4,118	\$4,495	\$5,099	\$3,182	\$5,669	\$3,925	\$5,643	\$3,405	\$8,508
	Country Rankings				Top 2*		Middle			Bottom 2*	

Source: The Commonwealth Fund 2014 Update - Mirror, Mirror On The Wall: How The Performance Of The U.S. Health Care System Compares Internationally

#### **EMR International Adoption Rates**



Source: Commonwealth Fund "How do Canadian primary care physicians rate the health system?" Jan. 2013.Results from the 2012 Commonwealth Fund International Health Policy Survey of Primary Care Physicians



#### Increased spending on health-related goods (U.S.)

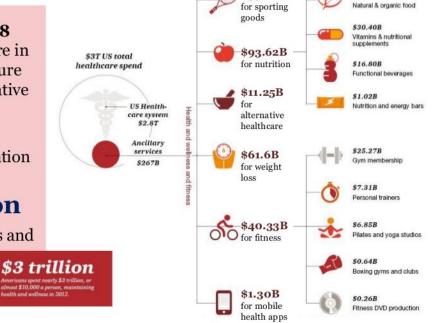


Americans spent \$2.8 trillion on healthcare in 2012, an oft-cited figure that ignores the lucrative fitness and wellness industry.

HRI estimates the nation spent another

\$267 billion

in 2012 on the fitness and wellness market.



\$59.20B

\$45.40B

Natural & organic food

### Why has uptake been so slow in Canada?



- Policy
- Regulatory
- Funding
- Lack of incentives / business model
- Technology

# How do we "curate" this disruptive change to make it successful?



## Creating hubs to allow for better health collaboration





- Home Health Monitoring
- Province-wideiScheduler

Claims and Provider management





- Personal Health Records
- EMR's for Family Care Clinics

 U of A research partnership on Consumer Health





- Connecting GTA
   Patient data sharing for 6M
   citizens
- Pediatric Health records



Home Health Monitoring



Ontario Drug Board and
Workplace Insurance Board
Claims Management



#### Québec ::

- Montreal, Laval, Laurentides, Lanaudières and Saguenay health Agencies OACIS project (covering 3.7M citizens – 46% of population)
- Remote Patient Monitoring projects in key regions
- eReferral in Montreal region
- 3 year program on chronic disease and medication mgmt.





# Private sector hubs will also support strong health collaboration























Strong relationship with the health insurance sector with over 40% market share for drug claims in Canada



### **Innovation Today**





Information for Life.

TELUS | HEALTH

### What's the Impact?



80% of encounters lack important information

60% of clinical questions go unanswered

50% of those answers would have had a direct impact

33% of clinical time is searching/organizing data

40% of clinical data resides in "white space"



#### **Innovation Tomorrow**



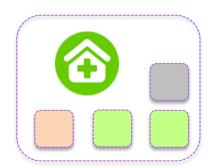


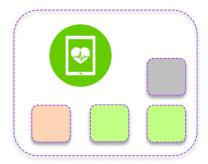
## Apps Today







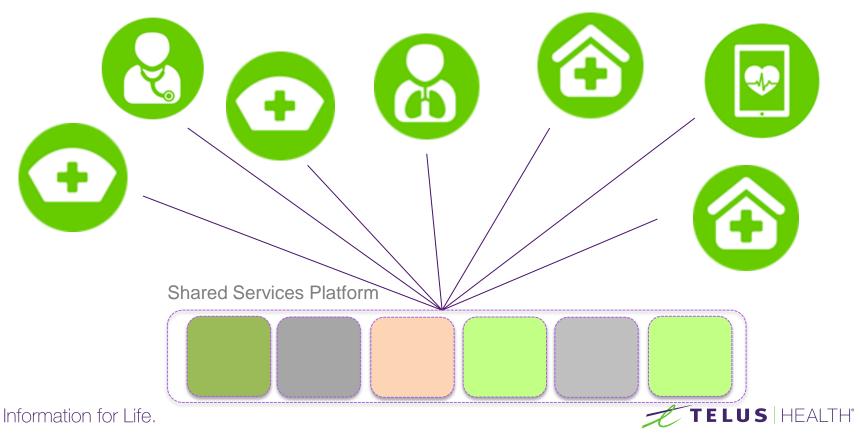






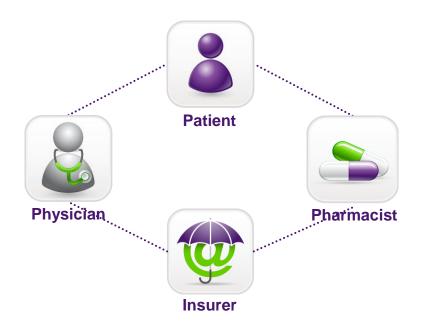
### **Apps Tomorrow**

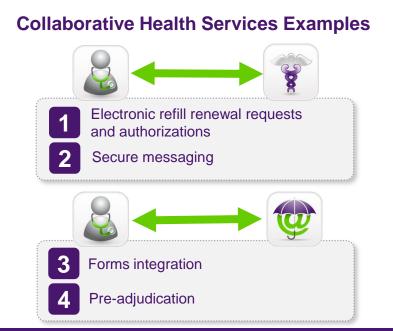




# Developing collaborative health services that connect providers and consumers







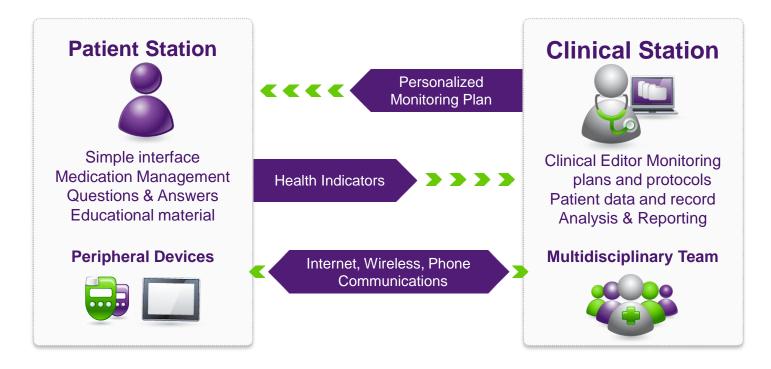
Facilitating interactions between consumers, physicians and pharmacists through connected digital information



#### Example of collaborative health services:

#### **Home Health Monitoring**



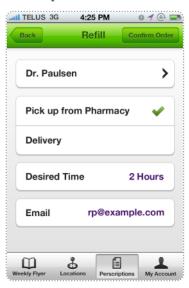


#### Example of collaborative health services:

#### **TELUS Pharma Space**



#### **Simplified Refills**



One-click prescription refill from anywhere

#### **Medication History**



Medication history at your fingertips

#### **Drug Information**

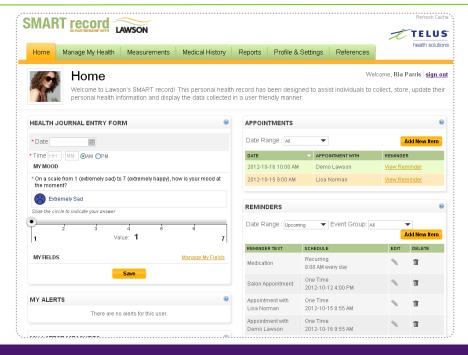


Access information anytime



# Empowering consumers with **Personal Health Records**





#### Create, Store & Manage

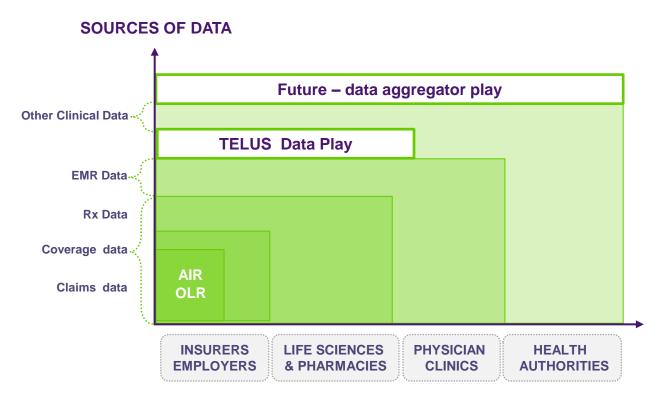
- Immunizations
- Allergies & Asthma
- Medications
- Height, weight, symptoms
- Medical measurements (such as blood glucose)
- Pre-existing illnesses or conditions
- Hospitalizations & operations

Our industry-leading Personal Health Record solution enables users to self- manage their health information



#### Generating quantifiable health outcomes









## Information for Life.

