



Digital Health in Canada: Transforming Health Care Through Innovation

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Michael Green, President and CEO
@MGreenonHealth





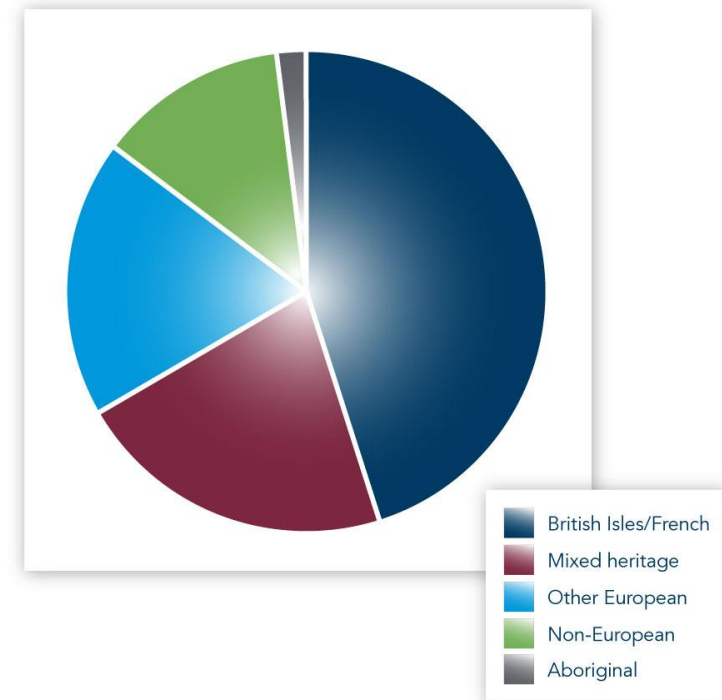
Canadian Context



Canada: Large Country, Small Population

- Second largest country in the world
- Population density among the lowest in the world: (33 million people or 3.5/km²)
- Concentration:
 - Toronto area, Ontario
 - Montreal, Quebec
 - Vancouver area, British Columbia
 - Calgary-Edmonton, Alberta

Cultural diversity



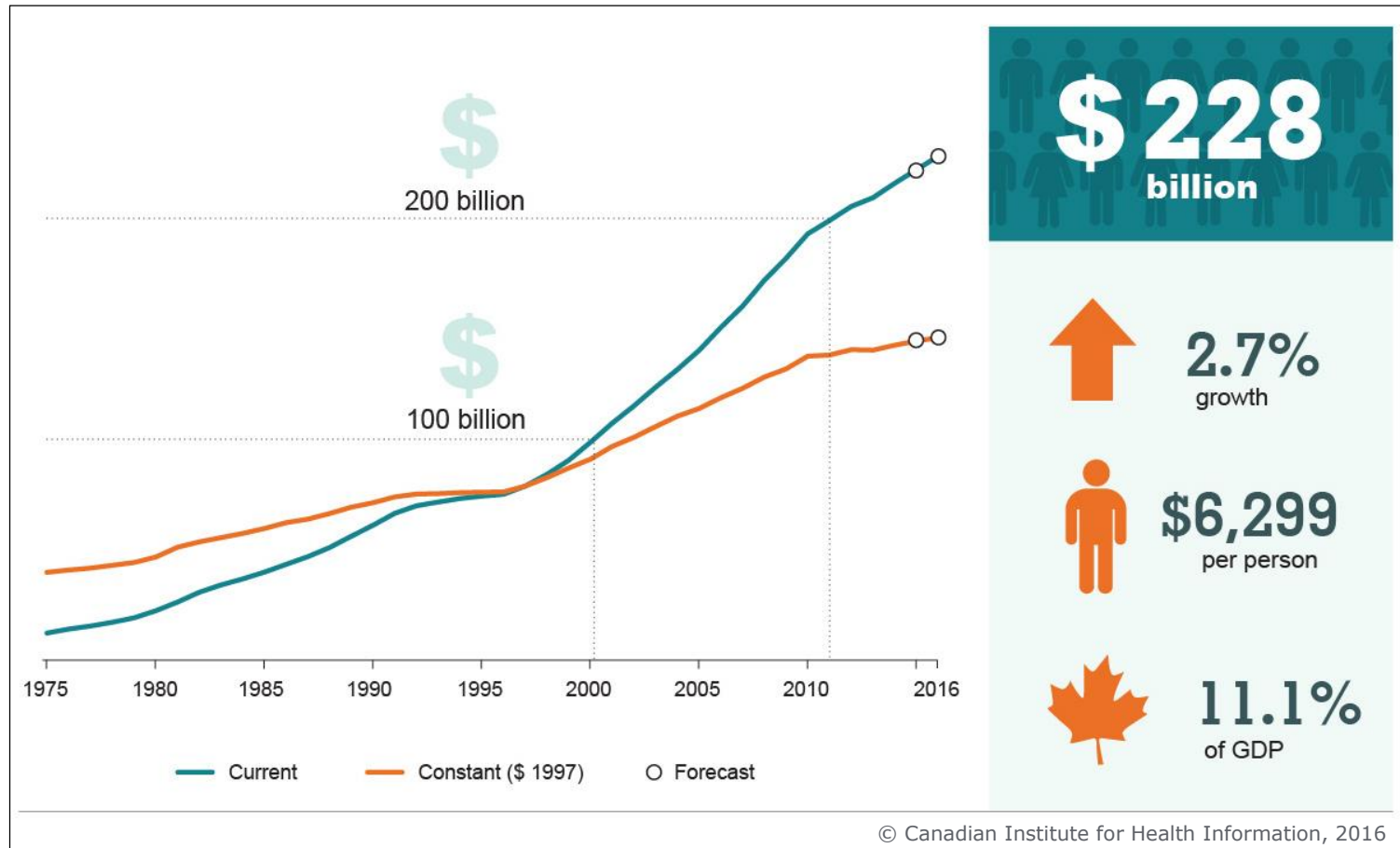


Canada's Health Care System

- Federal government sets and administers national health care principles
 - **Federal health transfers cover about 23 per cent of provincial and territorial health spending**
- 13 provincial/territorial governments plan, finance, manage, evaluate their health services
- ~ 80 health regions coordinate care delivery



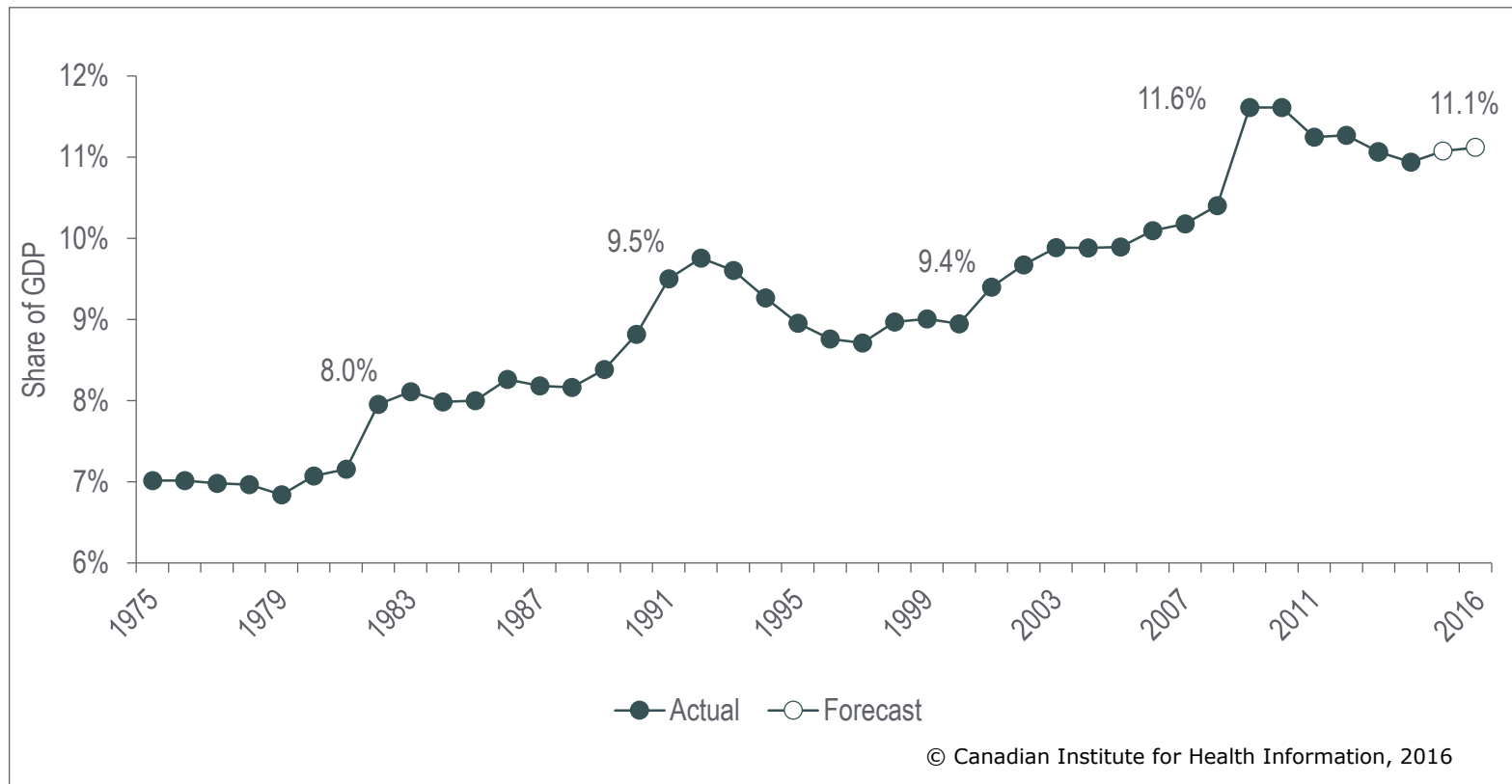
How Much Will We Spend on Health in 2016?



Source: National Health Expenditure Database, Canadian Institute for Health Information.



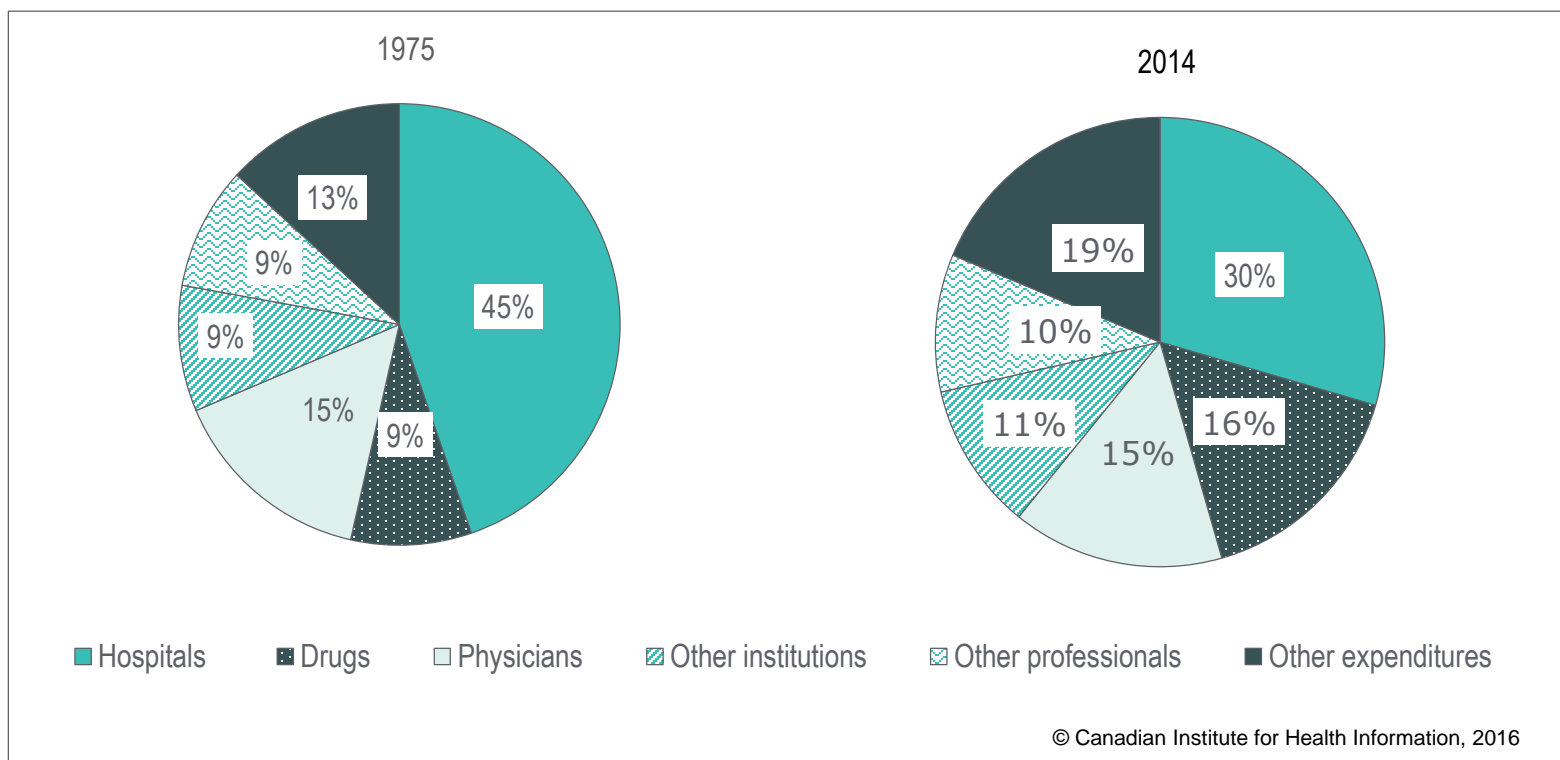
Health Spending as a Share of GDP has Trended Upward Over the Last 40+ Years



Sources: National Health Expenditure Database, CIHI; Statistics Canada; The Conference Board of Canada.

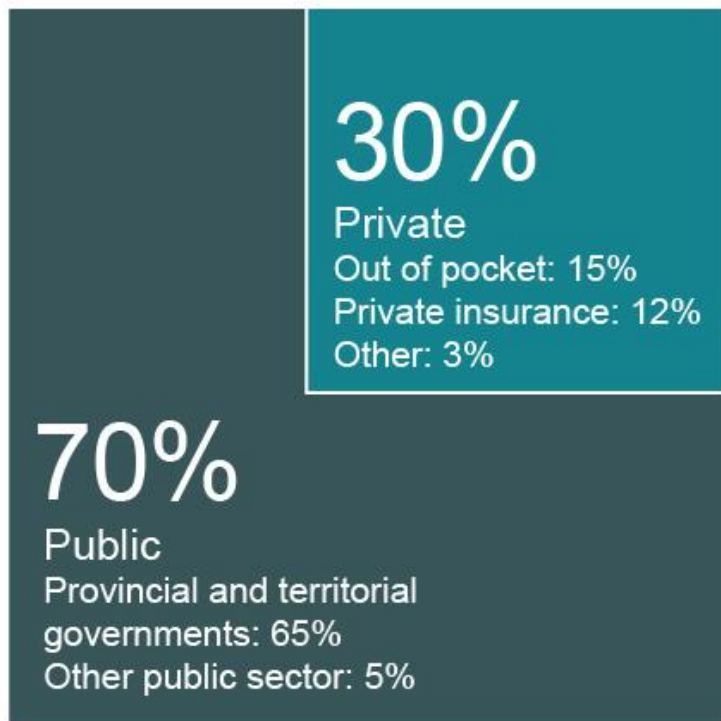
Where is Most of the Money Being Spent?

The share of hospital spending has declined since 1975 as shares of spending on drugs and other expenditures have increased



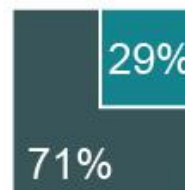
Sources: National Health Expenditure Database, CIHI; Statistics Canada; The Conference Board of Canada.

Who is Paying for These Services?



Forecasted for **2016**

The public–private split has been fairly consistent since the late 1990s.



1995



2000



2005

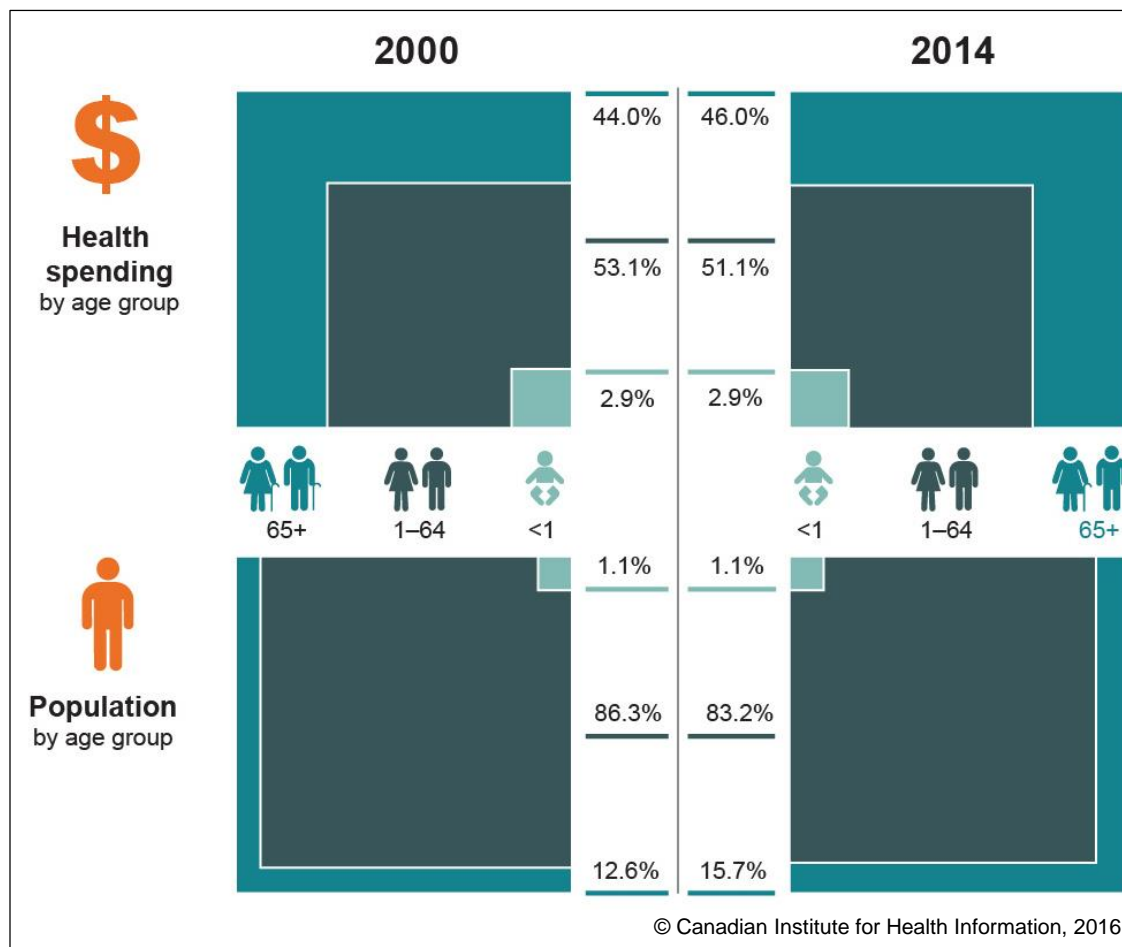


2010

© Canadian Institute for Health Information, 2016

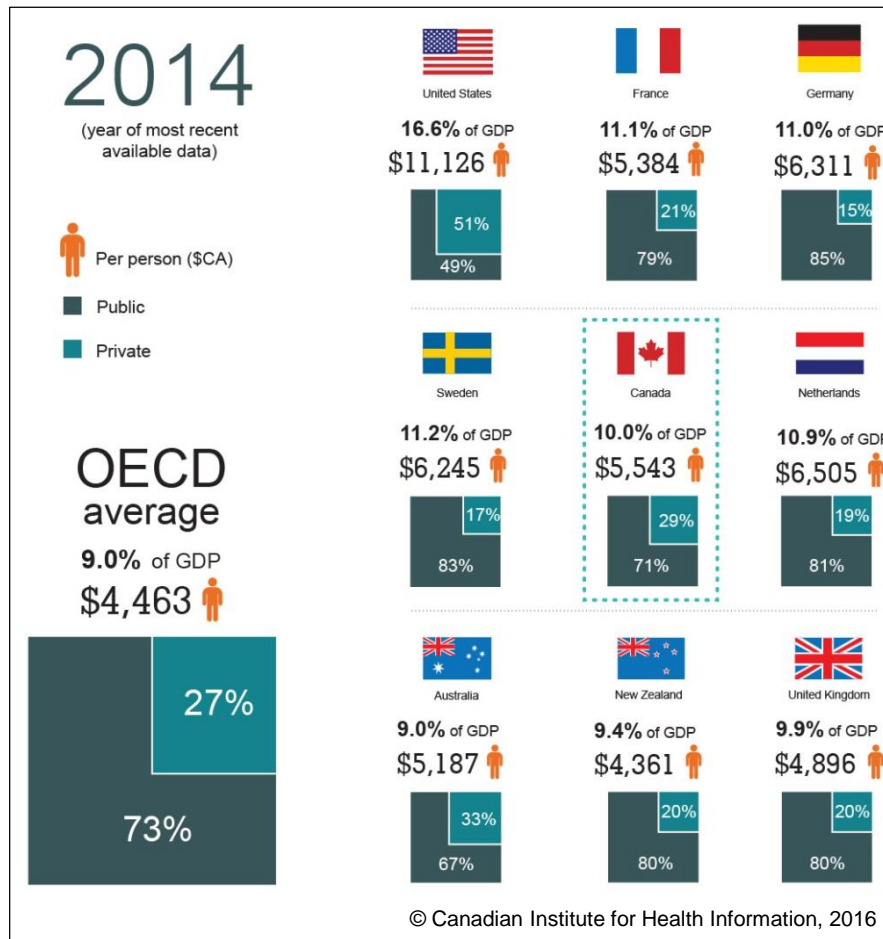
Sources: National Health Expenditure Database, CIHI; Statistics Canada; The Conference Board of Canada.

The Share of Health Spending on Seniors



Sources: National Health Expenditure Database, CIHI; Statistics Canada; The Conference Board of Canada.

How does Canada Compare Internationally?



Note: Total current expenditure (capital excluded). Expenditure data is based on the System of Health Accounts.
Source: OECD Health Statistics 2016 (June edition).



About Infoway



Canada Health Infoway

- Established in 2001
- Independent, not-for-profit corporation
- Equally accountable to 14 F/P/T governments; the Members
- Independent Board of Directors appointed by the Members
- Since inception, \$2.15 billion in capitalization from federal government






Infoway's Vision: Healthier Canadians Through Innovative Digital Health Solutions



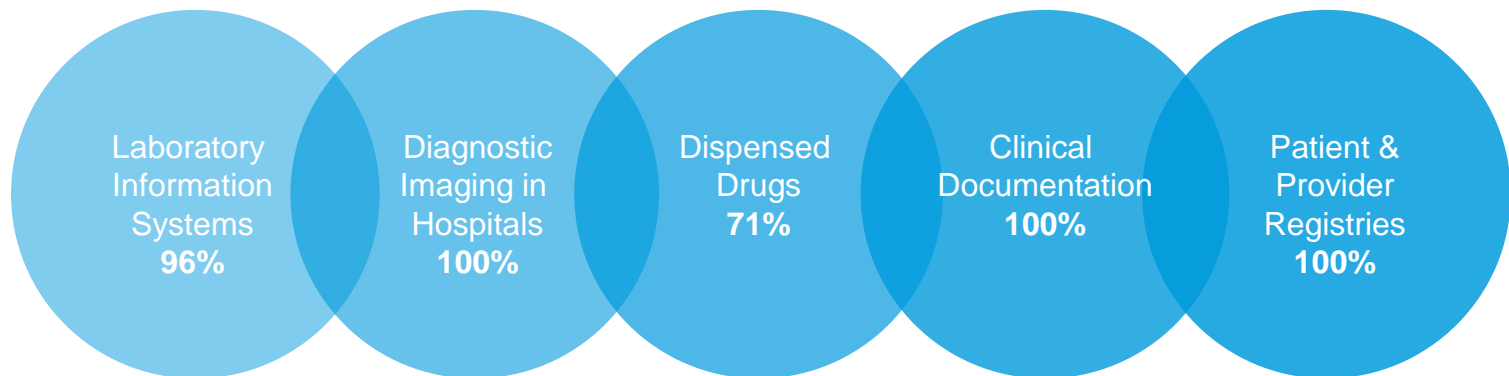
Three Waves of Digital Health Innovation

- 
- Building blocks
 - Foundational infrastructure for digital health: investments in six core components of an electronic health record (EHR)
 - Digital tools for clinicians
 - Electronic medical records (EMRs)
 - Expansion of telehealth
 - Public health surveillance solutions
 - Empowering patients
 - We are in this wave now
 - Focus on improving the patient experience and enhancing patient safety



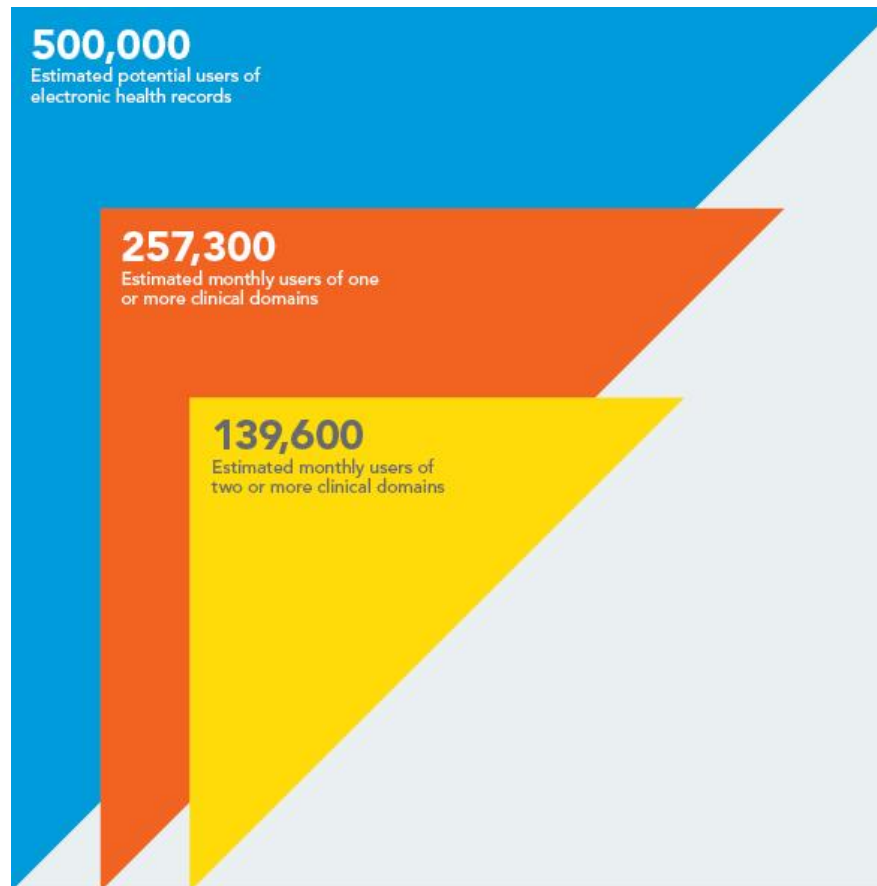
The First Wave

- Foundational infrastructure for digital health: investments in six core components of an electronic health record
- Leadership in architecture, standards, privacy
- Pan-Canadian strategy





Progress: Electronic Health Record User Adoption Landscape





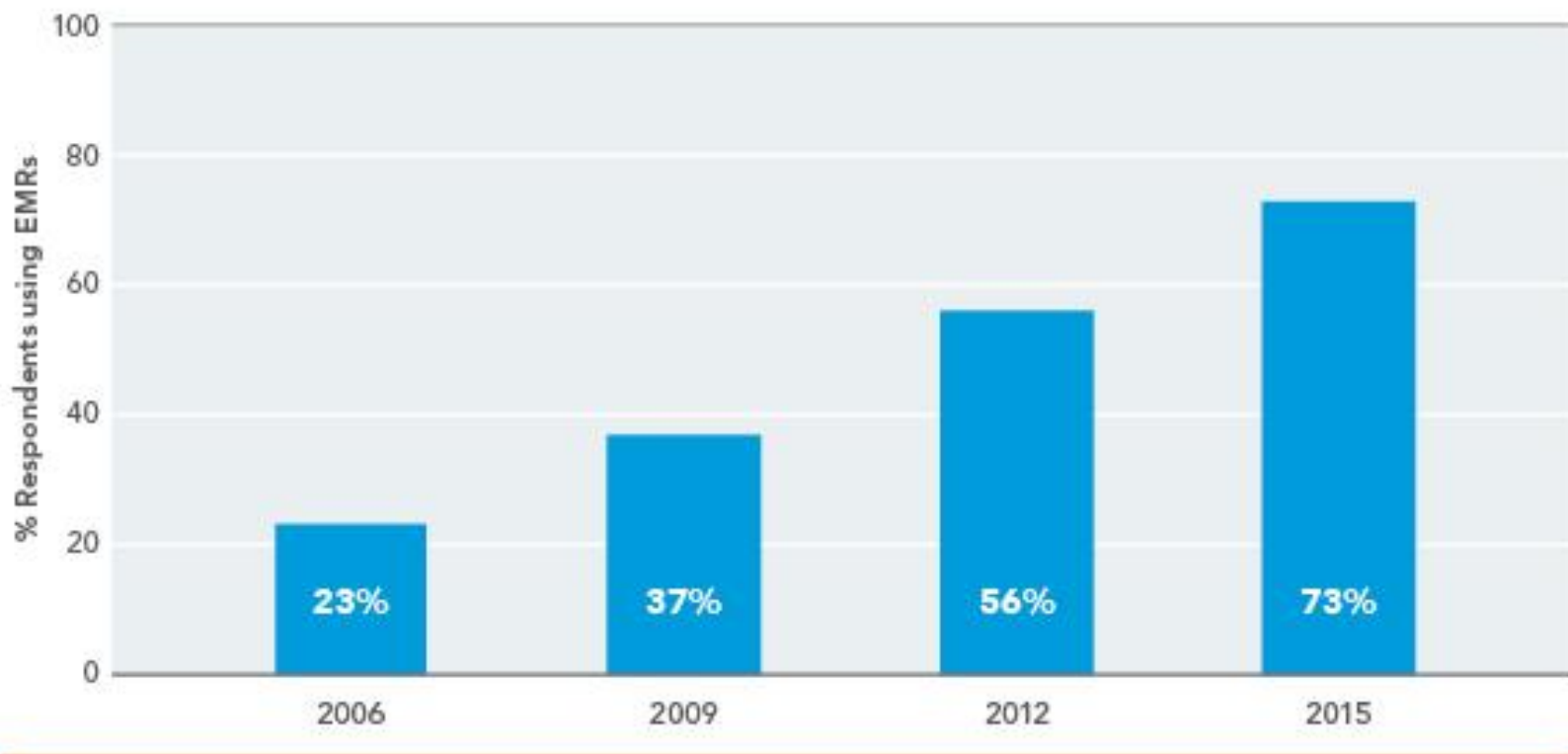
The Second Wave: Digital Tools for Clinicians

- Electronic medical records
- Expansion of telehealth
- Public health surveillance solutions



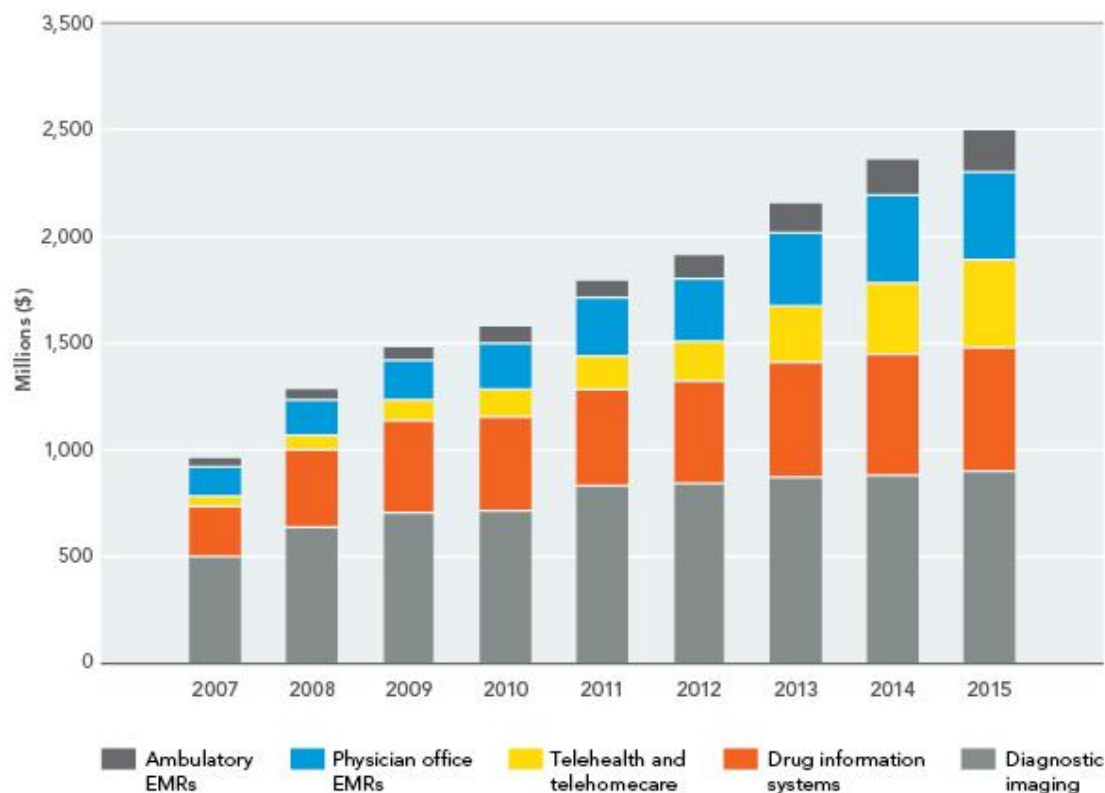


Family Physicians in Canada Using Electronic Medical Records: Commonwealth Fund Surveys





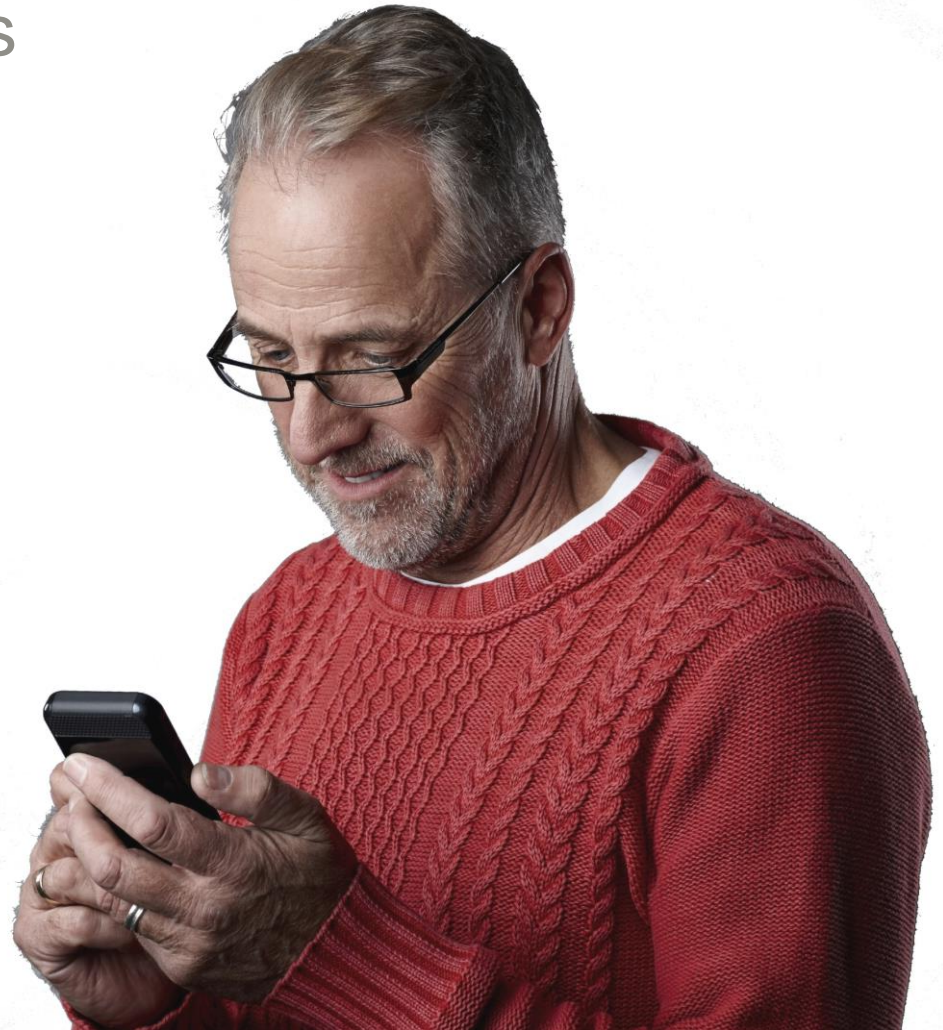
Estimated Aggregate Benefits of \$16 Billion Since 2007





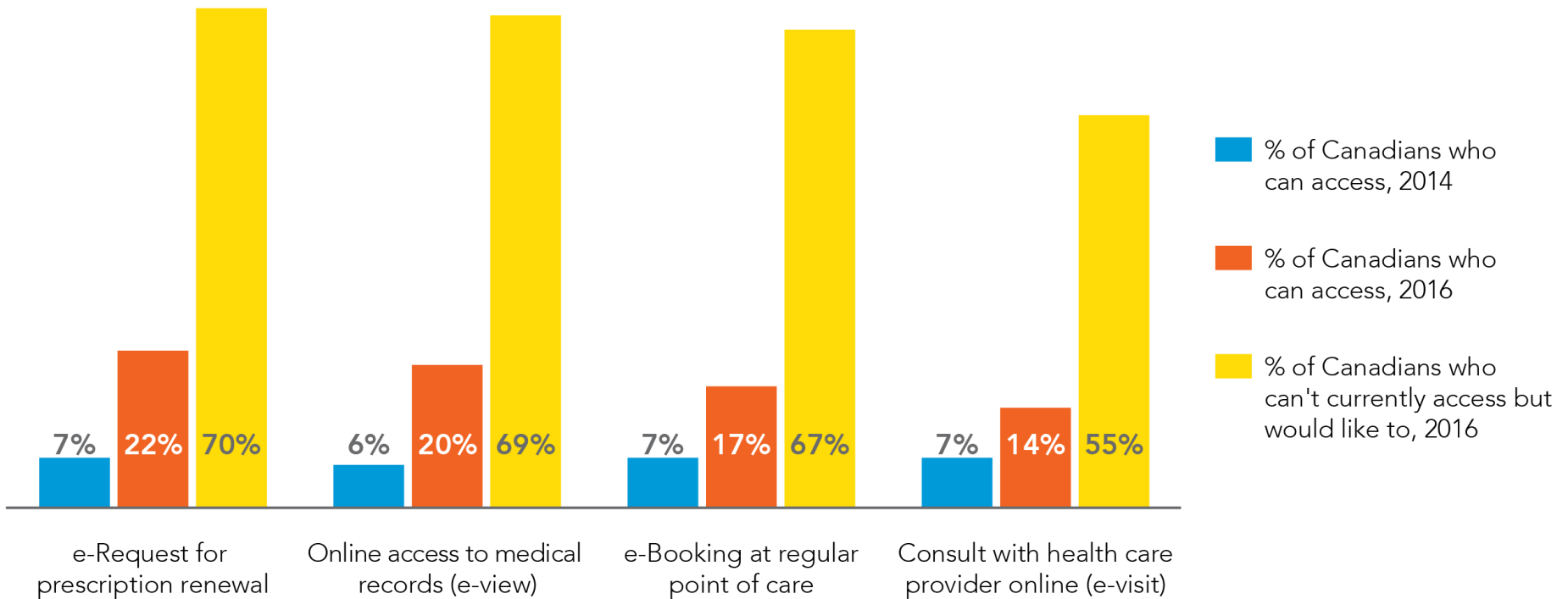
The Third Wave: Empowering Patients

- Improving the patient experience
- Enhancing patient safety
- Access
- Coordination
- Transformation





Recent Survey Results: Access to and Interest in Virtual Care Services





Government Priorities



Federal Government Priorities

- Homecare and palliative care
- Mental health
 - Access to care
 - Youth
- Care for First Nations/Indigenous and remote populations
- Prescription drug abuse (opioids)
 - Fentanyl crisis



Health Minister Jane Philpott
- family physician



Our Strategy



Summary Corporate Plan 2017-2018

Four goals:

- Promote medication safety through e-prescribing.
- Scale and spread innovative solutions.
- Connect Canadians with their health information.
- Provide digital health leadership.





E-Prescribing



PrescribeIT™

CANADA'S ELECTRONIC PRESCRIPTION SERVICE

- Enable community-based prescribers to electronically transmit a prescription to a patient's pharmacy of choice
- Reduce the use of paper prescriptions, optimize existing drug information system investments
- Enhance patient safety, improve continuity of care, and facilitate better health outcomes

Infoway's Objective

To create, operate and maintain a **financially self-sustaining e- Prescribing Service** that will be the long time "go to" solution of choice for **e-transmission of prescriptions** for government, prescribers, and pharmacies for the ultimate **benefit of the patient**. Benefits derived from the service will be meaningful to all key stakeholders.

Health Canada's Action Plan On Opioid Misuse

“Supporting better prescribing practices:

- Promote prescription monitoring programs
- Examine pharmacy records
- Share information with PT licensing bodies
- **Canada Health Infoway e-prescribing solution”**





Consumer Health



Consumer Health Investment Program

Infoway is investing in consumer health solutions that Canadians are most likely to use and those with high patient and health system value



e-Booking, allowing patients to choose appointments convenient for them, receive reminders, and make changes when needed



e-Visits, including secure messaging and video visits



e-Renewals, so patients can request prescription renewals online



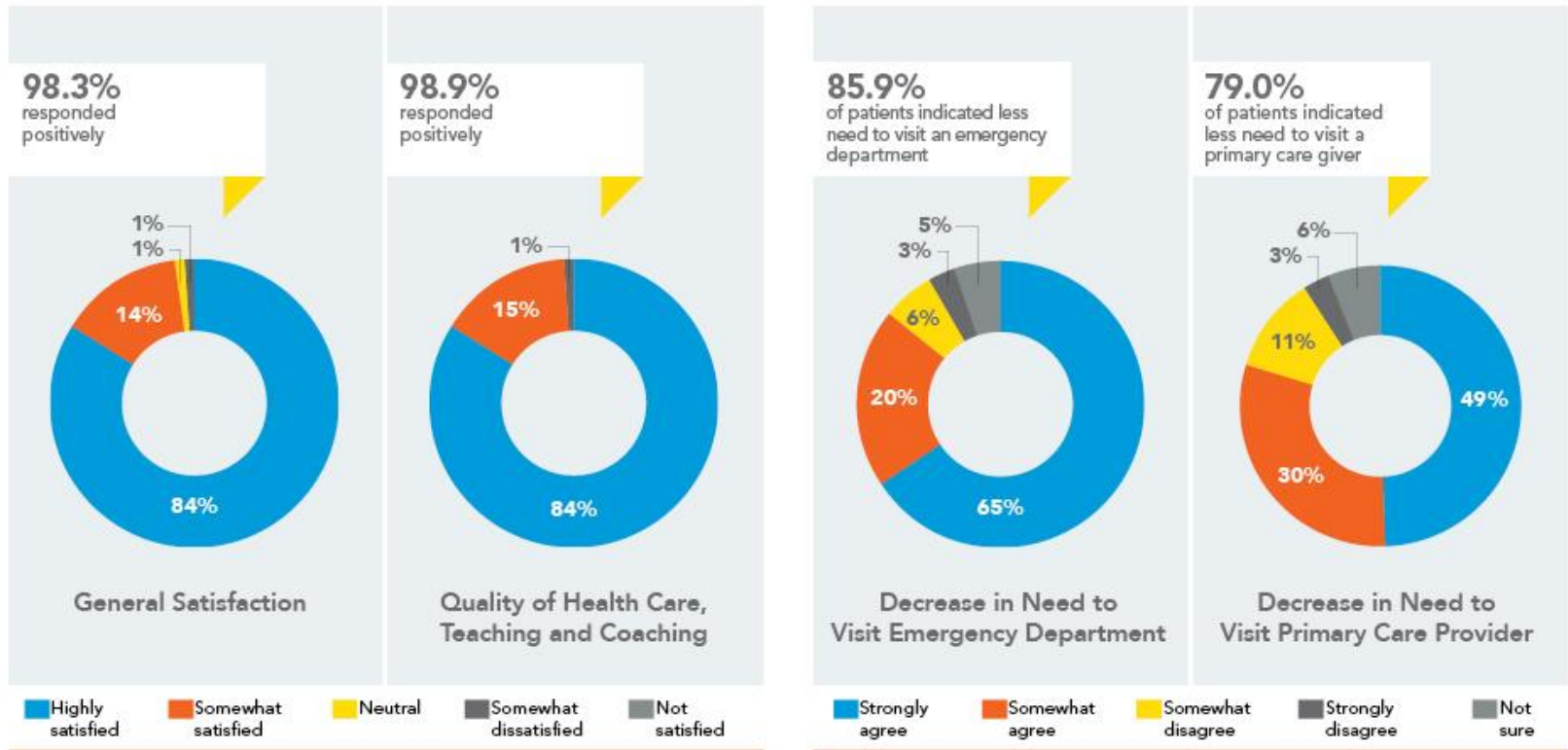
Online access to health records, e.g., laboratory test results, children's immunizations, and other components with high value



Telehomecare, allowing the electronic transmission of patient data (e.g., symptoms, vital signs) from a patient's home to a health care provider for monitoring and support over a specified time period



Positive Outcomes from Telehomecare in Ontario



Source: Ontario Telemedicine Network, Patient Experience Survey



Patient ▾

Print Health Records

Medications

Current medications only

[+ Add](#)

Drug ^	Directions	Last Modified Date ⇅	Status ⇅	Source ⇅
Amblen (5 mg)	1 x 5 mg per day	Jan 31, 2014	Taking	Provider ▾
penicillin G benzathine intramuscular syrg 1,200,000 unit/2 mL		Oct 19, 2016	Taking	Patient ▾
Thyroxin (7.5 MG)	1 x 7.5 mg per day	Jan 31, 2014	Taking	Provider ▾

Allergies - Medication

[+ Add](#)

Allergy	Reactions	First Occurrence	Status	Source
Sulfa Drugs	Breathing Problems, Dizziness		Active	Provider ▾

Allergies - Environmental or Food

[+ Add](#)

Allergy	Reaction	First Occurrence	Status	Source
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The patient has no known environmental or food allergies, updated Mar 16, 2016. [Re-confirm Status](#)



Big White Wall



Post a Talkabout

Talk to other Big White Wall members who may be experiencing the same thing as you.



Create a Brick

Express your feelings by creating a Brick using pictures and images.



Assess Yourself

Take assessments to set goals and track your progress.



Find Useful Stuff

With over 200 articles on Big White Wall, you can understand more about how you are feeling.



Join a Program

Register for on-line guided support courses using recognized therapies.

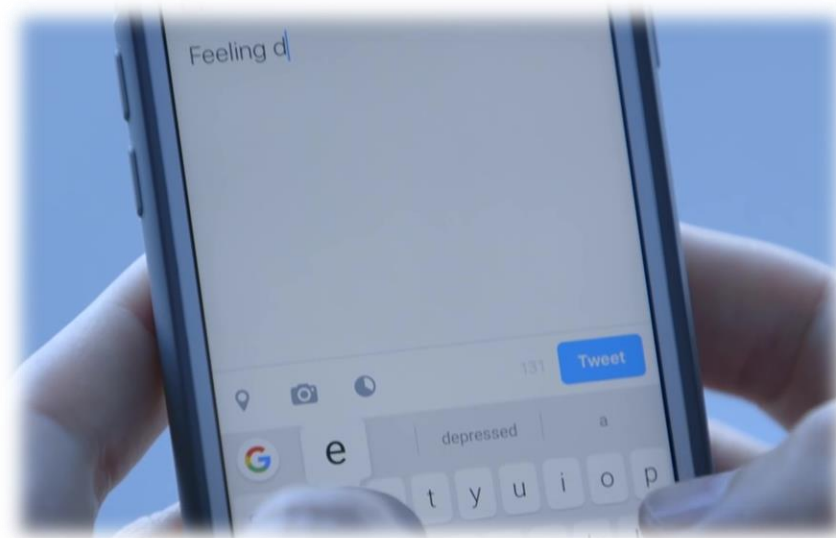


Make Friends

Connect with other Big White Wall members who feel like you so you can support each other.




Youth Mental Health – SAS





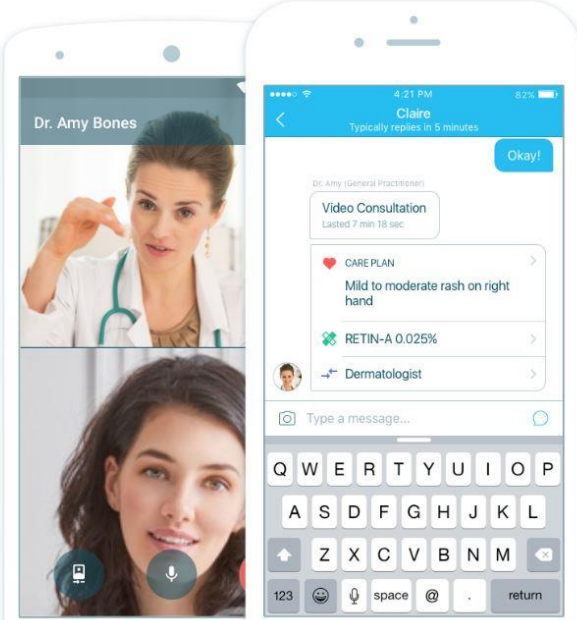
Dialogue

Now available in Ontario and Quebec!

 [BLOG](#) [CAREERS](#) [REQUEST A DEMO](#) [EN / FR](#)

Better health for your employees, anytime, anywhere.

Dialogue is a comprehensive, virtual care platform that offers Canadian employers a range of services to keep their teams engaged, healthy, and performing at their highest potential. We have your employees' wellness and health at heart.

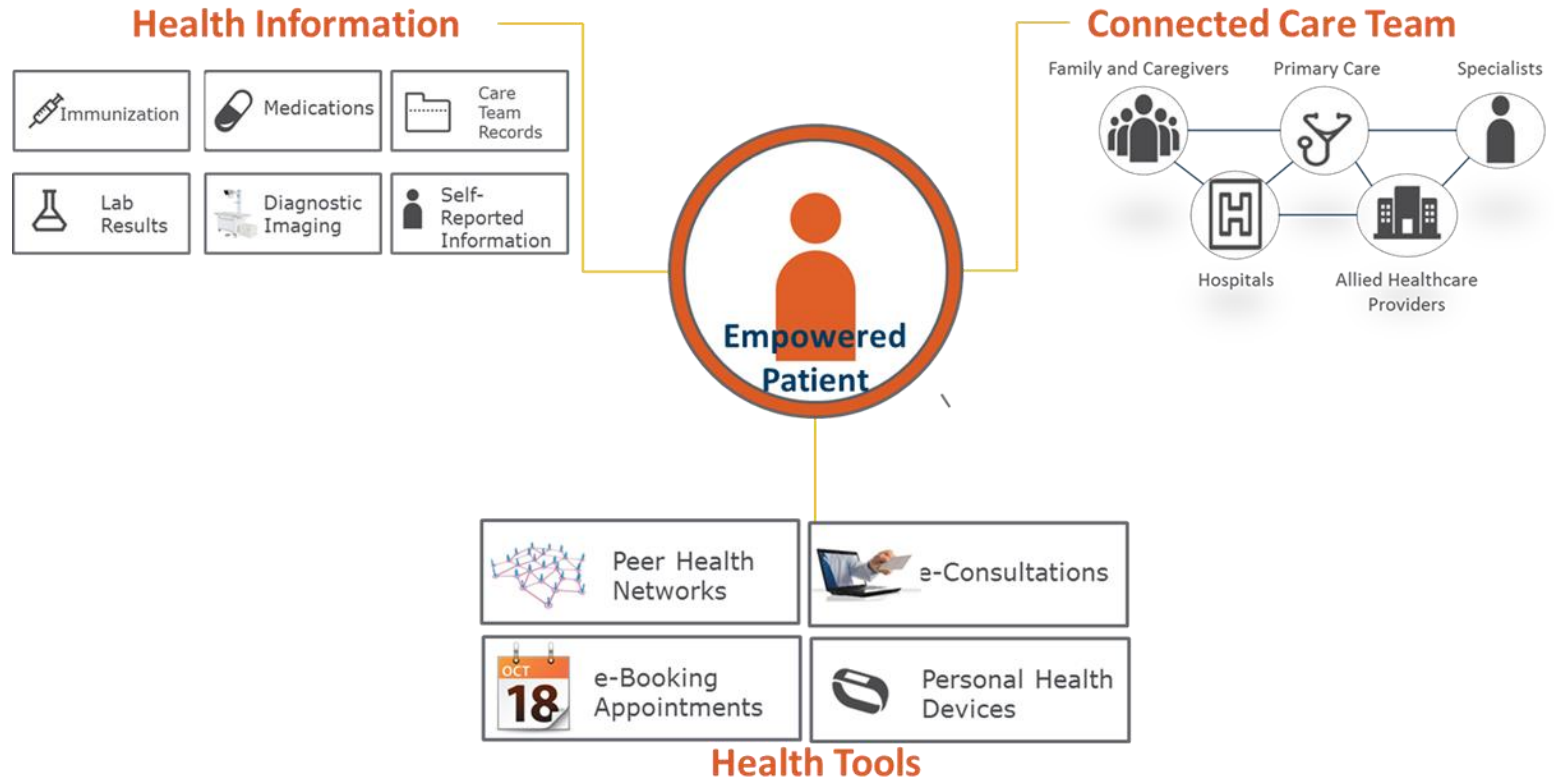




Our Vision



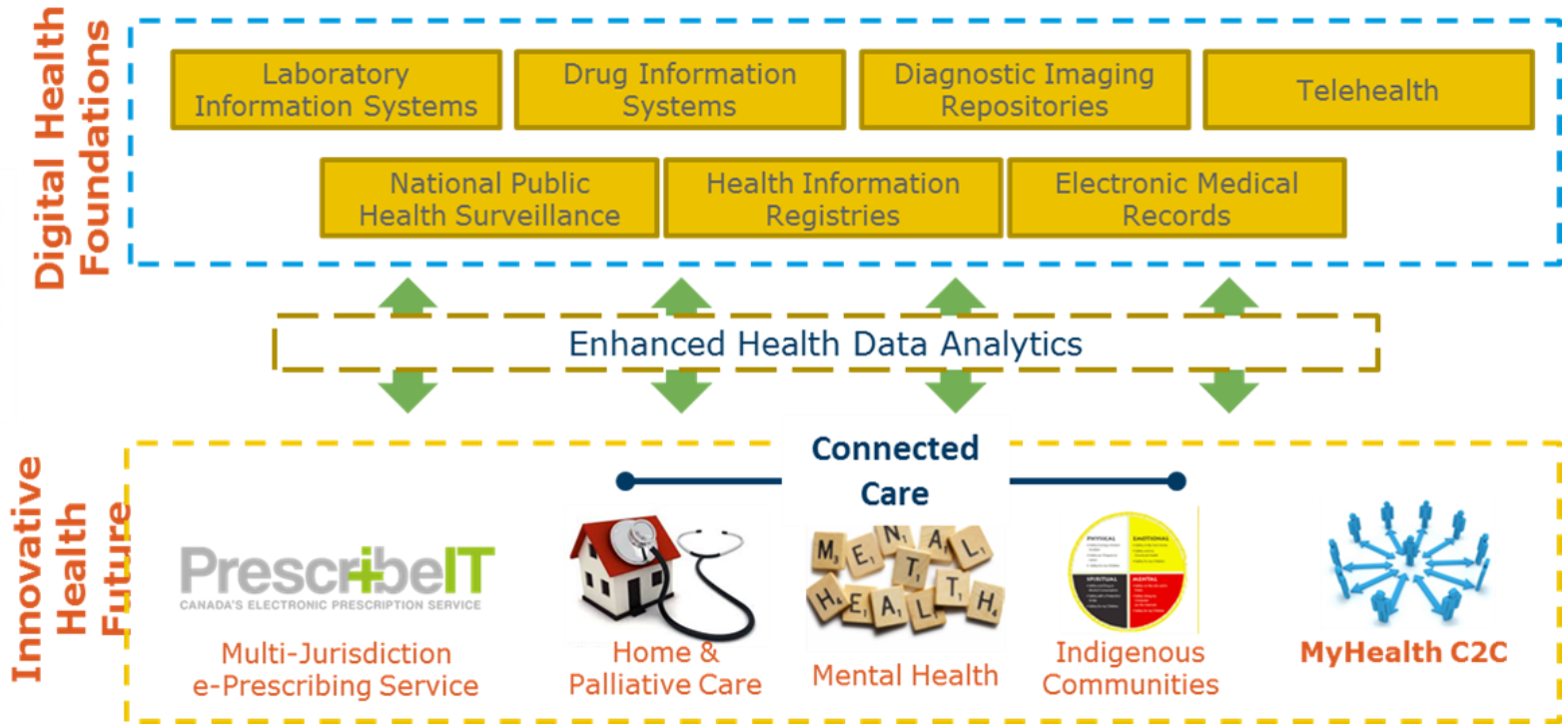
Our vision is to enable Canadians to hold and share their health information, empower them to take control of their own health, and create a more seamless interaction with their care team



Enabling Canadians to hold and share their own health information will have a transformative effect on health care delivery in Canada by improving the flow of information and delivering more effective clinical decision-making



Enabling Innovation in Care Delivery





Canada Inforoute
Health Santé
Inforoute du Canada

THANK YOU!