

OCHIS: Value-Based Innovation Framework – *a new way of doing business*

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Health as an Economic Driver

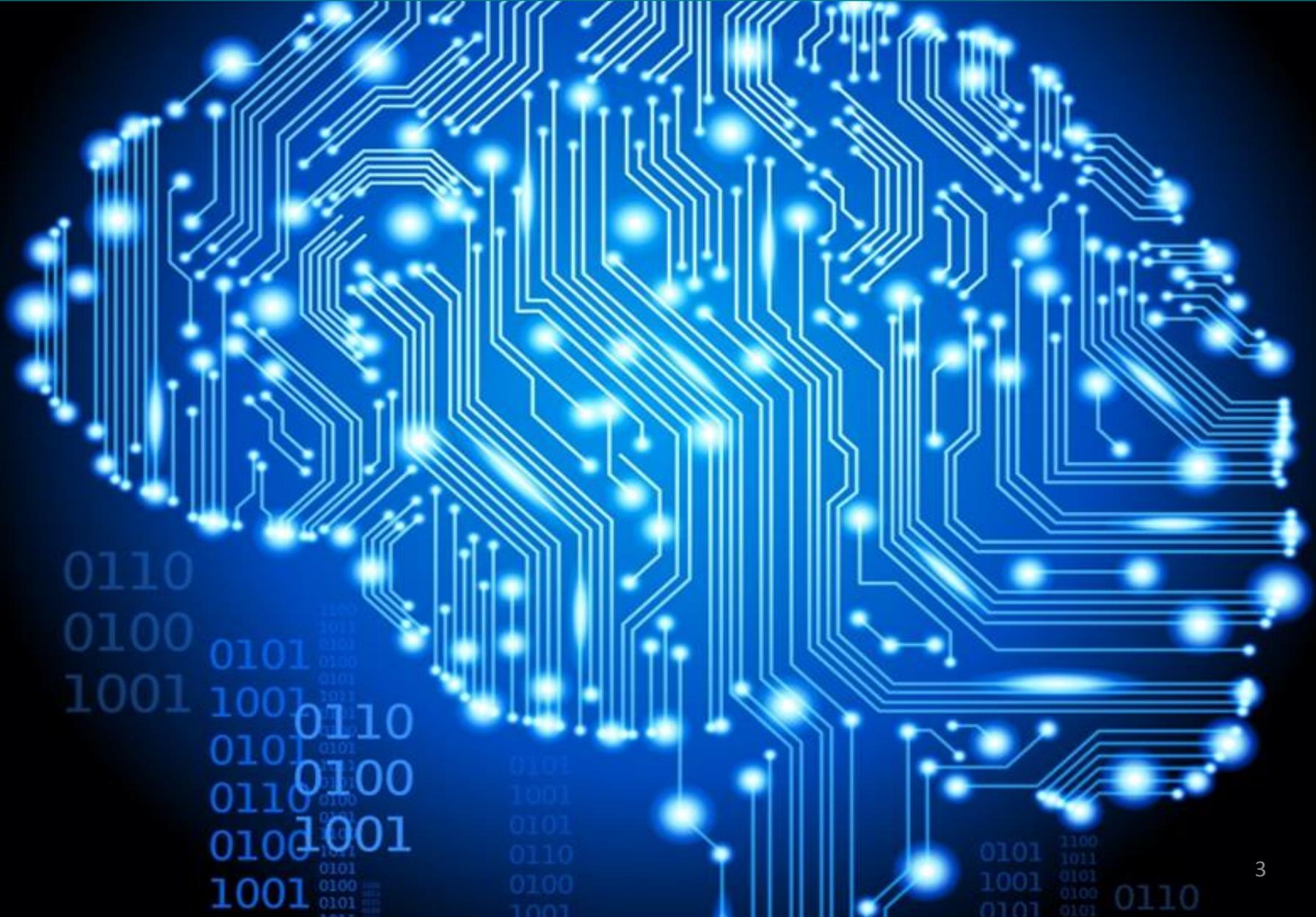


Impact of Our Work

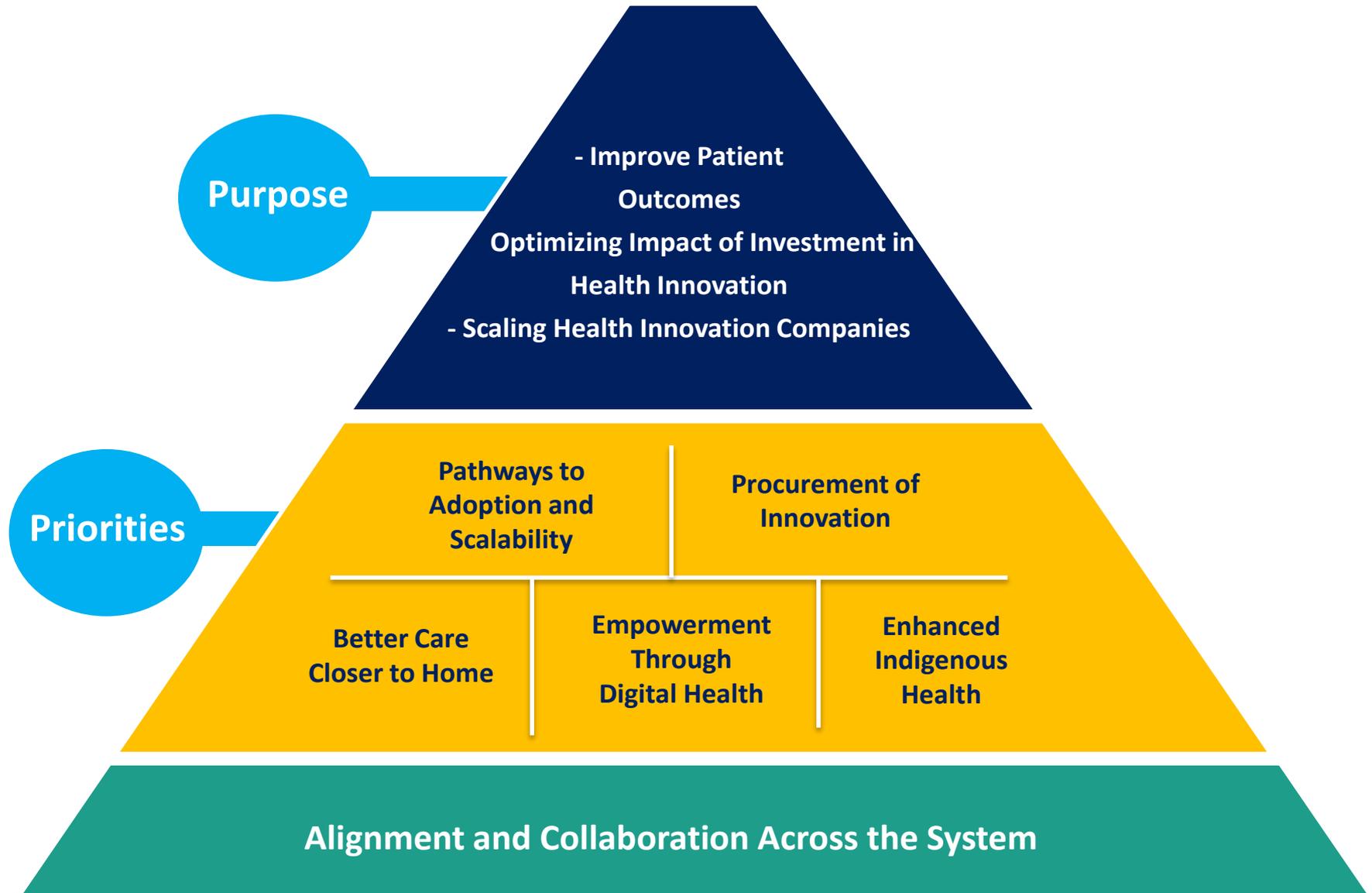


Call to Action: Think Big, Act Local, Do it Now

The Health Innovation Imperative



Catalyst for Collaboration and Commercialization



Patients Are Our Focus

- In alignment with Ontario's *Patients First: Action Plan for Health Care*, OCHIS will support the move towards patient-centred **value-based care**.
- We have established a **value-based innovation framework** - a new way of doing business.



“From a patient perspective, in two years, what will I see that’s different as a result of your work”

OCHIS Update: Value-Based Innovation as a *Framework*

Our value-based innovation **framework** supports **value-based care and creates jobs in Ontario** through health innovation. It incorporates all OCHIS activities.

Improving patient outcomes

Optimizing investment in health innovation

Scaling health innovation companies

Value-Based Innovation

Empowering Demand Drivers

Generating Evidence and Facilitating Evaluation

Empowering Innovators

Innovation Brokers

EXCITE

VBIP

HTF

Enhanced Capabilities

Collaboration and Alignment Across the Health System

Innovation Brokers are Building Capacity in Ontario's Health Technology Marketplace

Where we started:

- Health innovators struggling to navigate a complex health system, and leaving Ontario for greener pastures
- Health service providers unsure how to engage industry and articulate needs in a way that can drive innovative solutions

What we did:

- Recruit field-based brokers working with Ontario's innovators and health care providers to broker deals, advise start-ups and building receptor capacity
- Recent Highlights:
 - Brokering joint ventures between Ontario SMEs and multinationals
 - Developing a procurement myth-busting toolkit for hospitals

Where we are going:

- Program-focused call for three new Innovation Brokers in 2018, including a Broker dedicated to serving Indigenous communities
- Expansion of services to a broader audience

MaRS Excellence in Clinical Innovation Technology Evaluation (EXCITE) is Building Evidence for Adoption of Innovative Technologies

Where we started:

- A program with excellent potential as an entry point to the health system for innovators, featuring evidence generation in Ontario's world-class research community
- A program with no ministry process in place to accept its outcomes

What we did:

- Working with MaRS EXCITE and across the executive leadership team to create a streamlined pathway to implementation for EXCITE graduates
- Executing a demonstration project featuring EXCITE's first graduate: At-home sleep-apnea testing

Where we are going:

- Working on a general process for executing the EXCITE value proposition
- Spinning off EXCITE as a standalone consulting service for innovators

Value-Based Innovation Program (VBIP)

The Value-Based Innovation Program (VBIP) supports the Value-Based Innovation **framework** for leveraging Ontario's health system as a demand driver for innovative services and technologies that support health system priorities.



VBIP will enhance health outcomes and health service delivery by:

- Using **modern, value-based procurement** techniques that recognize and reflect the needs of patients, caregivers, and health service providers
- Partnering with health industry leaders and **calling openly for solutions** to complex health challenges
- **Breaking down the silos** of healthcare delivery across the patient journey through health system funding reform
- **Sharing the risks and benefits** of new technologies and processes with industry and health service providers, seeking new approaches to financing innovation.

The Value-Based Innovation Program (VBIP) is Empowering Demand Drivers through Value-Based Care

Where we started:

- Health service providers and industry struggling to innovate on a full patient continuum level in the current health system
- Barriers caused by procedure-based health services and outputs not outcomes
- A modern approach to funding and procurement taking hold in Ontario

What we did:

- Working with the executive leadership team to champion value-based care and global best practices in value-based procurement as a standard in Ontario
- Launched two proof-of-concept projects:
 - Province-wide procurement of Implantable Cardiac Defibrillators
 - Reducing post-surgical infections through an outcomes-based procurement

Where we are going:

- Call for applications to HSPs and LHINs for regional, full patient continuum projects in spring 2018
- Offer VBIP as a service, integrated into all of our programming

The Health Technologies Fund is Building a Marketplace of Ontario-Based Solutions that Provide Better Care Closer to Home

Where we started:

- Health service providers unsure how to engage industry on innovative projects, and unable to bear any risk to their budget
- Innovators unable to open the door to conversations with Ontario's health service providers, selling their products everywhere but here

What we did:

- \$20M fund to support collaboration and commercialization, allowing health service providers to test innovative ideas and allowing Ontario companies to generate the evidence they need for procurement and adoption
- Incredible value in collaboration: 230 applications = at least 230 conversations
- Successful projects are emerging, showing us what Ontario's health system is capable of when empowered to innovate

Where we are going:

- Round 3 call for application announced on March 16 will support digital Home and Community Care priorities

Round 1: Health Innovation Teams



With: Michael Garron Hospital,
Markham Stouffville Hospital,
University of Toronto, NextUp Care



With: Winterlight Labs,
Baycrest Centre for Geriatric
Care



With: Reliq Health



Respect, Learning, Independence
With: Step Up! ABI Recovery, Waterloo
Wellington LHIN, Health Quality Ontario,
Wilfrid Laurier University, Alauus



With: ForaHealthyMe Inc.,
University Health Network-Toronto
Rehabilitation Institute, Centre for
Family Medicine -Family Health
Team



**Population Health
Research Institute**
HEALTH THROUGH KNOWLEDGE

With: Philips Healthcare, QoC Health,
ThoughtWire Corp., CLOUD DX,
XAHIVE Inc.



With: Think Research, University of
Toronto



With: CLOUD DX, Women's College
Research Institute, Markham
Stouffville Hospital



With: Boehringer Ingelheim Canada
Ltd., Aetonix Systems Inc., Samsung
Canada, Winchester District
Memorial Hospital, Priority Business
Services Inc., Women's College
Hospital, Champlain LHIN



With: Pathcore Inc.



With: Verto Inc., North York Family
Health Team



With: Brantford Police Service,
HealthIM, Nipissing University,
Brantford General Hospital



With: GE Healthcare Canada, University
of Windsor-World Health Innovation
Network, The Ottawa Hospital



... a place where people care.
With: Hogan Pharmacy Partners
Ltd., PointClickCare, University of
Windsor-World Health Innovation
Network, McMaster University,
Northwest Pharmacy



With: Stella's Place, NexJ Health Inc.,
Centre for Addiction and Mental
Health, St Joseph's Healthcare,
University Health Network, Toronto
General Hospital, The Royal's Institute
of Mental Health Research, Children's
Hospital of Eastern Ontario Research
Institute Inc., St. Michael's Hospital,
St. Joseph's Healthcare Hamilton

Round 2: Health Innovation Teams



Saint Elizabeth
Well beyond health care
With: BrainFx, ThoughtWire Corp.,
Wilfrid Laurier University



**Kingston Health
Sciences Centre**
Centre des sciences de
la santé de Kingston
With: ArcheOptix, Queen's University



SickKids[®]
With: NexJ Health



**Hamilton
Health
Sciences**
With: m-Health Solutions



Holland Bloorview
Kids Rehabilitation Hospital

With: Komodo OpenLabs, John
McGivney Children's Centre,
McMaster University, University of
Toronto



**MARKHAM
STOUFFVILLE
HOSPITAL**
With: Bedside Clinical Systems



UHN Toronto General
Toronto Western
Princess Margaret
Toronto Rehab
With: ManagingLife



Saint Elizabeth
Well beyond health care
With: Eve Medical, Women's College
Hospital - Institute for Health System
Solutions and Virtual Care,
N'Mninoeyaa Aboriginal Health Access
Centre, Access Alliance, Roche
Diagnostics, Mount Sinai Services



LAWSON
HEALTH RESEARCH INSTITUTE

With: InputHealth Systems Inc., St.
Michael's Hospital Centre for
Excellence in Economic Analysis
Research, London Health Sciences
Centre, Rogers Communications, St.
Joseph's Health Care London



WCH
WOMEN'S COLLEGE HOSPITAL
Health care for women | REVOLUTIONIZED
With: Fig.P Software, Cardiac Care
Network of Ontario



SOUTHLAKE
REGIONAL HEALTH CENTRE
With: Bayshore HealthCare Ltd.,
MedChart Inc., Sunnybrook Health
Science Centre/Odette Cancer
Program, Princess Margaret Cancer
Centre, University Health Network,
Royal Victoria Regional Health Centre,
Windsor Regional Hospital, Cancer
Care Ontario



Ontario
Erie St. Clair Local Health
Integration Network
Réseau local d'intégration
des services de santé
d'Érié St. Clair
With: World Health Innovation
Network, Odette School of Business,
University of Windsor, Victorian Order
of Nurses (VON), ParaMed Home
Health Care, Homecare Intelligence
Inc.

HTF Impact

'I am here today because of this': A high-tech solution to one of Ontario's biggest health care challenges

ELIZABETH PAYNE
More from Elizabeth Payne

Published on: December 27, 2017 | Last Updated: December 27, 2017 6:24 PM EST



Rick O'Neil had just about given up on life when he was asked whether he would try some new technology to keep him in touch with medical professionals and others.

Source: *Ottawa Citizen*



WinterLight Labs
@winterlightlabs

Follow

Our collaboration with @Revera_Inc discussed on @CTVNews #MachineLearning #Alzheimers



Source: *CTV News*

Digital tablet helps Stouffville senior breathe easier, manage condition

Unveiled at Markham-Stouffville Hospital, technology will save on hospital trips, stays

NEWS 09:41 AM by Tim Kelly Markham Economist & Sun



Source: *YorkRegion.com*

Driving Value-Based Innovation Through Digital Health

Where we started:

- Public and private sector innovators struggling to navigate a fragmented digital health ecosystem
- Limited access to actionable data for patients, providers, and planners alike
- Opportunities to leverage Ontario's extensive digital health infrastructure

What we did:

- Collaborating across the sector to develop a Digital Health Action Plan that recognizes the role of innovation and technology in value-based care
- Investing in a Digital Health Centre of Excellence to generate high quality evidence on the value of digital health solutions
- Launching Project SPARK through UHN to expand access to provincial digital health assets

Where we are going:

- Supporting execution of the 10 point Digital Health Action Plan, with a focus on innovation and value-based care

Ontario's Digital Health Action Plan

Ontario's Digital Health Action Plan is modernizing Ontario's health system and making health care more convenient, high-quality and sustainable.

Consumer-facing initiatives



1. Expand patient access to their information
(a. Digital Yellow Card; b. Expansion of patient tools such as MyChart)



2. Make care available in more places
(a. Virtual care visits; b. Digital self-care)



3. Stimulate innovation in consumer health



4. Improve public engagement and transparency

Health-system facing initiatives



5. Share integrated patient records with authorized users



6. Improve care quality by sharing Ontarians' medication records



7. Make it easier for providers to communicate with one another (a. eReferral; b. eConsult; c. HRM; d. eNotifications)



8. Support information flow and decision-making through improvements to EMRs



9. Maximize the value of hospital information system investments



10. Build digital capacity in the home and community care sector

Critical enablers of success (examples)

- i. Evolve digital health governance
- ii. Create centres of excellence
- iii. Enhance investment management
- iv. Formalize Digital Health by Design
- v. Strengthen identity and access management

Empower Ontarians through digital health by building a dynamic market of tools and supports to navigate and personalize their path to health and wellness.



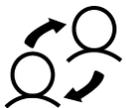
API Policy. A policy to guide digital health delivery partners to enable access to their digital health assets via APIs.



HIS Renewal. Published HIS requirements and the establishment of HIS Collaboratives and service delivery hubs to allow hospitals to obtain high-quality, vendor-managed, cloud-based HIS services and to move out of the IT business, so that hospitals' primary focus remains on the delivery of high-quality clinical care.



Encouraging Data Standardization and Interoperability. Need to be ambitious to work towards a data standard like FHIR so more innovation can occur and scale.



eReferral. Projects to be scaled across 8 Local Health Integration Networks in Ontario

Call To Action: Think Big, Act Local, Do It Now

**Call to action
against risk
aversion**

**Outcomes-
based drivers
as part of
value-based
care**

**Continuum of
care rather
than silos**

**Data and
data
analytics**

Openness

How Do We Measure Success?

Improving Patient Outcomes:

- Qualitative and quantitative measures of **improved patient experiences** and **outcomes** – following technology adoption and diffusion

Health System Change:

- Number of HSPs actively **testing, adopting and scaling health technologies and processes**
- Capture **short-term** and **long-term system performance improvements** resulting from adoption and diffusion of new innovation
- Increase in **funding, procurement, and care pathways** that are updated to **support and use innovation**

Scaling Health Innovation Companies:

- Innovators **guided and advised** through **adoption, validation, and piloting** of their products and ideas
- Number of **jobs** that have been **created**
- Growth of company **sales and exports**



Health as an Economic Driver



Impact of Our Work

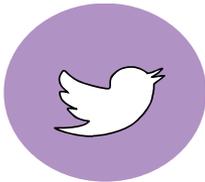


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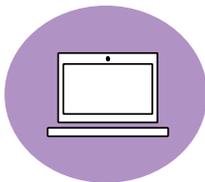
Thank You!



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Ontario.ca/healthinnovation