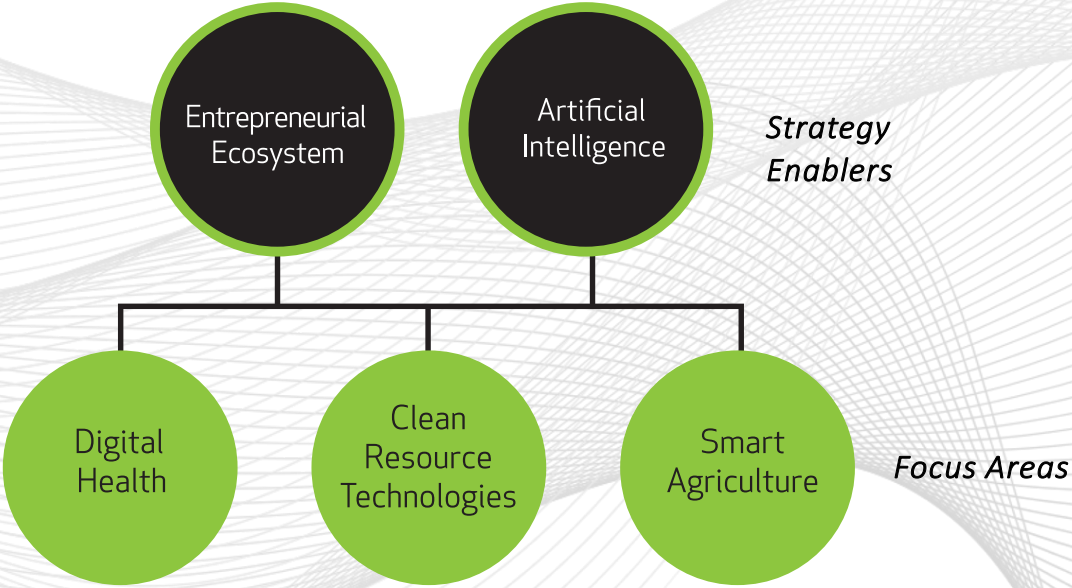# OUR **ROLE**

FUNDER & SERVICE PROVIDER
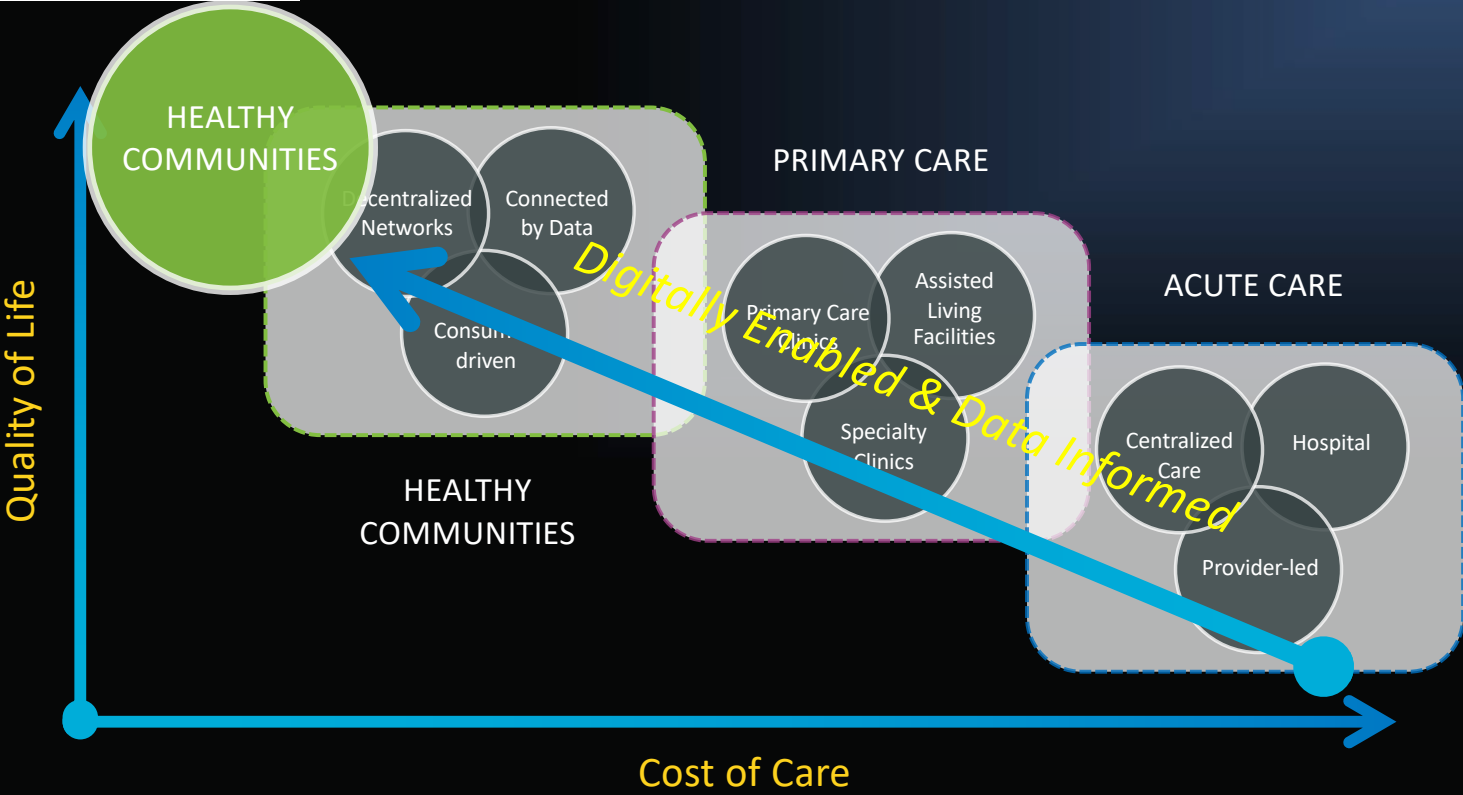
PARTNER & COLLABORATOR

CONVENOR & CONNECTOR

OUR INNOVATION PRIORITIES
Five bold bets with provincial upside

SHIFTING THE PARADIGM

OUR **CHALLENGE**

Health Care Costs

Percentage of Annual Provincial Budget

41%

OUR **MISSION**

*A digital and data-enabled health **economy** in Alberta that serves as a **competitive advantage for innovators** and **transforms care** for people living in Alberta.*

INVESTMENTS

AiCE – Concepts, Validate, Market Access
Digital Health Sandbox
Digital4Health
Ecosystem Development Partnership Program
Enabling Better Health through Artificial Intelligence
Postdoctoral Fellowships
Summer Research Studentships

SERVICES

A pRoject Ethics Community Consensus Initiative
Alberta Clinical Research Consortium
Alberta SPOR SUPPORT Unit
Ethics of Innovation Consortium

Patient Empowerment

"a process through which people gain greater control over decisions and actions affecting their health" and should be seen as both an individual and a community process." [1].

Four components fundamental to the process [2]:

1. understanding by the patient of his/her role;
2. acquisition by patients of sufficient knowledge to be able to engage with their healthcare provider;
3. patient skills; and
4. presence of a facilitating environment.

Patient-centered and patient engagement are not necessarily patient empowerment

ALBERTA **INNOVATES**

[1]Health promotion glossary. Geneva: World Health Organization; 1998
[2]Angelmar R, Bermann BP. Patient empowerment and efficient health outcomes. Financing sustainable healthcare in Europe. 2007 :139–162 http://www.sustainhealthcare.org/The_Cox_Report.pdf

WHAT IS DIGITAL HEALTH?

We define digital health as the tools and technology used to enhance health and wellness, care delivery and improve healthcare system performance.

ENHANCING HEALTH & WELLNESS

Tools that help people pursue and maintain health and wellness.

Primary users are individuals, patients, consumers.

Examples include:
Wellness, diet and fitness apps, wearables, patient communities.

ENHANCING CARE

Tools that facilitate safe and quality healthcare for patients and their care team.

Primary users are healthcare providers, care teams, patients and families.

Examples include:
Virtual care, health records, secure communication tools, e-prescribing, e-referral, appointment and scheduling, clinical decision support tools, remote monitoring, digital therapeutics, medical devices, diagnostic tools.

IMPROVING HEALTH SYSTEM PERFORMANCE

Tools that focus on system performance, efficiency, effectiveness, monitoring, and research.

Primary users are health system administration, managers and researchers.

Examples include:
Secondary use of data, digital clinical trials, system analytics.

'Citizens don't want to be "patient" recipients.'

Imagine Citizens Network

- Citizens want to have a voice to advance their digital health priorities and to shape the healthcare system of the future.

- If healthcare transformation is to reflect the outcomes that matter to all of us, diverse citizen voices must be heard.

- Citizens who are relatively disempowered (e.g. by lack of health or digital literacy, or by poor access to digital infrastructure) need help to advocate for their interests and assistance to overcome any digital health barriers.

- Equity is a significant feature of the digital health evolution.

https://imaginecitizens.ca/digital-health-what-is-it-and-why-it-matters/   7

![AbSPORU logo - Alberta SPOR SUPPORT Unit]

PaCER

Patient and Community Engagement Research

- collaboration of AbSPORU with the University of Calgary Continuing Education

- teaches citizens and their caregivers how to conduct research by, for and with patients in their communities

Primary goal is to incorporate research-informed patient voices into health research and health-system planning and policy

- each PaCER cohort collectively produces a final report, policy recommendations, publication(s), and more.

- 2021-2022 Priority areas addressed included chronic pain, life promotion for Indigenous youth, Long COVID, pediatric to adult care transition, and community connections in health research.

- 84 people have completed PaCER since 2018.

- stakeholders may invest $45,000 to sponsor a PaCER cohort to address a shared priority topic.

Protecting People & their Information

Ethics risk in Quality Improvement and Evaluation Projects

- Established ethics principles, validated tools & training

- Developed by/with committed community experts in QI/Eval

- Provincial, National and International standard

- Protection and respect of individuals and their information, leads to better projects and public trust

- Use of ARECCI incorporated into organization policies

https://albertainnovates.ca/strategic-initiatives/a-project-ethics-community-consensus-initiative-arecci/

ARECCI Ethics Principles

- Respect for human dignity

- Respect for free and informed consent

- Respect for vulnerable persons

- Respect for privacy and confidentiality

- Respect for justice and inclusiveness

- Balancing harms and benefits

Ethics of Innovation Consortium

In collaboration with the University of Alberta, the consortium aims to help innovators and companies mitigate ethical risks to build public trust, reduce costs, improve efficiency, enhance reputation, and meet stakeholder and societal goals.

It begins with building awareness, capacity, leadership, values, tools and resources.

# Enabling Better Health through Artificial Intelligence

Demonstration projects to help shorten the gap between the promise and the reality for AI to enable better health.

Understanding the data-associated bottlenecks can assist in identifying the knowledge, skills, capabilities, capacity, and supportive environment to best address the issues and needs.

Combination of technical barriers and human factors (e.g., policy, legislation, adoption).

Objectives

- Understand the innovation required to address data quality, access, and privacy issues facing the implementation of AI technology to enable better health.

- Elucidate the technical enablers and human factors (i.e. policy, reimbursement, accountability) enablers and barriers for the responsible deployment of AI towards enabling better health.

- Identify the ethical, regulatory, legal, and societal implications to be addressed for intelligently designing AI solutions that enable better health.

- Define ancillary factors and elements (e.g., stakeholder requirements) for development, adoption, implementation, and/or commercialization of AI technologies that will enable better health.
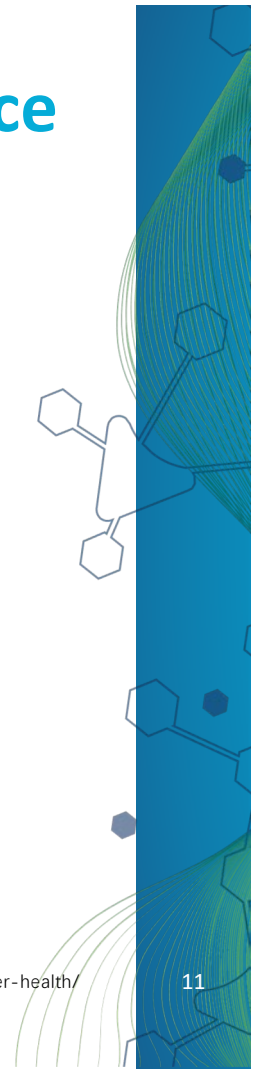
ALBERTA **INNOVATES**

ADHERE
GET CONNECTED

Alberta Digital Health Evaluation Resource Ecosystem

Public engagement platform

Launching at Inventures 2024

MAY 29 - MAY 31
CALGARY, CANADA

inventures2024.com

Use discount registration code:

INV24HEALTH

For a price of $499 [33% off]

[Expires May 8, 2024]

ALBERTA INNOVATES