

# PROJECT PORTFOLIO



## Precision Health Program

### Dermatology Point-of-Care Intelligent Network

Imagine being able to quickly diagnose deadly skin cancer by taking a photo. Early detection of skin cancer is critical to improving the chances of survival, yet there can be up to a six month wait time to see a dermatologist. By using AI-powered medical imaging that incorporates dermatology and pathology data and images, patients can get diagnosed in days, rather than months, anywhere in Canada.

#### Consortium



### Tailored Health – Pharmacogenetics

With a simple cheek swab and pharmacogenetic tools, physicians and pharmacists can tailor for each patient, the type and dose for any of the 900+ most commonly prescribed medications. Through this technology patients can get the right medicine, in the right dose, at the right time, thereby improving patient outcomes, reducing harmful drug interactions, and improving the cost effectiveness of our pharma system.

#### Consortium



### Secure Health and Genomics Platform

This proof-of-concept aims to address one of the biggest challenges and opportunities in healthcare—an effective system to collect, protect, secure, access, and use health data to improve the well-being of all Canadians. The pan-Canadian digital health platform being developed will be geared to democratize access to secure storage, analysis, and sharing of health data.

#### Consortium



## **Reducing Opioid Use for Pain Management**

This active monitoring system will enable physicians to improve pain management, and proactively manage opioid prescriptions and their use in surgery patients. This technology will allow for personalized evaluation of a patient's use of opioids, response to pain, nausea, mobility, and coinciding sleep habits – all critical elements in optimizing treatment and minimizing the risk of opioid addiction.

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## **Personal Health Wallet**

By applying blockchain technology to personal health data, individuals will have full custody of their health data in a secure environment. This allows patients to determine with whom they will share their health data, while also providing informed consent for that sharing.

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## **Intelligent Network for Point-of-Care Ultrasound**

Ultrasound imaging is used to provide an early diagnosis of many medical conditions, including urgent heart and pregnancy conditions. This project will combine portable ultrasound devices, imaging technology, and machine learning to enable family physicians to make accurate diagnoses, regardless of where patients live.

### **Consortium**

