# Collaborative innovation in health data science

**Kevin Ross, CEO**

# To be a world class, data-driven health system, Aotearoa needs

# COVID-19 Risk Score for Call Prioritisation

- Identify those most at risk of hospitalisation

- From reliable, national data

- Available at the time of a positive COVID-19 test

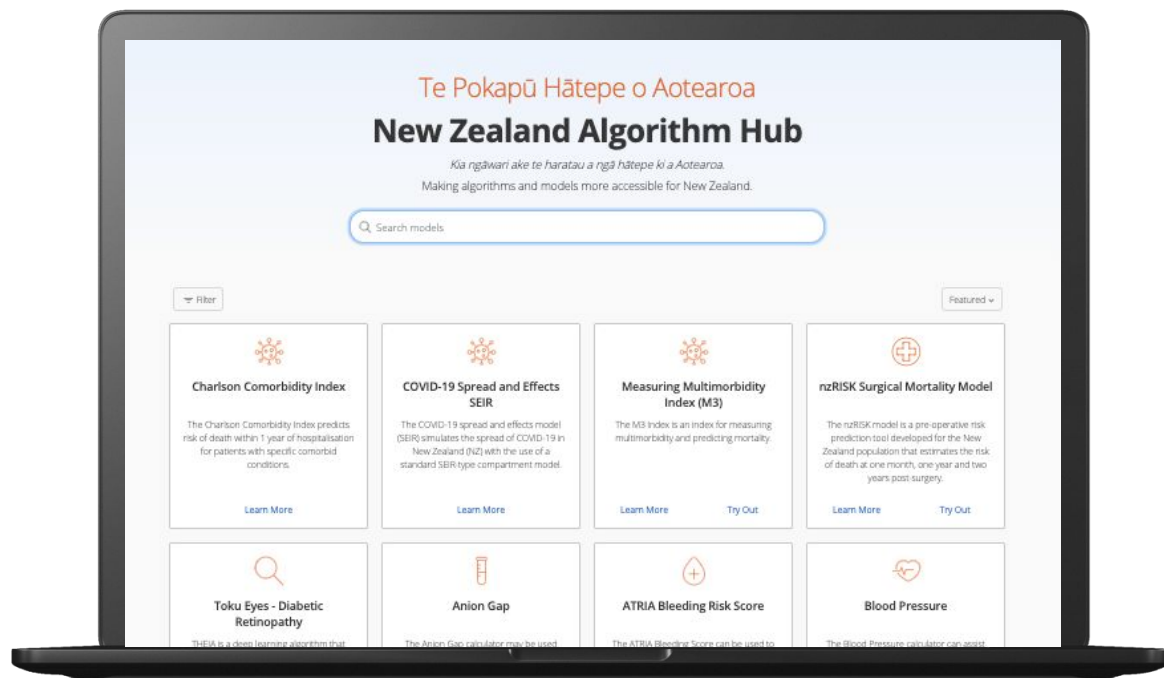- In order to reach the most vulnerable first

# Whānau like us

In the Whānau **Ora model of care, priority outcomes are selected by** whānau **based on their own perception of need.**

- Identifying the services that are most likely to be effective based on what we know about each circumstance
- Enrich the picture with the experience of community
- Build on wider PDH capability to understand "people like this"

# New Zealand Algorithm Hub

- Knowledgebase of validated content

- Three deployment channels

- Model lifecycle management

- Governance framework

- Stable, automated and scalable system

# AI for skin cancer diagnosis

**Molemap / Kahu.ai have are launching a new service**

- Triaging at GP practice
- Developing new camera prototype
- Equitable access to dermatologist capability

# Smart Coding

Father died of **MI** at age 69.

Patient had some symptoms concerning for a **heart attack.**

Thus the patient ruled out for **myocardial infarction.**

He continued to recover from his **cardiac infarction.**

Identified concept:
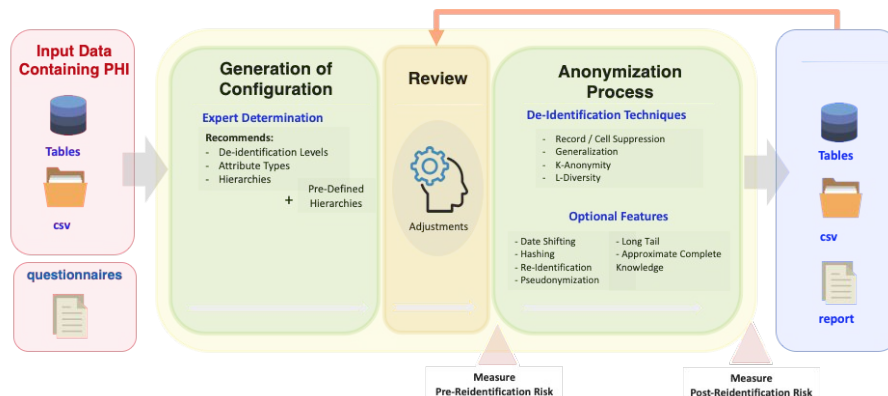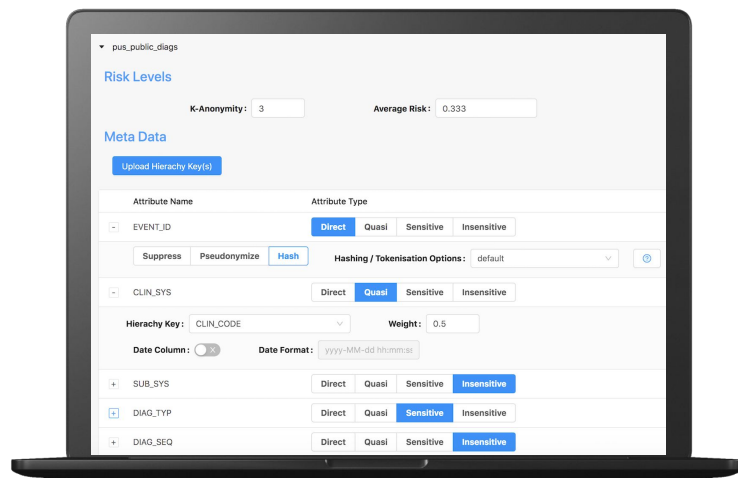**Myocardial infarction
22298006**

# Telehealth for all kiwis

- Starting with the more challenging
- Co-design protocols
- Build into technology gaps
- Provide education

# De-identifier

Enables health data sharing via a consistent, compliant and traceable end to end process for research, development and testing, and analytics.

# Comparable international organisations



ANDHealth
Australia's National Digital Health Initiative

OULU HEALTH

DigitalHealth. London

HDRuk
Health Data Research UK

**OPTION 1**

A health data innovation accelerator focused on industry opportunities

**OPTION 2**

The continued evolution of PDH's current model, with it becoming the health data innovation hub of a national health innovation ecosystem

**OPTION 3**

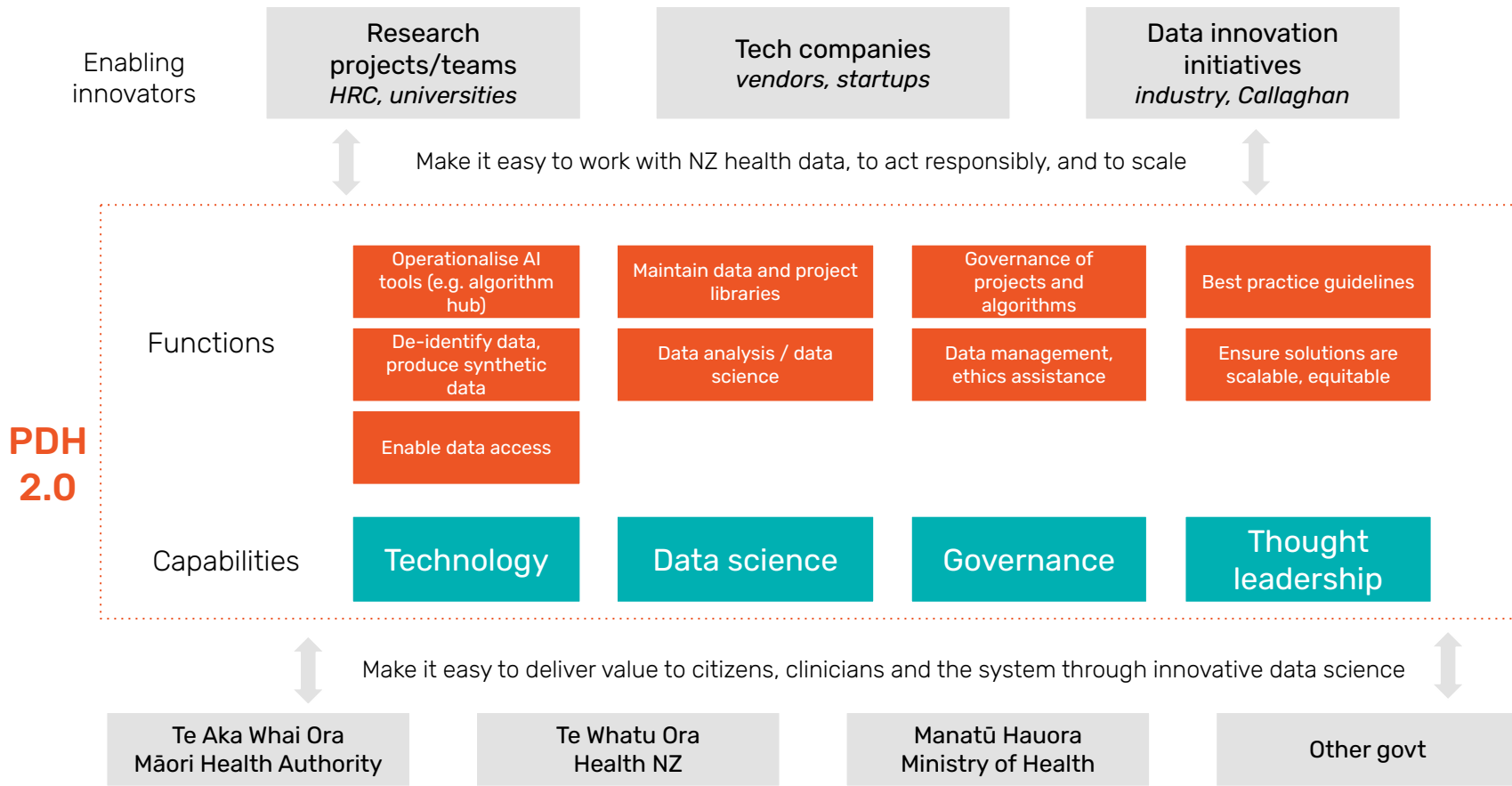A health data innovation accelerator focused on the health system

**OPTION 4**

A public health data innovation entity

Closer to the private sector

Closer to the public sector

# PDH: Unlocking the value in NZ's health data

# Never a better time to work in health data science

PRECISION
DRIVEN HEALTH