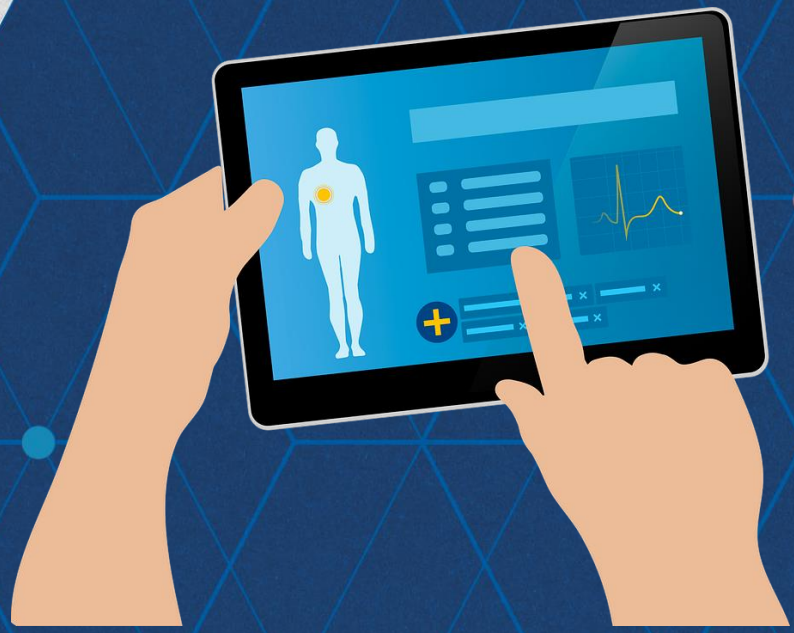


Centre for Digital Transformation of Health
University of Melbourne

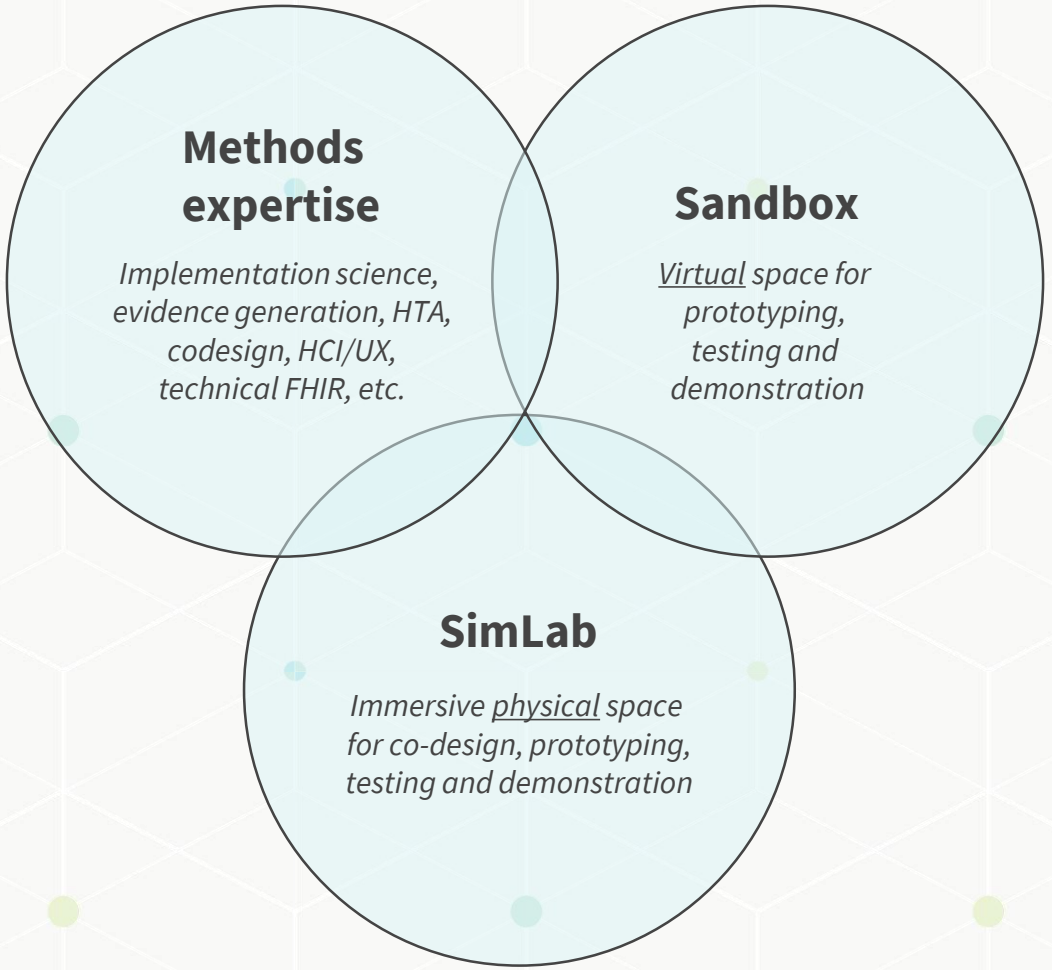
Optimising RPMs in Australia

Dr Olivia Metcalf

Daniel Capurro

Validitron: A research platform for supporting the development of digital health products, focussing on implementability, workflow integration and evidence generation.

Digital health IDEA or PRODUCT

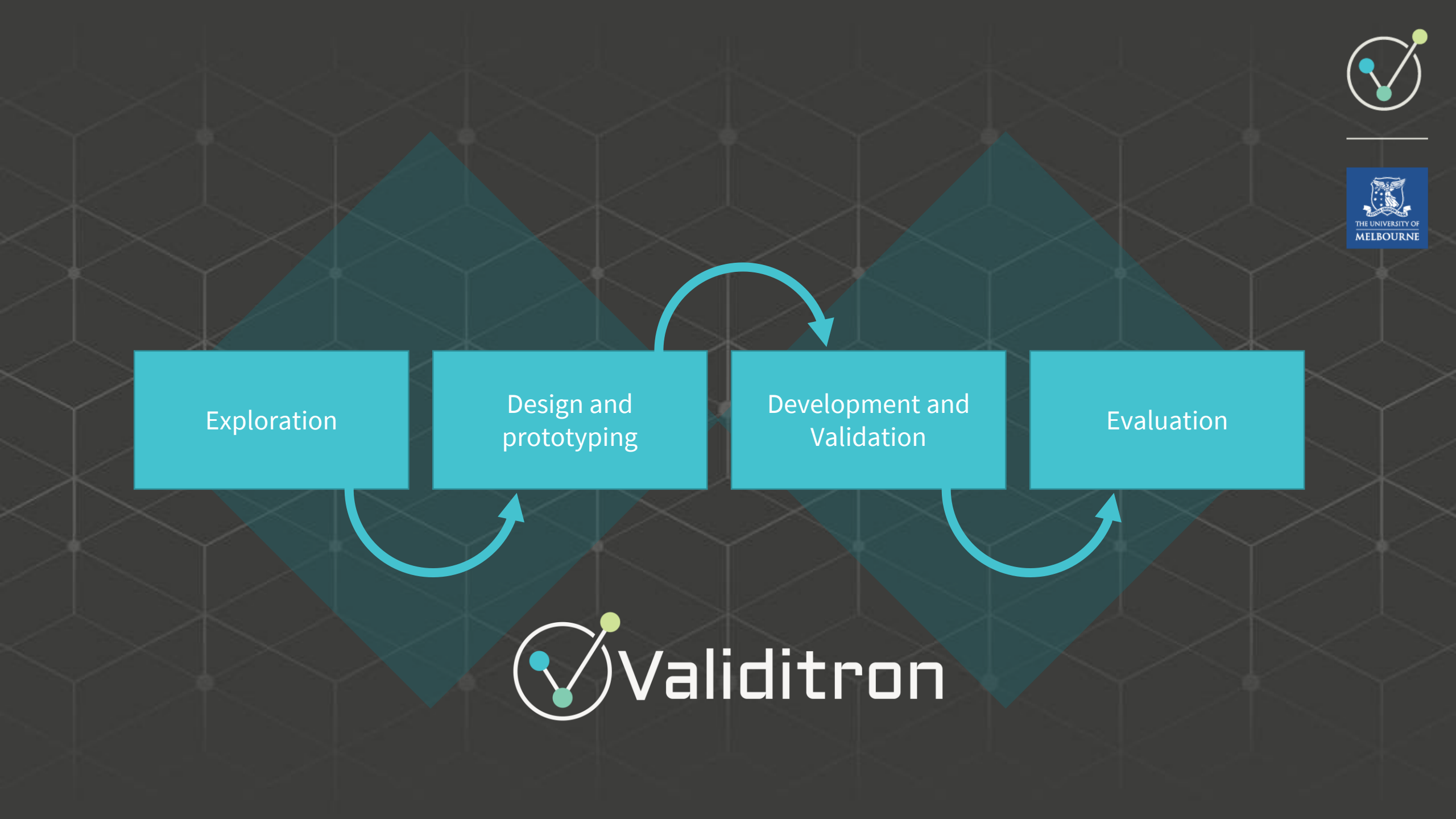


Evidence-backed frameworks,
Streamlined processes

Co-design

Validate components

Generate evidence


Exploration
Design and prototyping
Development and Validation
Evaluation
Validitron

Who are the users? Who are the stakeholders?

How and where can clinical information generated by this innovation best be used?

How can the usability, acceptability and safety of this innovation be optimised (for realistic clinical scenarios)?

What training, implementation and/or change processes are required?

What is the state of evidence for this innovation area?

What would a model of care built around this innovation look like?

Exploration → Design and prototyping → Development and Validation → Evaluation

What is a feasible payment model for this innovation?

What is needed to promote engagement and sustained, meaningful use?

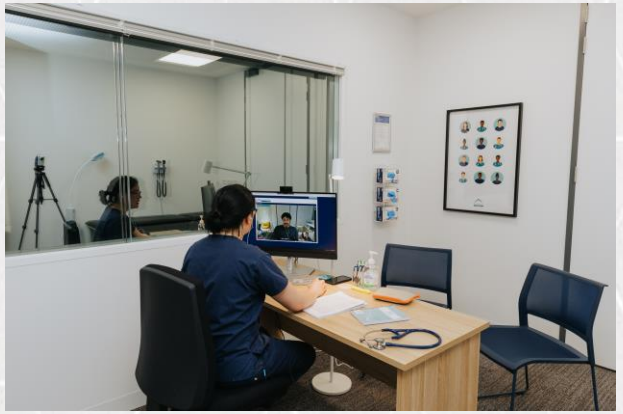
What outcomes evidence is needed by payers and for compliance?

What regulatory frameworks will it need to operate within?

How can automated digital/behavioural data collection enable outcomes/experience measurement?

Validitron

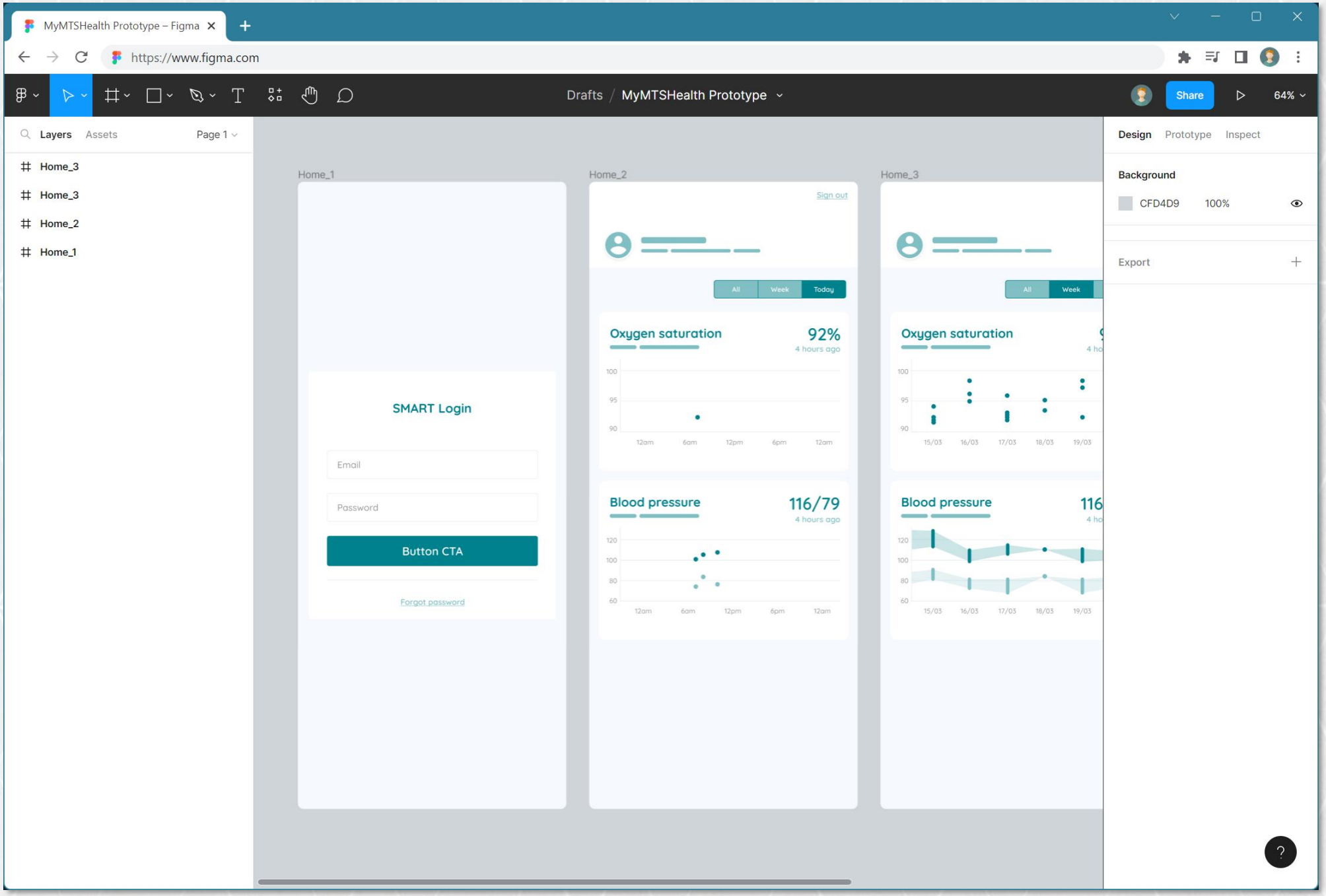
THE UNIVERSITY OF MELBOURNE



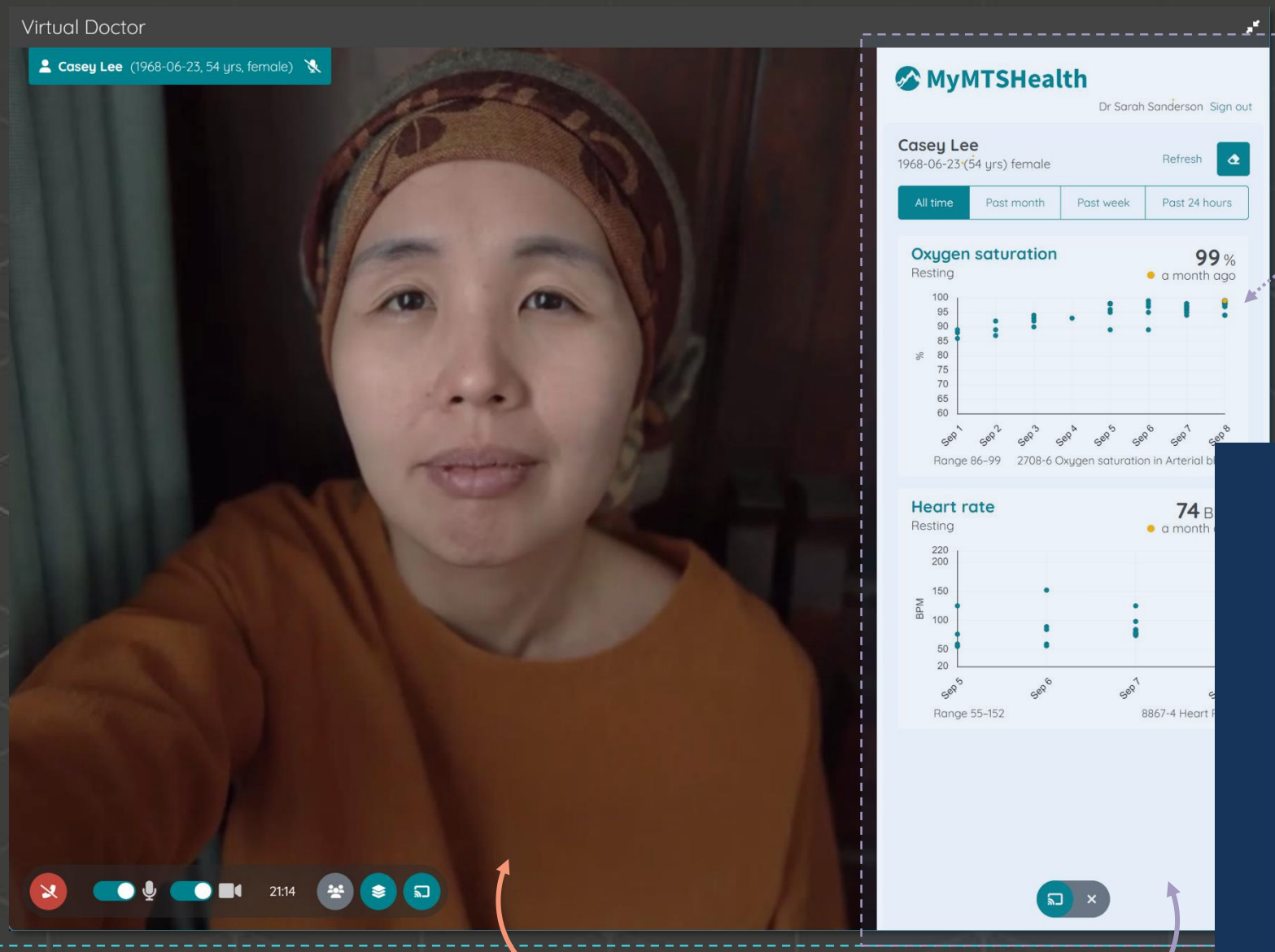
Validitron | SANDBOX

Virtual environment that flexibly combines both **real** and **simulated** infrastructure and clinical information systems like LEGO® bricks.

How can we rapidly develop, test, and optimise RPM programs?


MyMTSHealth Prototype – Figma
https://www.figma.com
Drafts / MyMTSHealth Prototype
Share
64%
Layers
Assets
Page 1
Home_3
Home_3
Home_2
Home_1
Home_1
SMART Login
Email
Password
Button CTA
Forgot password
Home_2
Sign out
All
Week
Today
Oxygen saturation
92%
4 hours ago
Blood pressure
116/79
4 hours ago
Home_3
Design
Prototype
Inspect
Background
CFD4D9
100%
Export

Validitron Sandbox
SMART-enabled telehealth client



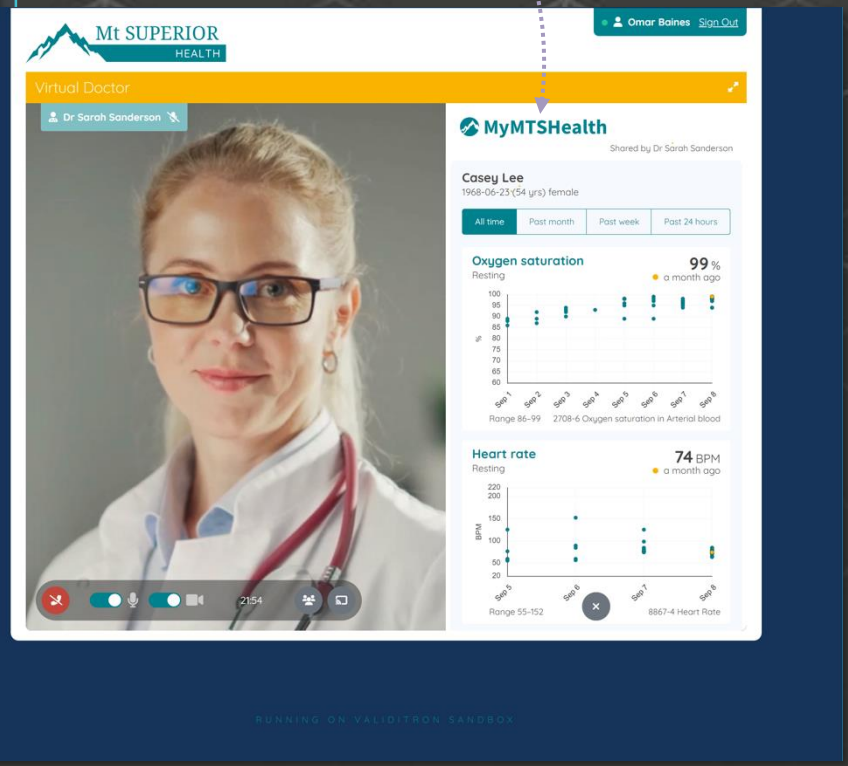
Clinician view

SMART-enabled telehealth client

SMART-on-FHIR remote monitoring app add-in

SMARTSync – seamlessly share add-in views between call participants

Patient view



How can we support remote and regional health services with innovation in RPM?


WESTERN VICTORIA
PHN206
Patchewollock
Swan Hill
Deniliquin
Hopetoun
Kerang
Birchip
Wycheproof
Boort
Echuca
Warracknabeal
Bordertown
Kaniva
Nhill
Donald
Kyabram
Dimboola
St Arnaud
Horsham
Bendigo
Heathcote
Naracoorte
Edenhope
Stawell
Maryborough
Castlemaine
Kyneton
Kilmore
Ararat
Daylesford
Beaufort
Gisborne
Ballarat
Millicent
Casterton
Ballan
Bacchus Marsh
Hamilton
Melbourne
Mount Gambier
Dartmoor
Werribee
Lara
Bannockburn
Portarlington
Heywood
Mortlake
Geelong
Camperdown
Winchelsea
Queenscliff
Portland
Warrnambool
Colac
Anglesea
Torquay
Lorne
Port Campbell
Apollo Bay
0
25
50
75
100
Kilometres
State/Territory Border
Road
River
Lake/Reservoir
Built-up Area
National Park
PHN

DELIVER

DELIVER is a five year, $9 million research project funded through the Australian Commonwealth Government Medical Research Future Fund, led by Western Alliance Academic Health Science Centre and the Deakin University Institute for Health Transformation

DELIVER brings together, for the first time, healthcare consumers, regional and rural health services, peak bodies, universities and primary healthcare providers across western Victoria to achieve better healthcare closer to home

Validitron is being leveraged by:

- Rapid evidence assessments to inform healthcare partners
- Co-designing RPM programs to meet their unique needs
- Improving data flow collected in current RPMs
- Evaluating current programs
- Implementing learnings across the health care system
- Reviewing and advising on models of care that are required
- Advocating for reimbursement models

Challenges

1. From an ethical and legal perspective, we have gaps around data collected in an individual's home environment
2. Reimbursement models for these methods of healthcare in Australia leads to ceilings in implementation and scaling
3. There is no community of practice around virtual care innovation across Australia