



## Who is this nerd & what is he on about?

Very fair call out





Outcome goal: Pae ora  
Strategy: Hōkai Rangi

- Te Tiriti o Waitangi
- Hōkai Rangi
- Te Matatiki o te Oranga
- Pae Ora
- Equity for Māori
- Te ao Māori & Te ao Pakeha (goals for health)

Many different audiences, purposes,  
needs

<p><b>Whānau</b> Where they are willing, whānau will be supported to walk alongside Māori in our management as their rehabilitation and reintegration journey.</p>	<p><b>Foundations for Participation</b> We will create an environment that improves the ability of people in our management to successfully transition back into society upon release.</p>	<p><b>Whākapapa</b> Those in our management will be supported to strengthen and maintain their cultural identity, their connection to people and place, and sense of belonging.</p>	<p><b>Partnership And Leadership</b> Ara Poutama Aotearoa will lead through best practice Crown-Māori relations and have authentic shared decision-making at key levels.</p>	<p><b>Humanising and Healing</b> Those in our management will be treated with respect and in a way that upholds their mana and dignity. People will be supported and equipped with the self-respect and resilience to live healthy and sustainable lives outside of the justice system.</p>	<p><b>Incorporating a Te Ao Māori worldview</b> Kaupapa Māori-based approaches will be the foundation of our practice, processes, and pathways.</p>
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Patient voice.

Partnering via patient engagement, lived experience, Runanga groups, patient surveys



Whānau voice.

Partnering via whānau engagement, patient engagement, lived experience, whānau surveys



Frontline voice.

Partnering with whānau ora providers, (full spectrum) provider engagement, staff surveys



Population voice.

Partnering via health needs



Data voice.

Partnering via machine learning, analysing clinical pathways, equity analysis



### Business intelligence & health data science.

Levering of your existing self service BI platforms, saying 'no' so we can say 'yes' to appropriate mahi

### Quantitative & qualitative methods.

There is room on the data methods table for both and these have been complementary since the dawn of scientific research

### Demystifying health data science.

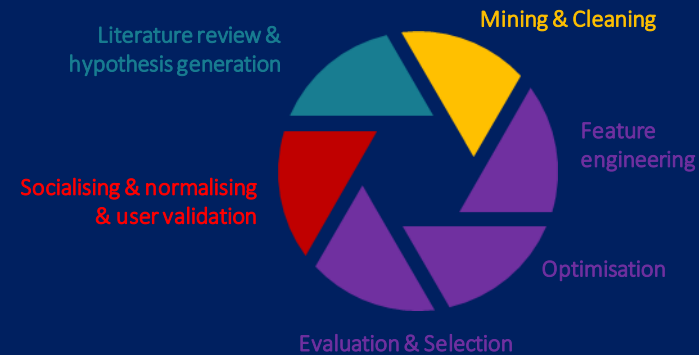
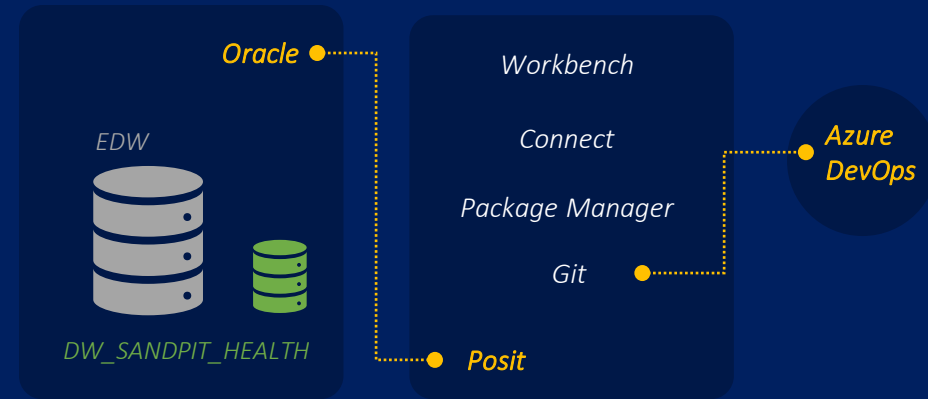
Data science with human validation mechanisms & appreciating the scale and spectrum of techniques available

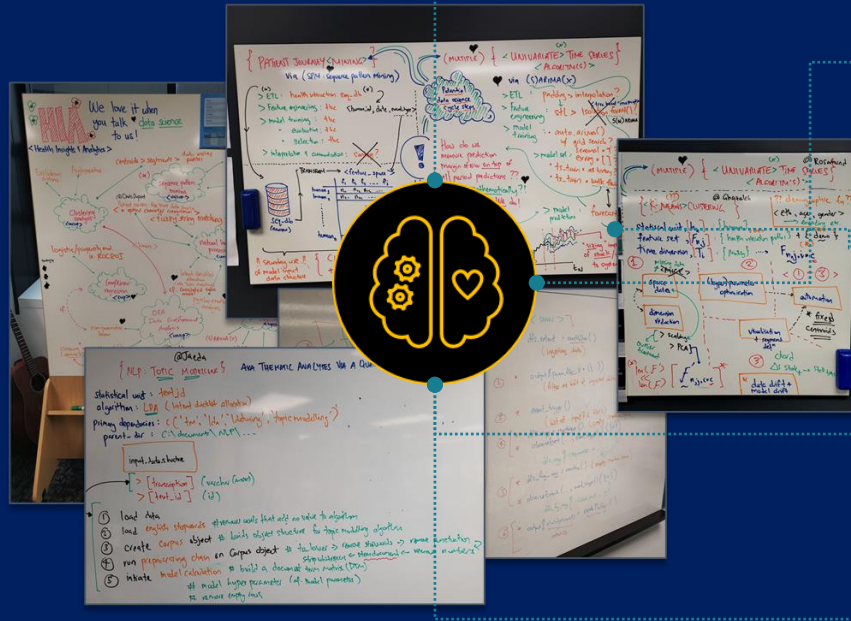
### Data literacy & data science literacy.

Where we focus our efforts & pushing minimum viable products i.e. end-to-end pipelines of the data science life cycle

### Putting the human in human centred data science.

Takes intentional practice & has to come from top and bottom - its hard and we don't get it right every day





## Clustering

(baseline) centroids | dimension reduction | model drift

## Sequence mining

cSPADE | PrefixSpan | enumeration | anomaly management

## Topic modelling

LDA | gsdmm | sentiment scoring | psycho-emotive analysis

## Time series modelling

(multiple) SARIMAX | VARS | sliding window vs full window

## Propensity modelling

health only feature space | logistic | regularized



Finding those space spaces & expanding our circle of trust.

Our reality right now. Hit us up!

Thanking you all for your time and letting us share our story so far with you.

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 Ara Poutama Aotearoa will lead through best-practice Crown-Māori relations and have authentic shared decision-making at key levels

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