MIRUS
AUSTRALIA

# How AI is revolutionising clinical processes in aged care and home care

Webinar | 23 May 2024

# Acknowledgement of Country

We acknowledge the Traditional Custodians of country throughout Australia and their connections to land, sea and community.

We pay our respects to their Elders past and present and extend that respect to all Aboriginal and Torres Strait Islander peoples today.

This event qualifies for 1 CPD point. Add it to your log.
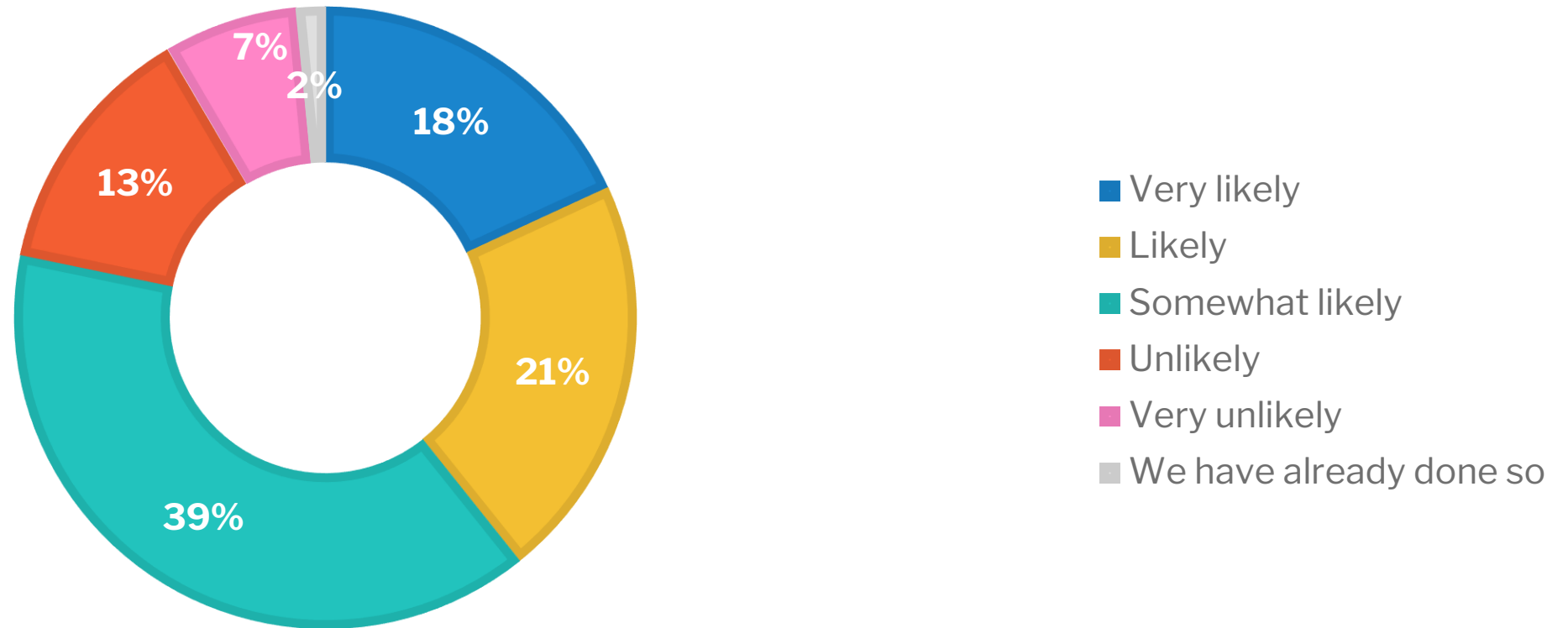
**Please ask questions in the chat**

# Agenda

1. Welcome

2. Poll findings

3. Let's hear from the panel

4. What we have learned about AI for Aged Care and Home Care

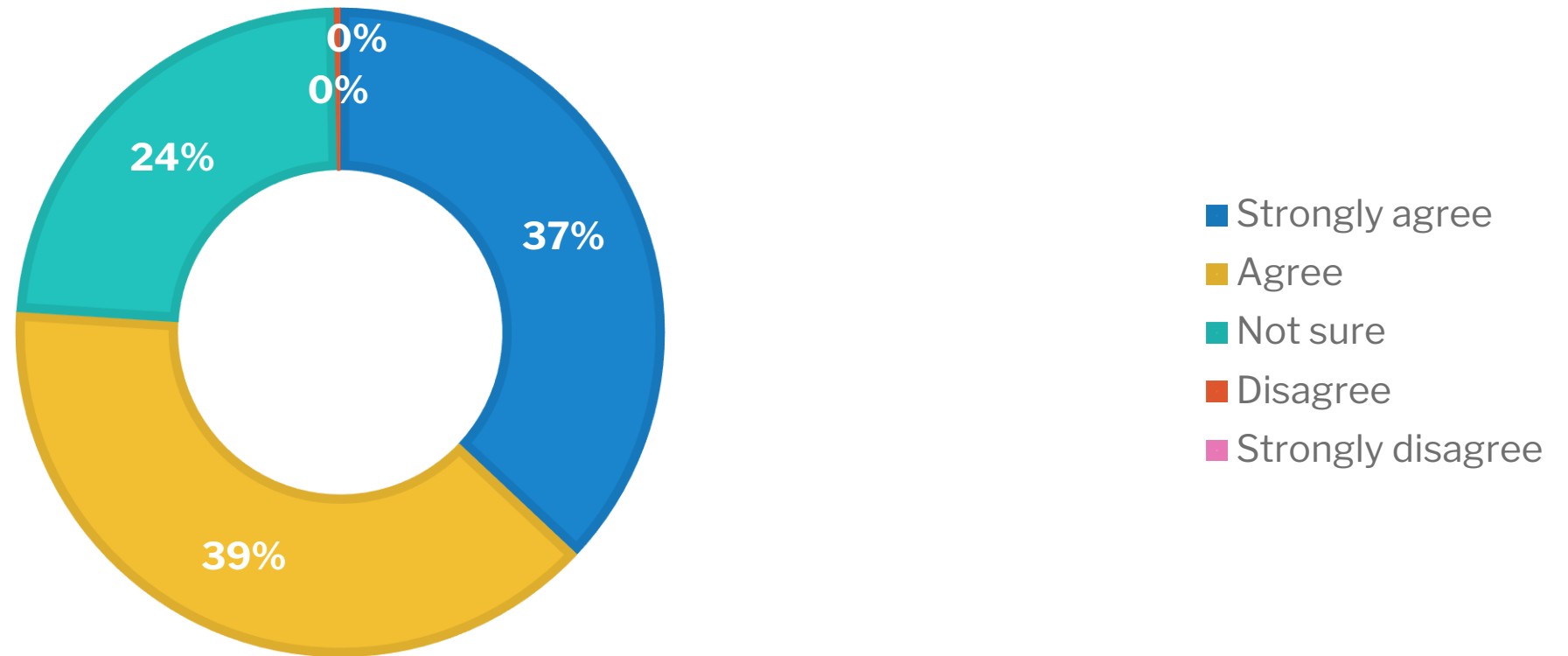5. More from the panel

6. Q&A

7. Close

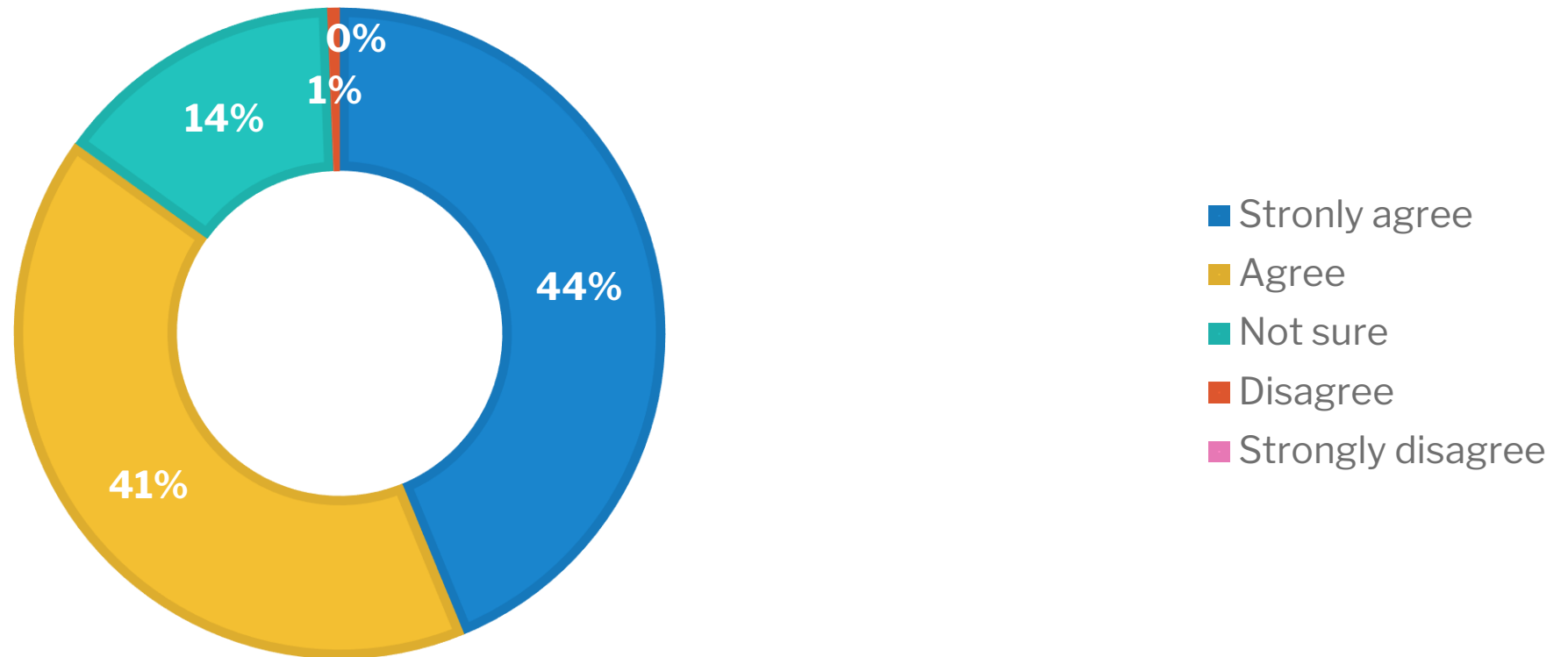# What is the likelihood that you will look at implementing an AI project in the next 12 months?



Legend:
- Very likely — 18%
- Likely — 21%
- Somewhat likely — 39%
- Unlikely — 13%
- Very unlikely — 7%
- We have already done so — 2%

Represents 364 responses

# AI presents a significant opportunity to increase efficiency of processes in aged care



- Strongly agree
- Agree
- Not sure
- Disagree
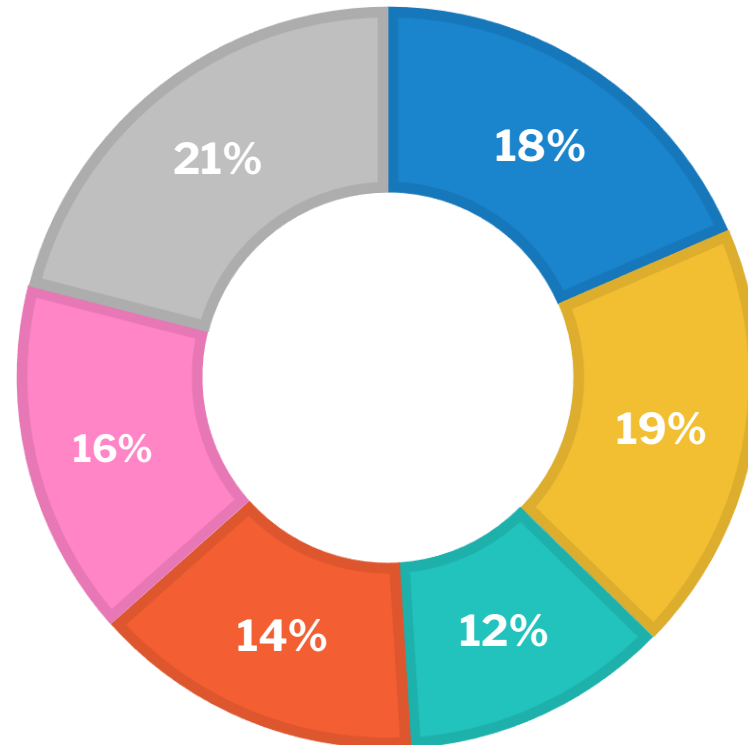- Strongly disagree

37%

39%

24%

0%

0%

Represents 364 responses

# AI presents a significant opportunity to increase insight from data analysis (e.g. Clinical data) in aged care or home care



- Stronly agree
- Agree
- Not sure
- Disagree
- Strongly disagree

0%
1%
14%
44%
41%

Represents 364 responses

# What are the outcomes that you would like data and AI to enable for your organisation?



- 18% Predicting changes in resident care needs
- 19% Predicting workforce demand and skills mix requirements
- 12% Simulating outcomes to manage occupancy fluctuations
- 14% Identifying revenue opportunities for additional services
- 16% Curating monthly care statements from multiple data sources
- 21% Enhancing consistency and quality of clinical documentation

Represents 364 responses

# Meet the panel

**Sue Thomson**

Chief Executive Officer

McLean Care

**Phil Martin**

Executive Director, Aged Care Services

MercyCare

**Justin Dover**

Chief Executive Officer

Alino Living

# Mirus AI



## Why start an AI Base Research Program Now?

The power of AI, seamlessly integrated with your care management data, can deliver:

- **Efficiency in non-direct care activities:** AI streamlines administrative tasks, freeing up time for staff to focus on resident care.

- **Enhanced decision-making:** AI analyses large datasets for better decision-making, improving care outcomes.

- **Preparation of care activity statements:** AI aids in generating accurate monthly care activity statements, increasing transparency and accountability.

- **Real-time standards assessment:** AI monitors and assesses compliance with care standards in real-time, promoting continuous quality improvement.

- **Automation of clinical tasks:** AI automates routine clinical tasks, like data entry & system information transfer, currently done manually and time-consuming.

# The starting point

**Today's AN-ACC Operations
"The Hunting & Synthesis Process"**



The Australian aged care sector faces resource constraints, requiring significant allocation of clinical resources for managing funding.

These professionals must read and synthesise vast amounts of clinical information and have specialised knowledge of AN-ACC models to identify funding opportunities.

The overall workflow follows these steps, though the time and effort for each stage can vary.

1. Search , consume & synthesise clinical information
2. Gather evidence & insights to validate AN-ACC class
3. Determine AN-ACC class forecast
4. Support forecast with clinical assessment references
5. Request AMO Reclassification (Human in the loop control)

The source of the evidence which enables this workflow is mostly generated text and clinical assessments & evaluations.

# The Mirus AI sequence



**Data Ingestion & Storage:**

Ingest daily interactions from your care management system into our secure data cubes, providing the vast amounts of clinical datasets.*

**Unstructured to Structured Data Transformation:**

Transform your clinical data into a standardised data standard. However, another outcome from this sequence is a standardised clinical dataset. (Data can also be transformed to FHIR format for CMS Interoperability)
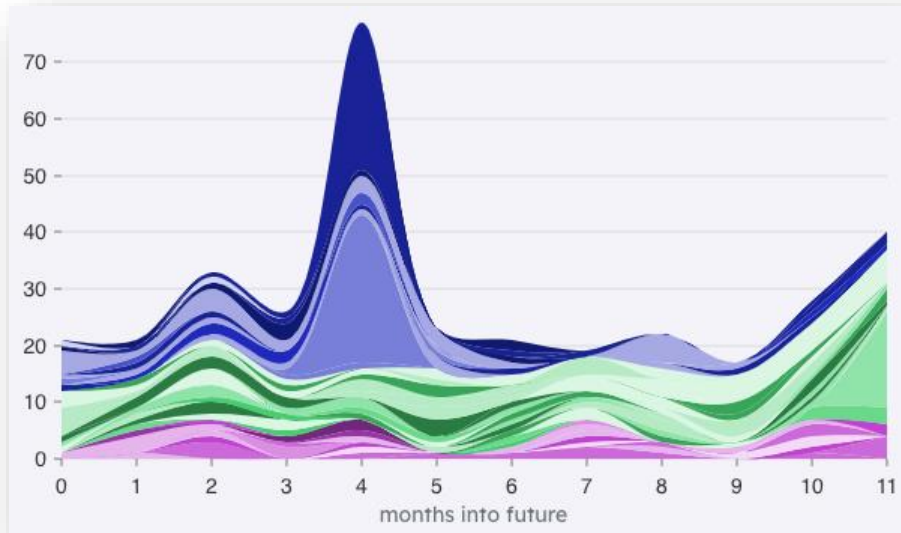
**Generative AI Processing (Research questions):**

We utilise AI models to process the vast clinical datasets, which are continually refined by our dedicated teams and the sector.

AI informs the Department's AN-ACC algorithm, generating evidence-based class forecasts for residents and maintaining an active clinical evidence index known as Careverse™.

# Mirus AI use cases



The predictive spike, determined from the Large Medical Model (LMM) based on the clinical markings of a cohort of residents, indicates an increased need for mobility support three to five months from today.

As we compile data patterns, we apply them to our generative medical AI models. These models, trained on medical pathways and referred to as Large Medical Models (LMMs), provide valuable insights and predictions based on the accumulated data within your resident cohorts.
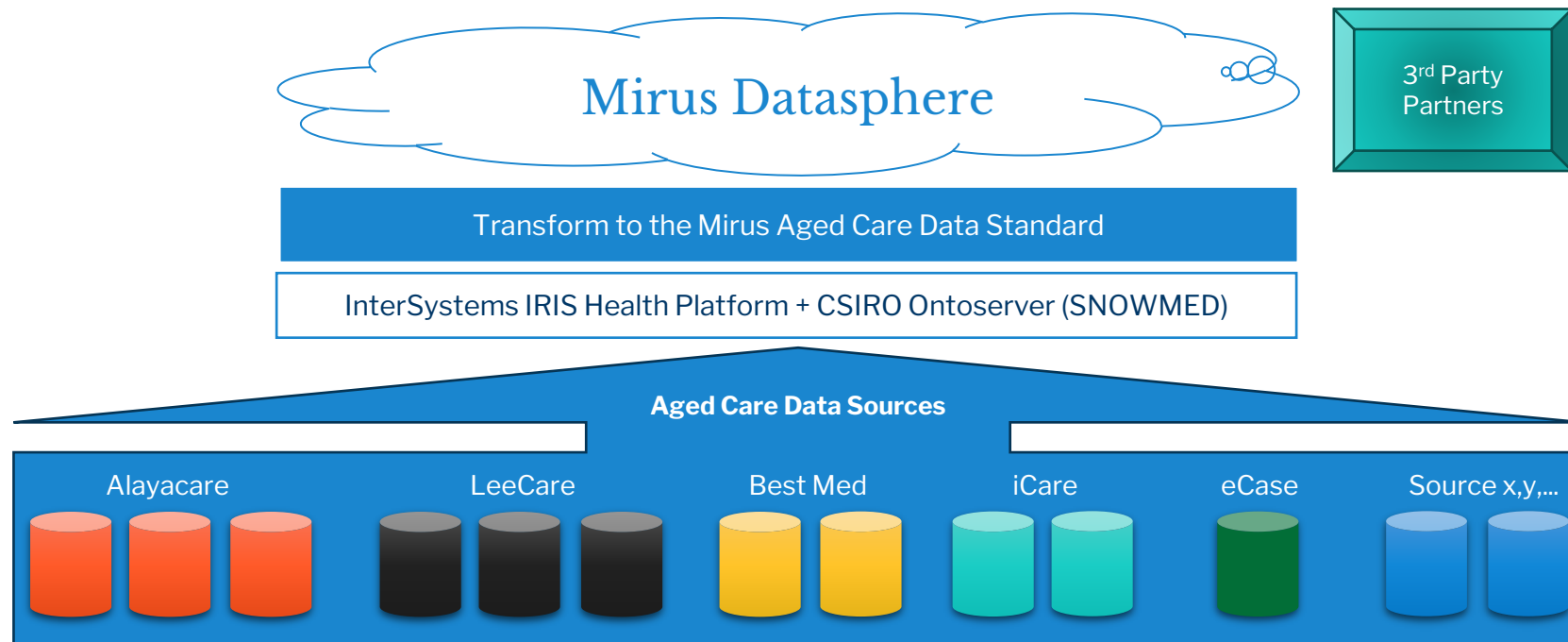
Mirus AI is empowered to bolster your organisation by simulating resident futures, providing invaluable support for:

- **Predictive workforce demand** and skill mix requirements, leveraging morbidity outcomes (Works.AI);
- **Simulating resident futures** to manage occupancy fluctuations;
- **Augmenting quality audits & tasks** for providers through continuous measurement of CI strategies, key risk audits, care statements generation;
- Explore 'Fee for Service' approaches based on future **deterioration simulations &** supporting families through their loved one's decline – e.g. Parkinson's Warrior program;

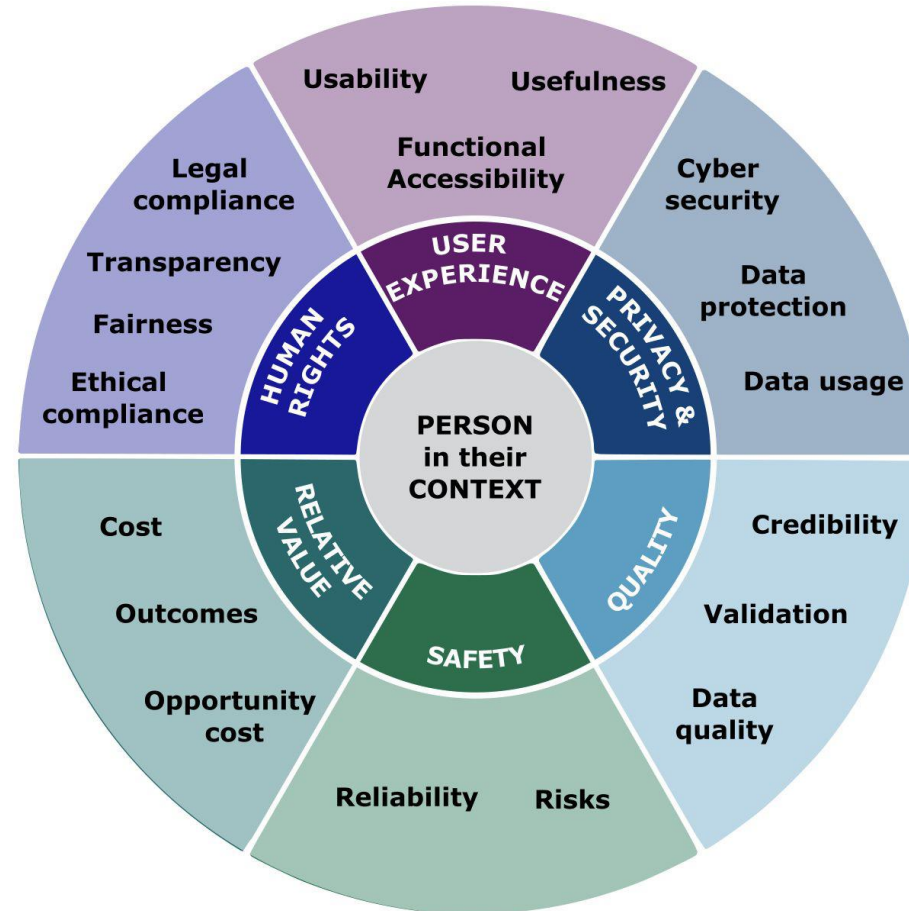...and many more use cases on the data.

# Mirus Datasphere

Transforming clinical data into a national standard model requires investment, and support from wider healthcare partners, CSIRO and InterSystems.

Mirus Datasphere

3rd Party Partners

Transform to the Mirus Aged Care Data Standard

InterSystems IRIS Health Platform + CSIRO Ontoserver (SNOWMED)

**Aged Care Data Sources**

Alayacare          LeeCare          Best Med          iCare          eCase          Source x,y,...

# Mirus AI guided by CSIROs ethical AI framework

- Outcomes focus

- Data sovereignty

- Risk mitigation

# More from the panel



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Chief Executive Officer at McLean Care



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**Justin Dover**

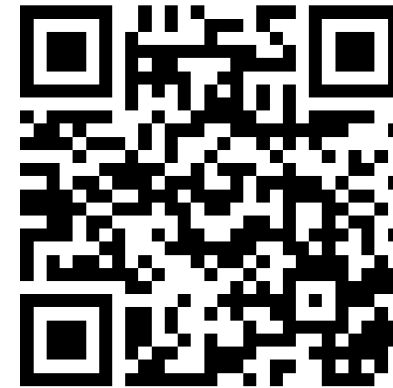Chief Executive Officer at Alino Living

**Questions from  the chat**

# Ready to get started on your AI journey?



## Mirus AI

Elevate efficiency, gain better insights and accelerate with AI



https://www.mirusaustralia.com/mirus-ai

# Our next webinar



## Strategies for profitability in Aged Care

Up to 80% of your funding comes from AN-ACC, but your profit needs to come from elsewhere.

**Monday, 17 June 2024**

**12pm – 1pm AEST**

https://www.mirusaustralia.com/strategies-for-profitability-in-aged-care/

Check your inbox for details or scan QR code to register now:

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