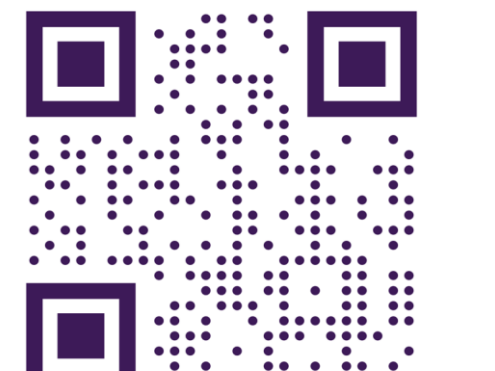


Enhancing health services through digital innovation

The Northern Australian Regional Digital Health Collaborative

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Check out our website

Who we are

NARDHC is a growing partnership between six leading organisations from the health, science, technology, and academic sectors in Northern Australia.

Our mission is to use digital technology to strengthen health systems by:

- 1 Enhancing access to high-quality health services for underserved populations.
- 2 Increasing interoperability for better continuity of care and safety.
- 3 Leveraging technology to better prevent and respond to non-communicable and communicable diseases of high burden.
- 4 Supporting the health workforce.

Where we work



Northern Australia is defined as all the Northern Territory and those parts of Queensland and Western Australia that intersect with the Tropic of Capricorn, including the Indian Ocean Territories of Christmas Island and Cocos (Keeling) Islands [1].

Population 1.4 million 5.2%	Land mass 4.1 million km ² 53%
25.3 million 94.8%	3.6 million km ² 47%
First Nations 230,000 people 17.4%	Public Hospitals 91 (12.2%)
3.1%	655 (87.8%)

[1] Australian Government, Department of Infrastructure, Transport, Regional Development, Communications and the Arts, Office of Northern Australia, <https://www.infrastructure.gov.au/territories-regions-cities/regional-australia/office-northern-australia> (accessed 20 November 2024).

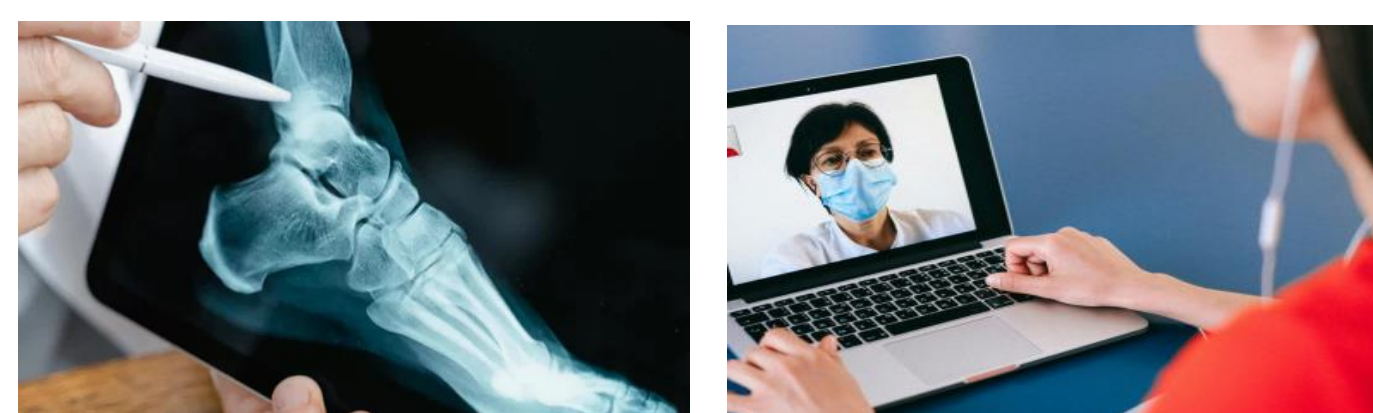
How we address healthcare needs in rural, regional and remote Northern Australia

NARDHC supports the development of digital health tools and initiatives that have the potential to strengthen health systems that deliver services in rural and remote Australia.



 Osteoarthritis triaging tool: Cutting wait times and enhancing patient outcomes

Challenge: Osteoarthritis, is a growing health concern in rural and remote areas, where an aging population, rising obesity, and limited access to timely treatment highlight the need for innovative solutions to improve care and management.



 Mapping statewide EMR observation records to OMOP CDM to increase interoperability

Challenge: Many rural and remote healthcare organisations transitioning to the OMOP CDM, face challenges in setting up development and test environments. They need guidance on generating synthetic EMR data and mapping systems like Cerner to the OMOP CDM.

 A mobile app and dashboard for effective management of early-stage chronic kidney disease

Challenge: CKD is a growing health concern, especially in rural and regional areas where access to specialised care is limited. Delayed management due to a lack of tailored resources leads to poor outcomes and higher healthcare costs.

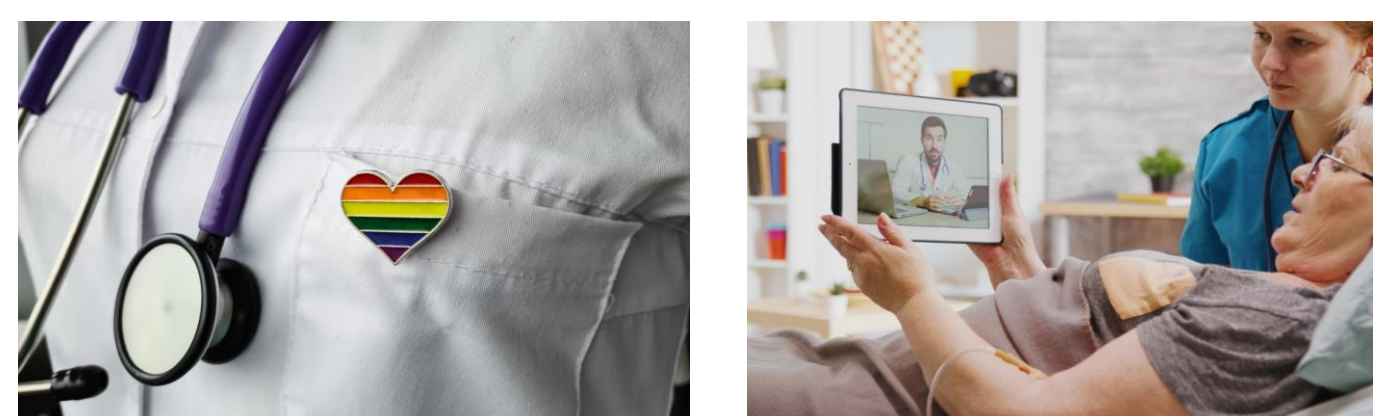


 Advancing health monitoring for rural and remote elderly Australians

Challenge: Elderly Australians in rural, regional, and remote areas face significant barriers to accessing healthcare, impacting their health outcomes.

 A digital front door for LGBTQIA+ individuals in regional Queensland

Challenge: People in regional and remote Australia, particularly within the LGBTQIA+ community, face significant inequities in accessing health services and experience poorer health outcomes.



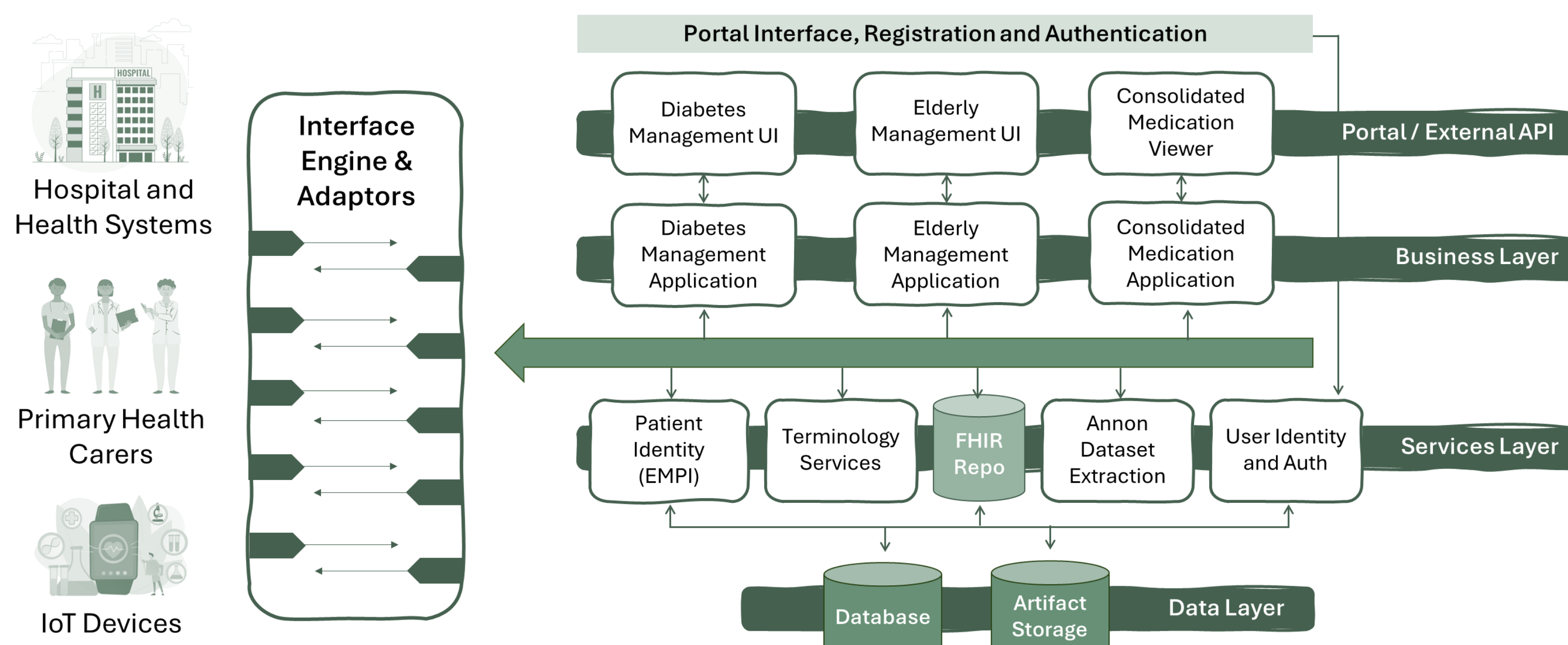
 Improving access to virtual and integrated team care in Residential Aged Care Facilities

Challenge: Following the 2021 Royal Commission recommendations, there is a critical need to improve healthcare delivery in RACFs.

Interoperability solutions

One of the most significant challenges to the quality of healthcare in Northern Australia is the fragmentation of a patient's health information.

NARDHC have developed an architecture and high-level design for a Health Information Exchange suitable for health data sharing across the diverse range of providers in Northern Queensland.



Imagine a Northern Australia where healthcare is accessible, effective, and tailored to the unique needs of rural and remote communities, enabling all individuals to lead healthy and fulfilling lives