

The role of global standards in enabling connected care

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Acknowledgement



The Australian Digital Health Agency acknowledges the Traditional Custodians of Country throughout Australia, and their continuing connection to land, sea and community. We pay our respects to them and their cultures, and to Elders, past and present.

The role of the Australian Digital Health Agency

The Agency is charged with developing digital health strategy at the national level for Australia.



The purpose of the Agency is:

"Better health for all Australians enabled by connected, safe, secure and easy to use digital health services".



The Australian Digital Health Agency

The vision, value proposition and key partners for the Australian Digital Health Agency.

OUR VISION

A healthier future for Australians through connected healthcare

OUR VALUE PROPOSITION

Influence national policy development and oversee implementation

Transform care through interoperability and improved access for all consumers

Prioritise investment in connected care systems and digital health capability

OUR KEY PARTNERS FOR SUCCESS



Governments (Fed/States) Sustainability of investments



OUR

AIMS

Healthcare Professionals
Digital take-up and
emerging practice



Trust and engagement



Researcners
Leading data and evidence hased hest practice



Industry and technology vendors Health software sector



- · Transform our health systems by connecting clinical with digital to provide coordinated care and data driven solutions
- · Change systems and behaviours to improve health outcomes, quality of life and reduce costs/improve sustainability
- Remove barriers to increase uptake of digital health and encourage healthcare innovation



Digital Health Priorities



Drive information sharing

- Drive My Health Record content by requiring the inclusion of pathology and diagnostic imaging results, medicines information, complete and timely discharge and transfer of care summaries.
- Support the patient, improve health outcomes, and efficiency of the work force as well as reduce duplication, wastage, and hospital admissions, and improve health and digital literacy including in vulnerable populations and remote communities, empowering consumers to take greater control of their health journey.



2 Improve connectivity and advance real-time data exchange

 Steward the Connecting Healthcare Plan to introduce conformance standards supported by regulation designed to improve integration and utility of digital health tools by all healthcare professionals and across care settings to increase the information available in real time to the whole care team.



3 Modernise national infrastructure

- Continue to transform the national infrastructure, building on the new API Gateway and transition to the cloud, to move to a contemporary, structured, data rich health information ecosystem capable of supporting real-time access to information anywhere, anytime – further improving health outcomes, work force efficiency and sustainability of the system overall.
- This will also enable the collection of health data to provide patients and their health care providers with rich and informed insights about their health, and flag future direction, enabling collaborative shared investment.

National infrastructure and supports



A national **Health Identifiers (HI) Service**



National Clinical Terminology Service (NCTS) - localised HL7 FHIR resources, SNOMED CT-AU and AMT



National Health Services Directory (NHSD)



Provider Connect Australia (PCA)



National Authentication Service for Health (NASH)



Provider Digital Access (PRODA) service



A secure and convenient way to access My Health Record on your mobile

My Health App



Continued evolution of the **My Health Record** system



Implementing Real Time Prescription Monitoring (RTPM) across jurisdictions



Implemented
Electronic Prescribing
(ePrescribing)



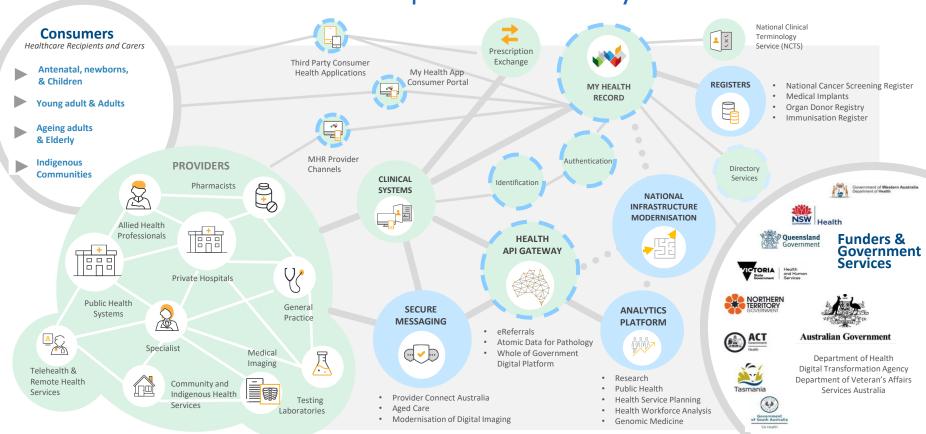
Metadata Online Registry (METEOR)



Many hospitals have implemented Electronic Medical Records (EMR)



Australia's complex healthcare system



Australia's Digital Health Ecosystem



MONASH

Research bodies /

academic groups





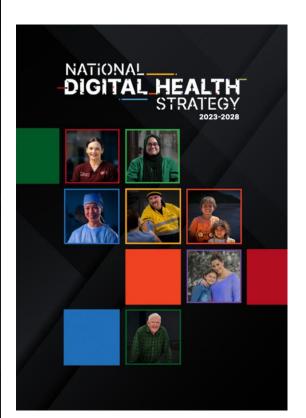


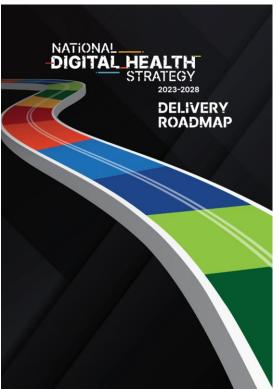
The digital health ecosystem is complex and intricate, with interdependencies across different organisations and components of the sector

NATIONAL DIGITAL HEALTH STRATEGY

Now available







Nationalstrategy.digitalhealth.gov.au

VISION

The vision of the National Digital Health Strategy is 'an inclusive, sustainable and healthier future for all Australians through a connected and digitally enabled health system.'

PARTNERS AND COLLABORATORS IN THE HEALTH ECOSYSTEM



Consumers and carers



Healthcare providers and organisations



Researchers



Governments

CHANGE ENABLERS



Policy and regulatory settings that cultivate digital health adoption, use and innovation



Secure, fit-for-purpose and connected digital solutions





Digitally ready and enabled health and wellbeing workforce



Informed, confident consumers and carers with strong digital health literacy

HEALTH SYSTEM OUTCOMES ENHANCED BY DIGITAL HEALTH



1. Digitally enabled: Health and wellbeing services are connected, safe, secure and sustainable



2. Person-centred: Australians are empowered to look after their health and wellbeing, equipped with the right information and tools



3. Inclusive: Australians have equitable access to health services when and where they need them



4. Data-driven: Readily available data informs decision making at the individual, community and national levels, contributing to a sustainable health system

DELIVERY ROADMAP

HEALTH SYSTEM OUTCOMES

ROADMAP PRIORITY AREAS

DIGITALLY ENABLED



Policy and regulatory settings that cultivate digital health adoption, use and innovation

- Connect care
- Enable a digitally ready workforce
- Enhance and maintain modern and integrated digital solutions

PERSON-CENTRED



Person-centred: Australians are empowered to look after their health and wellbeing, equipped with the right information and tools

- · Support strong consumer digital health literacy
- · Increase availability of health information
- Enhance consent management and flexible health information exchange

INCLUSIVE



Australians have equitable access to health services when and where they need them

- · Improve and expand virtual care
- Integrate personal devices
- · Support equitable health access

DATA-DRIVEN



Readily available data informs decision making at the individual, community and national levels, contributing to a sustainable health system

- Use health information for research and public health purposes
- Plan for emerging data sources and technology such as artificial intelligence, spatial data, genomics
- · Monitor and evaluate outcomes and progress

Defining 'Connected Care'



Health information is discoverable and accessible



Use of health information supports individual privacy, choice and safe access to information









The value and quality of care is multiplied in a digitally connected health system



Core national healthcare digital infrastructure is used across the sector





Investment supports interoperability and an efficient health technology sector



Measurement of digital health maturity informs interoperability system design

Collaboration and stakeholder

engagement underpins interoperability







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National digital health standards and specifications are agreed and adopted

National healthcare identifiers are

used across the healthcare sector



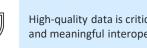
High-quality data is critical for safe



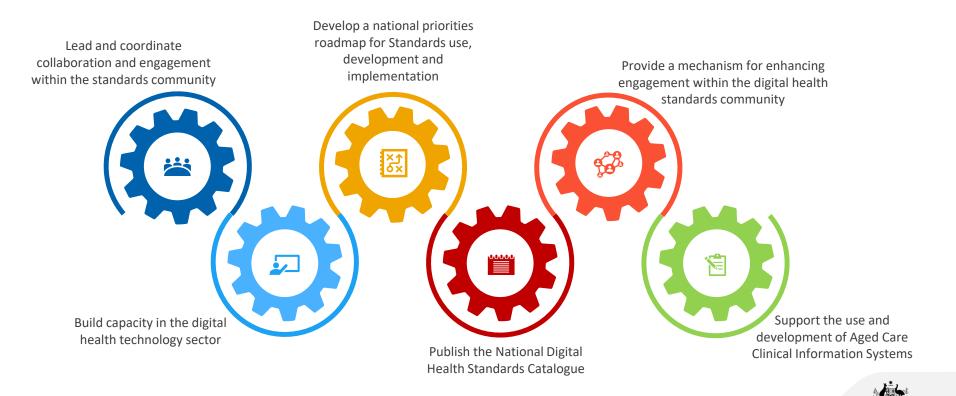


and meaningful interoperability





National Digital Health Standards Program



Australian Government
Australian Digital Health Agency

Digital Health Standards - Building blocks for connected care



- Clearly defined requirements
- Supportive actions to encourage or mandate implementation
- Tools to support community in adoption
- Conformity assessments to ensure standardisation and interoperability of implementation
- Benefits for all stakeholders



SNOMED - Systemized Nomenclature of Medicine

What Provides computer-processable collections of medical terminology and definitions that are foundational for clinical documentation and reporting.

Why SNOMED CT enhances communication, enables standardisation, supports clinical practice and contributes to better care by providing a robust and comprehensive clinical vocabulary.

Snomed supports connected care by providing the ability for the same data to be interpreted and used consistently across the care environments, enabling clinical decisions and better care for patients and consumers.





HL7 – Health Level Seven

What Provides frameworks, such as FHIR, for the exchange, integration, sharing, and retrieval of electronic health information that supports clinical practice and provision of health services.

Why FHIR enables flexible and interoperable sharing of information across technology platforms.

HL7 supports connected care ensuring faster application development, including bringing more data into the hands of the patient or consumer and their care team in mobile applications





IHE – Integrating the Healthcare Enterprise

What Provides specifications and profiles – which are types of standards - that enable health systems and care delivery networks to adopt interoperable digital workflows.

Why IHE specifications often profile complex workflows within specific areas of clinical practice to define how other standards should be used together to ensure quality and consistency in processes.

IHE supports connected care by enabling truly connected systems.





Standards Australia

What Ensure that local needs can be addressed in both local and global standards

Why Locally defined standards are often needed to support the specific practices within Australia. Reflecting internationally defined standards by adopting as local standards creates and official framework for implementation.

Standards Australia supports connected care by enabling local and global consistency in how data is shared is just one of the benefits.





GS1

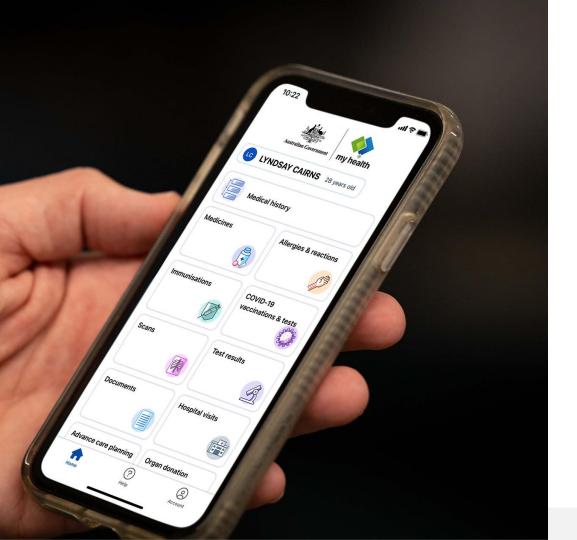
What Provide globally unique identifiers and data capture standards that enable linkages of the physical and digital worlds. Their set of standards, which include sharing standards also enable safe, efficient, and clinically integrated supply chains.

Why Their structured standards ensure unambiguous identity, allowing structured data can be captured and stored as part of care processes.

GS1 supports connected care by assisting the process of capturing accurate and timely data related to healthcare activities, which is then available for consumers and clinicians.







Digital enablement that puts consumers at the centre

Digital tools that empower consumers

Digital tools that support clinicians in their provision of care

Digital enablement of connected care







What next for connected care



Thank you



Further information and support

Australian Digital Health Agency

Web: <u>digitalhealth.gov.au</u>

Email: <u>help@digitalhealth.gov.au</u>

Phone: General enquiries 1300 901 001

My Health Record help line 1800 723 0471

in <u>Australian Digital Health Agency</u>

<u>@AuDigitalHealth</u>

<u>@AuDigitalHealth</u>

