







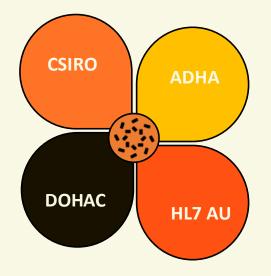
COMMUNITY

comprising government, technology partners, provider organisations, peak bodies, practitioners, consumers and domain experts



ACCELERATING
the creation and use of national FHIR
standards in health care information exchange

Sparked is supported through a partnership























Standards are only as strong as its community



Over 100 Founding Members

aurabox

Best Practice

Catholic Health Australia

Peak Bodies and Colleges





Since our inception, the Sparked community has grown to





Healthful Al

accenture

ATOMICA

DC2Vue®













🔷 iyarn

Magentus





CHAMONIX

Deontik

evidentli

Australian Genomics



Cliniko

€EVOra

axomem

R ALCIDION Altera.





<u>ulumus</u>

ORACLE







scyne











phn



ORION















Health











NT HEALTH









SA Health





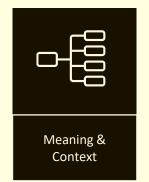


Government of Western Australia
Department of Health





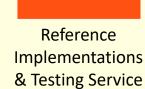
Sparked Accelerator Scope











Implement

Services that support implementation and testing of FHIR based applications

Data for Interoperability (e.g. AU CDI)

- AU CDI R1 published
- AU eReqDI -published
- AU CDI R2 in development
 - **Patient Summary**
 - **Chronic Condition** Management
 - **Encounter Record**

Clinical Terminology Value Sets

- SNOMED CT and LOINC Value sets **RANZCR**
- **RCPA**

FHIR Implementation Guides

- **AU Core** Ballot for working standard
- AU eRequesting **Ballot AU Patient Summary**

In ballot

Testing of FHIR Standards, supported by infrastructure & tooling

of FHIR Standards



What is AU Core and Australian Clinical Data set for Interoperability (AUCDI)?



Clinical is here



Specifies "WHAT" clinical information

(and corresponding data elements and terms) should be included for data entry, data use and sharing information supporting patient care





Specifies "HOW" the core set of data (above) an information should be <u>structured</u>, accessed and shared between systems

Technical is here



Janiting national interoperability — **Sparked** has fuelled two years of FHIR-powered progress across Australia's digital health landscape...



Monthly



Sparked **Clinical Design Group**

Meets

Monthly

Sept 23

Members ~80 regular attendees

Sparked Harmonisation Group

Meets

Monthly

CDG Co-Chairs, TDG Co-Leads & partner representatives



Sparked AU Core **Technical Design Group**

Meets

Monthly

Sept 23

Members ~60 regular attendees

Sparked Patient Summary Project Team

Monthly

236

~55 regular attendees

Sparked AU eRequesting **Technical Design Group**

Oct 23

Members ~60 regular attendees

Engagement Events:

Online: 10 Face-to-face: 7

Engagement Events:

Online: 1

Engagement Events:

Online: 38 Face-to-face: 7 **Engagement Events:**

Online: 7

Engagement Events:

Online: 41 Face-to-face: 4

memhers



20,600+

Community expert hours Aug 2023 - April 2025



2,400+



Sparked Chronic Condition Mgmt Clinical Focus

38 Members

Meets Monthly



Sparked AU Patient Summary Clinical Focus Group

Memhers



Virtual Events & Webinars

136

Aug 2023 - April 2025



In-person Leadership & Workshop Events

Aug 2023 - April 2025



Sparked Symposium

500+ >40%

Registered attendees Of attendees are new to Sparked



FY24/25 Product Update



ALD

Release 1: June 2024
Release 2: June 2025



AUCore FHRIG

Release 1: February 2025 Release 2: January 2026



AUPatient Summary FHRIG

Release 1: June 2026 = All Patient Summary Implementation Guide
HL7 6 5 Sparked



Release 1: January 2026

ALeRegDI

Release 1: October 2024



Sparked Testing Tools

AUCore RI & R2 FHRIGInterno Test Kits
AUCore RI FHRIGSample FHRTest Data



Radiology Referral ValueSet/s

Pathology Request ValueSet/s

Release 1: June 2025

Release 1: June 2025



FY24/25 Program Ubdate

Sparked has achieved all of its aspirations and targets for the first two years of delivery as well as the addition of AU Patient Summary FHIR IG.

- ✓ Trialled the FHR Management Community Process
- √ Sparked Operating Model
- ✓ Established Product Backlogs

ALCOI AU Core

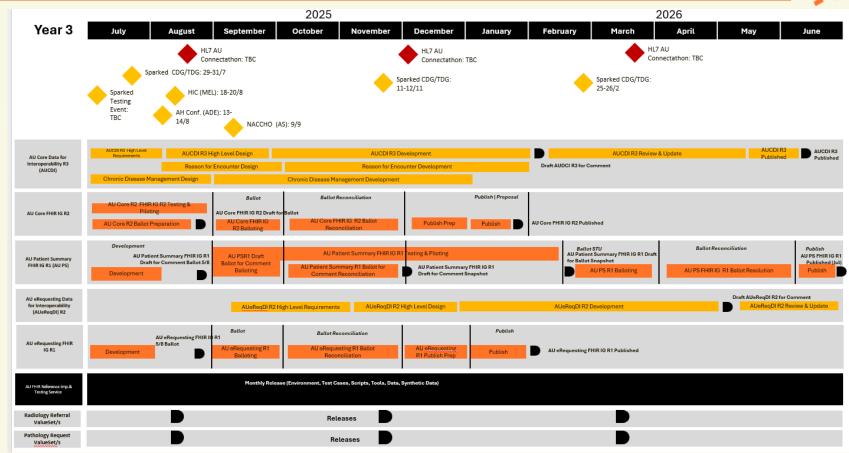
AUCore FHRIG AUeRequesting FHRIG

AUPatient summery FHRIG

- ✓ Established FHR Infrastructure & Open Source Tools
- ✓ Conducted CSIRO Program Evaluation
- Established a Community of Clinicians,
 Software Developers, Healthcare
 Organisations, Government and
 Consumers



Turning Up the **Heat** in FY25/26!







Scope of AUCDI with use cases

Core Patient summary Chronic condition management























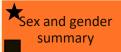


















Encounter





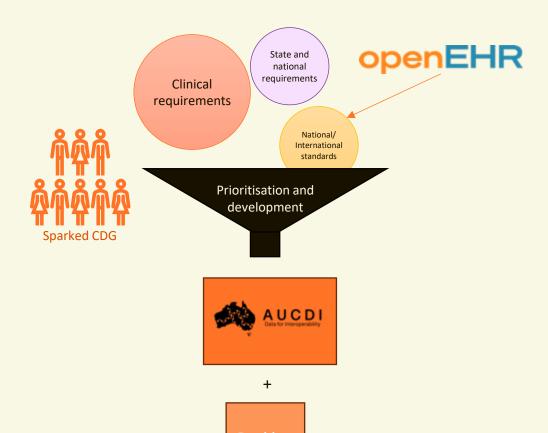














How can AUCDI be used?



As knowledge base for validated clinical data requirements



As a common data foundation that can be reused in other national Data for Interoperability use cases



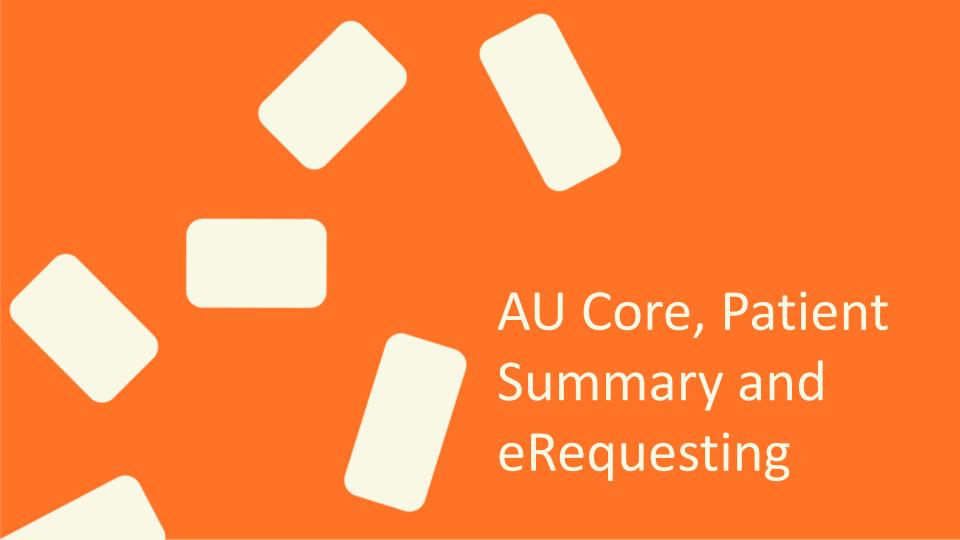
As a published foundation to develop technical and non-technical specifications



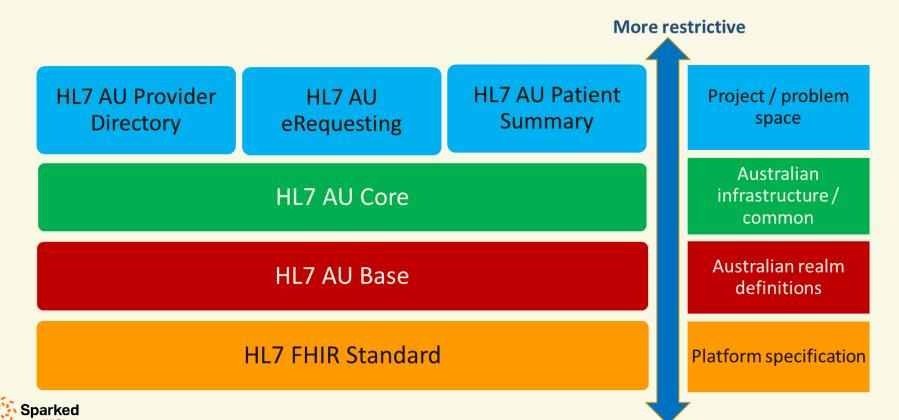
Provides resources for vendors to

- use as a roadmap as they enhance their systems
- leverage existing validated data models to start new applications or projects





HL7 AU FHIR standards



FHIR AU Core

- Implementable standard for FHIR based interfaces for provider and patient information systems in Australia
- Data model and RESTful API interactions that set minimum expectations for a system to record, update, search, and retrieve core digital health and administrative information
- Exchange standard for concepts in AUCDI (common data model – Australian Core Data for Interoperability)
- For use by Australian stakeholders when implementing FHIR to provide a common implementation and to be built upon when creating further Australian profiles and implementation guides.



allergies



immunisations



medications



prescriptions



problems



procedures



diagnostic results



vital signs



social determinants of health



encounters

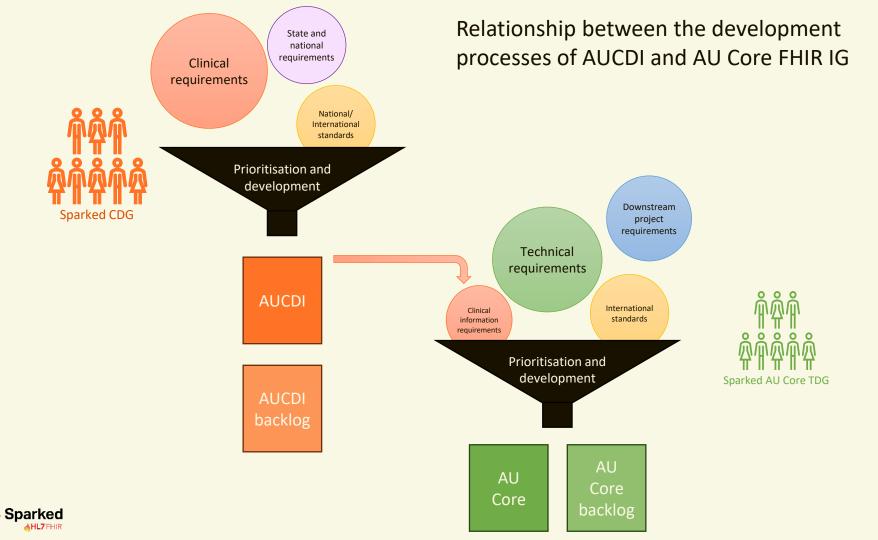


patients



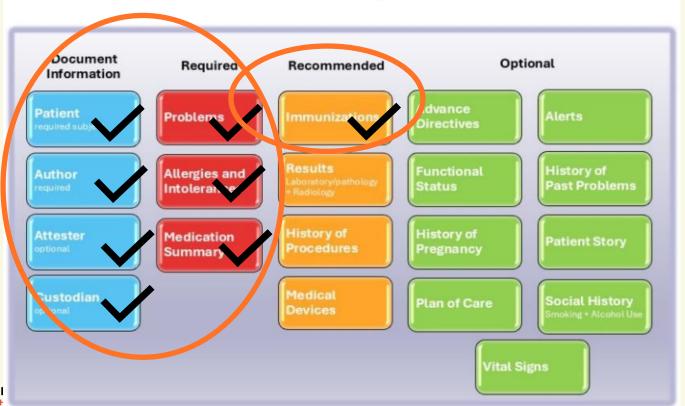
providers



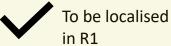


Focus of AU Patient Summary FHIR IG R1

The IPS Composition



AU PS



PAMPI

- P Problems
- A Allergies
- M Medications
- P Procedures
- I Immunizations

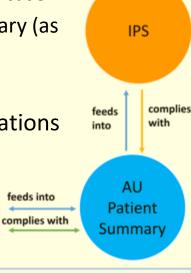




AU Patient Summary FHIR IG R1 Focus

- Working through what it means to generate (author) and view patient summaries in an Australian healthcare context in the following cases:
 - Interstate GP Visit Patient Driven use case
 - Emergency Hospital Admission Clinician Driven Patient Summary use case
 - Referral to Specialist and Allied Health Clinician Driven Patient Summary (as Supplemental Information) use case

 Working through localising patient and provider demographics, document context, problems, allergies, **medications**, and immunisations (vaccination).





feeds into

AU Core

feeds into

implements

AUCDI

Primary Use of Data to Population Health



Collect once and use many

- Re-use for variety of other health system needs
 - Service planning
 - Funding
 - Public accountability
 - National performance indicators
 - Global reporting, i.e. WHO, OECD
- Learning health system
 - Feeding back into clinical decision support systems
 - o Performance measurement
 - Safety and quality monitoring





Primary to population use of data - AUCDI

Person care

Patients, clinicians, care teams, family and carers

· Clinical care planning coordination and management









- Resource allocation
- Quality improvement
- · Program planning
- Reporting QI PIP

Local, state, national and other reporting bodies

- Chronic disease management
- Health outcomes
- Disease surveillance
- Health system planning
- Prevention

Care organisations

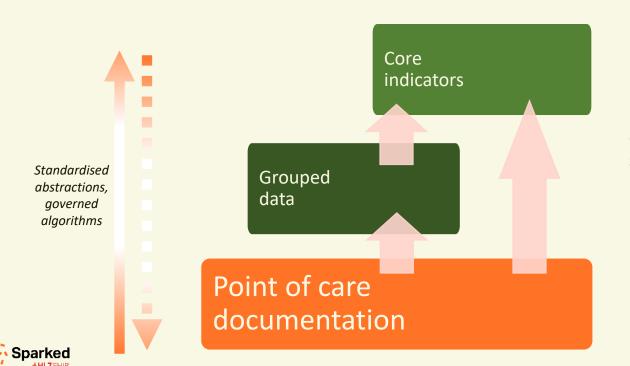


Population and public health





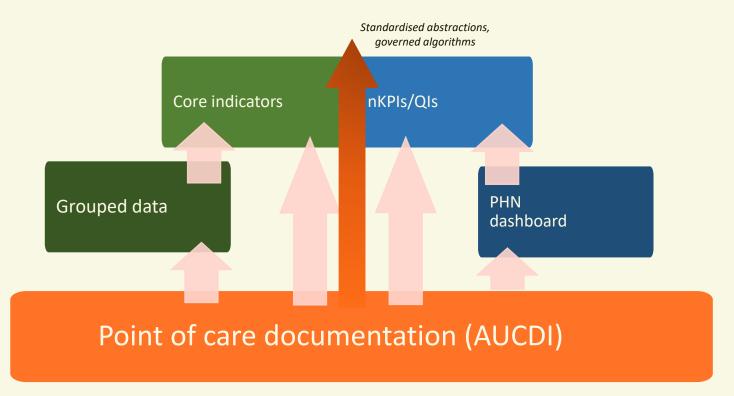
Primary to population use of data



Continuum of data rather than separation by purpose

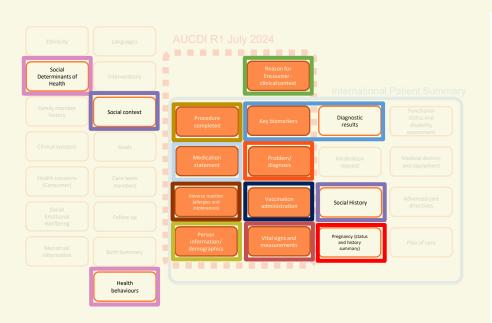
- Point of care documentation – most granular
- Abstracted, categorised, grouped to coarser grain data

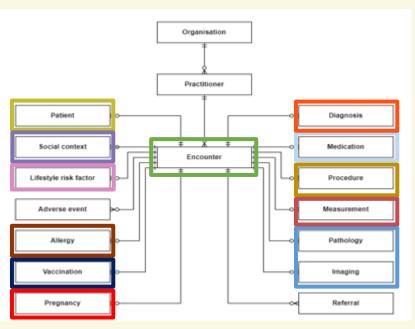
Primary to population use of data





Designing data to flow









Get involved!

- Help inform the foundation standards being implemented by the software industry.
- Help ensure the leveraged by MyHR and Health Connect Australia are fit for purpose
- AUCDI will enable better data quality through agreeing and standardising data definitions and terminology.
- Traceability between AUCDI and AIHW Primary Care Data Set.
- Improve data quality for population health use.
- Opportunity to engage with a broad range of stakeholders, meet new partners, strengthen networks ...
- Build knowledge and capacity in digital health standards, data management workflows etc



















Together

Further

Faster





Sparked.csiro.au



sparked.csiro.au

Check out the Sparked website to learn about the program, what the community is working on, and how to get involved.























Sparked Podcast

We created the Sparked Podcast - bringing together the biggest names in the industry to discuss the challenges, breakthroughs, and future of digital health.

Hosted by Brett Sutton AO, Season 1 features digital health leaders, including: Elizabeth Koff, Grahame Grieve, Daniel McCabe, Danielle Bancroft, Peter O'Halloran, and Rob Hosking

Season 2 launching soon!











Celebrating the Community

(a) / The Sparked Book: Celebrating the first two years of the Sparked Community

The Sparked Book: Celebrating the first two years of the Sparked Community

To recognise the first two years of the Sparked Community we are proud to publish the Sparked Book.

This is a celebration of what the Sparked Community has achieved in the first two years of the program.

There have been some fantastic milestones like the publication of the AU Core FHIR IG, the Australian Clinical Data for Interoperability, and the Australian effequesting Data of the Interoperability.

We've seen the Sparked Community grow to over 1,200 people and in excess of 21,000 expert hours contributed from August 2023 to May 2025.

Inside this book you will find:

- · Stories from the Sparked Community,
- · Milestones, metrics and highlight moments,
- · Insights from events, podcasts, and partnerships, and
- . The growing influence on the national and international stage

Here's to the next chapter - we look forward to seeing the Sparked Community continue to go from strength to strength, and celebrate their milestones.







Not yet part of the Sparked community? →

Register here to join the Sparked initiative



















Sparked AU LinkedIn

The Sparked AU LinkedIn is another great way to stay up to date with the program. Here you will find us sharing news about new releases, opportunities to provide feedback, upcoming events, and celebrating the fabulous Sparked Community.







Sparked AHL7 FHIR





