

Sparked Clinical Design Group

13 August Workshop

Online



## Acknowledgement of Country

We acknowledge the Traditional Custodians of the land on which we all gather today.

We pay our respect to elders past, present, and emerging and extend our respect to all Aboriginal and/or Torres Strait Islander people, acknowledging the First Peoples as the first scientists, educators and healers.





# Agenda

Item	Topic	Time	Lead/facilitator
1	Welcome	2 mins	Kate Ebrill
2	Update AUCDI R1, AUeReqDI R1	10 mins	Kylynn Loi
3	Update AU Core TDG	10 mins	Marvin Malcolm
			(Co-Chair AU Core TDG)
4	Recap F2F May workshop; Sparked Rural and Remote Health Equity Roundtable	20 mins	Kate Ebrill, Kylynn Loi
5	AUCDI R2 planning and September Community Co-Design Workshop preparation	40 min	Kate Ebrill, Kylynn Loi, Heather Leslie
6	Sparked evaluation update	5 min	Michael Hosking
7	Wrap up and close	3 mins	Kate Ebrill



# Sparked Team

### FHIR@csiro.au



Danielle Tavares-Rixon FHIR Technical Lead



Michael Hosking Deputy Lead



Kylynn Loi Clinical Design Lead



Kate Ebrill Sparked Lead



Michael Wilson **FHIR Solution Architect** 



Bernadette Cranston **Program Director** 



Steph Ong Infrastructure Lead



Tor Bendle Program Engagement Lead



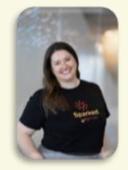
Matt Cordell Clinical Terminology Specialist



**Brett Esler FHIR Expert** 



Dr Heather Leslie Lead Clinical Data Modeler



Madison Black **Engagement & Events** 



Ilya Beda FHIR Expert



Liam Barnes FHIR Questionnaire Developer



Shelley Behen **Senior Business** Analyst



Dusica Bojicic FHIR IG Author



Sparked Chris Kellalea-Maynard MHL7FHIR Senior Business Analyst



Nisha Subramanian **Business Analyst** 



Kyle Pettigrew Senior Engineer



Michael Osborne **FHIR Terminologist** 



Jaymee Murdoch FHIR Standards Developer



Heath Frankel FHIR Expert



Olivia Carter **Engagement Analyst** 





# Sparked CDG team



Kate Ebrill – Sparked Lead



Michael Hosking – Sparked Deputy Lead



Kylynn Loi – Clinical Design Lead



Dr Heather Leslie

– Lead Clinical

Data Modeller



Tor Bendle Program Engagement Lead



Shelley Behen Senior Business Analyst



Matt Cordell – Clinical Terminology Specialist



Michael Osborne
- FHIR
Terminologist





## Sparked CDG Clinical Co-Leads

To remind us and keep us focused & on track based on scope



Chris Moy



Harry Iles-Mann



Charlotte Hespe



Andrew Hugman



Chaturica Athukorala

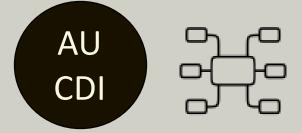




# What is AU Core and Australian Core Data set for Interoperability (AUCDI)?



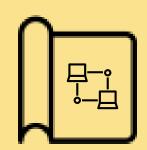
CDG is here



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) and information should be <u>structured</u>, <u>accessed</u> and <u>shared</u> between systems

TDG is here



# Thank you!



- AUCDI R1 published in June!
  - R1 document
  - Backlog
  - Feedback and responses
  - Summary of themes
- https://sparked.csiro.au/index.p hp/sparked-productsresources/australian-core-datafor-interoperability/aucdirelease-1/



### AUCDI Release 1 Draft for Community Review Progress Report

Feedback period

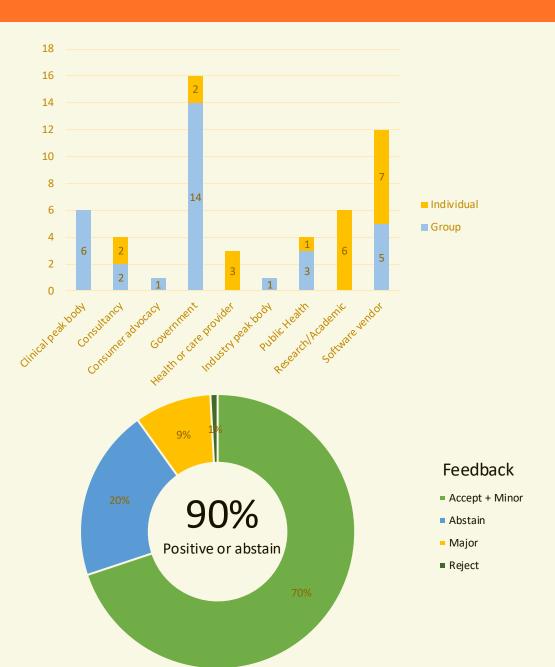
6 weeks

Number of respondents

52

Number of feedback items

400+



New data items added

16

Last updated data elements have been added to each for the "summary" data groups e.g. Tobacco smoking summary, Adverse reaction risk summary
Data of measurement or date of observation have been added to each Biomarker, Vital sign and Measurement
Date of Assertion has been added to Medication use summary

New data items removed

2

"Last administration" and "Endpoint" have been removed from Medication use statement due to lack of data and confusion of meaning. They have been added back to the backlog for further discussions

New items on backlog

126

Backlog to be published on the Sparked website soon

AUCDI R1 was published

Last week of June





### Summary of themes of feedback

### Overall document

- Questions around rationale for optional vs mandatory
- Request for additional national references and international FHIR references
- Questions around datatypes
- Need for data elements capturing date/time to be explicitly included

### Adverse reaction risk

- More information around adverse reaction risk e.g severity, clinical verification status etc. to be included
- Need for other data groups e.g. Adverse events, Drug-drug interactions



New data element: Last updated

### Problem/diagnosis summary

 Need for additional data elements



New data element: Last updated

 Need for additional data elements



Update to value set

 Need for additional data elements



Update to value set

- Need for additional data elements
- Need for additional data groups e.g. Vaping



New data element: Last updated

- Need for dates of observation/measure ment
- Questions around specific structure
- Questions around specific units (UCUM)

### Blood pressure

 Need for additional data elements



New data element: Date of measurement

### Pulse information

 Need for additional data groups e.g. Rhythm



New data element: Date of measurement

New data element:

### Body temperature

 Need for additional data elements



New data element: Date of measurement

New data element:

Date of measurement

•No other additional themes



New data element: Date of observation

### Body height/length

 Ouestions around allowed decimal places



New data element: Date of measurement

### Body weight

 Need for additional data elements



New data element: Date of measurement

### Waist circumference

 No other additional themes



New data element: Date of measurement

- Need for dates of measurement
- Need for additional data groups

• Need for additional data elements

New data element:

Date of measurement

Questions around units

 No other additional themes

 No other additional themes



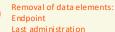
New data element: Date of measurement

### Medication use statement

- Issues with Last administration and Endpoint
- Issues relating to Medication use statement vs medication order vs administration record
- Need for additional data elements



New data element: Date of assertion



 No other additional themes

- Questions around sex assigned at birth and sex parameter for clinical use
- Need for additional data groups
- Need for additional data elements



New data element: Last updated



### **Problem/Diagnosis summary**

Date/time clinically recognised

Date/time of onset

Date/time of resolution

Diagnostic certainty

Method of diagnosis/Clinical evidence

Practitioner role that confirmed the

diagnosis

Qualifiers

Resolution phase

Severity

Staging/grading

### Procedure completed event

Description

Intent

Total duration

Location performed

Procedure status

### Vaccination administered event

Route of administration

Target disease

Vaccine serial ID

Batch Number

**Body site** 

### Adverse reaction risk summary

Adverse reaction status

Clinical management description

Clinical status

Clinical verification

Criticality

Date exposed to substance

Dose/frequency and form

Initial exposure

Method of diagnosis/Clinical evidence

Patient must avoid statement

Reaction mechanism

Severity

Status

Timing and duration of exposure

Type/Category

Type of reaction

Verification status

Reaction event

- Date of manifestation
- Dosage
- Formulation and strength
- Delabelling
- Time/timing exposure to

Adverse reaction

### **Encounter – clinical context**

Comment

Type of encounter/modality

### Sex and Gender

Sex parameter for clinical use

### **Tobacco smoking summary**

Amount

Cessation

Cigarette smoking

Comment

Daily smoking started

Frequency

Overall pack years

Pattern

Previous episodes of use

Quit date

Regular smoking started

Years of smoking

### Medication use statement

Administration aid

Endpoint

Episode type

First prescribed date/Medication start

date

Identify medications used in

combination

Infusion - related data

Last administration

**Medication Details** 

Medication History concepts

Preferred brand

Regular medication indicator

Status for changes

### Vital signs

Blood pressure

- Location of measurement
- Mean arterial pressure
- Method (of measurement)
- Position

Body temperature

- Comment
- Location of measurement

Blood glucose

Heartbeat

Oxygen saturation

Peak expiratory flow rate (PEFR)

Pulse

- Body site
- Method (of measurement)
- Regularity
- Rhythm

Respiration

· Body position

### Measurements

Calculated body weight Body weight

device

### **Biomarkers**

Creatinine - clearance and serum levels ECG

Full blood examination Lipids

- LDL formula
- Lipoprotein (a)
- TC:HDL ratio

Liver function tests



Adverse event **Current pregnancy Product errors** Living arrangements EDD Pregnancy status **Alcohol consumption Medical devices Screening activity** completed summary Diet **Medication order Sexual characteristics Blood glucose Drug interactions Medication summary** Care pathways **Shock index Ethnicity** Menstrual information Care plan Last menstrual period Side effect register **Family history** Menstrual status Care team Genetic/genomic test Social determinants of **Pathology results** results health and Social emotional wellbeing Clinical evidence Physical activity summary Housing **Clinical synopsis** Substance use summary Place of birth **Imaging completed** Consent Vaping summary **Pregnancy history Imaging results Vital status** Contraindication **PREMs and PROMS Indigenous status** 



### AUCDI Release 1 at a glance

### **Problem/Diagnosis**

- Problem/diagnosis name
- Body site/laterality
- Status
- Comment
- Last updated

### **Procedure completed**

- Procedure name
- Body site/laterality
- Clinical indication
- Date performed
- Comment

### Vaccination administered event

- Vaccine name
- Sequence number
- Date of Administration
- Comment

### Adverse reaction risk summary

- Substance name
- Manifestation/s
- Comment
- Last updated

### Medication use statement

- Medication name
- Form
- Strength
- Route of administration
- Dose amount and timing
- Clinical indication
- Comment
- Date of assertion

### **Sex and Gender**

### Summary

- Sex assigned at birth
- Gender identity
- Pronouns
- Last updated

### Tobacco smoking summary

- Overall Status
- Last updated

### Biomarkers\*

- HDL
- LDL
- Total Cholesterol
- Triglycerides
- HbA1c
- eGFR
- uACR

### Vital signs\*

- Blood pressure
  - Systolic
  - Diastolic
- Pulse
  - Rate
- Body temperature
- Respiration
  - Rat

### Measurements\*

- Height/length
- Body weight
- Waist circumference

### Encounter – clinical context

- Reason for encounter
- Modality

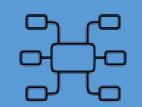




# What are AU eReq IG and Australian eRequesting Data for Interoperability (AUeReqDI)?

CDG is here

AU eReq DI



Specifies "WHAT" clinical information

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





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

TDG is here





### AUeReqDI R1 Draft for Comment

- Draft for Comment now closed
- Currently working through comment and feedback
- 26 submissions received
  - Group and individuals
  - Government, Health or care providers, industry peak bodies, software vendors and consultants
- 110+ feedback items

• Due to be published October 2024









# May F2F CDG Meeting

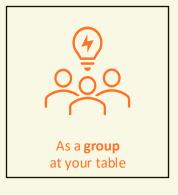
- 1 day event held in Sydney
- 90+ CDG (and TDG) attendees





# Workshop activity: Patient Summary, Chronic Disease Management priority use case summary

Patient Summary	Chronic Disease Managmeent	
Organisation to Organisation Within Sector	Continuity and Co-Ordination of Care Across	
(e.g. GP to GP)	Time/Location/Provider Type	
Organisation to Organisation Across Sectors		
(e.g. Aged Care to Public Hospital)	Remote Patient Monitoring	
My Health Record to Consumer App	Advanced Care Directives	
	Medication Management:	
Patient to International Care		
My Health Record to HIE	Patient Care Management Plan	
Service Availability	Setting Goals of Care and Follow up	
Consumer to MDT	Risk management	
Patient Summary Attached to Service		
Request	Value based healthcare	
	Patient/Consumer Self Management	
	Public Health Initiatives	



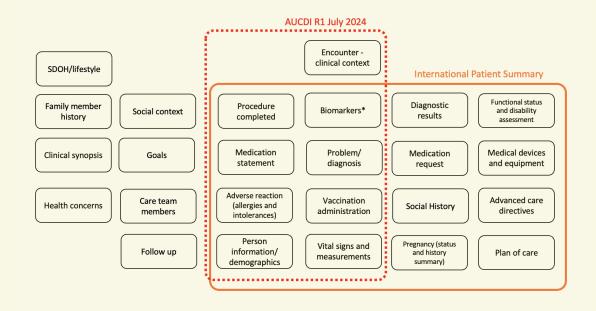




## Workshop activity

Stakeholders were asked, as an individual, to identify priority data groups to be expanded/included in the next release of AUCDI;

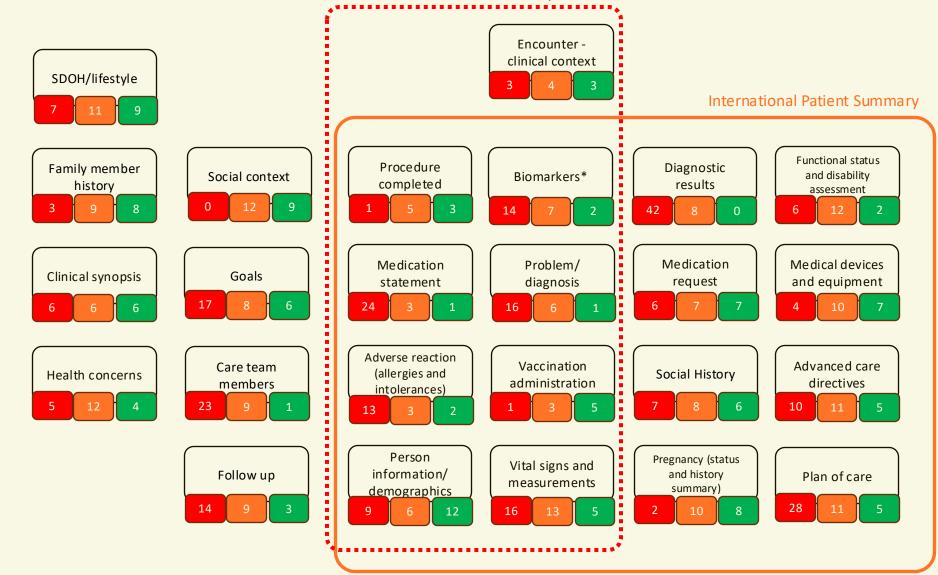
They were asked to identify 5x high priority (red), 5x medium priority (orange), and 5x low (green) priority use cases





### Chronic Disease Management Use Case

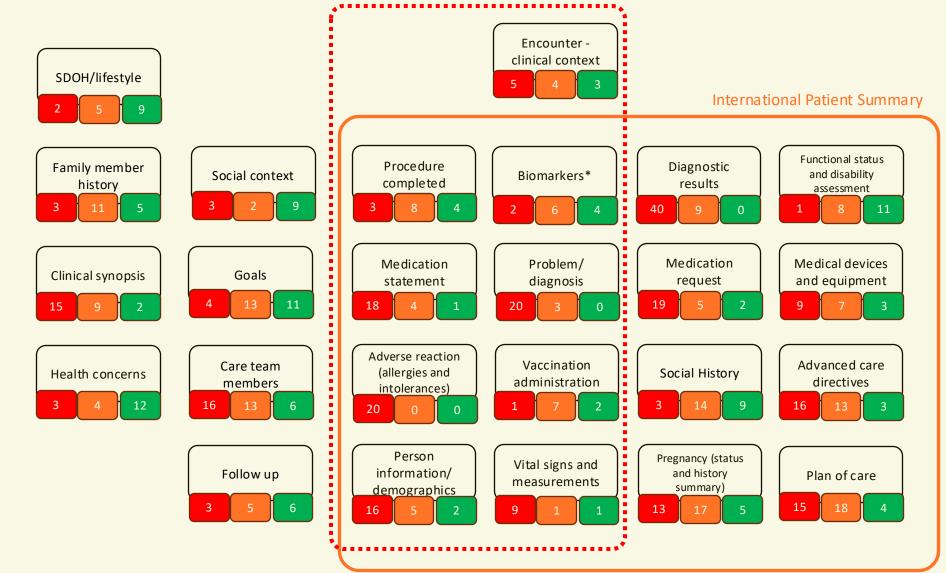
AUCDI R1 July 2024





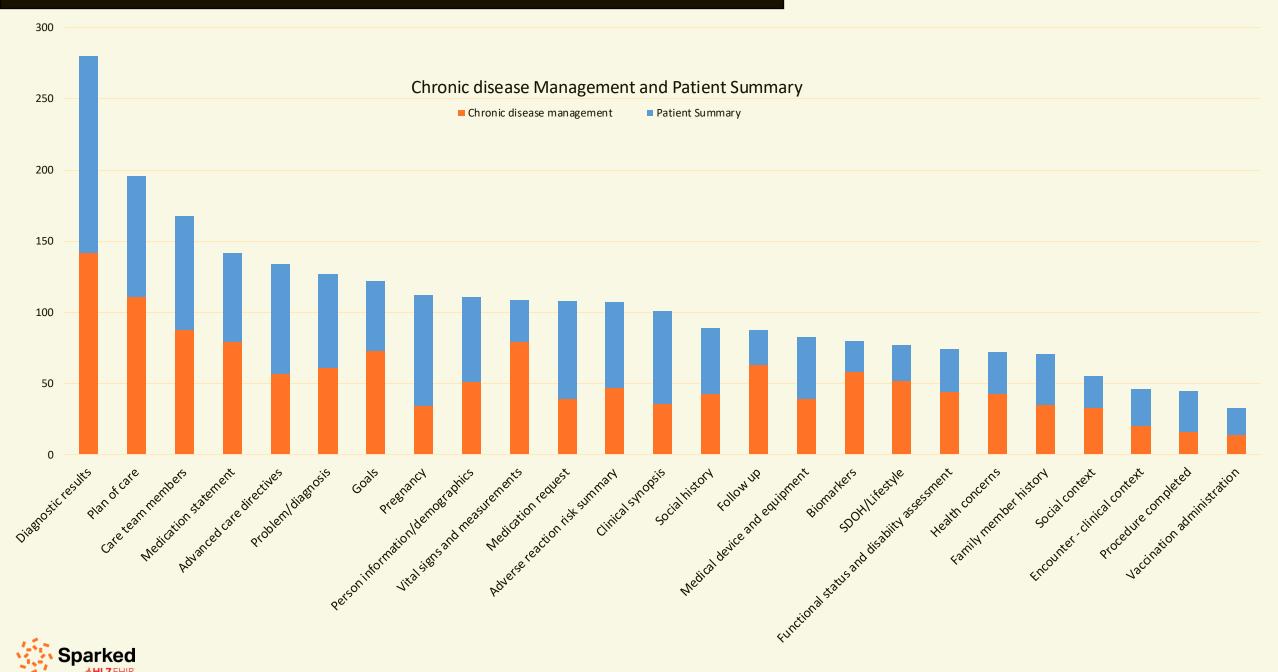
# Patient Summary / Portability of Record Use Case

AUCDI R1 July 2024





### **WORKSHOP RESULTS (SUMMARY)**





### Workshop activity

Stakeholders were asked, as a group at their tables, to discuss the high priority data groups and then agree the following:

What is the most important information to be defined in the AUCDI?

Who does that information need to be shared with (included in a future FHIR IG)

How will this information be used? (e.g., decision support, reporting assessment information)

Identify
policies/inputs that
will help
scope/should be
considered

Which stakeholders should be involved



### **WORKSHOP RESULTS (SUMMARY)**

What is the most important information to be defined in the AUCDI?

Who does that information need to be shared with (included in a future FHIR IG)

How will this information be used? (e.g., decision support, reporting assessment information)

Identify policies/inputs that will help scope/should be considered

Which stakeholders should be involved

New data items identified (and added to backlog)

- Advance care directive
- Biomarkers
  - Fasting insulin
  - **FBC**
  - Folate/B12
  - Iron studies
  - Microbiota markers
  - Nutrigenomics
  - Thyroid function
  - Vit D
- Care team members
  - CC option
  - Contact
  - Name

  - Organisation
  - Role
- Diagnostic test result
  - Arterial blood gases
  - Cardiac imagery
  - Colonoscopy
  - Gastroscopy
  - Imaging
    - echocardiography result
  - Path test result histology
  - Spirometry
- Encounter
  - Location/s
  - Outcome
- Genetics/Epigenetics
- Goal

- Frequency
- **Functional** impact
- **SMART**
- Preventative nutrition goals
- Relevant supports
- BMI
- Clinical synopsis
  - Author
  - Summary (Free text)
- Place of birth
- Interpreter required
- Alternate names/pseudonyms
- Pregnancy domain
  - Gravidity/Parity
  - Start of pregnancy
  - **Progress**
  - Risk (level)
- Social context
  - **Education level**
  - Financial summary
  - Health equity summary
  - Housing summary
  - Occupation summary
  - Social history
  - Social network
  - Transport summary
- Pulse oximetry
  - FiO2
- Adverse reaction risk summary
  - Adverse reaction authoring clinician
  - Immunogenetic testing

Care team

- GP
- **Specialist**
- Allied Health
- **Pharmacist**
- Aged Care
- Acute care/hospital
- Disability care
- Food providers
- Ambulance
- Nurse care workers

Consumer, patient, family, carer

- Govt services
- Medicare. Centrelink, councils
- Billing, insurers
- My HR

CDS\* Smart guidelines Referrals Assessments

Medication review **Quick view** Visibility

Ongoing communication

Appointments/recall

Targeted

correspondence Reporting

Monitoring

Patient right to share and access data Patient API legislate Consent management, cross border sharing, privacy/security billing **PBS** IHI

Patient Carers Care providers involved in care plan/care team Consumer groups Government/payors Admin/billing

Colleges





# Rural and Remote Health Equity Roundtable

- Held in Darwin, in early July
- Attendees
  - Federal government
  - State government
  - State public health
  - Services Australia
  - Healthdirect
  - ACCHOs
  - ACRRM
  - RACGP
  - RFDS
  - PHNs
  - Clinicians
  - Consumers
  - Industry
  - Digital Health CRC









### Use cases identified – Rural remote focus

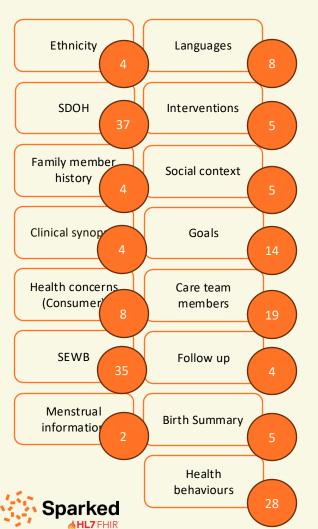
Patient Summary	Chronic Disease Management
Organisation to Organisation Within Sector (e.g. GP to GP) Organisation to Organisation Across Sectors (e.g.	Patient Care Management Plan (e.g. Mental Health Plan, Chronic Disease Plans)
Aged Care to Public Hospital) Summary for kids in out of home care	
Summary from prisons Patient Summary Attached to Service Request	
System workarounds when rural and remote areas are cut off (wet season etc.) - offline capacity	
Child development monitoring - child health record Sharing information across government departments (e.g., My Aged Care, NDIS)	

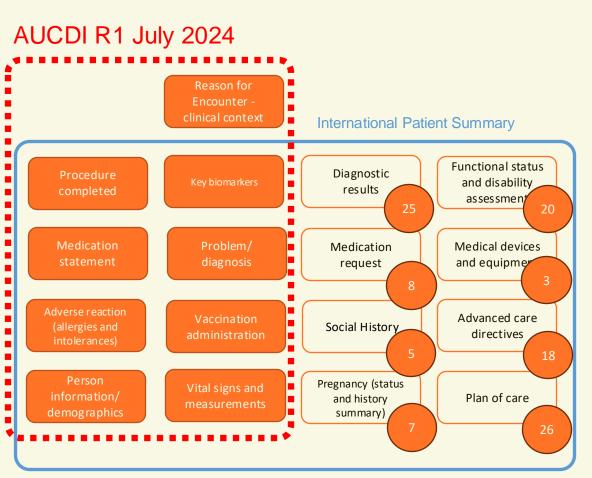


# Workshop - Rural and remote — Prioritisation activity

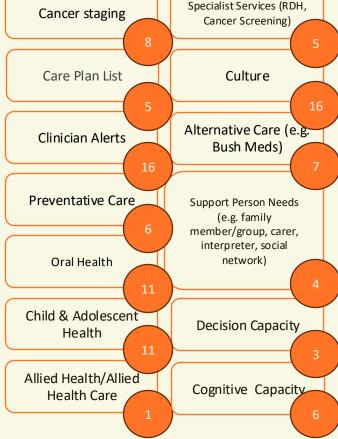


### Existing



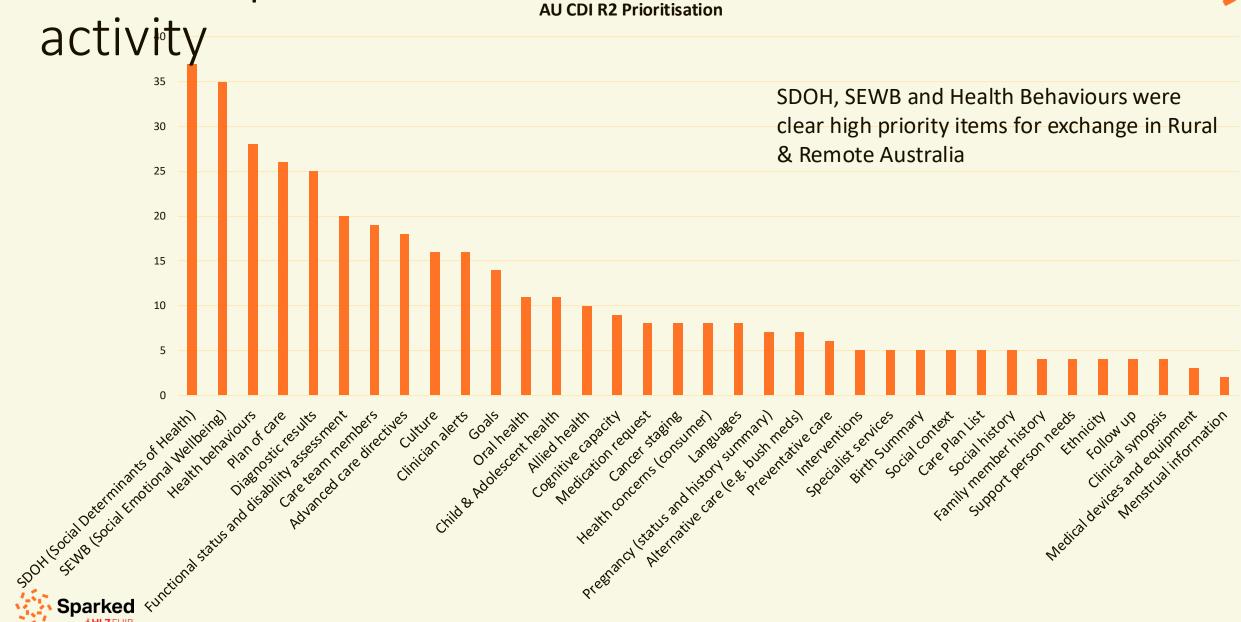


### Gaps identified



# Workshop - Rural and remote - Prioritisation

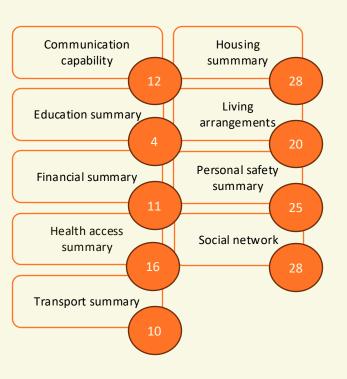




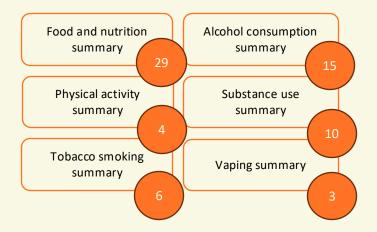




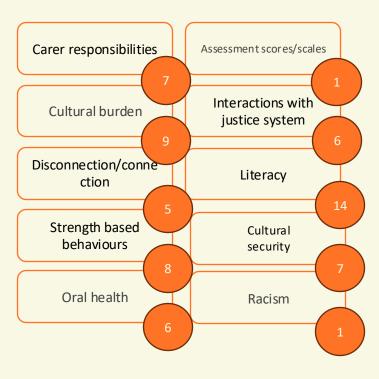
# SDOH topics in the backlog



# Health Behaviour topics in the backlog



### Gaps identified

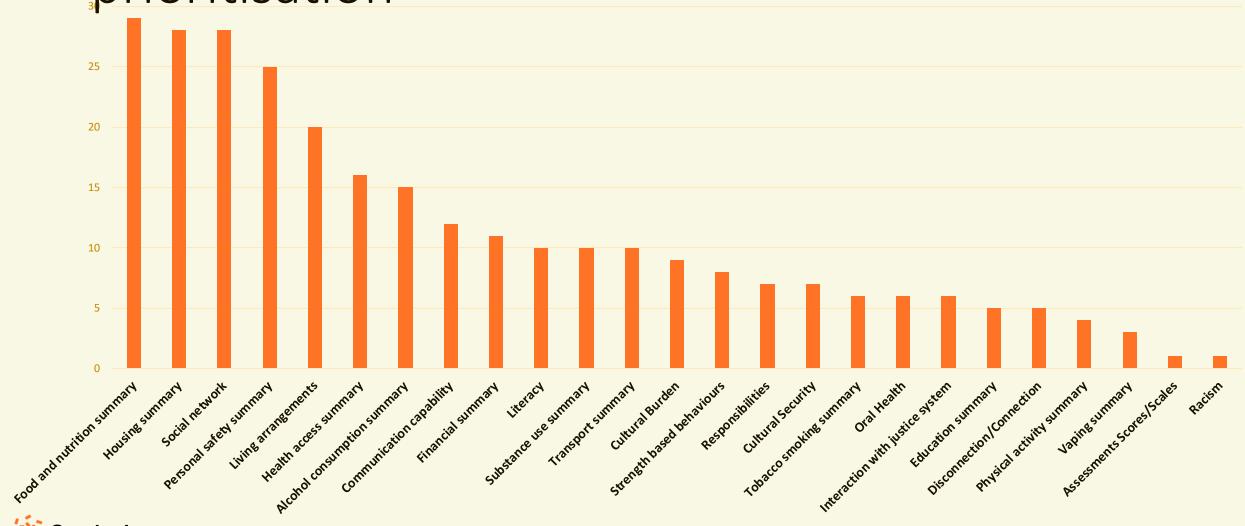




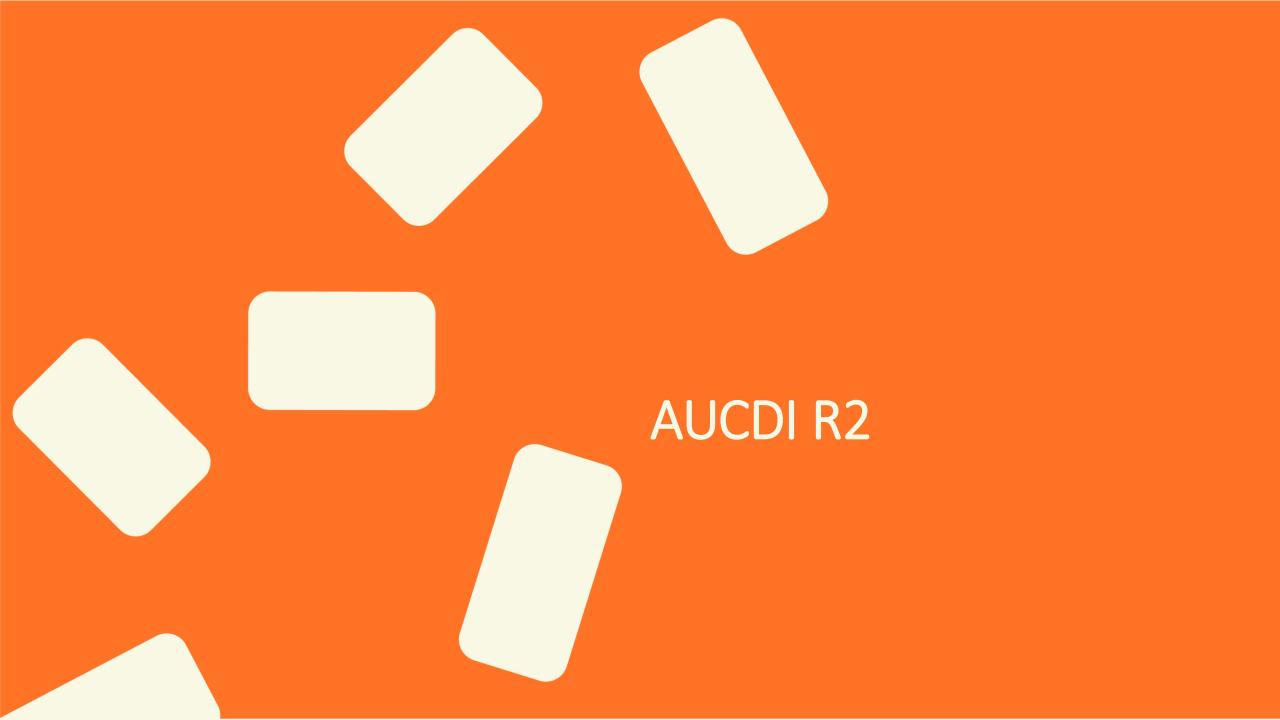
### SDOH, Health Behaviours and SEWB Prioritisation

# Workshop – SDOH, SEWB, Health behaviour

prioritisation







# Summary of use cases identified from both workshops



### **Patient Summary**

Organisation to Organisation Within Sector (e.g. GP to GP) Organisation to Organisation Across Sectors (e.g. Aged Care to Public Hospital)

My Health Record to Consumer App

Patient to International Care

My Health Record to HIE

Consumer to MDT

Patient Summary Attached to Service Request System workarounds when Rural and Remote Areas are cut off Child Development Monitoring – Child Health Record

Sharing Information Across Government Depts (e.g. Children out of Home Care, Prisons)

### **Chronic Disease Management**

Continuity & Co-Ordination of Care Across Time/Location/ Provider Type

Remote Patient Monitoring

Advance Care Directives

Medication Management Patient Care Management Plan (e.g. Mental Health Plan, Chronic Disease Plans)

Setting Goals of Care and Follow Up

Risk Management Value Based Healthcare Patient Self Management

Public Health Ilnitiatives





## $\propto$ 0 extension Ø $\sigma$

#### **Problem/Diagnosis summary** Date/time clinically recognised Date/time of onset Date/time of resolution Diagnostic certainty Method of diagnosis/Clinical evidence Practitioner role that confirmed the diagnosis Qualifiers Resolution phase Severity Staging/grading

#### **Biomarkers**

Creatinine - clearance and serum levels

**ECG** 

Full blood examination/count Lipids

- LDL formula
- Lipoprotein (a)
- TC:HDL ratio

Liver function tests

Fasting insulin **Blood glucose** Folate/B12 Iron studies

Microbiota markers

**Nutrigenomics** 

Thyroid function

Vitamin D

#### **Encounter**

Comment Type of encounter/modality Location/s Outcome

#### Adverse reaction risk summary

Adverse reaction status

Clinical management description Clinical status

Clinical verification

Criticality

Date exposed to substance

Dose/frequency and form

Initial exposure

Method of diagnosis/Clinical evidence

Patient must avoid statement Reaction mechanism

Severity

Status

Timing and duration of exposure

Type/Category Type of reaction

Verification status

reaction event

- Date of manifestation
- Dosage
- Formulation and strength
- Delabelling
- Time/timing exposure to

Adverse reaction – authoring clinician Immunogenic testing

#### Procedure completed event

Description

Intent

**Total duration** 

Location performed

Procedure status

#### **Device**

**Batch Number** Body site

Route of administration

Target disease Vaccine serial ID **Tobacco smoking summary\*** 

Amount

Cessation

Cigarette smoking

Comment

Daily smoking started

Frequency Overall pack years

Pattern Previous episodes of use

Quit date

Regular smoking started

Years of smoking

#### **Medication use statement**

Administration aid

Endpoint

Episode type

First prescribed date/Medication start

date

Identify medications used in combination

Infusion - related data Last administration

Medication Details

Medication details

Medication History concepts

Preferred brand

Regular medication indicator

Status for changes

Reason for prescribing Regular medication

**Batch Number** 

Vital signs

Blood pressure

Position

Body temperature

Oxygen saturation

Comment

Blood glucose

Heartbeat

Body site

Regularity

Rhythm

Respiration

Body weight

• Device

BMI

· Body position

Measurements

Calculated body weight

Pulse

Location of measurement

Method (of measurement)

Ambulatory, acute (exceptional)

Mean arterial pressure

· Location of measurement

Peak expiratory flow rate (PEFR)

Method (of measurement)

Body site

Route of administration

Target disease

Vaccine serial ID

#### Sex and Gender

Sex parameter for clinical use

#### **Vaccination administered event**

Backlog – new items	Advanced care directive	Child & adolescent health	Diagnostic test results  Arterial blood gases Cardiac imagery Colonscopy ECG Full blood examination Gastroscopy Genetic/genomic test results Imaging results Imaging test results — echocardiography Path test results — histology Spirometry	Functional status and disability assessment Cognitive capacity
	Adverse event	Clinical evidence		
	Alcohol consumption summary	Clinical synopsis Author Summary (free text)		Goals Frequency Function impact Measureable time frame/SMART Preventative nutrition goals Relevant supports
	Alternative care (e.g. bush meds)	Clinician alerts		
	,	Communication capability*  Languages spoken Interpreter required		Genetic/genomic test results Genetics Epigenetics
	<b>Birth summary</b> Place of birth		Drug interactions	
	Cancer staging	Contraindication	Education summary*  Education level	Health concerns
	Care pathways	Culture Cultural burden Connection/Disconnection Strength based behaviours Cultural security	Ethnicity* Aboriginal and Torres Strait Islander	Health equity summary* Access of care Distance from care Health literacy/numeracy  Housing summary*
	Care plan		status	
			Family history	
	Care team members  Name Organisation Role Contact CC option	Estimated Date of Delivery (EDD)	Financial summary* Finance Income Social economic (?)  Housing Housing status Rurality  Imaging complete	Housing status
				Imaging completed
			Food and nutrition summary*  Diet Food security	Imaging results
Sparked				Informed Consent

**Functional status and** 

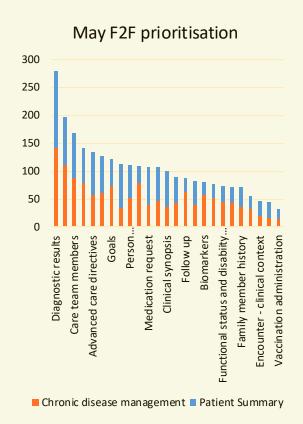
**Informed Consent** 

# new items Backlog Sparked

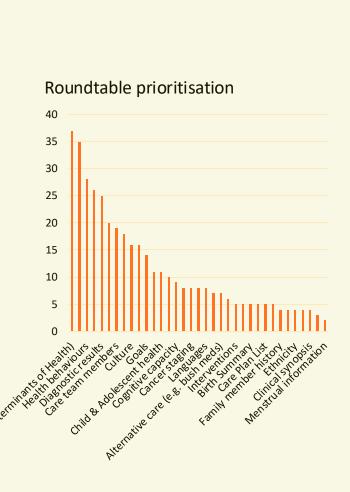
<b>Living arrangements*</b> Household Residential setting	Pregnancy Examinations Progress Risk (level)	Social context Responsibilities Interaction with justice	
Medical devices	Start of pregnancy	Social determinants of	
Medication order	Pregnancy summary	health and Social emotional wellbeing Groups marked with a *	
Medication summary	PREMs and PROMS	Social network*	
Menstrual information	Preventative care	Carer Next of Kin	
Last menstrual period Menstrual status	Product errors	Relationships  Specialist services	
Obstetric summary Gravidity/Parity	Pulse oximetry FiO2 SpO2	Substance use summary	
Occupation summary Occupation	Screening activity	Support person needs	
Oral health	completed   Service request	Transport summary*  Transport access	
Pathology results	Sexual characteristics	Vaping summary	
Personal safety summary*		Vital status	
Childhood trauma	Shock index	Racism	
Physical activity summary*	Side effect register	Nacisiii	

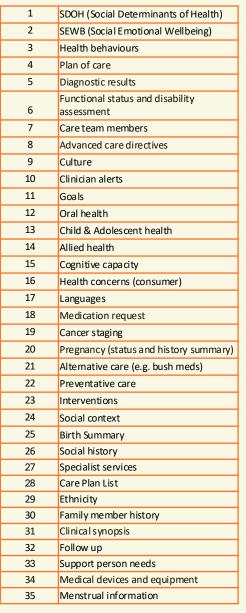


### Prioritisation



1	Diagnostic results	
2	Plan of care	
3	Care team members	
4	Medication statement	
5	Advanced care directives	
6	Pro blem/diagnosis	
7	Goals	
8	Pregnancy	
9	Person information/demographics	
10	Vital signs and measurements	
11	Medication request	
12	Adverse reaction risk summary	
13	Clinical synopsis	
14	Social history	
15	Follow up	
16	Medical device and equipment	
17	Biomarkers	
18	SDOH/Lifestyle	
19	Functional status and disability assessment	
20	Health concerns	
21	Family member history	
22	Social context	
23	Encounter - clinical context	
24	Procedure completed	
25	Vaccination administration	







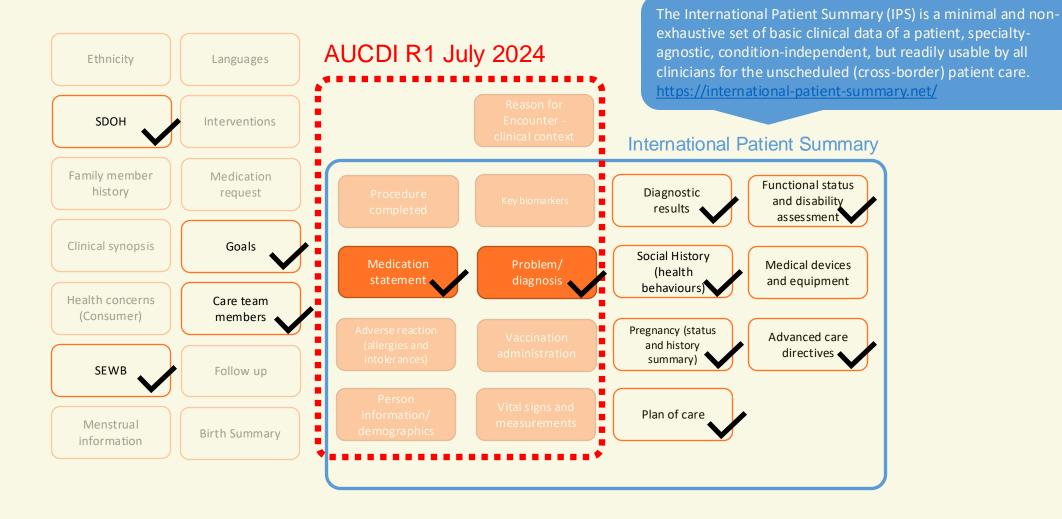
## Bringing them together

Priority data groups (top 12)	Patient summary	Chronic disease management
Diagnostic results*	Υ	Υ
Plan of care*	Υ	Υ
Care team members*		Υ
Medication statement (extend R1)	Υ	Υ
Advanced care directives*	Υ	Υ
Problem/diagnosis (extend R1)	Υ	Υ
Goals	Υ	Υ
Pregnancy	Υ	
SDOH (Social Determinants of Health)	Υ	Υ
SEWB (Social Emotional Wellbeing)	Υ	Υ
Health behaviours (social history)	Υ	Υ
Functional status and disability assessment	Υ	Υ



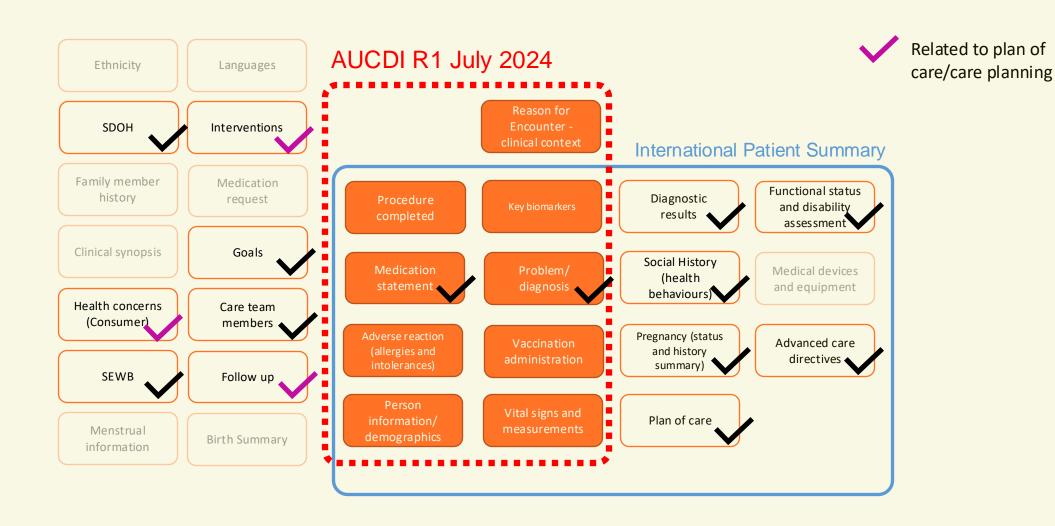


## What this looks like against the backlog













## Questions

- Considering that this is just the starting point to take into our workshop in September
  - What are your concerns?
  - What else should we consider?
  - What additional prioritisation drivers should we consider?
    - Accelerators
      - Patient summary
      - Example: National Lung Cancer Screening Program (launching July 2025)
    - Decelerators
      - Dependencies on other programs of work, policy, etc.
      - Example: SEWB (alignment to MBS715 and national work around terminology)





## Exploring these high-level concepts

- SDOH/health behaviours/SEWB
- Plan of care
- Advance care directives
- Functional status assessments
- Pregnancy

#### **Our challenge:**

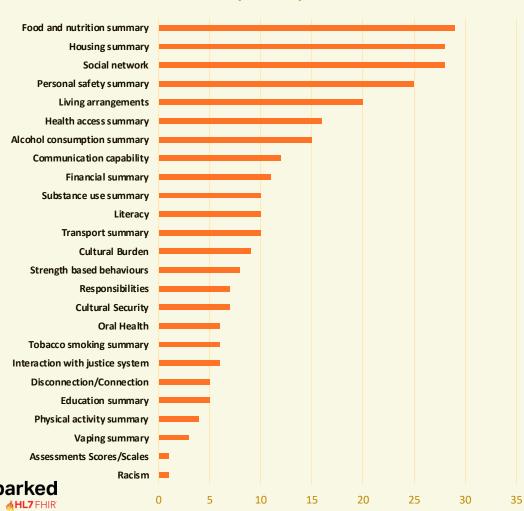
How do we break them down to data groups and data elements?





## Context for R2 'well-being' concepts

SDOH, Health Behaviours and SEWB Voting Results (Darwin)



**AUCDI Release 1 content** 

Tobacco smoking summary

Last updated

IPS content

- Alcohol use
- Tobacco use

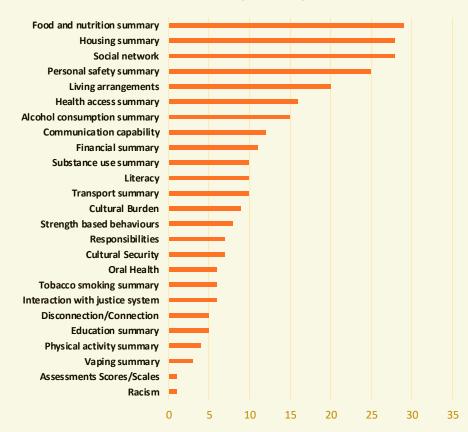
## 'Well-being' concepts – structured, coded

What structured, coded SDOH, health behaviour, SEWB information would be of most benefit?

#### Proposed approach

- Expand
  - Tobacco smoking
- Add new
  - Alcohol
  - Substance use

## SDOH, Health Behaviours and SEWB Voting Results (Darwin)



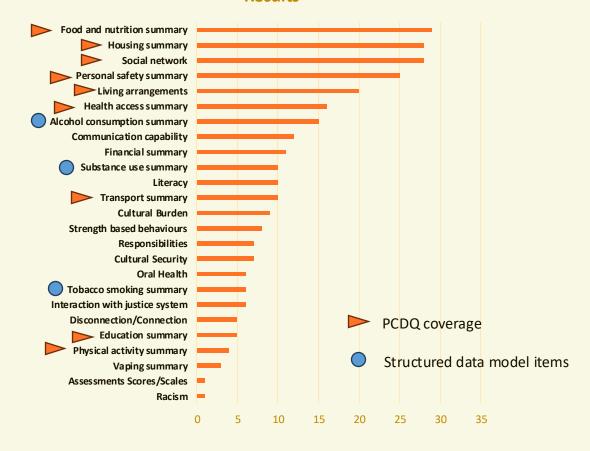


## Social determinants of health, health behaviours, social emotional wellbeing

## During previous work in the Primary care data quality (PCDQ) project – looked at

- Physical activity summary
- Food and nutrition summary
- Sexual health summary\*
- Gambling summary\*
- Housing summary
- Living arrangement summary
- Social network summary
- Transport access summary
- Personal safety summary
- Education summary
- Occupation summary

### SDOH, Health Behaviours and SEWB Voting Results





## R2 well-being proposal – narrative

#### Pattern 1

- <XYZ concept>
  - **Description** narrative
  - Last updated

'XYZ concept' narrative only

Last updated

#### Possible concepts

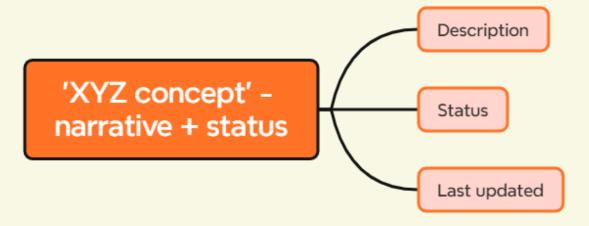
- Living arrangements summary
  - Living alone or with others
- Occupation summary
- Education summary
- Communication capability
- Physical activity summary
- Literacy summary
- Gambling summary
- Sexual health summary



## R2 well-being proposal – status + narrative

#### Pattern 2

- <XYZ concept>
  - Description narrative
  - Status
  - Last updated



#### Possible concepts

- Diet and nutrition summary
  - Food security
- Housing summary
  - Housing security
- Social network summary
  - Social connectedness
- Financial summary
  - Financial security
- Personal safety summary
  - Personal safety
- Transportation summary
  - Transport security
- Healthcare access summary
  - Health access



## Proposed approach

#### Use the two patterns as a first step to represent

- Physical activity summary
- · Food and nutrition summary
- Sexual health summary
- Gambling summary
- Housing summary
- Living arrangement summary
- Social network summary
- Transport access summary
- Personal safety summary
- Education summary
- Occupation summary
- Health access summary
- Financial summary
- Literacy
- Communication capability

#### Proposed approach

- Use the two patterns as a first step to represent the SDOH identified
- Coordinate and synchronise with the ongoing development of SEWB terminology within ACCHOs and the National guide to a preventive health assessment for Aboriginal and Torres Strait Islander people program run by the RACGP-NACCHO partnership



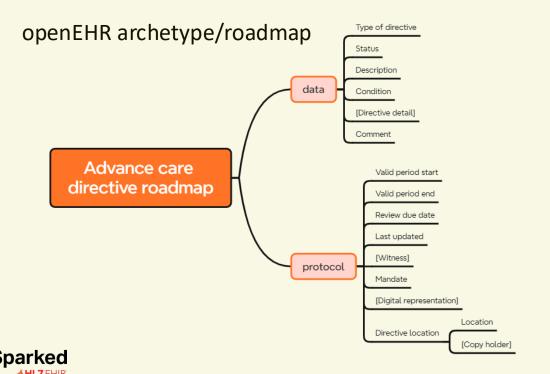
## Advance care directive

#### My Health Record

- Digital representation (PDF)
- Custodian details

#### **IPS**

Advance directive - The advance directives section contains a narrative description of patient's advance directives.



#### Proposed approach

Start with a simple model as first step

- Status
  - o present/absent/unknown
- Directive location (Custodian details)
  - Physical/digital location
  - Copy holder
- Last updated



## Plan of care

#### **IPS**

Plan of care - The plan of care section contains a narrative description of the expectations for care including proposals, goals, and order requests for monitoring, tracking, or improving the condition of the patient.

- AUeReqDI (reuse and extend)
  - Service request
    - Follow-up
- AUCDI backlog
  - Goal\*
  - Health concern\*
  - Care team member
  - Intervention
  - Follow up

#### Proposed approach

- Explore related items from backlog
- Investigate other items required for a care plan

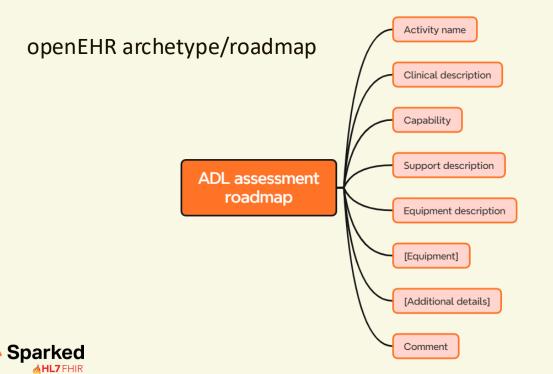




## Functional status assessment

#### **IPS**

The functional status section contains a narrative description of capability of the patient to perform acts of daily living, including possible of the patient to be continuously assessed by third parties. The invalidity status may in fact influence decisions about how to administer treatments. Profiles to express disabilities and functional assessments will be specified by future versions of this guide.



#### Proposed approach

- Explore Activities of Daily Living (ADL)
   assessment roadmap for inclusion
- Consider other functional status assessments, comprehensive assessments, aged care transfers, score and scales in common use

## Pregnancy domain

#### Pregnancy test result

- Self-test result
- Date of observation

#### EDD

- By date of conception
- By cycle
- By ultrasound
- Agreed EDD
- Last updated

#### Last menstrual period

- Date of onset
- Certainty
- Last updated

#### Pregnancy assertion

- Finding
  - Pregnant/Possible pregnancy/ Not pregnant/Unknown
- Evidence
- Date of assertion

#### Current pregnancy phase

- Status
  - Preconception/Pregnant/Postpartum
- Last updated

#### Menstrual summary

- Menstrual status
  - Premenarchal/Premenopausal/ Perimenopausal/Postmenopausal
- Menarche
- Menopause
- Typical pattern of menstruation
- Last updated

#### Menstrual cycle event

- Start
- Duration
- Description
- Relative flow
- o Clots
- Date of observation

#### Obstetric summary

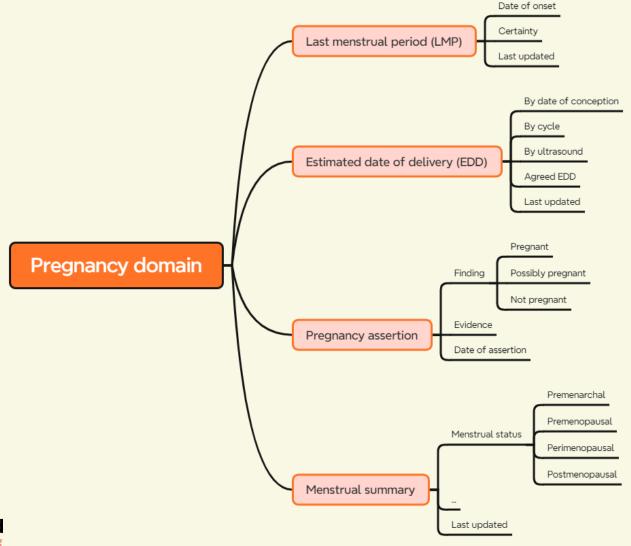
- Gravidity
- Parity
- Term births
- Miscarriages
- Live births
- Stillbirths
- Caesarean sections etc
- Last updated

#### Pregnancy summary

- Synopsis
- Pregnancy outcome
- Pregnancy duration/gestation
- Pregnancy end date
- Number of foetuses
- Onset of labour
- Induction method
- Reason for induction
- Total duration of labour
- Estimated blood loss
- Place of outcome
- o Maternal complication
- o Per infant
  - Label/name
  - Delivery outcome
  - Neonatal outcome
  - Date/time of delivery
  - Presenting part
  - Position
  - Birthweight
  - Feeding
  - Neonatal summary
  - Infant complication



## Proposed pregnancy domain scope



#### Proposed approach

 Begin with Pregnancy items identified during AUeReqDI work



## Summary of proposed approach for AUCDI R2

Topic	Proposed approach
Social determinants of health, health behaviours, social emotional wellbeing	<ul> <li>Expand tobacco smoking, add alcohol and substance use</li> <li>Use the two patterns as a first step to represent the SDOH identified</li> <li>Coordinate and synchronise with the ongoing development of SEWB terminology within ACCHOs and the National guide to a preventive health assessment for Aboriginal and Torres Strait Islander people program run by the RACGP-NACCHO partnership</li> </ul>
Advance care directive	Start with a simple model as first step
Plan of care	<ul> <li>Explore related items from backlog</li> <li>Investigate other items required for a care plan</li> </ul>
Functional status assessment	<ul> <li>Explore Activities of Daily Living (ADL) assessment roadmap for inclusion</li> <li>Consider other functional status assessments, comprehensive assessments, aged care transfers, score and scales in common use</li> </ul>
Pregnancy	Begin with Pregnancy items identified during AUeReqDI work



## Next CDG in September 2024 in person

- AUCDI R2 focussed around
  - Patient Summary
  - Reason for Encounter
  - Chronic Disease Management
- eRequesting
  - Workshop
    - Visual representation of data model and terminology value sets

- AUCDI R2 Homework
  - Consider discussions from this meeting
  - Program and Policy
    - Programs of activity around transition of care, other related work
    - Policies (Colleges, business)
    - Future foundation
  - Data requirements
    - For each of the use cases, what are your priority data points?
      - Core of the core
      - Data points that sit across all the use cases
      - Consider the data points required to support the level of detail
      - Additional accelerators/decelerators







## Sparked Evaluation

#### **CSIRO** Evaluation

#### **CSIRO Evaluation Team**

to ensure Sparked is fit for purpose and is serving the community's needs

#### **DoHAC Evaluation**

## Independent external evaluation

to examine the broader Sparked deliverables and policy perspectives

#### Why should you participate?

- Influence what's needed to improve the community process
- Support our agile way of working so we can adapt
- Contribute to the global benchmark of what success looks like for a national accelerator
- Shape the future direction for creation and adoption of FHIR standards in Australia





## CSIRO Sparked Evaluation Update

The CSIRO AeHRC is continuously evaluating the effectiveness of Sparked to inform improvements and changes to the accelerator



Interviews

2024

Jan - March



Publish interview findings

#### **Late 2024**

- Journal publication
- CSIROReport



Survey

#### 2024

- September
- December

#### **2025**

June



**Publish findings** 

#### **Early 2026**

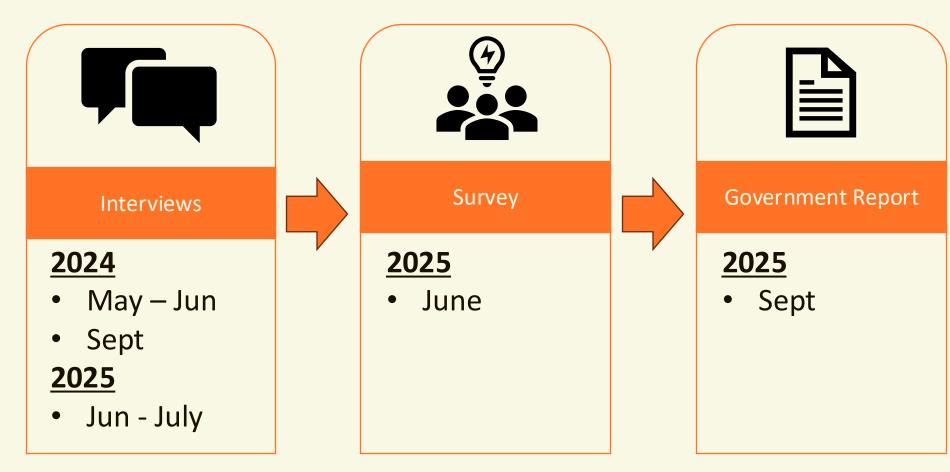
- Journal publication
- CSIRO Report





## DoHAC Evaluation Update

DoHAC have selected Voronoi as an independent evaluator of the Sparked accelerator







## Upcoming items

- Webinar
  - August 28 Sparked Program Update focused around FHIR and lessons learned from implementers
- Next face to face meeting
  - 11/12 September 2024 in Brisbane



