

Data Usability Work Group June 10, 2021



Agenda

- Welcome, Introductions, Membership, Agenda David Camitta
- Workgroup Logistics David Camitta
- Data Usability Workgroup Collaborative Forum Bill Gregg
- Data Usability Workgroup Phase 1 Recap & Charter Changes Bill Gregg
- Phase 2 Implementation Guide Development Process Bill Gregg
- Workshop Recap and Discussion Q&A David Camitta & Bill Gregg
- Questions/Next Steps



David Camitta, Co-chair CommonSpirit Health



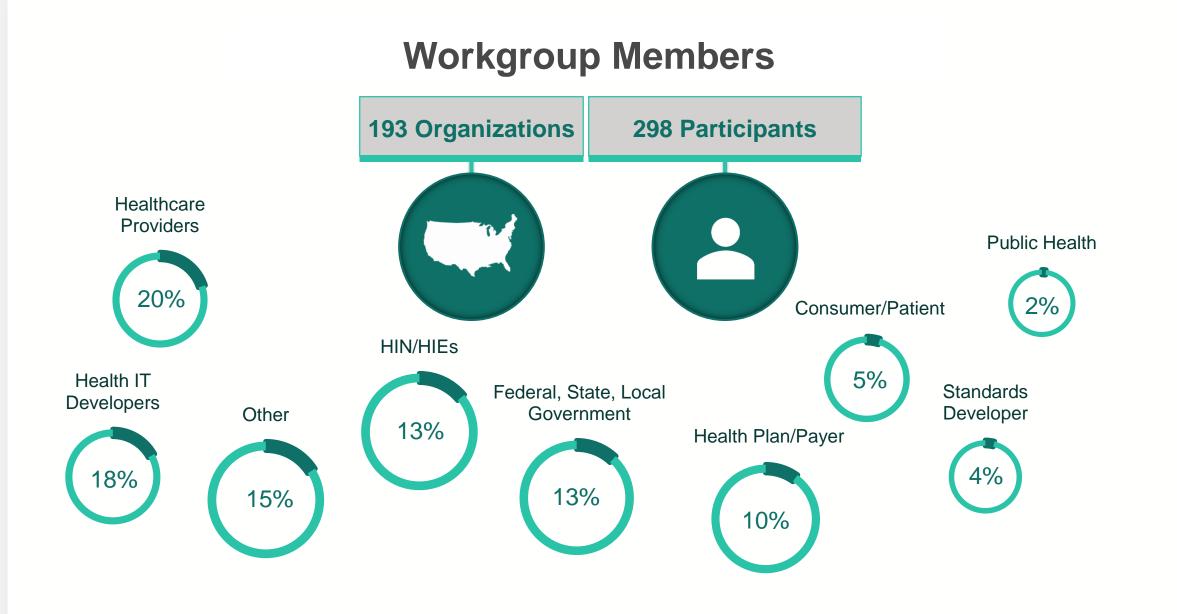
Bill Gregg, Co-chair HCA Healthcare



Mariann Yeager, CEO The Sequoia Project



Didi Davis, VP The Sequoia Project



The Sequoia Project's Members





Interoperability MATTERS



- Audacious Inquiry
- CA Emergency Medical Services Association
- ConSensys Health
- Cureous Innovations
- Hawaii HIE
- Health InfoNet

- Innovaccer
- CVS Health
- Mayo Clinic
- Virginia HIE

Interoperability MATTERS

Website Update and Meeting and Workgroup Logistics

Four Work Phases
The Interoperability Matters Leadership Council chartered the Data Usability
Workgroup to work in the following phases:

PHASE 3

Steps

Public Comment Period/

TBD, based on end of

Recommended Next

Phase 2-60 days after start

PHASE 4

Guides

start]

Finalizing

Implementation

[TBD, based on end of

Phase 3]-[3 months after

PHASE 2

Drafts

2021

Developing Initial

April 2021-November

iew Meeting Notes

Register for the Workgroup

Data Usability Wo kgroup

- Calendar Downloads
- Meeting Notes

WEBINAR

Workgroup Meetings, Second Thursday of Each Month at 3:00 p.m. ET

For phase 2, the workgroup will meet the second Thursday of each month at 3:00 p.m. EDT beginning April 2021 through December 2021. We will strive to post the meeting materials for each meeting the day before, and upload meeting recordings within 24 hours.

Meeting Materials and Recordings

Phase 2

Apr 15: Meeting Notes	•
Apr 8: Meeting Notes	•
Apr 1: Meeting Notes	•
Phase 1	
Mar 25: Meeting Notes	•
Mar 18: Meeting Notes	•
Mar 11: Meeting Notes	•

https://sequoiaproject.org/interoperability-matters/data-usability-workgroup/

PHASE 1

(Current)

Administration ar

October 2020-March 202

View Meeting Notes

Prioritization

sequoia

Data Usability Workgroup Forum – Please Respond

Data Usability Workgroup Forum		How does your organization exchange data today with consumers?	
	orkgroup meeting, the co-chairs will suggestion discussion topics e contribute your thoughts in the below message forum.	How does your organization exchange data today with consumers? o HL7v2 Hera o HL7-CDA Ashraf o HL7 FHIR o Other: please describe	
Торіс	Posts Last Post	Reply To: How does your organization exchange data today with consumers? Your information:	
How does your organization exchange dat today with consumers?	ta 3 2 weeks ago	Name (required): Mail (will not be published) (required):	
How does your organization exchange dat today with providers?	ta 1 1 month, 1 week ago	B / UNK BQUOTE DEL IMG UL OL LI CODE CLOSETAGS	
How does your organization exchange dat today with public health ?	ta 1 1 month, 1 week ago		4
		I'm not a robot	
	https://sequoiaproject.org/interoperability-m	matters/data-usability-workgroup/	

Back to Data Usability Workgroup Forum
Data Usability Workgroup

Data Usability Workgroup Links/Materials

- The Leadership Council was updated on the Workgroup efforts on 6/9/21
- Reference Links to Work Completed to Date
 - Data Usability Google Folder
 - Proposed Work Items
 - Category Prioritization Responses Google Spreadsheet
 - 48 Responses Received Ranked
- The Charter was updated to focus on one implementation guide to cover three use cases instead of the three IGs originally proposed

Phase 2 Implementation Guide Development Process

- 1^{st.} Workshop held June 1, 2021 1:00pm 2:30pm EDT
 - Goal to gather input from practicing clinical users
 - 23 attendees (provider/clinicians) provided input to the priority categories
- Co-chairs and staff will start to organize and gather the content for the 7 topic areas
 - Identify existing specs/tools that are "in the portfolio" already
 - Document other aspects to be considered for the solution
 - This will be documented in the existing Google docs for the work items
 - Agendas will be formulated in advance to enlist participation
 - Community Collaboration space to be added to the website
 - Polling and other threads to enlist member input between monthly meetings (please engage)

Data Provenance and Traceability of Changes

There are many things that can happen between a clinician documenting a piece of clinical data in one system, and you seeing that data in your own system. "Provenance" refers to the origin of a piece of data and what has happened to it as it has been transmitted between systems, which may include the name of the clinician who originated a piece of data, their organization, or modifications that have been made to the data.

- Is it important for you to know all users who have touched/reconciled the information, only the originator or only the most recent?
 - Does this requirement change for different types of data -- e.g. labs vs.
 Problems/diagnoses
 - What do you consider important provenance information: the clinician's name, credentials, specialty, the name of the hospital or clinic?
- Which situations are the most important for receiving an updated piece of clinical data?

Effective Use of Codes

When a system sends clinical data to another system, it can include references to external "Code Sets", such as LOINC, CPT, or CVX. This allows the receiving system to map the data, a medication for example, to the local representation of that element, which in turn allows the data to be "understood" by the receiving system. Coded data can be more easily incorporated into clinical decision support and may make reconciliation, tracking, trending and searching easier.

- As a recent use case: What has been the most difficult part of integrating outside COVID data tests, diagnosis, and/or immunizations, etc., into your workflow?
- What data types(e.g. Labs, radiology, PAMI) from *outside sources would be* most useful in your practice if they could be used in automated decision support, graphing for trend or other data visualization tools and medical decision making within workflow.
- Is it valuable to prioritize specific data elements to be more reliably encoded (e.g. common lab tests), if it means getting Clinical Decision Support for those elements more quickly and for easier integration and use at the point of care within clinical workflow?

Reduce the Impact of Duplicates

When clinical data is exchanged between multiple systems duplicate information is a frequent occurrence. Commonly this is the result of receiving the same information from more than one external organization. Unidentified duplicate information takes clinician time to filter and reconcile and can make it harder to find the most up to date information about a patient.

- Where do you see the most significant problems with duplicate data -- Problems, Meds, allergies or labs? Other data types, e.g., Immunizations, social or other historical elements?
- Balancing reduction in duplicates with risk of information loss and patient safety concerns can be a challenge -- would you prefer automation to remove specific duplicate data types altogether or collapsing them together and showing number of instances (e.g. Diabetes mellitus Type 2 (10 instances)?
- Do you see duplicate information as a universal problem or variable from one organization to another?
- Are there specific data types or scenarios in which safety concern is the highest when considering automated de-duplication?

Data Tagging/Searchability

 The Longitudinal Record, defined as a patient summary and one encounter summary per encounter, is a valuable artifact for understanding the chronology of a patient's care journey. The default content, however, can contain more information than is applicable to the clinical goals of the requestor. The quantity and quality of content can make it difficult to understand the context around particular pieces of data that are of interest and the connection between pieces of information in different sections of the document.

- What important types of information are easily available, searchable and filterable in your current EMR but you find hard to find or understand when looking at data from other systems?
- Is there data that you would like to be able to temporarily filter out when looking at Patient Summaries or Encounter Documents?
- How would you envision optimal filtering and searching of external summary data to incorporate and improve clinical usability at the point of care?

Specific Domain Guidance for Usability

We send different types of documents in different clinical scenarios. These different documents contain different types and quantities of information. For instance, in a clinical summary we might only include labs that were resulted within a certain time frame.

- Have you encountered 'gaps' in information received in which a standard minimum amount of information would be useful?
- Are there situations you've noticed where excessive information is included in a document and summarized data would be more useful? For instance, averaged or summarized vitals measurements for an inpatient stay, or admission and discharge labs?

Effective Use of Narrative for Usability

Current document formats tend to prioritize 'discrete' data elements that are easy to store and understand individually over longer format narrative information that better captures the 'story' of the patient. Improving our ability to send and include that information in ways that are easily digestible by receiving organizations and clinicians can significantly improve patient care.

- If it is available, should a clinical narrative always be included when primarily discrete information is shared (e.g. automated summaries of care)
 - Are there specific scenarios where this is more useful?
 - In what ways can context between narrative and discrete data be improved in external summaries/documents to easily tell the patient's story, integrate and support clinical decision making within workflow?

Data Integrity and Trust

Differences in quality and interpretation of data coming from different sources lower the level of trust in data. For example, differences in lab methodology can make interpreting values and reference ranges from external sources difficult. Even for values received with codes, different organizations might interpret codes differently or context may be lost in mapping to concepts internal to an organization.

- What factors cause you to mistrust data?
- Are there scenarios where you have strong trust for external data?
- How do you weigh the value and trust of data from different sources? Payers / Clinical? HIEs? Registries?
- Does trust vary by data type?
- Would it be helpful to know that data had been previously reviewed by a clinician at another org?





Data Usability Work Group

For more information:

www.sequoiaproject.org/interoperability-matters/data-usability-workgroup/

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Convene Collaborate Interoperate

Thank You for your support of Interoperability Matters!