



Canada Health Infoway

January 2022 – HL7 WGM

Joanie Harper, Specialist, Standards
Ron Parker, Chair HL7 Canada

WGM Fun Facts

There were 485 attendees.

Together they attended an average of 1,678 meetings a day.

Cumulatively attendees spent 5,193 hours and 52 minutes in Zoom meetings.

The vast majority came from the US, with Canada, The Netherlands, and Germany taking the next three spots.

63% of our audience uses Windows, 18% are on Mac, the rest are using either iOS, Android, or Linux at around 1%.

Jan 2022
HL7 Work Group Meeting

General Sessions



Chair's Report - Andy Truscott

The Re-Envisioning HL7 Strategy *Bold Principles*

Task Force developed
Five Bold Principles:

- Serve as anchors for the Re-envisioning HL7 Strategy recommendations and action plan
- Endorsed by the HL7 Board in July 2020

BOLD PRINCIPLES



Changes to the Board

- Andy Truscott is the new Chair
- Walter Suarez is now the Vice Chair
- Wayne Kubick is now retired
- New Executive Positions
 - Daniel Vreeman - Chief Standards Development Officer
 - Viet Nguyen - Chief Standards Implementation Officer
 - Diego Kaminker - Deputy Standards Implementation Officer
- New board members
 - Ron Parker
 - John Loonsk

CEO Report – Chuck Jaffe

The Past is Preamble *2021 was a Remarkable Year*

- Virtual WG meetings & Connectathons had record turnouts
- Change became a byword
- HL7's technologies were re-envisioned
- Diversity & Inclusivity got a new coda
- The International community grew in reach and influence
- FHIR Accelerators grew in members and stature
- Government agencies embraced HL7 specifications
- HL7 prospered in the time of global tragedy

Growing the Community

- We welcome our new executive leadership – Dan, Diego, and Viet
- The Implementation Division expands our mission.
- New FHIR Accelerators (Helios & FAST) deliver expertise.
- Federal agencies expand their commitment to HL7 FHIR
- New education portals (HIMSS & HDM) forge unique opportunities.
- Existing vendors develop new solutions. Newly committed vendors challenge HL7 with unique approaches to patient engagement.
- Security & Privacy bring new challenges.
- Addressing the data needs during the pandemic heightens the commitment of new organizations.
- Growing the international community becomes a major priority.

Collaboration with Difference Makers

- AMA has a new vision.
- AMIA embraces an old partner.
- CHIME expands the reach of CIOs.
- ISO rethinks its model for collaboration.
- NIH identifies new opportunities.
- OHDSI builds upon its global standard.
- Sequoia envisions a critical roadmap.
- SMART grows its implementation portfolio.

TSC Report – Austin Kreisler

TSC Personnel Changes for 2022

- Retiring – Wayne Kubick (CTO)
- Individuals rolling off the TSC
 - Paul Knapp
 - Tony Julian
- New TSC Vice Chair – Jean Duteau
- New TSC Members
 - Dan Vreeman (CSDO)
 - Abdul-Malik Shakir
 - Gora Datta
 - Rick Geimer

CSDO Update

International Council Meeting

2022 01 26

Daniel J. Vreeman, PT, DPT, MS, FACMI
Chief Standards Development Officer



Hi, I'm Dan@HL7.org



Physiotherapist, biomedical informatician, standards aficionado

Unusual, I know.

For 13+ years I led development of LOINC at Regenstrief

At RTI International, I led interoperability projects

I've been involved with HL7 my whole career

My Background

Principles for Open Terminology Development

LOINC[®]
from Regenstrief

Openness

Pragmatics

Respect

Agility

Accessibility

Diligence

Growth

Principles from Re-envisioning HL7

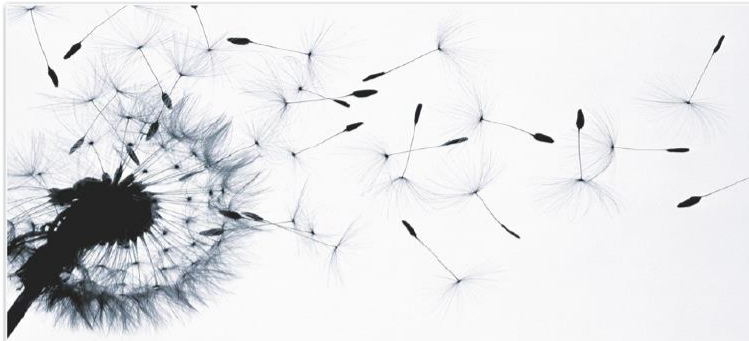
Focus

Global relevance

Agility

Sustainability

Community



GETTING TO MAYBE: THIS BOOK IS FOR THOSE WHO ARE NOT HAPPY WITH THE WAY THINGS ARE AND WOULD LIKE TO MAKE A DIFFERENCE. THIS BOOK IS FOR ORDINARY PEOPLE WHO WANT TO MAKE CONNECTIONS THAT WILL CREATE EXTRAORDINARY OUTCOMES. THIS IS A BOOK ABOUT MAKING THE IMPOSSIBLE HAPPEN
HOW THE WORLD IS CHANGED.

“ Indeed, one might say that as an innovation is successful, it redefines the landscape in which it has emerged, assuring that its immediate success is short-lived even as the foundation has been laid to take on new challenges.

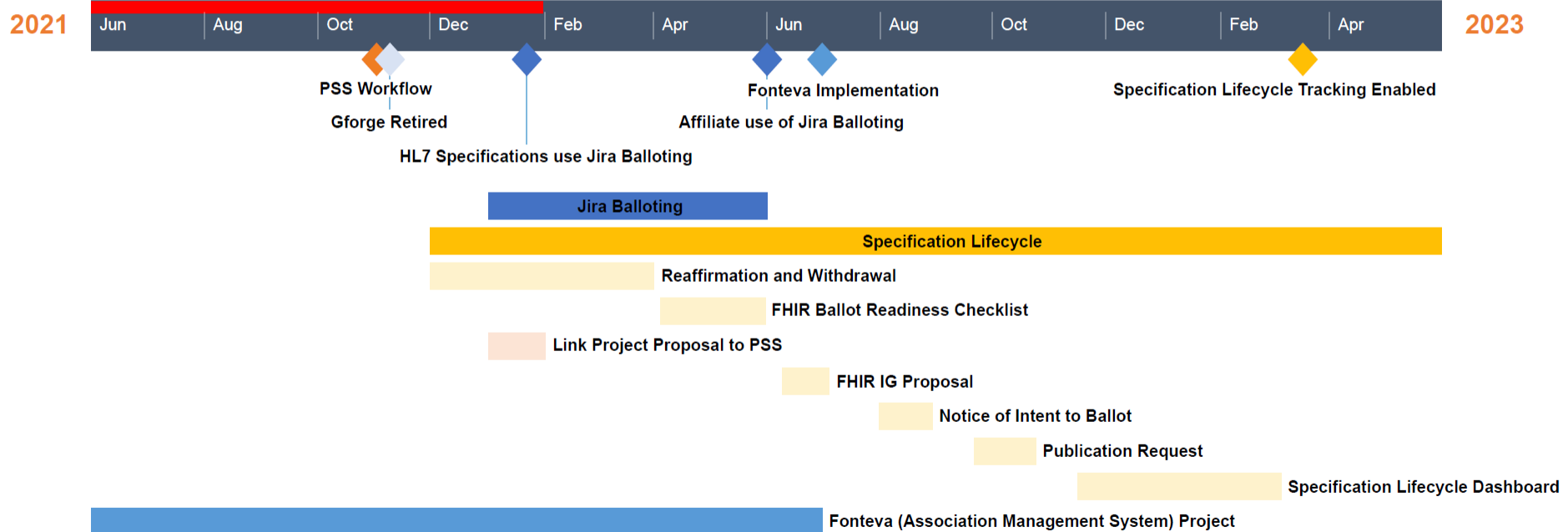
Upcoming themes

- Communicating with clarity
- Lowering barriers to action
- Needs-driven, forward focus
- Global community creating public goods
- Virtuous and seamless collaboration between standards development and standards implementation

Standards that get used get better.

paraphrased from Donald A.B. Lindberg, MD

Process Improvement Roadmap



Standards Implementation Division Update

Viet Nguyen, MD
Chief Standards
Implementation Officer
viet@hl7.org

Diego Kaminker
Deputy Chief Standards
Implementation Officer
diego@hl7.org

Our Mission

Help communities to discover, access, and understand the specs, and test the implementations.

or... CLOSE THE CHASM BETWEEN HL7 SPECIFICATION AND IMPLEMENTATION*

Aligned with the five principles for Re-Envisioning HL7

Focus: Initially, on FHIR + bridging HL7 V2.x/CDA R2 to FHIR

Agility: from the requirements to the wire, as fast as possible with the right amount of rigour/QA. Close collaboration with the SDD.

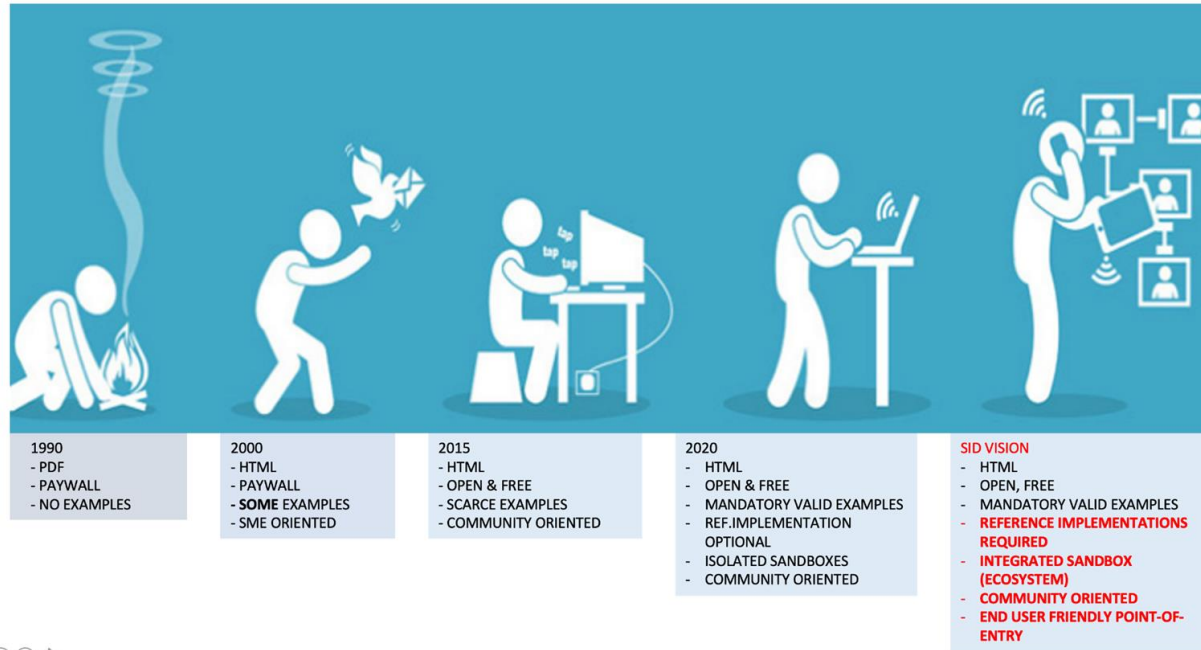
Global Relevance: Our perspective will begin and remain global. Each SID program need to be **adapted and/or adopted** locally by national affiliates or multilateral organizations

Sustainability: The SID will be self-sustainable. If possible, each SID program will be self-sustainable. Nothing is free.

Community: Hearing the voice of our community inside HL7, but always trying to expand to new stakeholders all along the spiral. Our mandate is: **“LISTEN TO THEM FIRST!”**

Our Vision: How to Close the Chasm

The Evolution of the HL7 Specification



How to Achieve HL7's Mission and Vision

Our aim is to create a cohesive set of programs - we call them 'VALUE PROPOSITIONS' and will launch them in phases, beginning in Q1 2022

Note: **The list of programs and staging priority is still under evaluation**

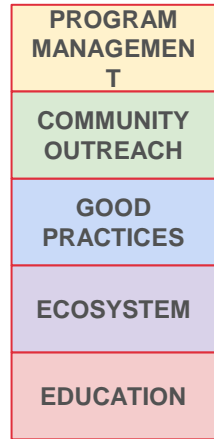
Most of them are evolutions of what we are already doing...to some degree

- **EDUCATION PROGRAMS** (Certification Testing, Credentialing, Partnering)
- **REFERENCE IMPLEMENTATION PROGRAMS** (Dynamic/Continuous API Tests -beyond examples and Connectathons, Sandbox -> **Ecosystem**)
- **IMPLEMENTATION PROGRAM MANAGEMENT** (Accelerators, IG QA Stamping)
- **GOOD PRACTICES PROGRAMS** (Playbooks "from the spec to the wire", Cybersecurity)
- **COMMUNITY OUTREACH PROGRAMS** (Access and Discovery of the Specs, Proactive outreach of specific stakeholders, Special Events)

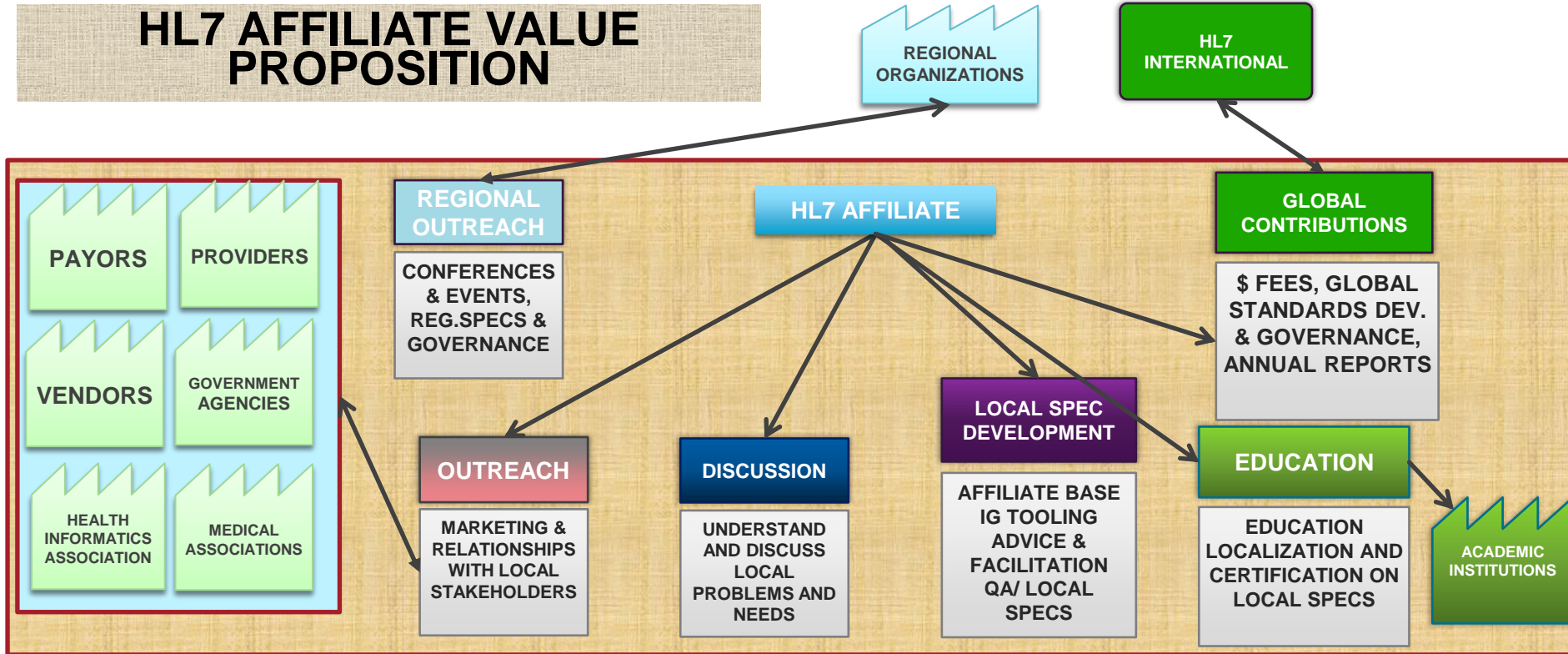
Our view is holistic

- To achieve success every implementation project will surely need some combination of these services, but we do not want to choke the market.
- **Organizations should have a path for progressive adoption of these programs.**

We understand that **HL7 cannot launch everything at the same time**



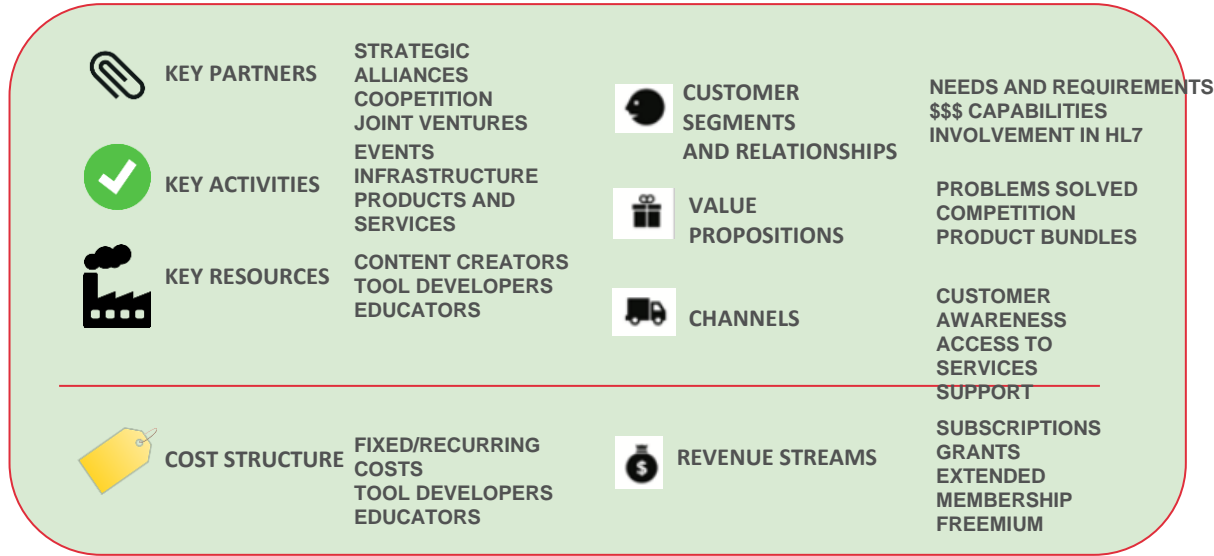
HL7 AFFILIATE VALUE PROPOSITION



Progress to Date

- In the last 2-3 months we've met to define some key points
 - The methodology for **developing the value proposition** (Tools and process)
 - **Relationship** between the SID and SDD (incl. meetings with Dan Vreeman)
 - **Scope of work** (with invaluable help from the Focus group)
 - How to get **feedback from the community**. Not as much as we wanted because of the 'search process' and 'sensitivity of the announcements' delay.
 - We received dozens of emails from different vendors and stakeholders, and questions in every HL7 meeting we participated on.
 - **We will be free to openly talk...and then listen, after this week's BOD meeting and further communications.**
 - Advancing ongoing projects (**Education Programs, Ecosystem RFI**)

Developing our Business Model: Strategy



OUR PROCESS: APPLY THIS MODEL AND TOOLING TO EACH ONE OF OUR PROGRAMS BEFORE PRIORITIZING AND LAUNCHING.



Timeline

- 2022-Q1
 - Initiate and oversee activities that have begun (e.g. Initial ecosystem components, Education programs)
 - Community engagement to elaborate on the services of the division
 - Develop financial model
- 2022-Q2
 - Continue to implement and grow activities from Q1 as articulated and prioritized by the community
 - Document organizational, operational and financial model

2022 Q1

- **Ecosystem :**

- Ecosystem RFI and engage community and vendors
- Sandbox transfer and continuity
- Establish funding and sustainment model, governance

ECOSYSTEM

- **Program Management Services:** for Helios and FAST

PROGRAM
MANAGEMENT

- **Education:** Certification/Credentialing/Partnerships

EDUCATION

- **Outreach:** Evaluation of Marketing and Communications

- **Community Engagement:** to elaborate the remainder SID programs and a long-term financial model

COMMUNITY
OUTREACH

2022 Q2

- Transform input from Q1 and document plan with financials
- **Ecosystem** - Implement governance, add components, plan pilots
- **Program management**
 - Establish services for Accelerators
 - Plan menu of services offered to broader community
- **Education**
 - Establish partnership programs with member, academic, professional and industry orgs
- **Outreach**
 - Reinvigorate established relationships and promote new services
 - Identify additional communities for engagement
- Deliver SID Plan and financial model by end of 2022Q2

International Council Report – Line Saele

International Council Updates Since Sept WGM

- Since last WGM, one Virtual IC meeting on Nov 17th
 - 5 virtual meetings a year alternating across international time zones
 - Next meeting January 26th
- Updates on Affiliate perspectives of the HL7 Re-envisioning Task Groups
 - Re-envisioning will impact HL7 Affiliate agreements for 2022 - 2023
 - Existing Affiliate Agreements rolled over 1 more year
- Global Advocacy Strategy – Policy Advisory Committee (PAC)
 - To engage in conversations with Policy Makers on a Global Scale
- Next out-of-U.S. HL7 international meeting likely in 2023

Education Report

Listening Session Feedback

- Low cost online asynchronous and self-paced courses
- Courses with a more reasonable pricing structure
- More Affiliate involvement in standards development process
- More training and educational courses for Affiliates
- Train the trainer program
- Help transitioning from V2 to FHIR

Education Report

- 2022 Education Catalog: <https://www.hl7.org/training/calendar.cfm?ref=nav>

2022 Synchronous Online Classes

Overview of HL7 Standards for Interoperability (3 hrs.)	Feb 2, 3
Applied FHIR for Designers (6 hrs.)	Feb 15, 16, 17
Clinical Quality Language (4.5 hrs.)	Mar 8, 9, 10
HL7 FHIR for Healthcare Information Analysts (16 hrs.)	Mar 28, 29, 31 & Apr 1
FHIR Bootcamp (12 hrs.)	Apr 12, 13, 14
Applied FHIR for Software Developers (6 hrs.)	April 26, 27, 28

Education Report

2022 Asynchronous Courses

- HL7 Fundamentals – Feb 10, May 28, Sep 8
- HL7 FHIR Fundamentals – Mar 11, Jul 14, Oct 27
- HL7 FHIR Intermediate – Feb 17, Jun 2, Sep 15
- HL7 FHIR Exam Prep – Mar 3, Jun 16, Sep 29
- V2 to FHIR Conversion: Comprehensive Mapping Approach from V2 to FHIR (New)



Education Report

2022 Seminar Series

- Asia Pacific Time Zone
- Recorded Lectures of synchronous online classes
- Live Q&A Session
- Example:
 - Feb: FHIR for Designers class in US ET
 - April: FHIR for Designers Q&A in ASPT



Participants are given access to the recorded lectures one week prior to the start of the course. Then there is a live Q&A session. The instructor for the course will be different than the instructor leading the Q&A.

Education Report

Certified Educators Program

- Recognizes educators who demonstrate excellence as both HL7 instructors and HL7 SMEs
- Accepting applications now
- Visit [HL7.org](https://www.hl7.org)
- From training tab on top
 - Select Certified Educator Program



Jan 2022
HL7 Work Group Meeting
Work Group Highlights

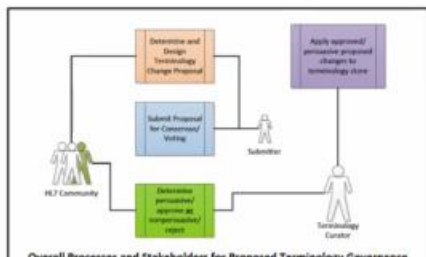


FHIR Management Group

- R5 is going to Normative Ballot in May and there are no plans for further delay
- IG authoring project trying to manage change to the template and publisher including the validator so that huge issues aren't created
 - **TSC hasn't approved yet.**
 - <https://confluence.hl7.org/display/FHIRI/Publisher-impacting+Change+Process>.
 - There will be a tracker in JIRA for tooling type issues
- Planned date for not longer using Ballot Desktop
 - Not yet, still in the vetting and approval stage – testing, pilot not this year for sure
- R4B will introduce breaking changes to some specific areas
 - Publication date is probably February 2022

TSMG - Call for Oversight Voters to Support UTG

- There is an ongoing effort to improve the Unified Terminology Governance (UTG) process for submitting and reviewing change proposals to the HL7 Terminology (THO)
 - Part of this effort includes refining the Oversight Groups (OSGs) to ensure that correct people/groups are reviewing applicable vocabulary change proposals
- Responsibilities of an OSG voter:
 - Go through the UTG tutorials
 - Have a Jira login
 - Commit to putting in the time to review and vote on proposals that have entered consensus review
 - Setup notifications so they can be aware when their attention is needed



Overall Process and Stakeholders for Proposed Terminology Governance

- Minimum Qualifications
 - Familiarity with the product family terminology requirements and methodology
 - Understanding of basic concepts of Vocabulary/Terminology (what are concepts, codes, code systems, value sets, and the identifiers for such; and how they differ and are used)
 - Active participant in HL7 and the WG calls and activities and projects
 - HL7 member (either individual, or named as one of their organizational HL7 persons)
- "Nice-to-Have" characteristics:
 - The Minimum above, plus:
 - Expert in the product family terminology requirements and methodology
 - Familiarity with the FHIR CodeSystem, ValueSet, and NamingSystem resources to address UTG-specific issues
- Ideal additional qualifications:
 - The 'nice to have' above plus:
 - Comfortable and familiar with FHIR IG development and publishing (using the IG publisher) processes
 - Experience and some level of expertise with software development using GitHub
 - Detailed knowledge of terminology design and use

Vocabulary WGM meetings

- Minutes: <https://confluence.hl7.org/display/VOC/Jan+2022+-+HL7+Virtual+WGM+Meeting+Agenda+for+Vocabulary>
 - To view minutes for an individual session, use the link in the last column
- The UTG project is now a TSMG project
- HTA is now a subcommittee of TSMG

Gender Harmony

[Session 1 minutes](#)

[Session 2 minutes](#)

- The Gender Harmony launching point is here:
<https://confluence.hl7.org/display/VOC/The+Gender+Harmony+Project>
- Meetings: Mondays at 4pm ET – 90 minutes
- Gender Harmony specification:
https://www.hl7.org/implement/standards/product_brief.cfm?product_id=564
- Defined 5 elements:
 - Gender Identity (GI) – self-expressed
 - Sex for Clinical Use (SFCU)
 - Recorded Sex or Gender
 - Name to Use
 - Pronouns
- Kelly Davison presented on Infoway’s Sex and Gender Work Group

Gender Harmony

- Gender Harmony Cross Paradigm Implementation Guide
 - <https://confluence.hl7.org/display/FHIR/Gender+Harmony+Cross+Paradigm+Implementation+Guide>
 - Planning for May 2022 FHIR Connectathon, September 2022 ballot (at the earliest)
 - Each product family will have a section that contains guidance specific to that product family implementation and model requirements
 - Sexual Orientation not in approved scope
- Will focus on the changes to the base specification to get those changes done in time for the FHIR R5 ballot in May
- Gender Harmony ballot in September would go over how to use the changes, meet the use cases, align with v2 and CDA.
- IG will cover the intended approach for v2 but that will not dictate when v2 does its ballot of Gender Harmony
 - There was a suggestion to craft something in this IG that is pre-adoptable in the v2 space

NullFlavor

[Minutes](#)

- There were requests from CIHI and Ontario Health to add the value ASKD to the v3 NullFlavor code system to represent 'Prefer not to answer' / 'Asked but declined'.
- The response from Vocabulary, MnM, and FHIR-I was that the code system cannot be changed because it is in an ISO code system that is a normative release.
 - The recommendation is that the FHIR code system DataAbsentReason be used
 - If there is a requirement to use the codes in NullFlavor, then a value set would need to be created that uses codes from both NullFlavor and DataAbsentReason
 - If we want to proceed with a value set that contains the Null Flavor codes, there would need to be a UTG Project ticket created in HL7 Jira.
 - Our recommendation is that this be an HL7 value set since this issue is not specifically Canadian
- The recommendation has been communicated to CIHI and Ontario Health and we are awaiting their response prior to proceeding. If anyone else is interested in this new value set, please let us know in the HL7 Canada Community forum.

Extensible Binding Strength

[Minutes](#)

- Issue: The implementer community does not have a clear idea of what the extensible binding strength means (raised in <https://jira.hl7.org/browse/FHIR-29968>)
 - Some see that a value set bound to a code, codable coding, or codable concept means that you have to use codes in the expansion of that value set, and if there isn't anything appropriate, you can use whatever you want.
 - Others believe that you need to include at least one 'scoping' code from the standard value set and then you may add additional codes, if your data element supports that
 - Assessing conformance is impossible without a standard understanding

Extensible Binding Strength

- Vocabulary WG will be posting a set of questions to the forums, terminology, and implementation stream to get community feedback and to get real data on implementer interpretations of extensible binding strength.
 - Based on the outcome of this survey, Vocab and FHIR-I will try to come to a resolution on the meaning of Extensible binding strength and incorporate that into the documentation for FHIR R5.
 - If no resolution can be achieved, this will be escalated to TSMG and FMG
- You can see a draft usage note here:
<https://confluence.hl7.org/display/VOC/FHIR+extensible+binding+strength+query+to+implementers>
 - If you have comments or questions about the draft usage note, and would like to help with clarifying the verbiage, please enter you concern as a comment on this page.
- Vocab co-chairs were to meet on Jan 31 and discuss this further, and try to finalize the usage note based on the feedback they received.

VSD-P and CPG Profiles

Minutes

- Background
 - The focused project calls to develop a profile originally started with a single FHIR profile on Valueset that aligned with formal characteristics of a Value Set Definition specification, which is both an HL7 and an ISO standard.
 - <https://jira.hl7.org/browse/FHIR-31395>
 - Ticket has the analysis Excel file attached (and previous versions)
 - FHIR Valueset resource covers both value set definition and value set expansion
 - The specification that we are trying to align with really focuses on the value set definition aspects of the Valueset in FHIR
 - 4 profiles of Valueset have been proposed by CDS and CQI
 - Publishable, Shareable, Computable, Executable - can be used together or separately (<https://hl7.org/fhir/uv/cpg/profiles.html#artifact-profiles>)

VSD-P and CPG Profiles

- Next Steps (for the Vocabulary WG)
 - Review guidance text developed for VSD-P, update as necessary, determine new location
 - Review all invariants defined for VSD-P, , update as necessary, determine new location
 - Review all elements and Must Support / Cardinality
 - Resolve the publisher / steward disconnect
 - Resolve scope conflicts

Terminology Capabilities Resource Minutes

- FHIR-24698 - Need a normative terminology service capability statement
 - There is a need to have a normative terminology service capability statement that defines the minimum requirements for a terminology service.
 - Currently the terminology service page (<http://build.fhir.org/terminology-service.html>) links to this example capability statement here:
<http://build.fhir.org/capabilitystatement-terminology-server.html>
 - Instead there is a need to create and link to a normative statement that is updated to reflect the present understanding of the minimum requirements.

Terminology Capabilities Resource

- The Vocabulary Work Group will be forming a task force to develop the minimum requirements for a FHIR Terminology Server to address this ticket and become part of the FHIR R5 specification.
- Expecting a notification about this task force and meetings by Jan 29, 2022.
- If there is anyone that is interested in participating in this task force, watch for an announcement on InfoCentral with the meeting details.

Services Oriented Architecture WG

Current Projects

Project Name
<u>HL7 FHIR for FAIR (FHIR4FAIR)</u>
<u>HL7 Common Terminology Service Release 2 (CTS2)</u>
<u>HL7 Consent Management Service Project</u>
<u>HL7 Healthcare Services Reference Architecture (HL7-HSRA)</u>
<u>HL7 Health Services Platform (HL7-HSP)</u>
<u>HL7 Model-Based Transformation Service (MBTS)</u>
<u>HL7 Cloud Planning Guide</u>

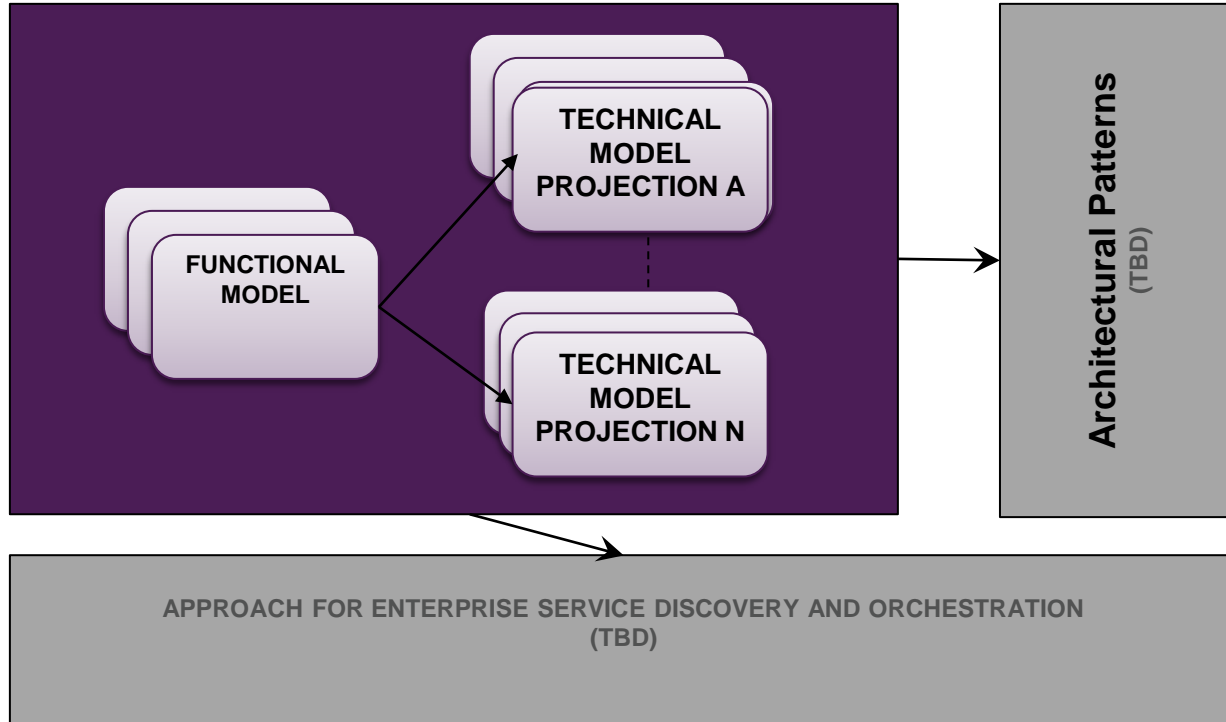
Healthcare Services Reference Architecture

- The objective of the HL7 Healthcare Service References Architecture (HL7-HSRA) is to support the design of medium/large scale eHealth architectures based on HL7 services and standards.
- The project organizes adopted HL7 Service Functional Models, Functional Profiles and Domain Models as a basis for:
 - a formalized Enterprise Service Inventory (Normative)
 - an Architectural Patterns Catalog (Normative)
 - guidelines for enterprise Service Discovery and Orchestration (Informative)

HSRA as a tool

- HSRA represent a tool for architects and CIOs
- The Reference Architecture it's useful to navigate and select Health Standards and can be used also in combination with an Enterprise Architecture Frameworks (e.g. TOGAF)
- HSRA is centered on standard health business capabilities and shown how these capabilities are realized with different technical standards (Technical Model Projections).

Functional models and technical projections



Modeling language for HSRA



UAF[®]
OMG UNIFIED
ARCHITECTURE
FRAMEWORK[®]

**NATO
ARCHITECTURE
FRAMEWORK**
Version 4

		Taxonomy		Structure		Behaviour					
		C1	C2	C3	C4	C5		C7	C8	Cr	
Concepts		Capability Taxonomy NAV-2, NCV-2	Enterprise Vision NCV-1	Capability Dependencies NCV-4	Standard Processes NCV-6	Effects		Performance Parameters NCV-1	Planning Assumptions	Capability Roadmap NCV-3	
	C1-S1 (NSOV-3)										
Service Specifications		S1	S2	S3	S4	S5	S6	S7	S8	Sr	
		Service Taxonomy NAV-2, NSOV-1	Service Structure NSOV-2, 6, NSV-12	Service Interfaces NSOV-2	Service Functions NSOV-3	Service States NSOV-4b	Service Interactions NSOV-6c	Service I/F Parameters NSOV-2	Service Policy NSOV-4a	Service Roadmap	
Logical Specifications		L1	L2	L3	L4	L5	L6	L7	L8	Lr	
		Node Types NOV-2	Logical Scenario NOV-2	Node Interactions NOV-2, NOV-3	Logical Activities NOV-5	Logical States NOV-6b	Logical Sequence NOV-6c	Information Model NOV-7	Logical Constraints NOV-6a	Lines of Development NPV-2	
			L2, L3 (NOV-1)		L4-P4 (NSV-5)						
Physical Resource Specifications		P1	P2	P3	P4	P5	P6	P7	P8	Pr	
		Resource Types NAV-2, NCV-3, NSV-2a,7,9,12	Resource Structure NOV-4, NSV-1	Resource Connectivity NSV-2, NSV-6	Resource Functions NSV-4	Resource States NSV-10b	Resource Sequence NSV-10c	Data Model NSV-11a,b	Resource Constraints NSV-10a	Configuration Management NSV-8	
Architecture Foundation		A1	A2	A3	A4	A5	A6	A7	A8	Ar	
		Meta-Data Definitions NAV-2	Architecture Products NAV-1	Architecture Correspondence ISO42010	Methodology Used NAF Ch2	Architecture Status NAV-1	Architecture Versions NAV-1	Architecture Compliance NAV-3a	Standards NIV-1/2	Architecture Roadmap	

The Modeling language used for HSRA is the OMG UAF (Unified Architecture Framework)

UAF is a modeling language based on UML/SysML and it's also integrated with BPMN2 and SoaML.

The model is under revision with the use of NAF 4.0 (UAF based).

The vantage of NAF framework flavour is that covers, explicitly, business domain and is aligned with standard (ISO, IEEE, OpenGroup Togaf, OMG/UAF).


More clearly service oriented

More simple automatic generation of document with tool.

Obviously, tailored for HSRA of course

[HTTPS://WWW.NATO.INT/CPS/EN/NATOHQ/TOPICS_157575.HTM](https://www.nato.int/cps/en/natohq/topics_157575.htm)

A *single artifact* approach

- We use UAF/NAF modeling language/framework, to support a “single artifact” approach with the objective to support the maintainability and the navigability of HSRA
- We’ll have a single artifact (the model) that can be easily published as a web site and with a traditional documents.
- *The UAF/NAF editor used is  Magic because the HL7/Sparx EA license agreement do not include an UAF/NAF plugin.*
- An initial draft version of the model/document was released in July

Jan 2022

HL7 Work Group Meeting

Accelerator Updates



CodeX – Steve Bratt

- Goal: collect data once-reuse for multiple use cases leveraging mCode
- CodeX initially focused on Cancer but are now expanding to other domains (Genomics and Cardiovascular Disease)

CodeX Use-Case-Based Projects

Discovery -> Planning -> Execution

<https://confluence.hl7.org/display/COD/CodeX+Use+Cases>



Da Vinci - Vanessa Candelora



Key Projects

- [Risk Adjustment \(RA\)](#)
 - Jan22 Ballot Reconciliation
 - Led 3 Connectathons/Testing event tracks
- [Patient Cost Transparency \(PCT\)](#)
 - Jan22 Ballot Reconciliation
 - Success at Connectathons: GFE -> AEOB
- [Burden Reduction \(CRD/DTR/PAS\)](#)
 - STU2 Work, prepping for early May Ballot
- [Payer Data Exchange \(PDex\)](#)
 - STU2 Early May Ballot,
 - Highlight: Payer to Payer Prior Auth;
- [PDex Directory/Plan Net](#)
 - Publish v1.1.0 (STU Update)
 - Highlight: Provider Status, Add/Remove
- [PDex Formulary](#)
 - STU2 Jan22 Ballot Reconciliation
 - Highlight: Structural Improvements
- [Member Attribution List](#)
 - Phase 2 Work Complete - Add/Change Members, additional scenarios – Foundational IG.
 - Testers / Implementations Welcome!
- [Clinical Data Exchange \(CDex\)](#)
 - STU1 publication post Ballot
 - Signatures, Work Queues, Draft Unsolicited Push of clinical Data

Milestone Dates

Expected “early May” offcycle 2022 Ballots

- Payer Data Exchange (PDex) STU2
- Coverage Requirements Discovery (CRD) STU2
- Documentation Templates and Payer Rules (DTR) STU2
- Prior Authorization Support (PAS) STU2

Expected Publications

- HRex - expected Feb/Mar 2022
- CDex - expected Feb/Mar 2022
- PDex Plan Net STU 1.1.0 Update- expected 11/21

Resources

- [Da Vinci Welcome](#)
- [Da Vinci Calendar](#)
- [Da Vinci Implementer Support Page](#)
- [January 2022 WGM – Where will Da Vinci Be?](#)

Join Us: [Birds of a Feather – Da Vinci](#) Today (Tues 1/18) Q5

Vulcan – Hugh Glover

- **Goal:** Work to close gap between clinical care and clinical research to improve patient lives, decrease costs and improve efficiency

Vulcan Projects

Actual	Current Projects	Objectives
	Schedule of Activities (SoA)	Represent the schedule of activities in FHIR from a spreadsheet. Enable the consistent description, timing and identification of each activity in a study
	Real World Data (RWD)	Extract data from EHRs in a standardized format to support clinical research and especially submission to Regulators
	Electronic Product Information (ePI)	Define a common structure for product information (monographs) that supports cross-border exchange of data for patients. (An EU Project)
	Adverse Events (AE)	Support standardizing the reporting and format of an adverse event. Improve the maturity of the relevant FHIR resources.
Potential	Discovery Project	Objectives
	OMOP	Support the development of FHIR to OMOP data transfer for better analysis of clinical data for research
	Sample data	Develop sets of sample data to support the Vulcan projects

Argonaut – Brett Marquard

- **Goal:** Advance industry adoption of modern, open interoperability standards.

Argonaut 2022



2022 Project Prioritization

- [19 projects](#) were proposed and discussed
- 10 projects have formal 'pitches' and are under final review
- New projects (2-3) expected to launch in February

2021 Project Wrap-up

Subscriptions

- Promote adoption of the Subscription framework (R4 & R5)
- Support any final edits to support FHIR R4
- Build out testing and reporting

FHIR Write

- [Executive Summary](#) of Outcomes
- 'FHIR Write' is too broad of a project, considering a specific 'write blood glucose' or 'weight' in 2022

January 2022 Ballots

- Provide input into US Core

May 2022 Ballots

- None Planned

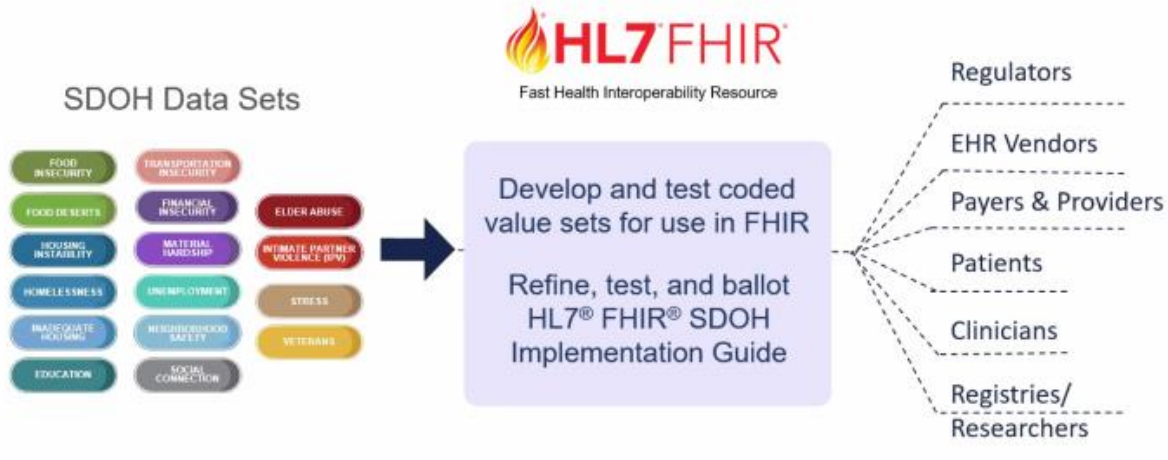
Future

- Consider balloting of FHIR write
- USDCI v3 design session September 2022

Gravity – Lenel James

- **Goal:** Develop consensus-based data standards to improve how we use and share information on social determinants of health (SDOH).

Interoperability Glide Path: Domain Data Sets & Implementation Guides



U.S. Core Data for Interoperability



CARIN – Mark Roberts

2021/22 status of the CARIN HL7 IGs

1) CARIN IG for Blue Button®

IG page: <http://hl7.org/fhir/us/carin-bb/>

Purpose: This implementation guide describes the CARIN for Blue Button® Framework and Common Payer Consumer Data Set (CPCDS), providing a set of resources that payers can display to consumers via a FHIR API to meet part of the CMS requirements related to the Patient Access API.

Latest update: STU1 published in November 2020. Minor technical corrections were published in early July 2021 as STU1.1.0. We will ballot STU2 in January 2022. Publication in Q2/Q3 2022. At the September HL7 Connectathon a number of clients and servers successfully connected and exchanged the oral and vision types for the first time. Implementers also successfully tested at the November CARIN testing event and January HL7 Connectathon. We are currently working to review and respond to tickets submitted as part of the January ballot.

2) CARIN IG for Consumer-facing Real-time Pharmacy Benefit Check

IG page: <http://hl7.org/fhir/us/carin-rtpbc/>

Purpose: Provide a patient with real-time pharmacy information associated with their benefit and formulary information, out of pocket costs, therapeutic alternatives, and cash price options.

Latest Update: Published the IG in August 2020. Will be testing with the 5 major PBMs in early 2022 after they've built out their support for FHIR by 7/1.

3) CARIN IG for Digital Insurance Card

IG page: <https://build.fhir.org/ig/HL7/carin-digital-insurance-card/>

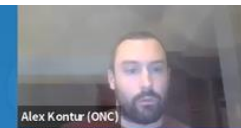
Purpose: This guide will develop artifacts (FHIR implementation guides, code mappings, reference implementations, etc) to enable the digital exchange and digital rendering of the elements found on a person's physical insurance card. The primary use case is to support insurance members who wish to retrieve their proof of insurance coverage digitally via a consumer-facing application. Images, barcodes, and QR codes from the physical card will be considered as optional fields for representation within FHIR, but these elements will be optional and up to the implementer to decide whether they want to provide them. The scope of this IG does NOT address eligibility checks between health providers and the insurance company.

Latest update: The draft STU1 IG is now live, and we are currently working to review and respond to tickets submitted as part of the January ballot. Publication in Q2/Q3 2022. Implementers successfully tested at the November CARIN testing event and some testing of the Touchstone test scripts occurred at the January HL7 Connectathon.

FAST (FHIR at Scale Taskforce) *** New Accelerator

- **Goal:** Identify FHIR scalability gaps and define solutions to address current barriers and identify needed infrastructure for scalable FHIR solutions.

FAST Ballot & Testing Status				
Implementation Guide	Ballot Date	Ballot Reconciliation	Publish STU !	Connectathons
FAST: Interoperable Digital Identity & Patient Matching	May 2022	Q2-Q3 2022	TBD	2021-01 FAST Security & Identity
FAST: National Directory	May 2022	Q2-Q3 2022	TBD	2021-01 FAST – National Directory US Realm
FAST: Security for Scalable Registration, Authentication, and Authorization	September 2021	In Progress	Q1 2022	2021-01 FAST Security & Identity
FAST: Hybrid/Intermediary Exchange	January 2022	Q1 2022	TBD	2021-01 FAST – Hybrid/ Intermediary Exchange



Helios – Craig Newman *** New Accelerator

- **Goal:** the equitable and effective use of data for the advancement of public health.

Need to Know About Helios

Short-term Milestones

- Documenting the Helios governance structure and membership model
- Select the initial Helios use cases

How Use Cases Will Be Decided

- Community ideas and needs will be translated into defined, achievable projects
- Recommendations from Helios Operating Committee and approved by the Helios Steering Committee

How Progress Will Be Communicated

- Dedicated WGM sessions, public webinars, HL7 listserv, Zulip, and of course the Helios Confluence page
- Become a Helios member and participate
- If you have a question, please don't hesitate to ask! – Helios@hl7.org

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Want to get involved in an Accelerator?

- CodeX – <https://confluence.hl7.org/display/COD/CodeX+Home>
- Davinci – <https://confluence.hl7.org/display/DVP/Da+Vinci>
- Vulcan – <http://www.hl7.org/vulcan/>
- Argonaut – <https://confluence.hl7.org/display/AP/Argonaut+Project+Home>
- Gravity – <https://thegravityproject.net/>
- CARIN – <https://confluence.hl7.org/display/CAR/CARIN+Alliance>
- FAST – fast@hl7.org
- Helios – <https://www.hl7.org/helios/>

Jan 2022
HL7 Work Group Meeting

International Council
Post-WGM Meeting Jan 26th

International Council Agenda

1. Changes in Affiliates and Chairs
2. Welcome to new HL7 Officers
3. Update on new Implementation Division
4. Increasing number of International Directors on the Board.
Implications and Considerations
5. Better supporting International relevance of IG's.
6. Reinvigorating / reinventing the Affiliate Due Diligence Committee.
7. HL7 Policy Advisory Committee request from White House OSTP
8. Improving Affiliate Participation

Increasing number of International Directors on the Board. Implications and Considerations

- Currently 2 International Directors
- Governance and Operations Manual (GOM) permits 4
- Distributed representation that is roughly “regional”
- Imperative for additional members to be consistently present at Board Meetings
- Promote a Board standing agenda item for International reports

Reinvigorating / reinventing the Affiliate Due Diligence Committee

- a) Change the name to the Affiliate Management Group
- b) Establish in the GOM
 - Expand functions (currently they principally relate to on-boarding new Affiliates see <http://www.hl7.org/special/Committees/affiliated/overview.cfm>)
 - Monitoring Affiliate health and recommending status changes
 - Maintaining the new Affiliate Dashboard
 - Planning International Council Meetings
 - Reporting to the HL7 International Board (dotted line) and International Council
 - Leading Affiliate Agreement drafts
- c) Regular (monthly) meetings
- d) Revised membership
 - International Council Co-Chairs (3)
 - Affiliate Directors (2) - one of whom will be Chair
 - Chief Implementation Officer (1)
 - HL7 Staff Representative (1)

HL7 Policy Advisory Committee Request

1. White House Office of Science and Technology Policy (OSTP) recently released an RFI, Strengthening Community Health Through Technology
2. The RFI asks about how digital health technologies are used, or could be used to transform community health, individual wellness, and health equity.
3. Input describing successful models outside the United States is requested, specifically:
 - information from community-based health settings and about populations traditionally underserved by healthcare,
 - successful models of strengthening community health through digital health technologies within the United States and abroad,
 - barriers to uptake,
 - trends from the COVID-19 pandemic,
 - how user experience is measured,
 - need for tools and training,
 - ideas for potential government action, and
 - effects on health equity.
4. Request for any hyperlinks to existing materials internationally (by Feb 28th)

Thank You

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