HL7 International

National Committee on Vital and Health Statistics
Virtual Full Committee Meeting | November 29-30, 2023

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HL7 International

Standards that get used get better.

paraphrased from Donald A.B. Lindberg, MD

HL7®
International

Compatibility

↑

R5
R4B
R4
R3
DSTU2

Forwards   Backwards

HL7
International   —

HL7 Standards Levels

Normative

Approved by rigorous ANSI process. Stable. Subject to Inter-version Compatibility Rules.

Trial Use

Well reviewed and now ready for production use. Future versions may make breaking changes.

Informative

Provides implementer assistance but does not make rules that implementers are required to follow.

FHIR Maturity Levels

FMM 6 (Normative): Normative ballot. Locked by change rules.

FMM 5: Published in 2 cycles, implemented by 5+ systems in 2+ countries

FMM 4: Published, tested, community consult required for breaking changes.

FMM 3: Formal balloting, 10 distinct comments from 3 orgs.

FMM 2: Tested to support interop of 3 independently developed systems

FMM 1: No QA warnings, substantially complete, ready for use.

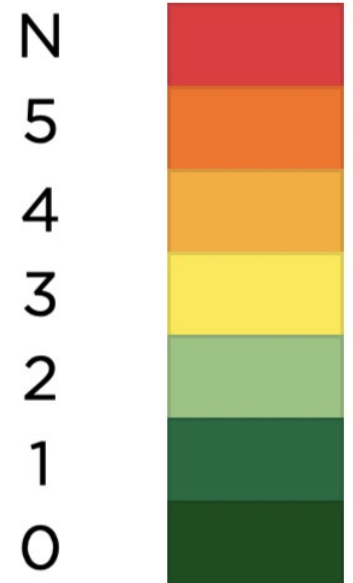**Draft (0)** Published in the current build.

HL7 International
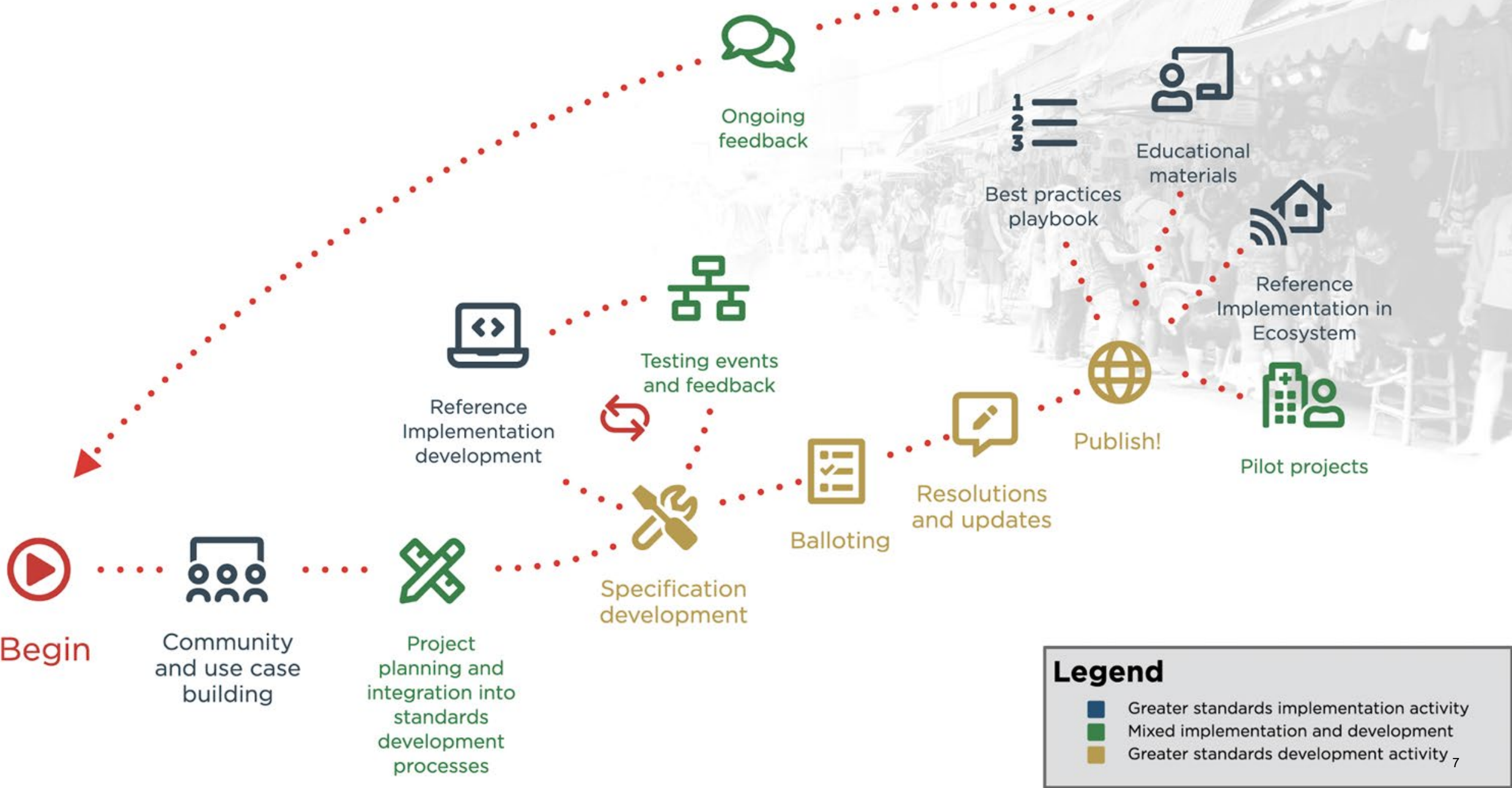
FHIR Maturity Evolution

Progressive maturation

Ongoing curation

FMM Level

N
5
4
3
2
1
0

Coordination of HL7 Standards Development and Implementation

Begin

Community and use case building

Project planning and integration into standards development processes

Specification development

Reference Implementation development

Testing events and feedback

Ongoing feedback

Balloting

Resolutions and updates

Publish!

Best practices playbook

Educational materials

Reference Implementation in Ecosystem

Pilot projects

Legend
- Greater standards implementation activity
- Mixed implementation and development
- Greater standards development activity

HL7 FHIR

Validate   Options

Language
English ▾

● tx.fhir.org
● packages2.fhir.org

Validate Resources

Manually enter, or upload resources for validation.

ENTER RESOURCE   UPLOAD RESOURCES

Code

```json
{
  "resourceType" : "Observation",
  "id" : "cbc-hematocrit",
  "meta" : {
    "profile" : ["http://hl7.org/fhir/us/core/StructureDefinition/us-core-observation-lab"]
  },
  "status" : "final",
  "category" : [{
    "coding" : [{
      "system" : "http://terminology.hl7.org/CodeSystem/observation-category",
      "code" : "laboratory",
      "display" : "Laboratory"
    }],
    "text" : "Laboratory"
  }],
  "code" : {
    "coding" : [{
      "system" : "http://loinc.org",
      "code" : "4544-3",
```

This result is being rendered in HTML for easy viewing. You may access this content as [Raw JSON](#) or [Raw XML](#) or [Raw Turtle](#) or view this content in [HTML JSON](#) or [HTML XML](#) or [HTML Turtle](#) . Response generated in 616ms.

HTTP 200 OK

Response Headers

X-Powered-By: HAPI FHIR 6.6.0 REST Server (FHIR Server; FHIR 4.0.1/R4)
X-Request-ID: NR9lqxu6YRzhsYhU

Narrative

Allergies and Intolerances

Allergies And Intolerances

Allergen	Status	Category	Reaction	Severity	Comments	Onset
No information about allergies	active					

Medication List

Medication Summary: Medication Requests

Medication	Status	Route	Sig	Comments	Authored Date

Medication Summary: Medication Statements

Medication	Status	Route	Sig	Date
prednisone 1 mg tablet Product containing prednisone (medicinal product)	Active	Swallow, oral	Take 4mg daily for 1/12 then reduce by 1mg by 1 month	Fri Dec 17 00:00:00 GMT 2021
cilazapril 500 microgram tablet, 90 Product containing cilazapril (medicinal product)	Active		Take 1 daily	Fri Aug 26 00:00:00 GMT 2022

Problem List

Problem List

Medical Problems	Status	Comments	Onset Date
Gout	active		
Severe acute respiratory syndrome coronavirus 2 detected	active		
G20.00 (Hypertension)	active		

History of Immunizations

Immunizations

Immunization	Status	Dose Number	Manufacturer	Lot Number	Comments	Date
Influenza, seasonal, injectable	COMPLETED	1		P100320654		Mon May 31 00:00:00 GMT 2021
SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, preservative free, 30 mcg/0.3mL dose	COMPLETED	1		FF8871-001		Thu Aug 05 00:00:00 GMT 2021

WE HEAR YOU.

Implementation Value

WHO and HL7 collaborate to support adoption of open interoperability standards

3 July 2023 | Departmental news | Reading time: 2 min (429 words)

Recognizing the importance of interoperability standards in digital health transformation, WHO and standards-development organization, Health Level Seven International (HL7®), signed a Project Collaboration Agreement to support the adoption of open interoperability standards, globally. Adoption of interoperability standards are critical for consistent representation of data and information in health. This consistency allows for various digital