

## 2017Q1 Summary and Status

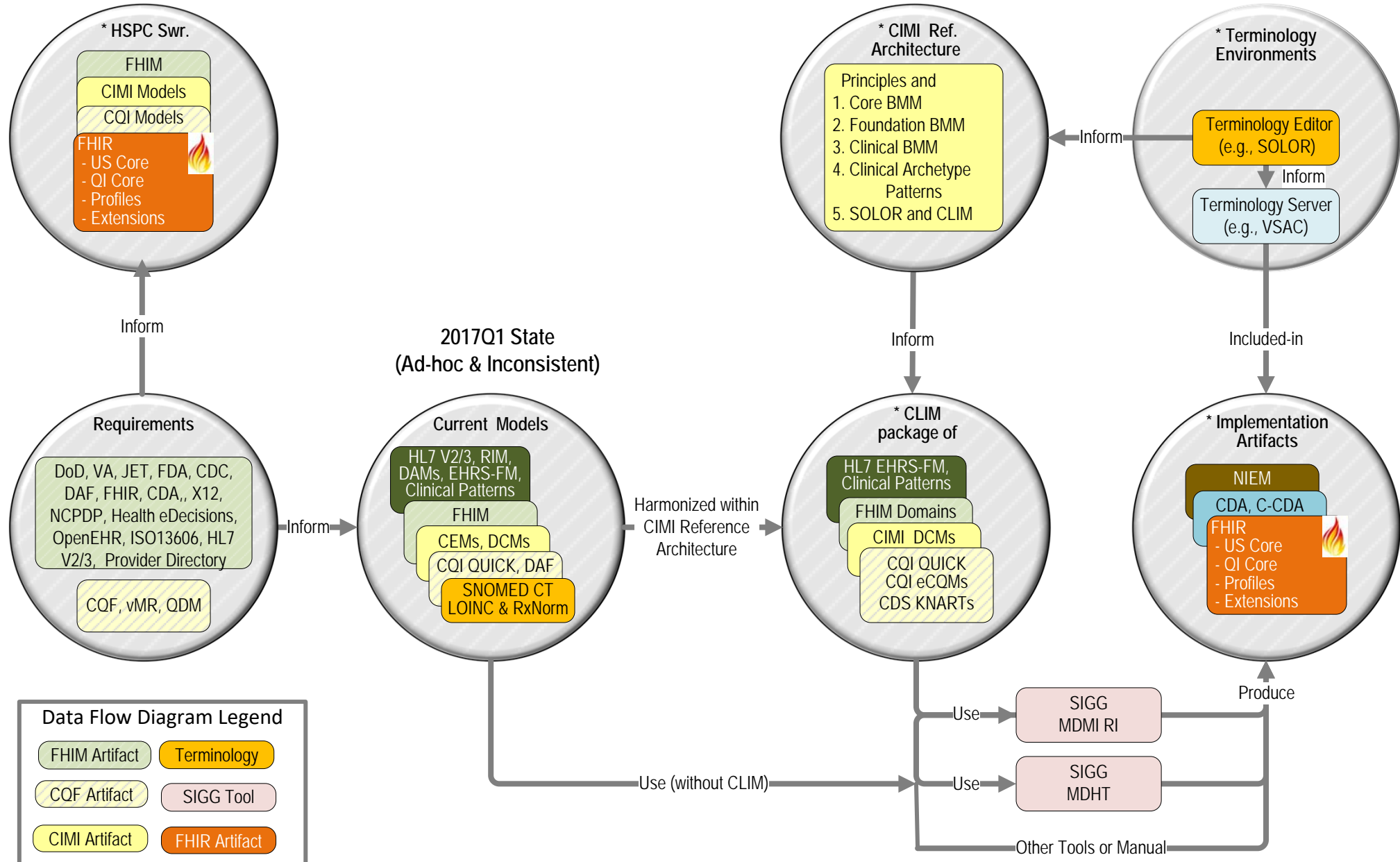
### Milestones:

- 2016-01 CIMI became an HL7 workgroup
- 2016 Jan-Sep: CIMI-sponsored HL7 IIM&T investigative study
- 2016-08 ONC, FHA and IPO co-sponsored HIEA Technical Forum
- 2016-09 CIMI-sponsored HL7 IIM&T Project #1316
- 2016-11 HL7 IIM&T briefing to FHA Managing Board
- 2017-01 HL7 Comments-only ballot
- 2017-05 HL7 Informative Standard
- 2017-09 HL7 Standard for Trial Use (STU)
- 2018-09 HL7 Standard for Trial Use (STU)
- 2019-09 HL7 Normative Standard
- 2020-09 HL7-ISO Standard

### Collaboration Pilot-Projects (2017Q1); where, #1, #2, #3 indicate May-2017 Ballot inclusion-priority:

- FHIM integration of CIMI Clinical BMM & Archetypes (Patterns) #1 [Galen Mulrooney]
- US Core / QI Core integration of CIMI BMM & Archetypes (Patterns) #1 [Claude Nanjo]
- Patient Care Project #1253 "CIMI Clinical Model Proof of Concept" (Skin Wound Assessment) #1
- Refine PROCEDURE and CONTEXT based on Pilots #1 (Galen Mulrooney and Claude Nanjo)
- Pediatric Bilirubin Management CDS #2, needs code generation library [Ken Kawamoto]
- Zika measure #3 [Ken Kawamoto and Claude Nanjo]
- Immunization Management EHR Functional Model Profile #3 (Steve Hufnagel and Gary Dickinson)
- Family Planning Annual Report (FPAR) – HSPC pilot with ACOG #3 [Stan Huff, Susan Matney]
- Device interfaces MDEpiNet. #3 [Julia Skapik]
- FHIR JET (Joint Exploratory Team) #3 Nona Hall, IPO, VA, DoD

\* Planned 2018+ State  
(HL7-ISO Standard, Traceable & Consistent)





## Acronyms

where, “when I use a word, it means just what I choose it to mean — neither more nor less.” [Alice in Wonderland, Lewis Carroll, 1865]



BMM is CIMI Basic Meta Model components See [http://wiki.hl7.org/index.php?title=CIMI\\_Practitioners%27\\_Guide](http://wiki.hl7.org/index.php?title=CIMI_Practitioners%27_Guide)

CDA is HL7 Clinical Data Architecture. See [http://www.hl7.org/implement/standards/product\\_brief.cfm?product\\_id=258](http://www.hl7.org/implement/standards/product_brief.cfm?product_id=258)

C-CDA is HL7 Consolidated CDA. See [http://www.hl7.org/implement/standards/product\\_brief.cfm?product\\_id=379](http://www.hl7.org/implement/standards/product_brief.cfm?product_id=379)

CEM is Intermountain Clinical Element Models e <http://www.opencem.org/#/>

CDS is HL7 Clinical Decision Support workgroup. See [http://wiki.hl7.org/index.php?title=Clinical\\_Decision\\_Support](http://wiki.hl7.org/index.php?title=Clinical_Decision_Support)

CIMI is HL7 Clinical Information Model Initiative. See [http://wiki.hl7.org/index.php?title=Clinical\\_Information\\_Modeling\\_Initiative\\_Work\\_Group](http://wiki.hl7.org/index.php?title=Clinical_Information_Modeling_Initiative_Work_Group)

CIMI Principles See [http://wiki.hl7.org/index.php?title=CIMI\\_Practitioners%27\\_Guide](http://wiki.hl7.org/index.php?title=CIMI_Practitioners%27_Guide)

CIMI Reference Models (aka Information Architecture) See [http://wiki.hl7.org/index.php?title=CIMI\\_Practitioners%27\\_Guide](http://wiki.hl7.org/index.php?title=CIMI_Practitioners%27_Guide)

CLIM is HL7 Clinical Logical Information Model Package of CIMI-Harmonized SOLOR, FHIM, CQF, DCMs, eQCMs and KNARTs

where, independent organizations maintain the component models and HL7 periodically configuration manages, ballots and standardizes them.

CQF is ONC Clinical Quality Framework. See [http://wiki.hl7.org/index.php?title=Clinical\\_Decision\\_Support](http://wiki.hl7.org/index.php?title=Clinical_Decision_Support)

CQI is HL7 Clinical Quality Information workgroup. See [http://wiki.hl7.org/index.php?title=Clinical\\_Quality\\_Information](http://wiki.hl7.org/index.php?title=Clinical_Quality_Information)

DAM is HL7 Domain Analysis Model.

DAF is ONC Data Access Framework (US Core). See <http://wiki.siframework.org/Data+Access+Framework+Homepage>

DCM is CIMI Detailed Clinical Models. See <http://www.opencimi.org/model-browser>

eQCM is Electronic Clinical Quality Measure

EHRS-FM is HL7 Electronic Health Record Fintional Model

FHIM is Federal Health Information Model; where, FHIM specifies healthcare domains and their data modules and their data elements. <http://FHIMS.org>

FHIR is HL7 Fast Healthcare Information Resource standard and workgroup. See <http://wiki.hl7.org/index.php?title=FHIR>

HcDir is ONC-FHA Provider Healthcare Directory. See <http://wiki.siframework.org/Provider+Directories>

IIM&T is CIMI-sponsored HL7 Integration of Information Models & Tools Project. [http://wiki.hl7.org/index.php?title=CIMI\\_Practitioners%27\\_Guide](http://wiki.hl7.org/index.php?title=CIMI_Practitioners%27_Guide)

JET is DoD-VA Joint Exploratory Team.

KNART is CDS Knowledge Artifact. See [http://www.hl7.org/implement/standards/product\\_brief.cfm?product\\_id=337](http://www.hl7.org/implement/standards/product_brief.cfm?product_id=337)

MDHT is SIGG Model Driven Health Tool. See <https://projects.eclipse.org/proposals/model-driven-health-tools>

MDMI is SIGG Model Driven Message Interoperability.

The present MDMI Referent Index (RI) scope is the US Core; where, FHIM is used for data-element value-sets.

FHA's MDMI RI supports all MU2 data elements and >90% of the C-CDA model.

See <http://www.omg.org/mdmi/> and <http://www.omg.org/spec/MDMI/> and <https://github.com/MDMI/ReferentIndexContent>

NIEM is National Information Exchange Package. It provides browser-cased “interoperability” among Federal agencies. See <https://www.niem.gov/>

QI Core is FHIR Quality Improvement Core Implementation Guide . See <https://www.hl7.org/fhir/qicore/qicore.html>

QUICK is CQI's Quality Information and Clinical Knowledge logical model, used to specify eQCMs and FHIR QI Core.

See [https://www.hl7.org/documentcenter/public\\_temp\\_315E0F18-1C23-BA17-0C73398BA144AB5D/wg/cqi/Defining\\_eQCMs\\_Using\\_CQL.pdf](https://www.hl7.org/documentcenter/public_temp_315E0F18-1C23-BA17-0C73398BA144AB5D/wg/cqi/Defining_eQCMs_Using_CQL.pdf)

RI is SIGG-MDMI Referent Index. See <https://github.com/MDMI/ReferentIndexContent>

RIM is HL7 Reference Information Model

SIGG is FHA Standards Implementation Guide Generator

SOLOR is VA's SnOmed LOinc, Rxnorm; where, HSPC hosts the SOLOR project to provide the terminology foundation for model development.

VSAC is NLM Value Set Authority Center. <https://vsac.nlm.nih.gov/>

This quote seems applicable to CIMI's quest-of achieving its healthcare IT goal of "Computable Semantic-Interoperability."

*"It is not the critic who counts; not the man who points out how the strong man stumbles, or where the doer of deeds could have done them better. The credit belongs to the man who is actually in the arena, whose face is marred by dust and sweat and blood; who strives valiantly; who errs, who comes short again and again, because there is no effort without error and shortcoming; but who does actually strive to do the deeds; who knows great enthusiasms, the great devotions; who spends himself in a worthy cause; who at the best knows in the end the triumph of high achievement, and who at the worst, if he fails, at least fails while daring greatly, so that his place shall never be with those cold and timid souls who neither know victory nor defeat."*  
*Theodore Roosevelt, Apr 23, 1910, Sorbonne, Paris, France*

### Supporting Documents

HL7 IIM&T Project Scope Statements	<a href="https://1drv.ms/f/s!AlkpZJej6nh_IIOOuPJcL2rf5BVoXQ">https://1drv.ms/f/s!AlkpZJej6nh_IIOOuPJcL2rf5BVoXQ</a>
IIM&T Technical Forum Summary	<a href="https://1drv.ms/w/s!AlkpZJej6nh_k9gyRVADgOvM5SIJkQ">https://1drv.ms/w/s!AlkpZJej6nh_k9gyRVADgOvM5SIJkQ</a>
IIM&T Work Breakdown Structure	<a href="https://1drv.ms/f/s!AlkpZJej6nh_IKc00J3Kh2BTkopPnA">https://1drv.ms/f/s!AlkpZJej6nh_IKc00J3Kh2BTkopPnA</a>
IIM&T Briefing Slides	<a href="https://1drv.ms/p/s!AlkpZJej6nh_k9dE-b_DAO8HSNNT6Q">https://1drv.ms/p/s!AlkpZJej6nh_k9dE-b_DAO8HSNNT6Q</a>
IIM&T Reports	<a href="https://1drv.ms/w/s!AlkpZJej6nh_k9dQ2qQnRuQM8gbu8A">https://1drv.ms/w/s!AlkpZJej6nh_k9dQ2qQnRuQM8gbu8A</a>
CIMI Wiki	<a href="http://wiki.hl7.org/index.php?title=Clinical_Information_Modeling_Initiative_Work_Group">http://wiki.hl7.org/index.php?title=Clinical_Information_Modeling_Initiative_Work_Group</a>
CIMI Minutes	<a href="http://wiki.hl7.org/index.php?title=CIMI_Minutes">http://wiki.hl7.org/index.php?title=CIMI_Minutes</a>
CIMI Newsletters	<a href="http://wiki.hl7.org/index.php?title=CIMI_Newsletters">http://wiki.hl7.org/index.php?title=CIMI_Newsletters</a>
CIMI Practitioners' Guide	<a href="http://wiki.hl7.org/index.php?title=CIMI_Practitioners%27_Guide">http://wiki.hl7.org/index.php?title=CIMI_Practitioners%27_Guide</a>
CIMI Modeling, Architecture, Methodology and Style Guides	<a href="http://wiki.hl7.org/index.php?title=CIMI_Modeling,_Architecture,_Methodology_and_Style_Guides">http://wiki.hl7.org/index.php?title=CIMI_Modeling,_Architecture,_Methodology_and_Style_Guides</a>

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- **CIMI Co-Chairs**

Stanley Huff, Intermountain Healthcare

Linda Bird BIT, IHTSDO

Galen Mulrooney, FHA and VA contractor

Richard Esmond, PenRad LLC

- **Members of the following SDOs**

HL7: CBCC, CIC, CDS, CQI, DEV, EHR, EST, FMG, HSI, PC, Security, SOA, Vocab

IHTSDO, POC: Linda Bird BIT

The Open Group Healthcare Forum POC: Jason Lee

ISO/CEN, POCs: Gerard Freriks, William Goossen, Gary Dickinson

- **US Agencies, staff and contractors**

Office of the National Coordinator (ONC),

Office of Science and Technology (ONC OST)

Federal Health Architecture (FHA)

Interagency Program Office (IPO),

Defense Health Agency (DHA),

Veterans Administration (VA)

Federal Drug Agency (FDA),

Center for Disease Control (CDC)

Substance Abuse and Mental Health Services Administration (SAMHSA )

Apprio Inc, Cognitive Medicine, Iris Health Solutions LLC, JPSystems, MITRE

- **Healthcare Organizations**

Intermountain Healthcare, Mayo, Kaiser Permanente, PenRad, Inc., Results4Care,

Health Services Platform Consortium (HSPC), American College of Gynecology (ACOG)

- **Faculty, Staff and Students**

Duke University,

The University of Utah