HL7 Today & Tomorrow

Charles Jaffe, MD, PhD CEO, HL7

> AMDIS 2016 Ojai, CA 22 June 2016



Overview

- What's cookin'
- What's hot
- Quo vadis?
- What some of my friends tell me



"Perfection is achieved, not when there is nothing more to add, but when there is nothing left to take away."

Antoine de Saint-Exupery



Fast Healthcare Interoperability Resources

The principles underlying
FHIR development
are meant to address the challenges
learned in
30 years of
standards development.



FHIR enables an evolutionary development path with other HL7 standards*

^{*} Many are embedded in Federal regulation



FHIR focuses on implementation*



FHIR development is global*

FHIR development workshops in UK, Canada, Australia, Netherlands, Argentina, and Japan...as of Monday.

FHIR is Free

* The FHIR name and logo are trademarked, but the specification is licensed without restriction or royalty.

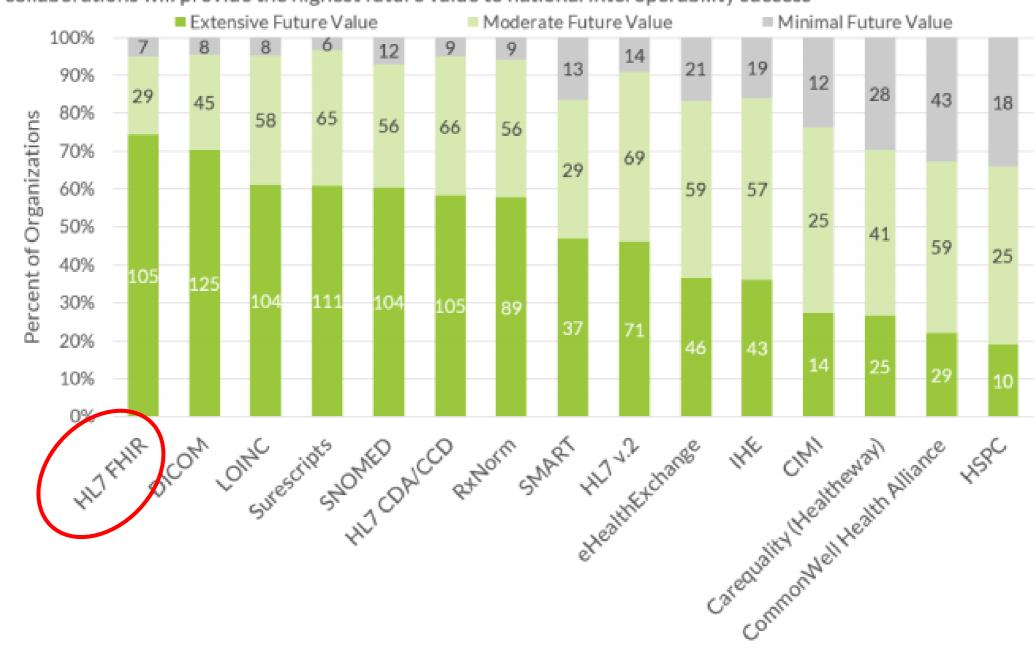
"You can accomplish anything in life, if you don't mind who gets the credit."

Harry Truman

HL7 FHIR: Future of Interoperbility

Which Standards, Organizations, Associations, and Collaborations Will Provide Future Interoperability Value?

Provider leaders were asked which standards, organizations, associations, or collaborations will provide the highest future value to national interoperability success

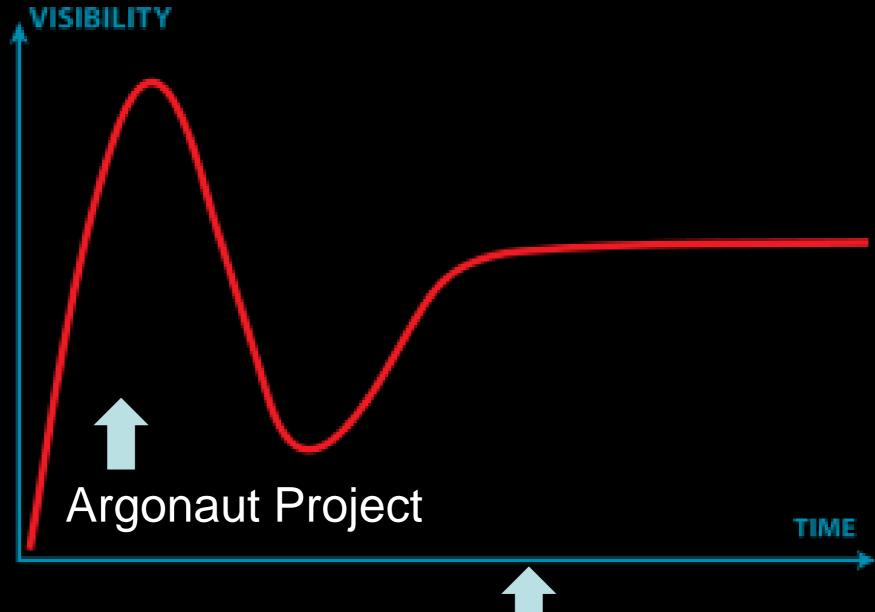


Source: KLAS March 2016

A gentle word of caution about FHIR

Current Status

The Gartner Hype Cycle









JASON Task Force & the Argonauts

Argonaut Project Origins

- * JASON Task Force recommendations on market-based interoperability governance and coordination, and call to action on "public APIs"
- * Market experience with MU 2 and associated US certification



The Argonaut Project

 Leverages the work of other initiatives such as the S&I Framework, SMART, and HSPC

Accelerates the maturation of FHIR for the industry

Open to all participants



The Argonaut Project is NOT

- An organization or entity
- Competitive with other existing initiatives
- Proprietary



Argonaut Phase I

- * Accelerated the development of the FHIR specification for the balloting of the Draft Standard for Trial Use (DSTU) Release 2
- * Supported the creation of a community of FHIR implementers



"If I had asked my customers what they wanted, they would have asked for a faster horse."

Henry Ford

Argonaut Phase II

- * Supported the development of resources for a FHIR implementation registry, FHIR conformance testing, and a robust source of stable resources and artifacts.
- * Completed the development of reliable specifications for security and authorization



Argonaut Phase II Implementation Program

- * Formalized implementation programs
- * Developed focused sprint initiatives
- * Implemented testing tooling & artifacts
- * Published test results for internal and external audiences



Argonaut Phase III Implementation Program

Welcome to the Argonaut Project Implementation & Testing Wiki

Sprint	Dates	Check-in Meetings
Sprint 1: Patient, Allergies, Problems	5/25 - 6/14	Tuesday 5/25 3-4PM ET
Sprint 2: Vital signs, Labs, Smoking, Care Team	6/14 - 7/5	Tuesday 6/14 4-5PM ET
Sprint 3: Medications, Immunizations, Goals, UDI	7/5 - 8/2	Tuesday 7/5 4-5PM ET
Sprint 4: Procedures, Plan of treatment	8/2 - 8/30	Tuesday 8/2 4-5PM ET
Sprint 5: Assessment, Health Concerns	8/20 - 9/27	Tuesday 8/30 4-5PM ET
Sprint 5: Review	9/27	Tuesday 9/27 4-5PM ET

For discussion and collaboration on either Argonaut-focused implementation activities or Argonaut-focused FHIR development please use the Argonaut Project Google Group



Argonaut Implementation Program

To date, there are over 150 healthcare systems, vendor corporations, academic institutions, government agencies, pharmaceutical companies, payer organizations, and independent developers committed to supporting and implementing solutions based upon FHIR specifications.



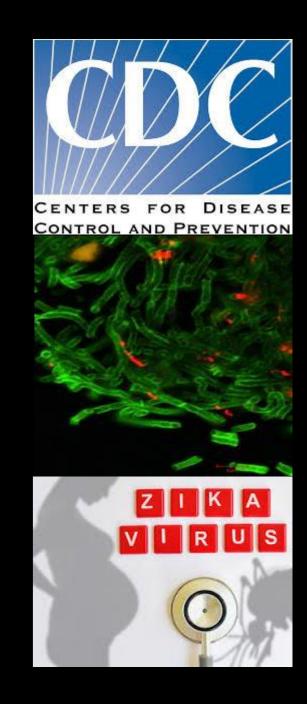


Collaboration

FDA has enabled an ecosystem with 15,000 open APIs that support FHIR



CDC is collaborating with the FHIR application developers for public health reporting



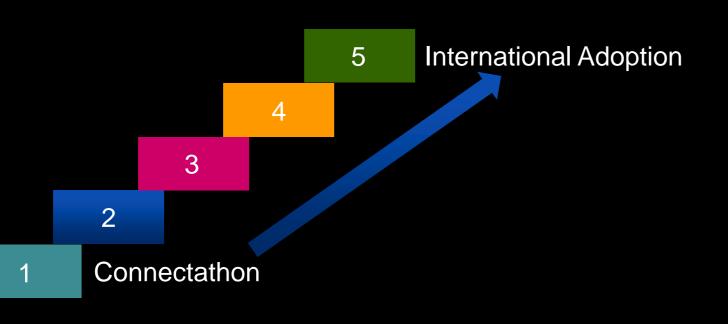
HL7 FHIR Foundation



The mission of the newly announced FHIR Foundation is the support of implementers and implementation*



The international *FHIR Maturity Model* was envisioned to ensure developers of the value and stability of FHIR





Government regulation only codifies standards.
Standards bring value when they are adopted in the marketplace.



Partners in Interoperability



The HL7 Partners in Interoperability is a coalition of various stakeholders, including Medical Societies, BioPharma, and the Payer community, paving a path toward interoperability



More than two hundred clinical organizations, IT developers, government agencies and healthcare systems worldwide are now committed to developing FHIR applications









CMS is coordinating a diverse ecosystem of developers for creation of the Blue Button on FHIR







Precision Medicine Initiative Implementing FHIR

June 28, 2016 Washington







FHIR Applications Roundtable

- * Showcase for FHIR Apps & Development tools
- * Platform for best practices & collaboration
- * 28 Apps & tools in demonstration environment
- * Harvard Medical School, July 27-28



Payer Summit Implementing FHIR

July 11-12, 2016 AHIP Innovation Center Chicago



HL7 FHIR Clinical Connectathon

September 23, 2016 Baltimore





CHIME Standard of Standards

Initiative





HL7 International Genomics Summits

October 27-28, 2016 Washington

HL7 FHIR Half-day Tutorial for CMIOs & Medical Informatics Professionals with a focus on implementation Sunday, November 13



International BioPharma Leveraging FHIR



Joint meeting with FDA TBD

The only standard that never changes is the standard you never use.



Normative version of FHIR, backward compatible with Release 2.1, is planned for the Spring of 2017







Looking Ahead





CDA Enhancement



CDA Enhancement US ONC Funded

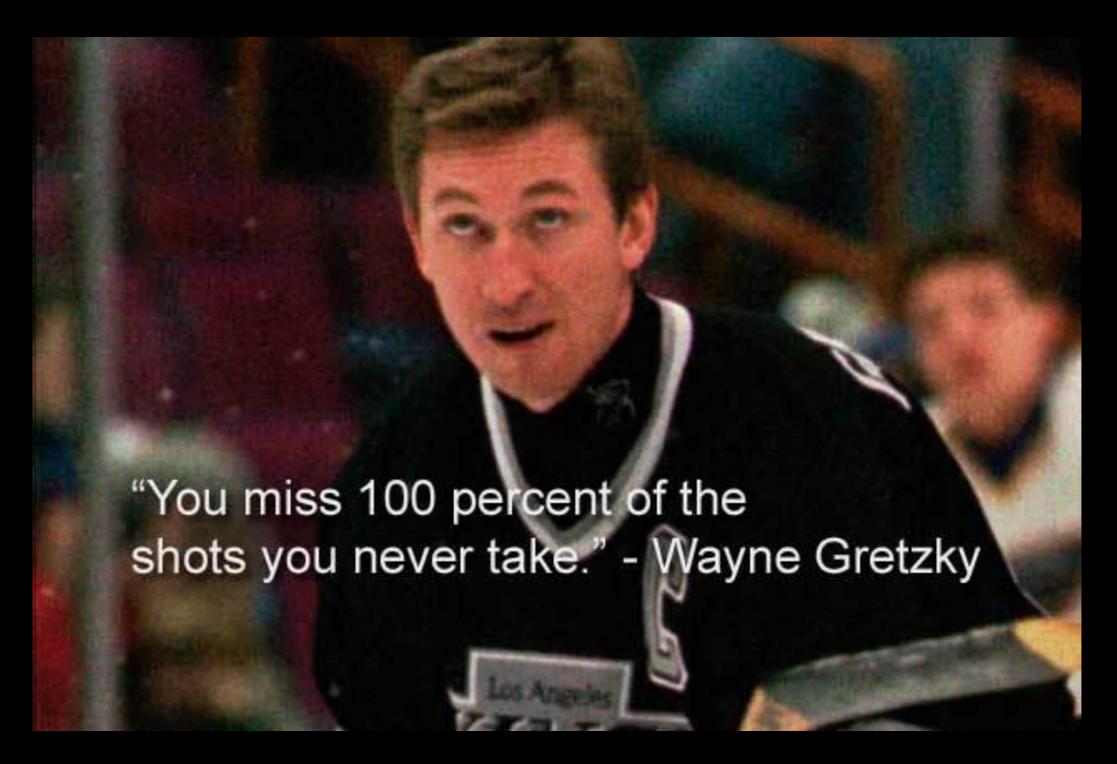
- * Implementation-a-thon
 - Second event to be held September 14-15
- * Companion Guide
 - For ballot with September cycle
- * Rendering Tool Challenge Results announced at September Plenary
- * Platform for C-CDA Examples
 - RFP released in August
- * Scorecard Development



A standard is not used because we created it. It is a standard because people use it.



Change Management





Some undocumented & unattributable thoughts

According to a Fruit Company in Cupertino

I can say that Apple announced the use of CDA in the Healthkit during the World Wide Developers Conference two weeks ago.



Health Records

Overview

Represent different types of patient visits Support international HL-7 CDA standard Available through patient health care portals

Imported via Safari, Mail, and your apps







Industry Consolidation is a fait accompli

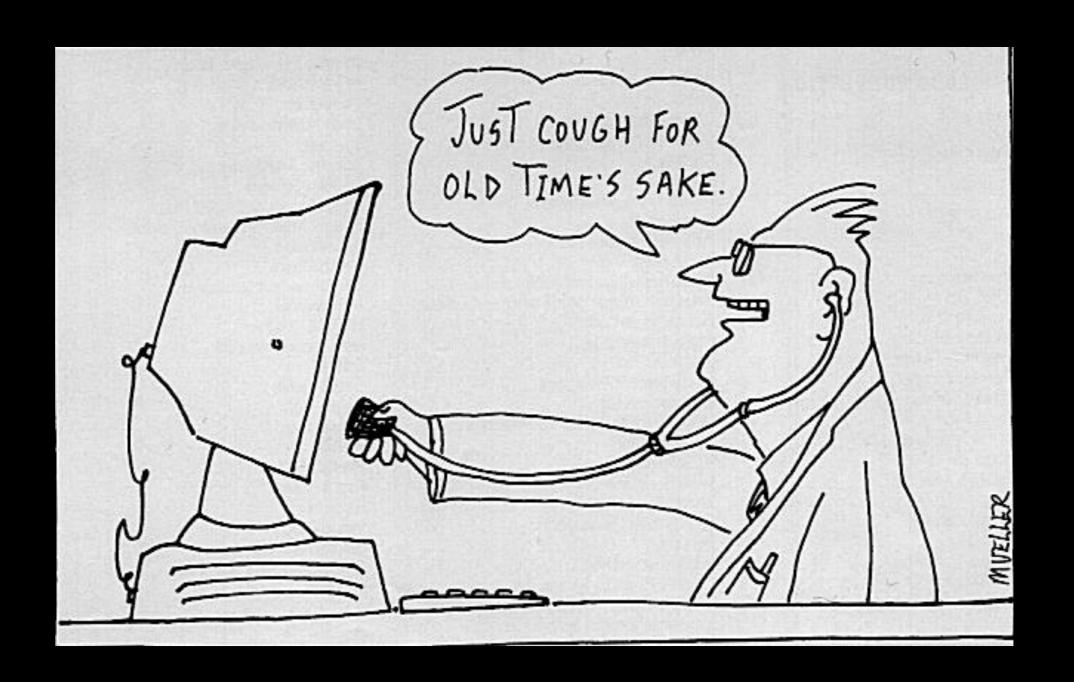
It's a lot like baseball...you win some, you lose some, and some are rained out.

HL7 FHIR Panel

June 23 9:30 -10:30



Thank you



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