



FHIR Implementation and Transition Planning

ONC Annual Meeting
November 30, 2018



Today's Panel

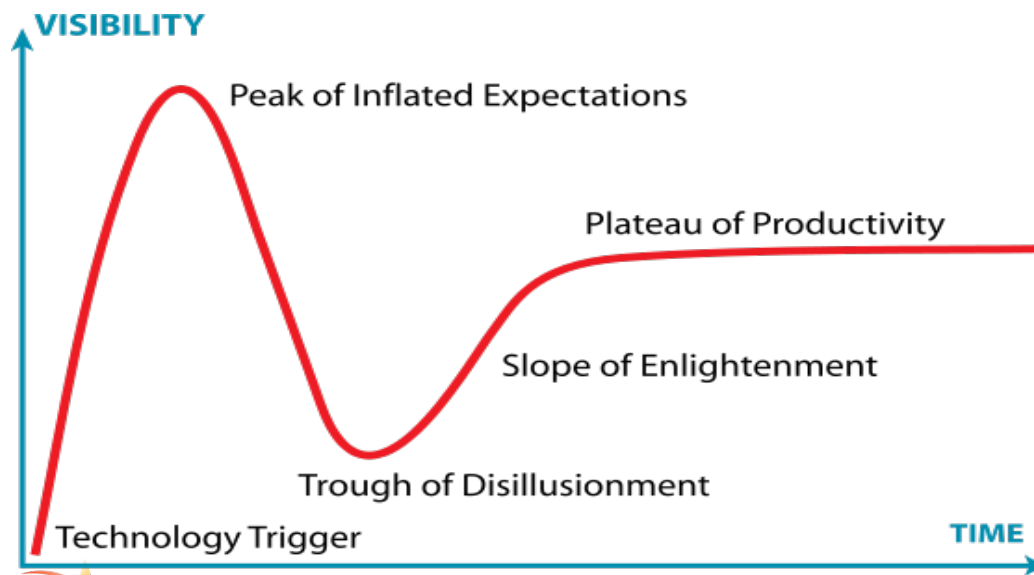
- Janet Campbell – Vice President, R&D Relations, Epic
- Russell Leftwich, MD – Senior Clinical Advisor, Interoperability, InterSystems
- Hans Buitendijk – Director, Interoperability Strategy, Cerner Corporation
- Moderator: Avinash Shanbhag – Deputy Director, Office of Technology, ONC

FHIR Is Hot

- Approximately 32% of health IT developers have used “FHIR Release 2” to certify to § 170.315(g)(8) (“Application access—data category request”).
- Nearly 51% of health IT developers appear to be using a version of FHIR combined with OAuth 2.0.
- The estimated market share of the health IT developers that make up the “the “32%” is large.
 - » About 82% of hospitals and 64% of clinicians use these developers’ certified products.

Are we there yet?

- “FHIR and the Gartner Hype Cycle” posted by Wes Rishel on Grahame Grieve’s FHIR blog site
 - » <http://www.healthintersections.com.au/?p=2847>
- General Thesis of the Blog:
 - » FHIR has lots of “adoption” but may not be in the “Plateau of Productivity”





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Janet Campbell – Epic

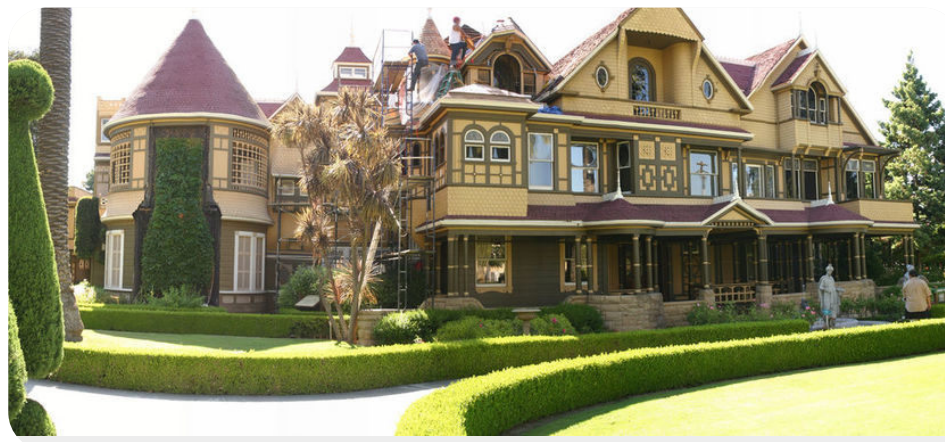
Vice President, R&D Relations



Epic's plans, like a house on FHIR



Routine maintenance



Add a new wing or two



Let's get creative





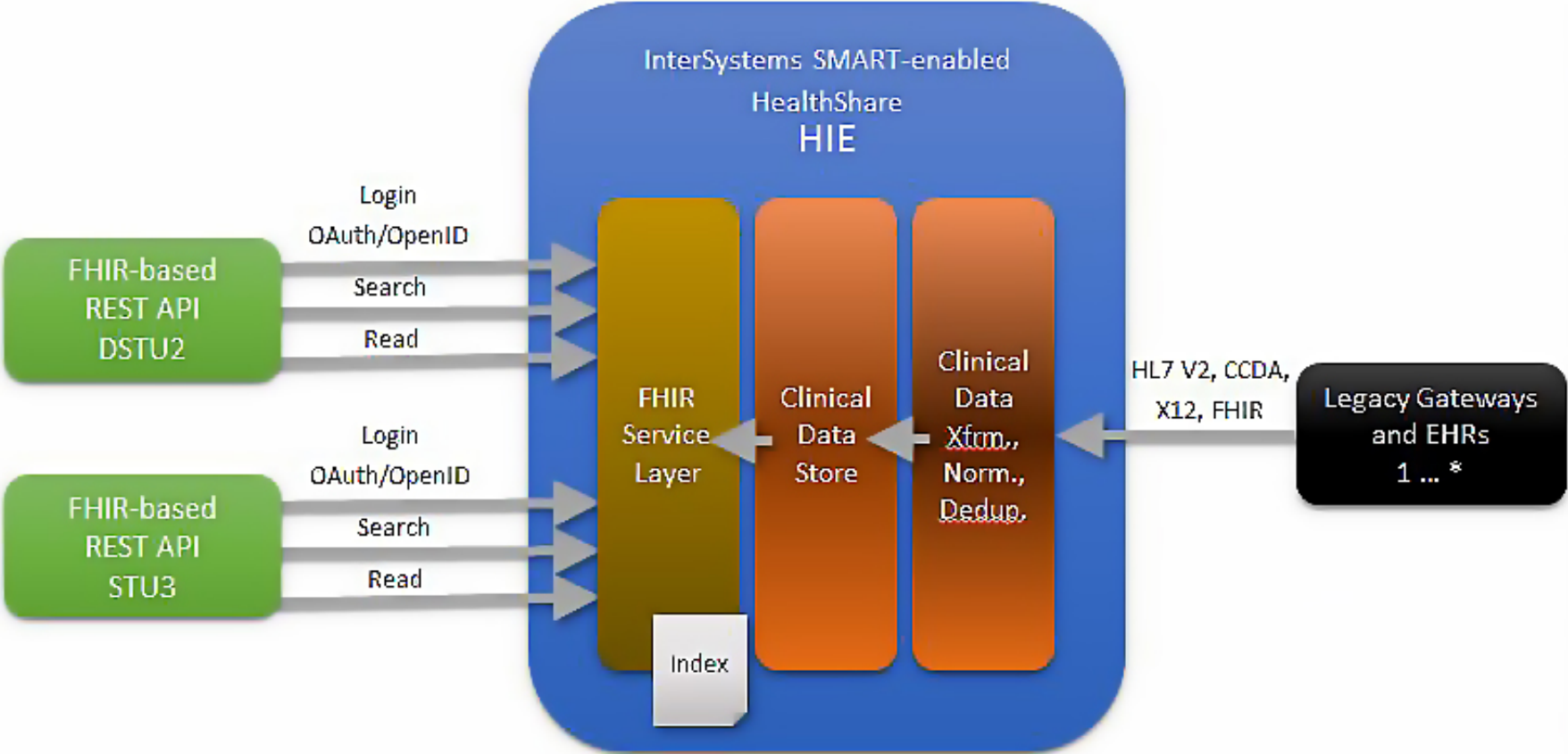
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Russell Leftwich, MD – InterSystems

Senior Clinical Advisor, Interoperability



SMART Enabled HealthShare Information Exchange



Lessons Learned: FHIR in HealthShare

- Conversion of HL7 v2 and CDA to/from FHIR
 - Expose **Unified Care Record** – aggregated/deduplicated, as FHIR
- SMART on FHIR API - FHIR Sandbox built on HealthShare
- Much faster response to FHIR data requests from API
- Both FHIR DSTU2 and FHIR STU3 API
- Support for FHIR based IHE exchange profiles
- Support for Care Plan data
- Innovators can add cloud based **IRIS for Health** data platform
 - Create additional FHIR servers including write-back ability & FHIR endpoints
 - Develop FHIR apps and FHIR based CDS
 - Utilize transforms to/from HL7 v2 and CDA to FHIR
- Coming attractions ... FHIR R4, bulk data – pop health, write-back API



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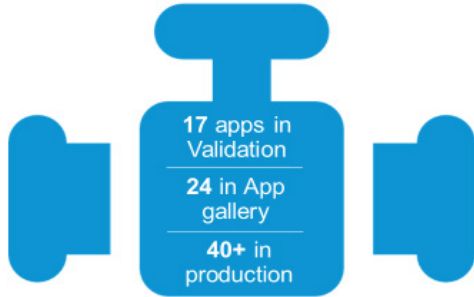
Hans Buitendijk – Cerner Corporation

Director, Interoperability Strategy



Growing the innovation pipeline

2,600 apps registered in sandbox



App Gallery: Validated provider focused, FHIR-based SMART Apps

50%+ of Clients up and running

35,000+ unique app users

App gallery

We Support In Production:

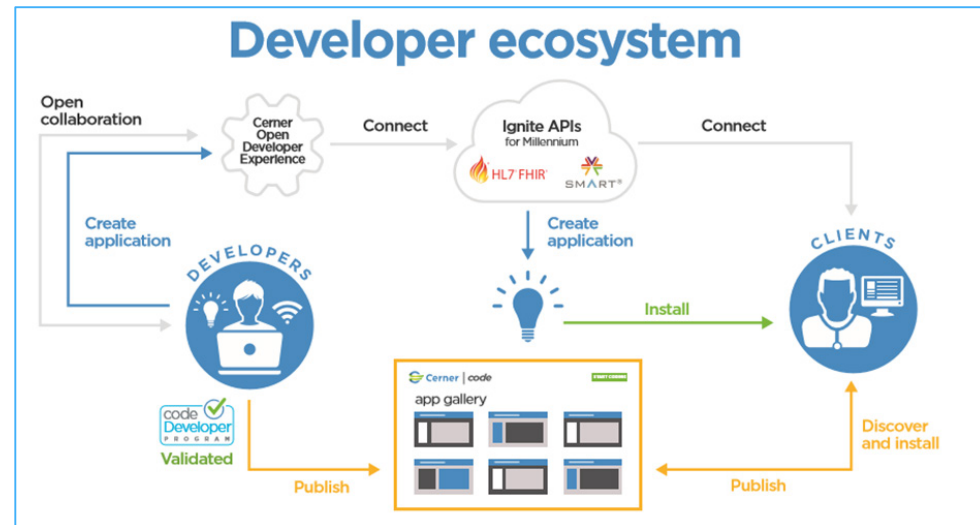
| | |
|--------------------------|-------------------|
| FHIR DSTU2 / Argonaut V1 | R: 22 R/W: 8 W: 1 |
| FHIR STU3 / R4 / US Core | Roadmap |
| CDS Hooks | Roadmap |



Da Vinci



P2



Experiences & Challenges

- Participation in **code** creates confidence!

- **Provider Focused Apps**

- » **Developer**

- Workflow Integration
- Various other

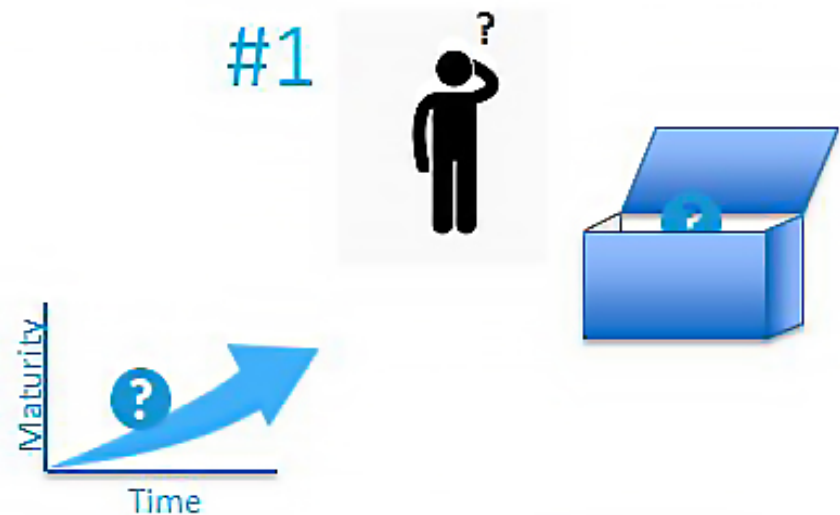
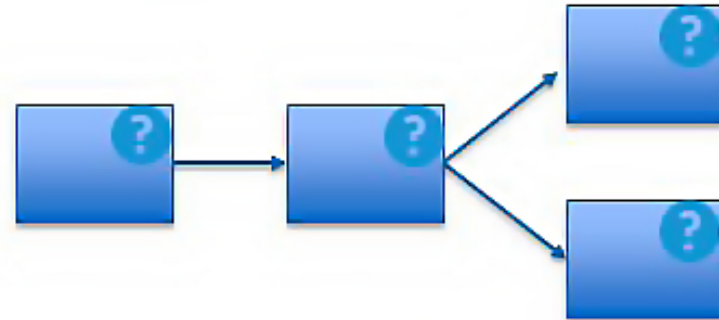
- » **Clients**

- The first app

- **Consumer Focused Apps**

- » **Availability**

- » **Maturity Concerns**





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Thank you!



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