



DA VINCI PROJECT UPDATE

January 14, 2018



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Project Challenge

To ensure the success of the industry's **shift to Value Based Care**



Pre-Collaboration / Controlled Chaos:

Develop **rapid multi-stakeholder** process to identify, exercise and implement initial use cases.



Collaboration:

Minimize the development and deployment of **unique solutions**.
Promote industry wide **standards** and adoption.

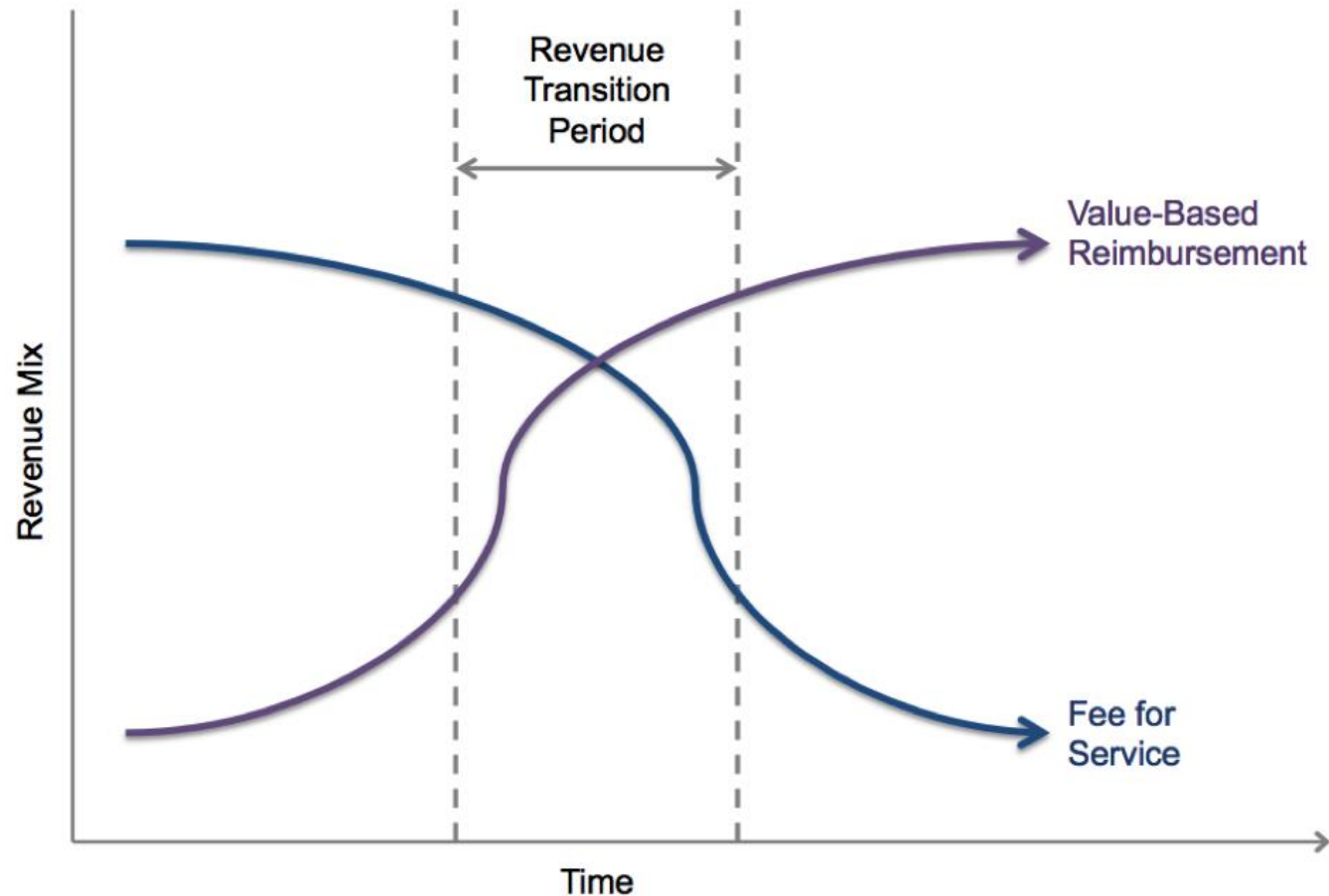


Success Measures:

Use of FHIR®, implementation guides and pilot projects.

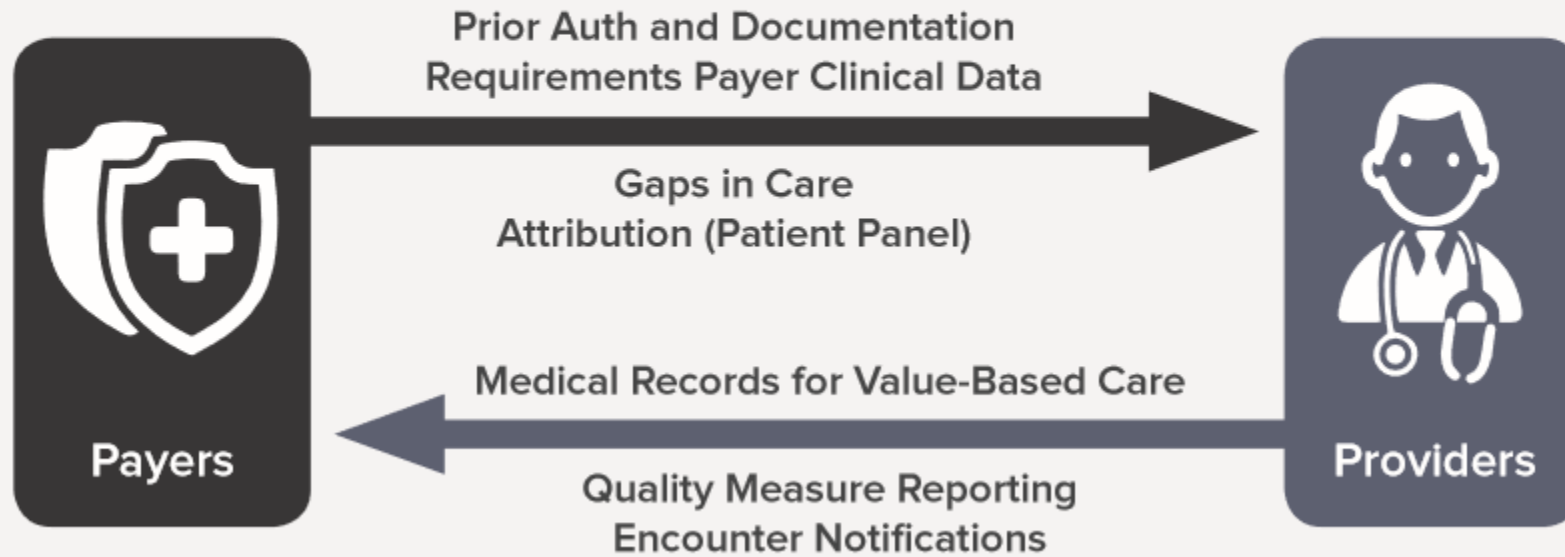


Empower End Users to Shift to Value



As a private industry project under HL7 International, Da Vinci will unleash critical data between payers and providers required for VBC workflows leveraging HL7[®] FHIR[®]

In Less Than Two Years, Da Vinci Efforts Will Drive Standards for the Exchange of Information Critical to Patient Care



2019 MEMBERSHIP

Founding Members



Da Vinci Members

Premier Members



Associates



of Tennessee





Da Vinci Members

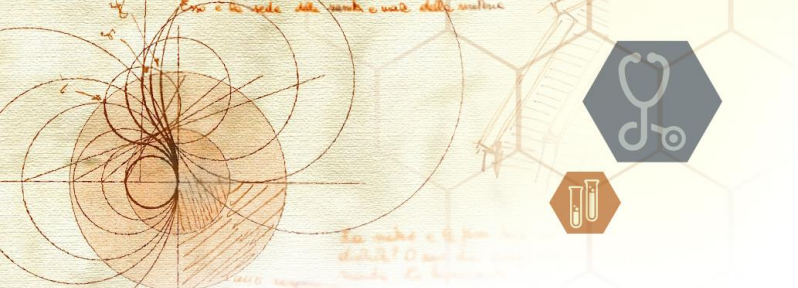
Sponsors



Members



ACTIVE USE CASES



Expanding Functionality Across Workflows

Quality Measure Collection

Data Exchange for Quality Measures

Gaps in Care

Risk Based Contract Member Identification

Clinical Data Exchange

eHealth Record Exchange:
HEDIS/Stars & Clinician Exchange

Alerts:
Notification (ADT),
Transitions in Care,
ER admit/discharge

Laboratory Results

Pre Order Burden Reduction

Coverage Requirements Discovery

Documentation Templates and Coverage Rules

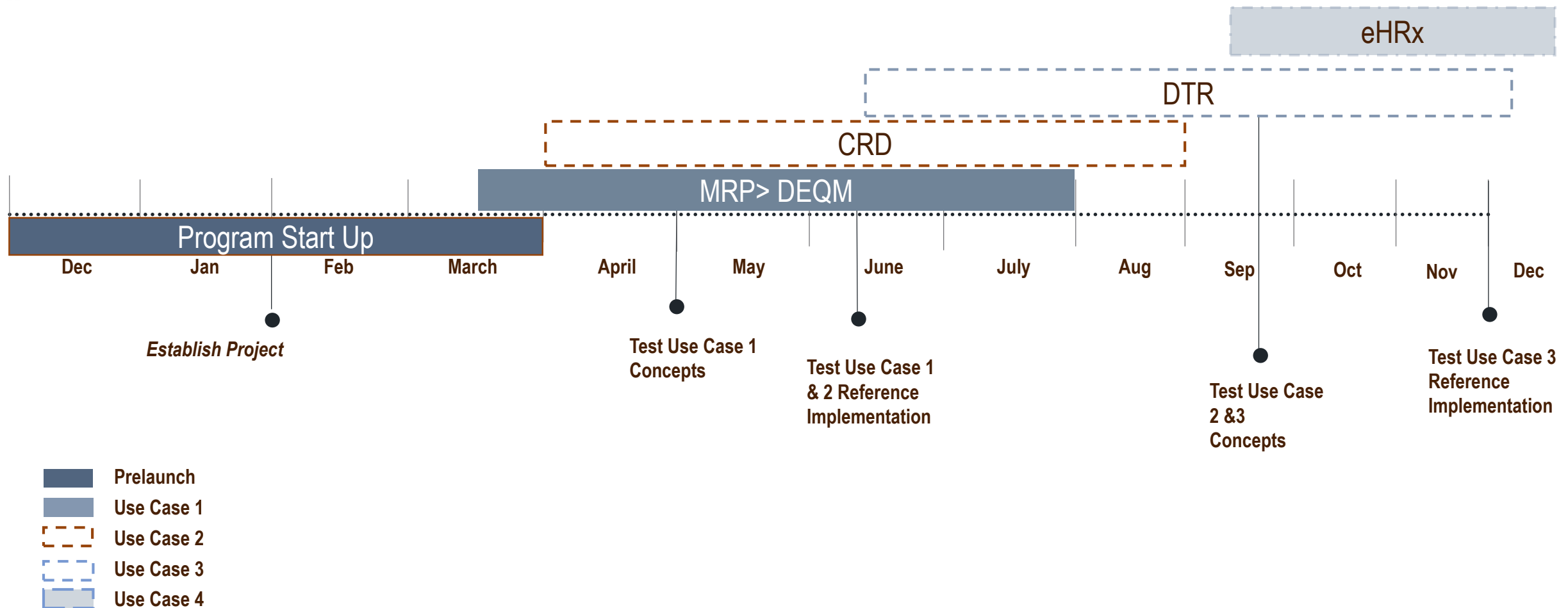
Authorization Support

Use Case Alignment

Observations

- Relationships emerging around use cases
- Early use cases create building blocks, incremental improvements
- Currently three categories with expectations others will emerge as we advance and mature existing and add new use cases

Da Vinci 2018 Use Cases –Year 1

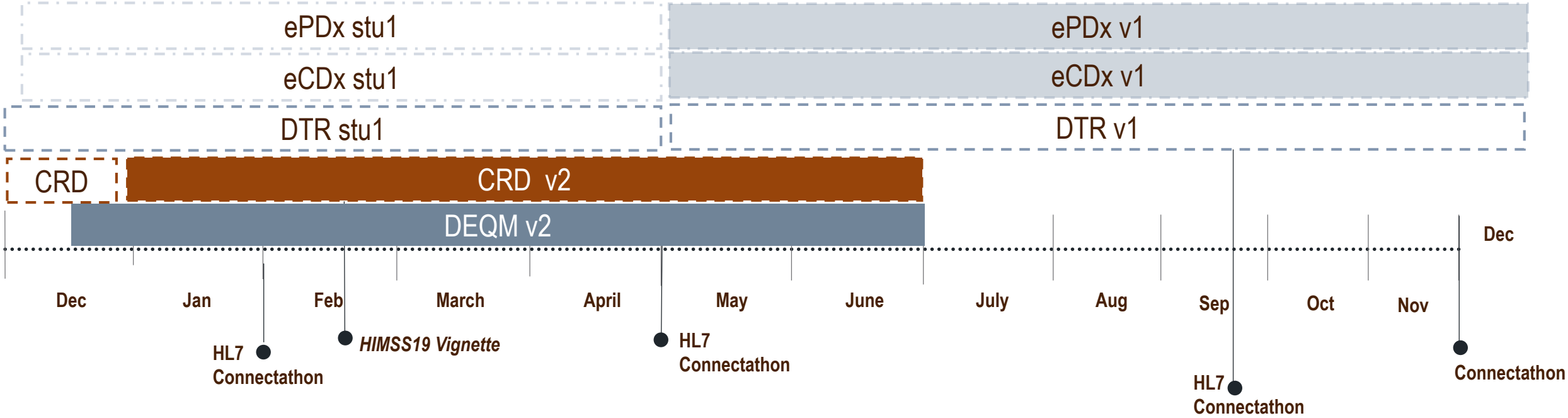




Da Vinci 2018 Use Cases –Year 2

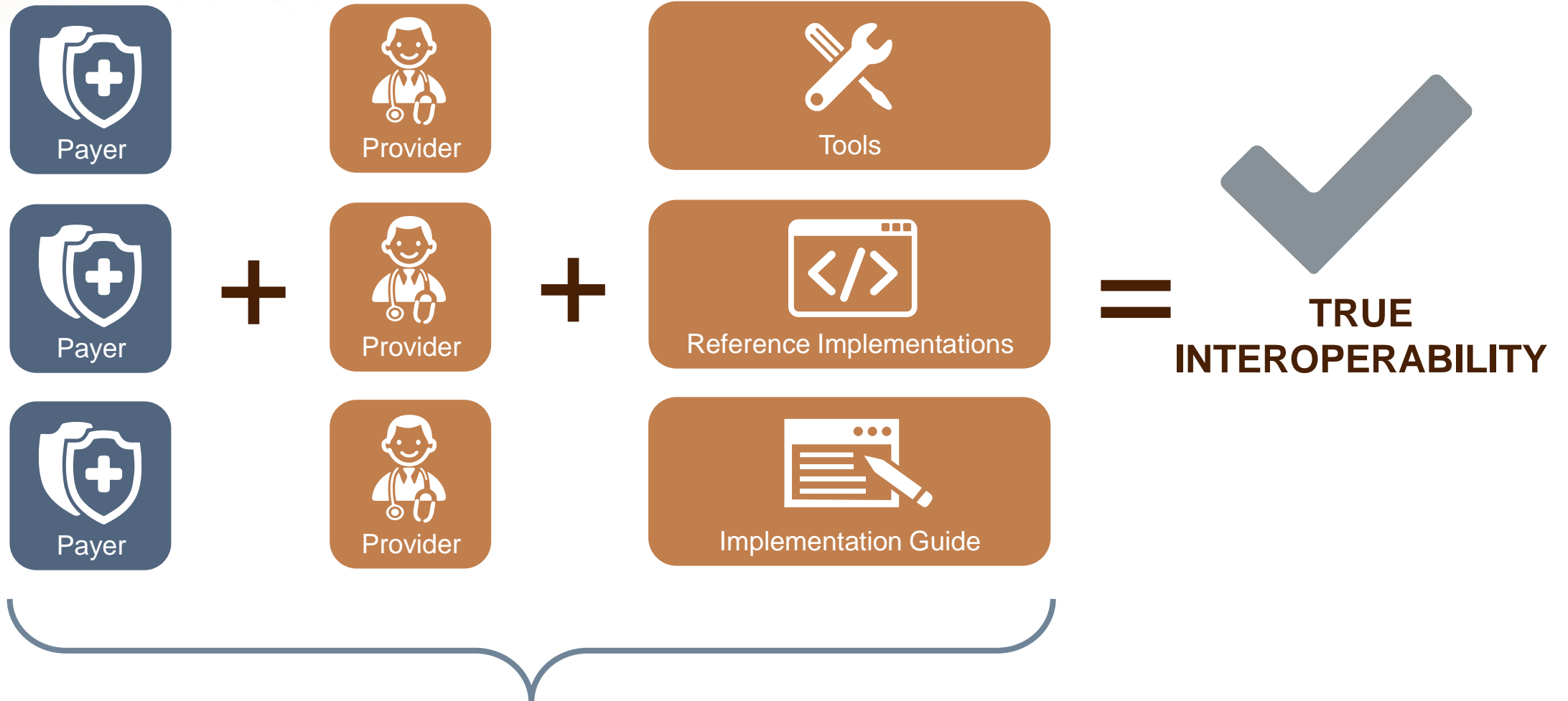
Proposed Gaps in Care Use Case 6

Proposed Auth Support Use Case 5



- Use Case 1
- Use Case 2
- Use Case 3
- Use Case 4
- TBD Use Cases

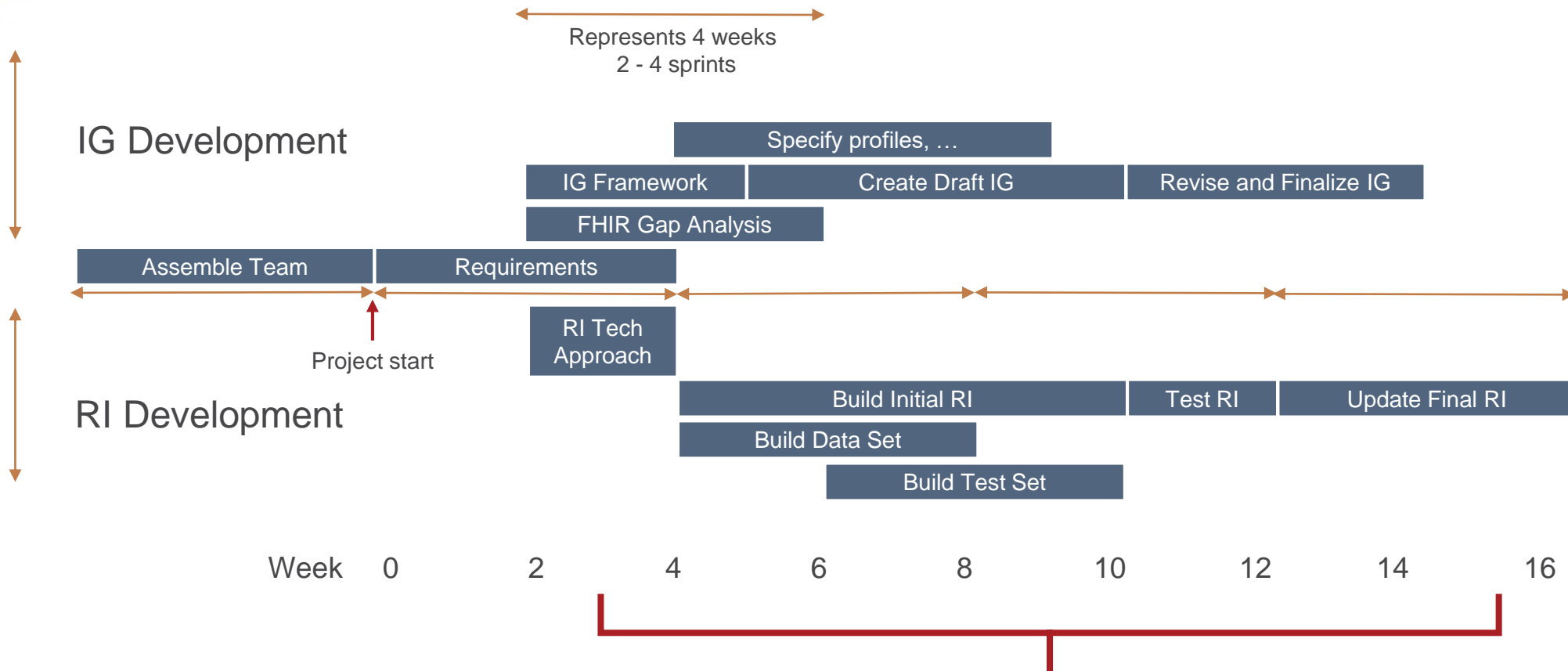
Progress Toward End Goal



Build Your Implementation Success Story

Use Case Details

Sample Project Timeline



Work with appropriate HL7 workgroup for IG sponsorship and input



30 Day Medication Reconciliation

- Need for provider to attest that Med Rec has been completed post-discharge
- Increasingly required for HEDIS and commercial at risk contracts
- Focus is to compare pre/post medication lists to avoid errors
- Today done through claims processing or manual review of lists



Implementation Guide Shifted to Framework to Support Wider Set of Data for Quality

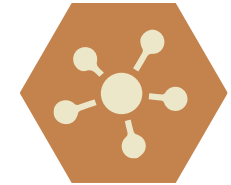
Acute Care



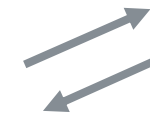
1. Discharge Notification



Provider



Payer



2. Med Rec Need



Use case creates a common framework for quality data exchange

- Enables the exchange of raw quality measure data between quality measurement Teams and Care teams that provide patient care
- Timely exchange of key data is critical to evaluate and capture quality
- Future work will incorporate additional use cases

1. Submit



Payer

Submit Measure Data



OperationOutcome



Aggregator

2. Collect



Provider

Collect Measure Data



Return Measure Data



Payer

3. Subscribe



Aggregator

Subscribe for Measure Data



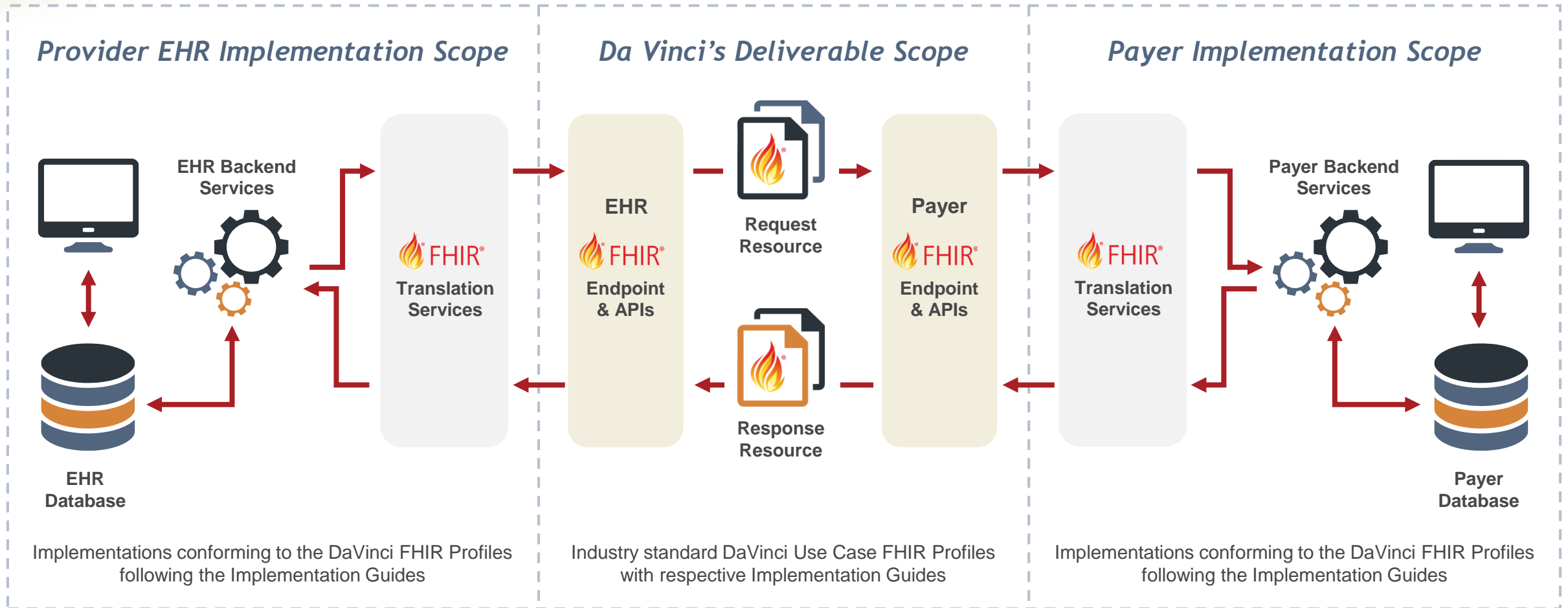
OperationOutcome



Provider

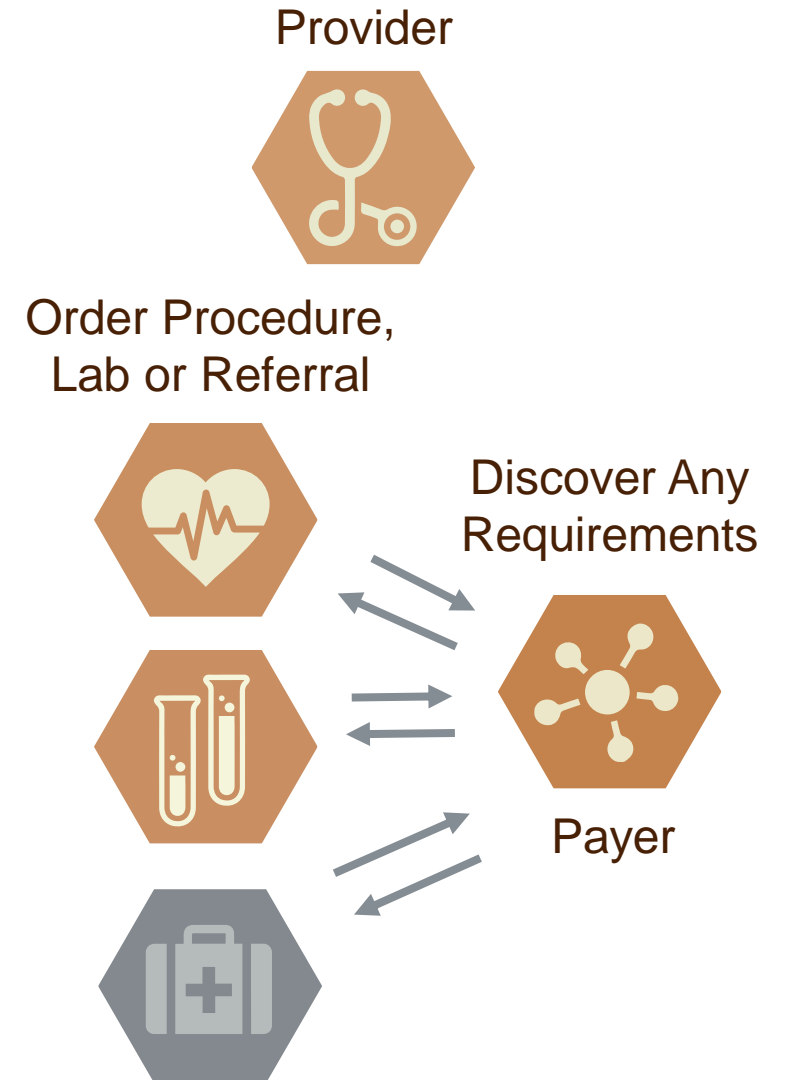
Quality Data Exchange Implementation Guide

Pilot Implementation REST Architecture Model



Coverage Requirements Discovery

- Providers need to easily discover which payer covered services or devices have
 - Specific documentation requirements,
 - Rules for determining need for specific treatments/services
 - Requirement for Prior Authorization (PA) or other approvals
 - Specific guidance.
- With a FHIR based API, providers can discover in real-time specific payer requirements that may affect the ability to have certain services or devices covered by the responsible payer.
- Response may be
 - The answer to the discovery request
 - A list of services, templates, documents, rules
 - URL to retrieve specific items (e.g. template)



Coverage Requirements Discovery Implementation Guide

1. Based on a specific clinical workflow event:
scheduling,
start of encounter,
planning treatment,
ordering,
discharge

Provider's send FHIR based request, with appropriate clinical context to the responsible payer

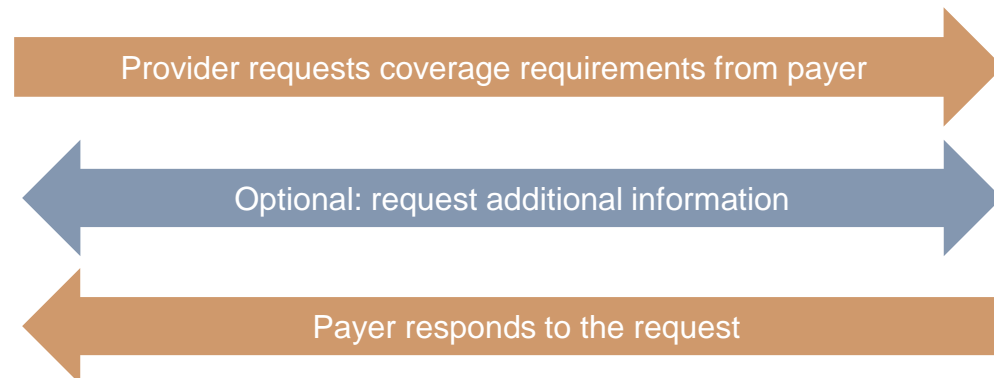
1. Payer may request additional information from the provider EHR using existing FHIR APIs
2. Payer responds to the EHR with any specific requirements that may impact the clinical decisions or coverage



Provider utilizes this information to make treatment decisions while considering specific payer coverage requirements.

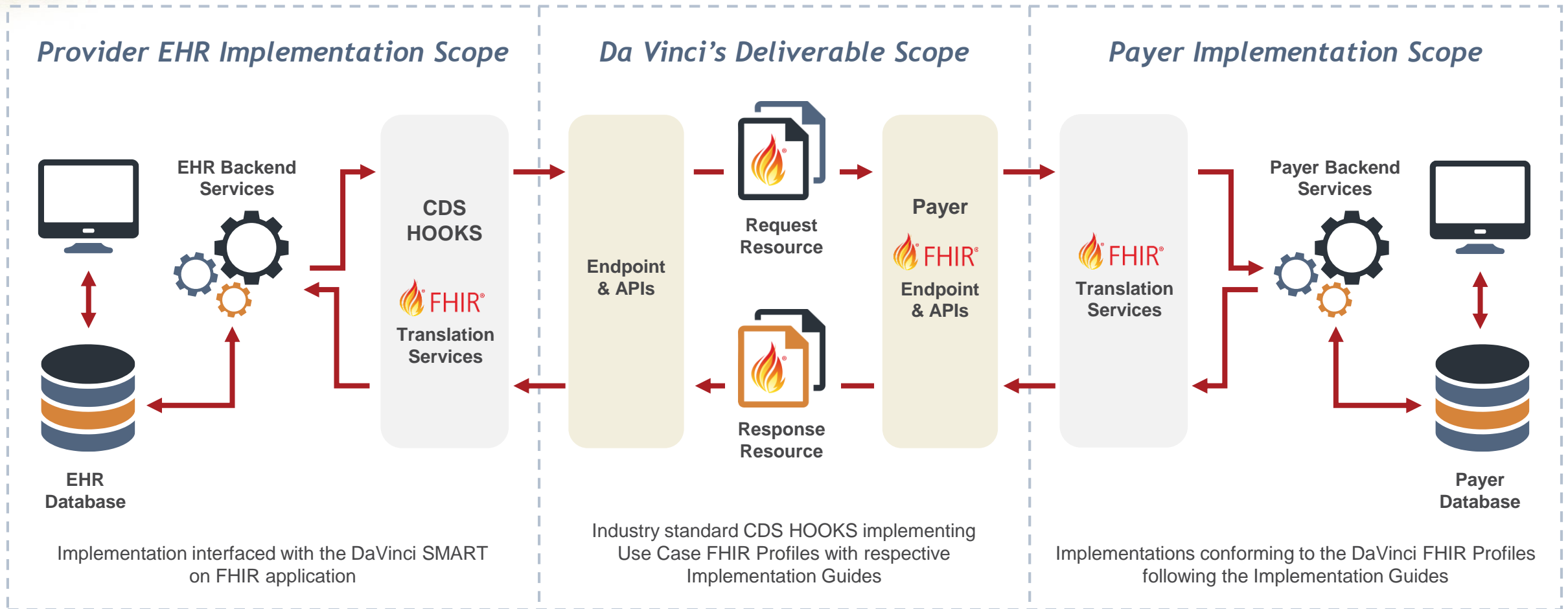


Provider



Payer

Pilot Implementation CDS Hooks/REST Architecture Model





Available Use Cases

Data Exchange for
Quality Measures

Ballot Reconciliation
& Connectathons

- Publish
- Identify Implementers
- Test
- Finalize next measure sets

- v2: sync with FHIR STU4
- Incorporate feedback
- Further define pattern

Coverage
Requirements
Discovery

Ballot Reconciliation
& Connectathons

- Publish
- Identify Implementers
- CMS drive Pilot Test

- v2: sync with FHIR STU4
- Incorporate feedback
- Add pricing by location functionality

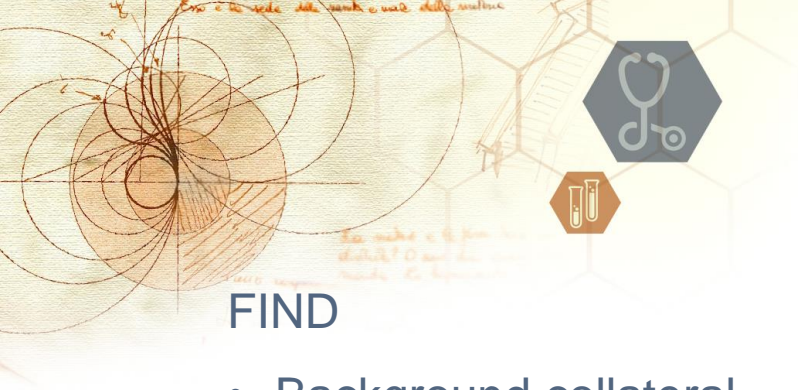


2019 In Flight Use Cases

Documentation
Templates and
Coverage Rules

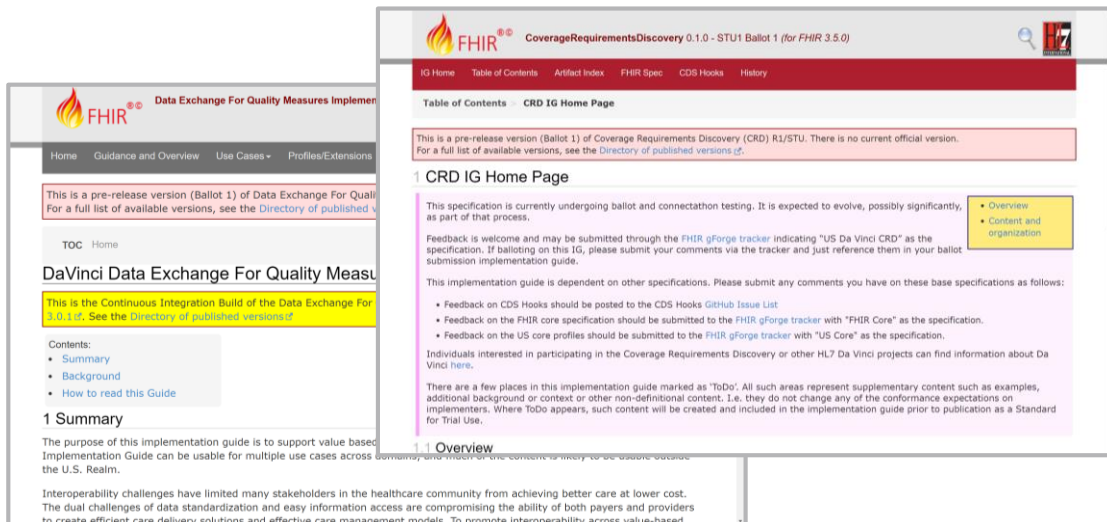
eHealth Record
Exchange:
HEDIS/Stars &
Clinician Exchange

Stage	Q12018 Activities	2019 Min Investment
Definition	<ul style="list-style-type: none">• Finalize scope• Gain support for Project Scope Statement• Identify Implementers	<ul style="list-style-type: none">• Ballot initial IG• Connectathons• Implementations• CMS Testing
Discovery	<ul style="list-style-type: none">• Drive architectural approach• Get IG work underway• Identify Implementers	<ul style="list-style-type: none">• Ballot initial IG for payer to provider, provider to payer & eHRx framework• Connectathons• Implementations



FIND


- Background collateral
- Implementation Guide
 - Balloted Sept '18, reconciliation underway
- Reference Implementation
 - HL7 Connectathon participants
 - Publicly available



Follow Progress, Test, Implement

RESOURCES

- HL7 Da Vinci Wiki & Listserv signup - <http://www.hl7.org/about/davinci/index.cfm>
- HL7 Confluence Site - <https://confluence.hl7.org/display/DVP/>
- Data Exchange For Quality Measures (DEQM) Implementation Guide STU1 Ballot 1
 - <http://hl7.org/fhir/us/davinci-deqm/2018Sep/STU3/index.html>
- Coverage Requirements Discovery (CRD) Implementation Guide STU1 Ballot 1
 - <http://hl7.org/fhir/us/davinci-crd/2018Sep/index.html>
- Reference Implementation Code Repository - <https://github.com/HL7-DaVinci>

The background of the slide features a collage of Leonardo da Vinci's sketches. In the top left, there are circular diagrams with intersecting lines. In the top right, there are architectural drawings of buildings. In the bottom right, there are mechanical sketches of a crane and a pump. Scattered throughout are several hexagonal icons: a stethoscope, two test tubes, a mortar and pestle, a heart with a pulse line, and a first aid cross. The sketches are in brown ink on a light tan background.

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