



OHT Board Presentation on Conformance Services

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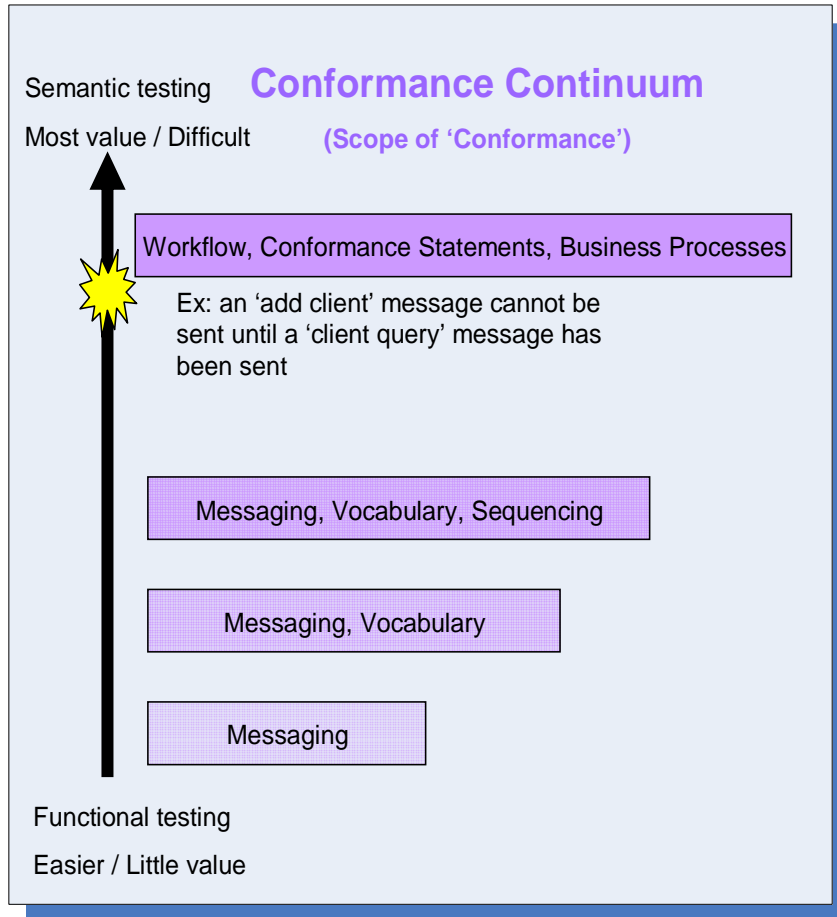
Presentation Purpose

- Provide update to the OHT participants on Conformance Services within Canada Health Infoway's Standards Collaborative (SC)
- To review the SC's approach for development of Conformance testing artefacts, tools and process, in order to support implementation of standards-conformant applications
- To discuss opportunities for collaboration between OHT and the SC going forward

Conformance Services - Our Vision...

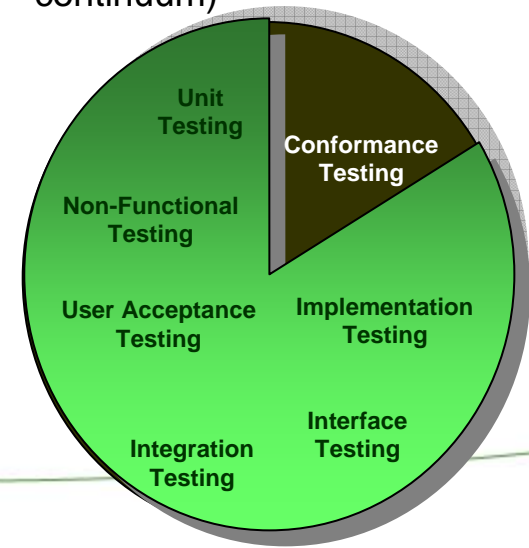
- To support the successful implementation of pan-Canadian Standards within projects through the provision of conformance testing artefacts and tooling.
 - To improve the consistent implementation of pan-Canadian Standards
 - To reduce the effort required to implement pan-Canadian Standards
 - To reduce the cost of implementing pan-Canadian Standards

Conformance Continuum

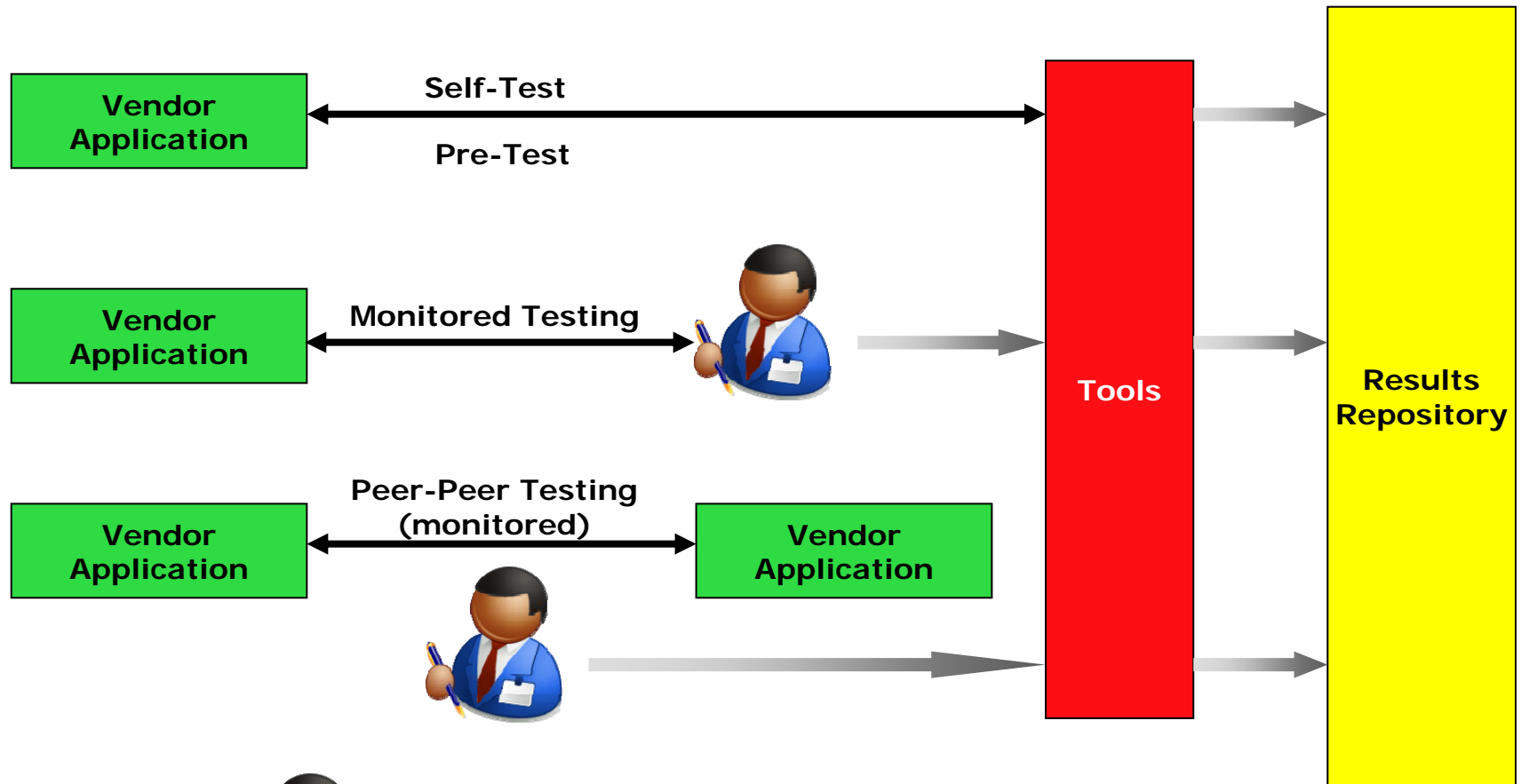


- Message conformance includes:
 - Message content and structure
 - Vocabulary and terminology
 - Interoperability profiles and message sequencing
 - Sending and receiving applications and intermediaries

- Conformance Testing includes:
 - Functionality of application
 - Basic privacy and security services related to the functionality
 - Workflow (to an optimal level determined by conformance continuum)

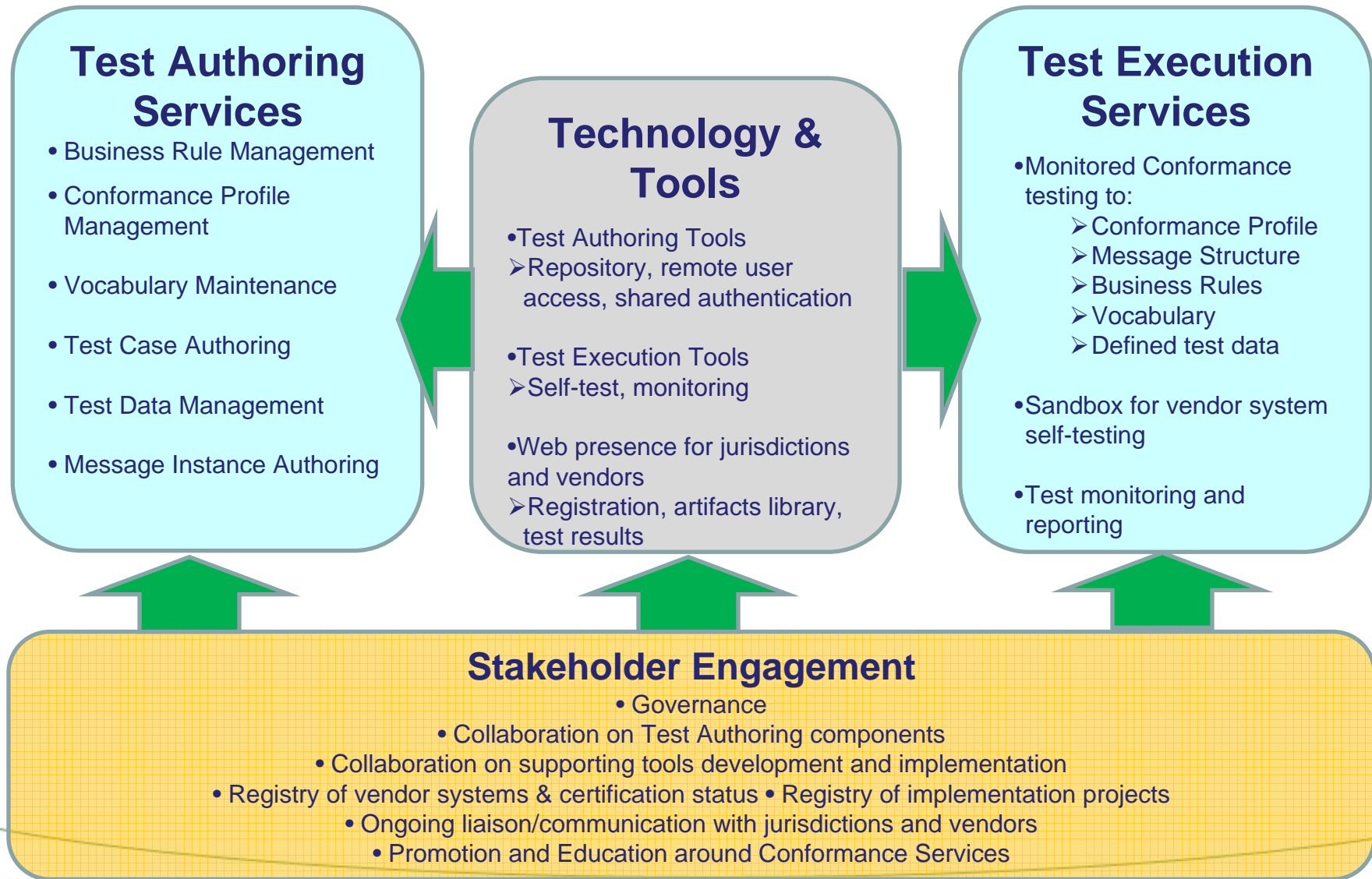


Test Execution Delivery Models



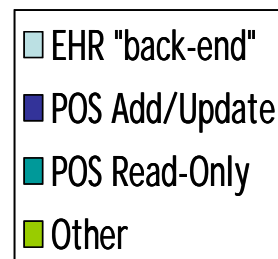
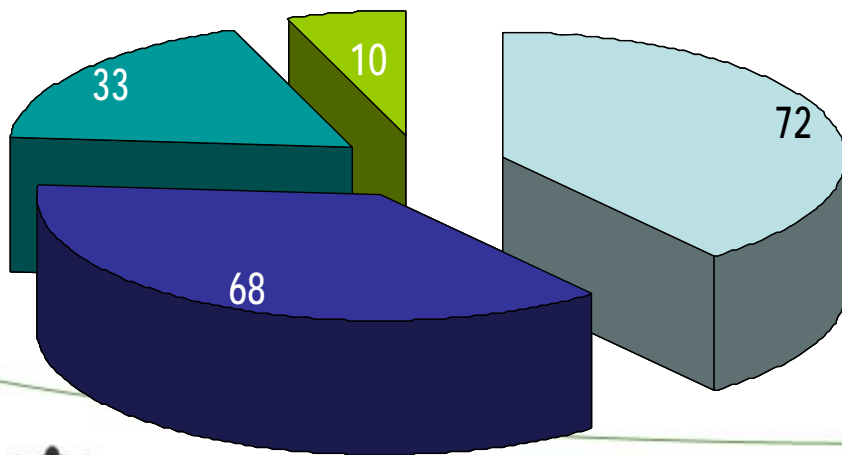
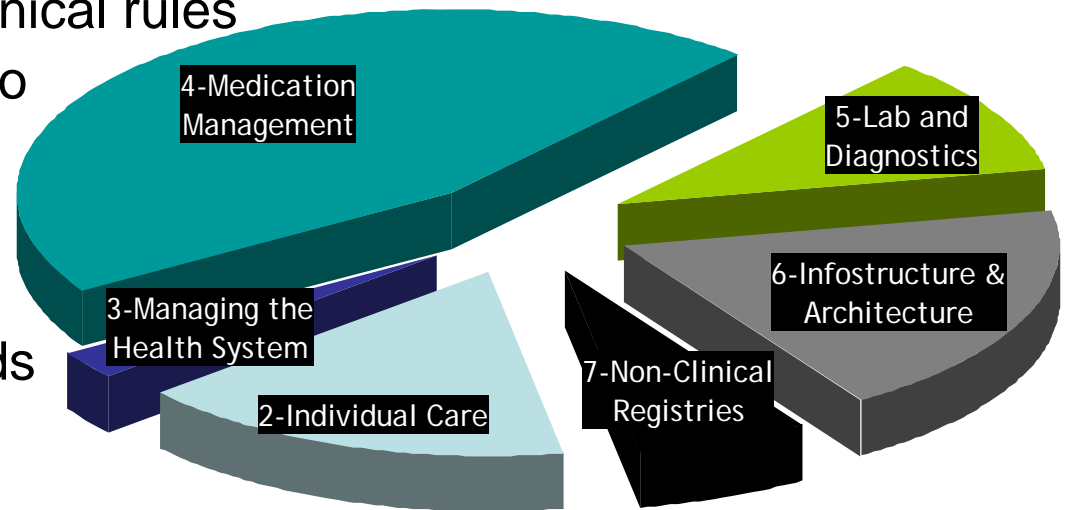
- Delivered by an Independent Testing Authority

Overview of Conformance Services

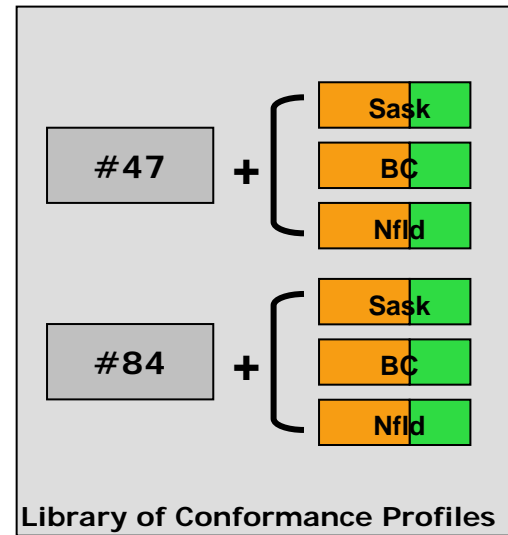
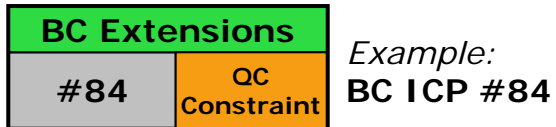


Conformance Profiles & Test Authoring

- Conformance Profiles are groupings of Standards into testable units
 - Based on expected product functionality
- Test Authoring brings together the test data and the business and technical rules with the Conformance Profiles to produce test cases
- Canada has defined initial suite of conformance profiles for scope of Canadian Standards



Conformance Profiles



Conformance Services – Tooling Vision...

- To create a suite of integrated Conformance Test tools based on Open Source principles and accepted pan-Canadian standards that allows jurisdictions, and vendors to perform conformance testing for EHR Solutions
- Tooling vision includes:
 - Well documented processes and procedures to conduct conformance testing
 - A repository of structured conformance profiles, test cases, test data and business rules that can be reused by multiple projects
 - A suite of re-usable conformance testing solution components based on best of breed Open Source development tools and techniques, able to easily exchange structured data between each component and projects
 - An Enhanced Web Based Presence to allow remote administration, self registration, shared resources management, self testing / monitoring and publication of results

Conformance Tooling

TEST AUTHORIZING

- Business rule mgmt
- Conformance profile mgmt
- Vocabulary maintenance
- Test case authoring
- Business test data mgmt
- Message instance authoring

TEST EXECUTION

- Load test case
- Navigate test component
- Perform test
- Validate, report test result
- Persist test artefacts

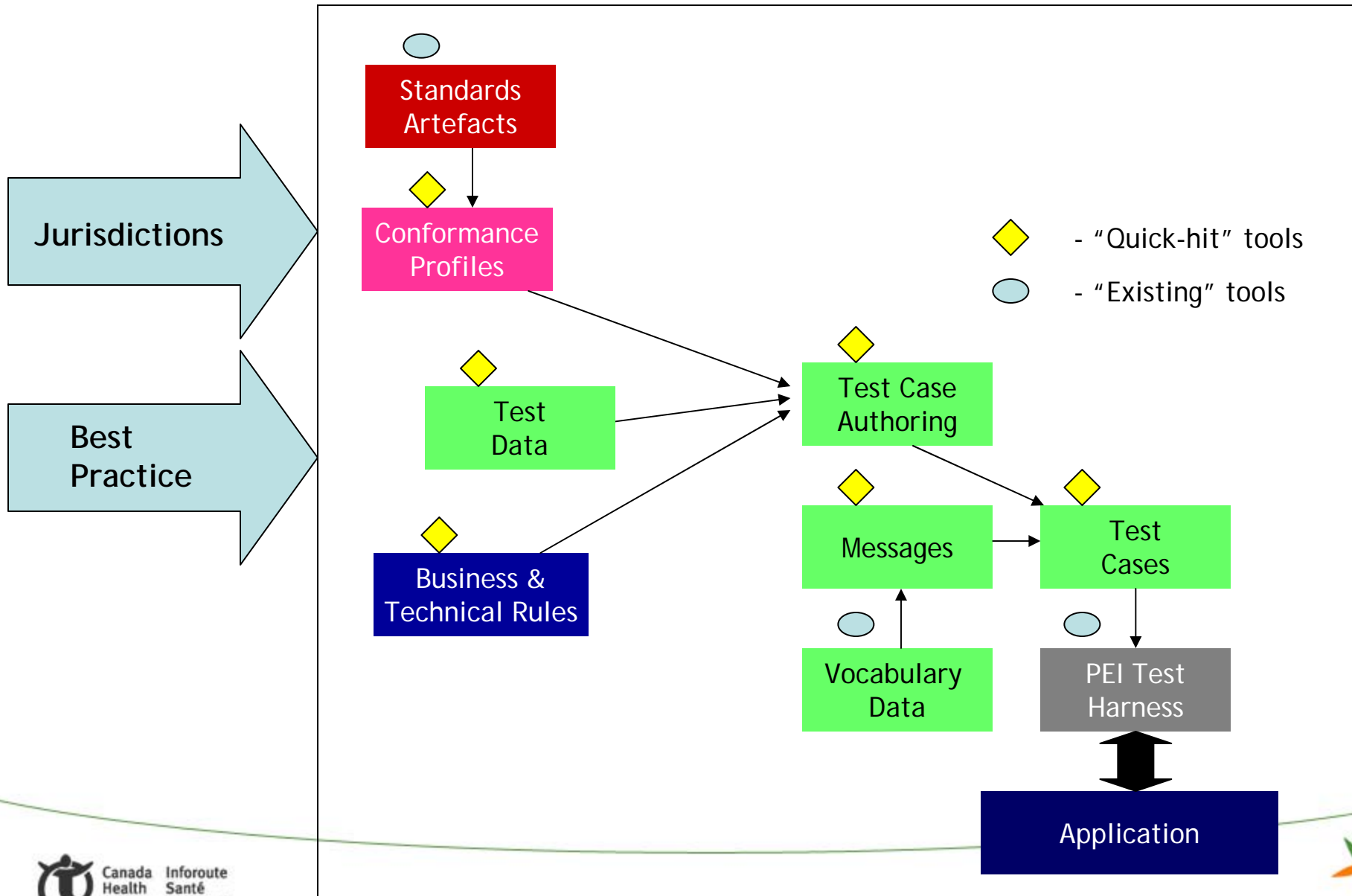
Additional New Functions

- Initial artefact repository
- Launch pad
- Simple reporting

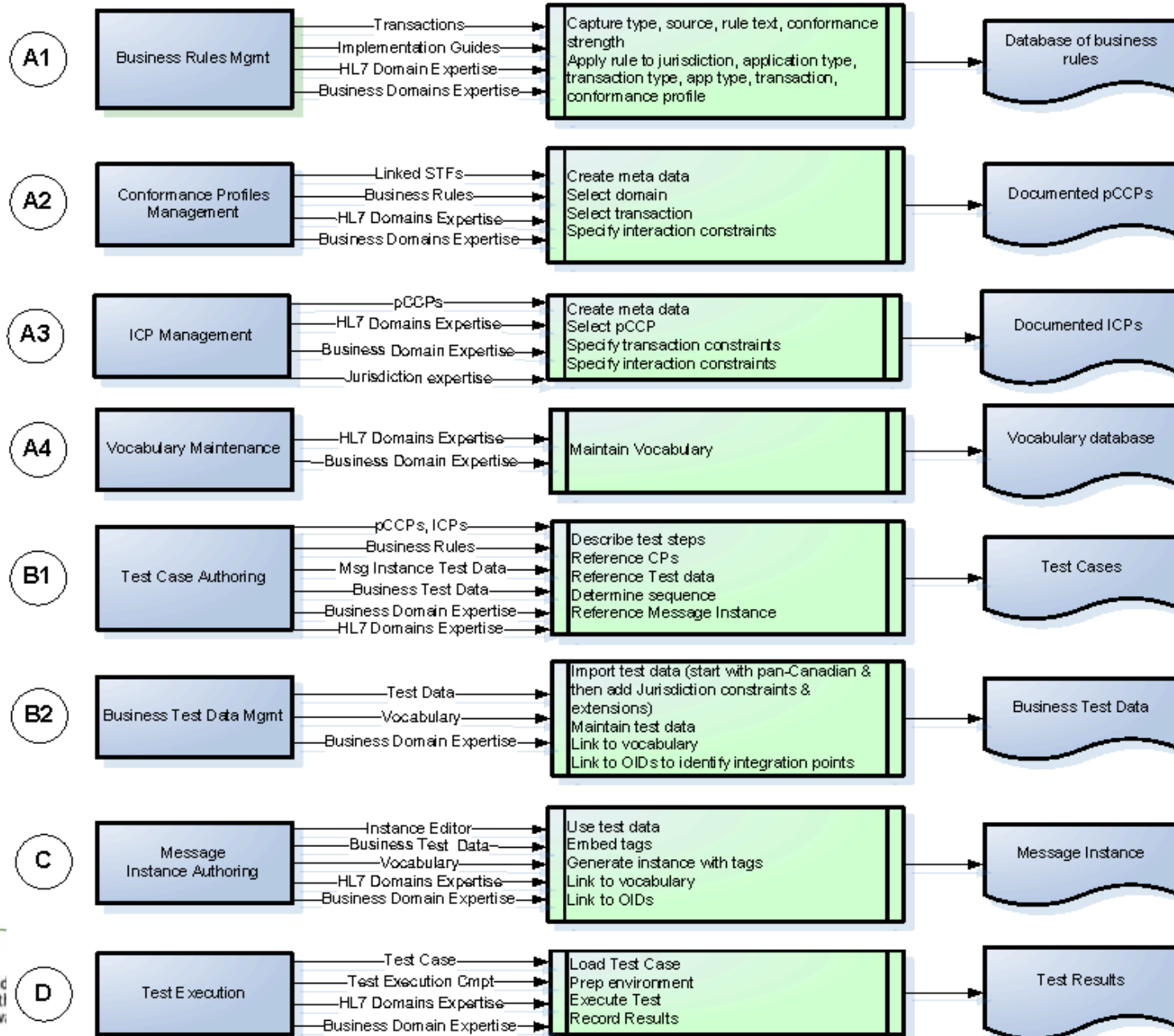
WEB PRESENCE

- Jurisdiction ICP
- Pan-Canadian conformance specs
- Open source tooling references

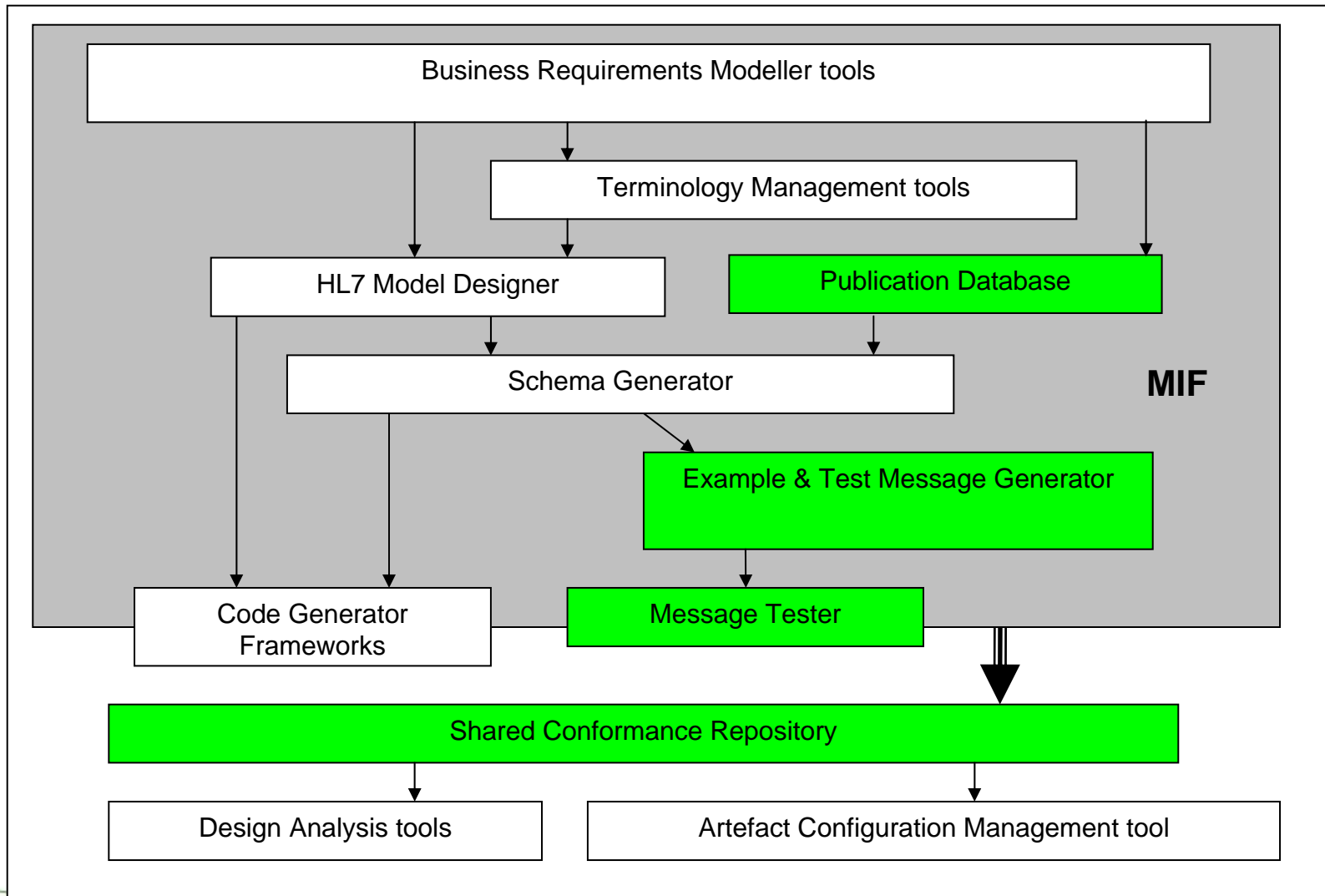
Conformance Constructs – Top Down



Conformance Authoring and Testing Process



Tooling in Context



“Quick-hit” Tooling Rationale

- Address immediate jurisdictional needs & provides tangible benefits
- Early alignment of test cases, business rules across jurisdictions – allows early sharing and leveraging work by jurisdictions
- Garner feedback and experience to inform the refinement of detailed specifications for long-term open source tooling development
- Document & refine requirements for long-term solution
- Use prototyping methodology to conduct staged development – tested with jurisdictional review and input of documented requirements and changes
- Scope
 - Profile Management, Business Rule Management, Message Constraint Rule Management, Test Case Authoring, Test Data Creation
 - Eclipse Open Source Message Instance Editor Enhancements
 - Test data creation; Test instance creation; Integration to vocabulary
 - Documented processes
 - Launch pad to pull into single point of entry & ease of use

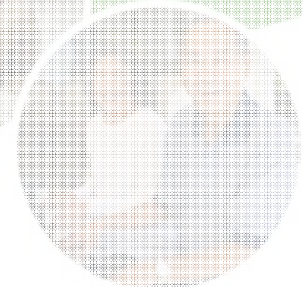
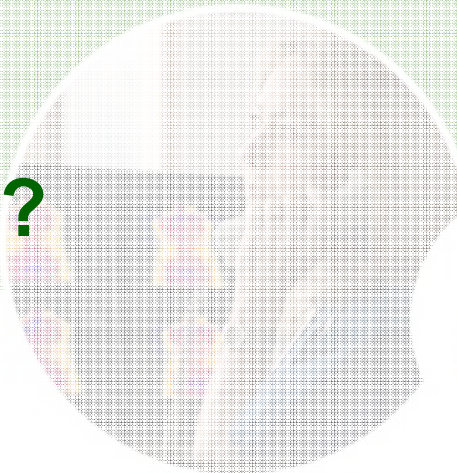
Realization of Tooling Vision going forward...

- Lessons learned from “quick-hit” tools and their implementations
- Recommendations from Options Analysis
- Relationships to others doing conformance testing world-wide
- How can OHT help?



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Questions?



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