



Canada Inforoute
Health Santé
Infoway du Canada



HL7 Plenary EHR In Canada

September 11, 2006
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Canada Health Infoway, Inc

Creating Healthy Connections

Agenda

- Canada Health Infoway
- What is the EHR and It's Benefits
- Architecture and Standards Agenda
- Infoway Standards Collaborative



Canada Health Infoway

Mission

- To foster and accelerate the development and adoption of electronic health information systems with compatible standards and communications technologies on a pan-Canadian basis, with tangible benefits to Canadians. To build on existing initiatives and pursue collaborative relationships in pursuit of its mission.

Shared Governance Facilitates Collaboration

Canada Health Infoway is an independent not-for-profit organization, whose Members are Canada's 14 federal, provincial and territorial deputy ministers of health.

Vision

- A high-quality, sustainable and effective Canadian health care system supported by an infostructure that provides residents of Canada and their healthcare providers timely, appropriate and secure access to the right information when and where they enter into the healthcare system. Respect for privacy is fundamental to this vision.

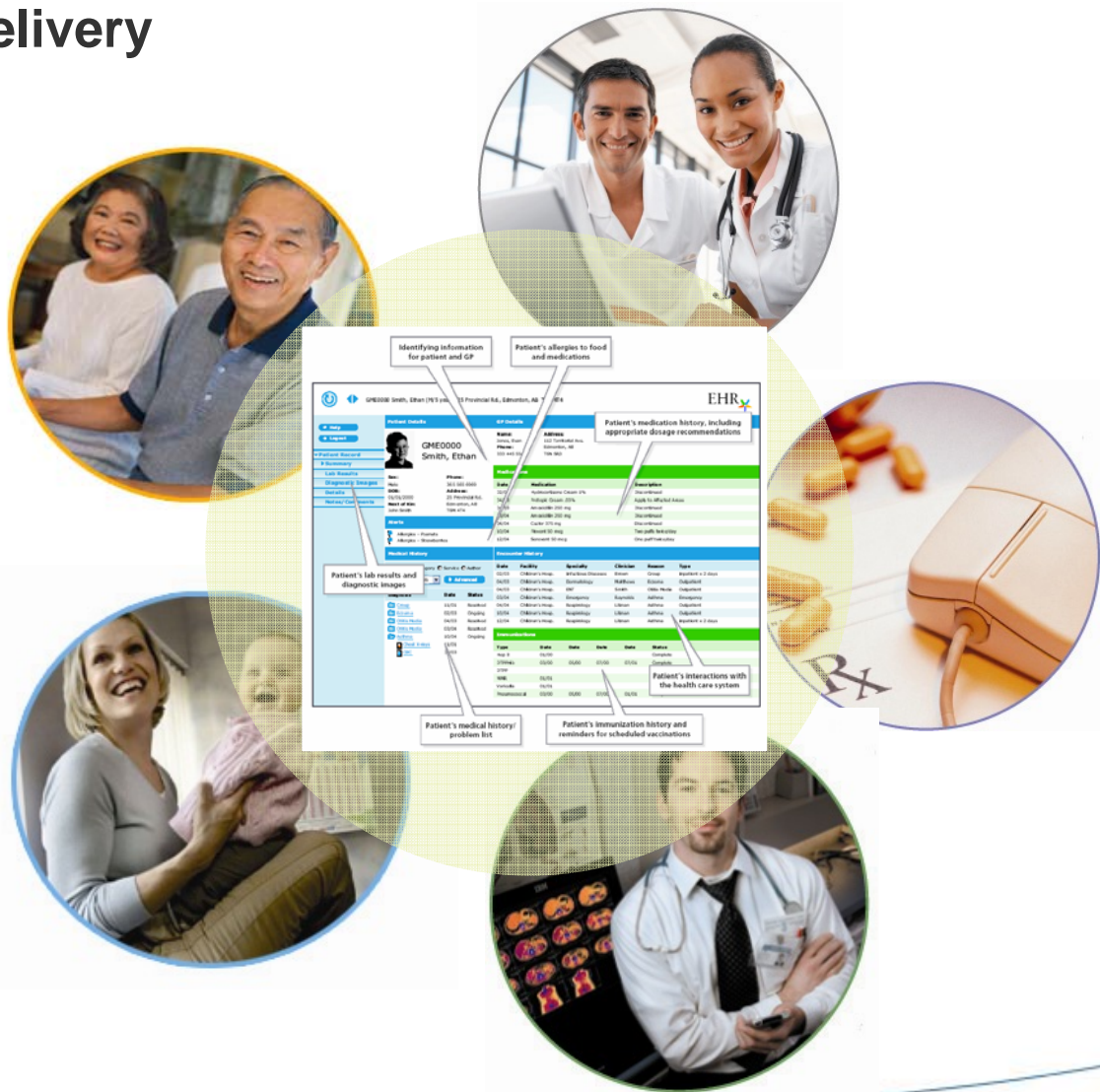


Electronic Health Record

Supporting Health Care Delivery

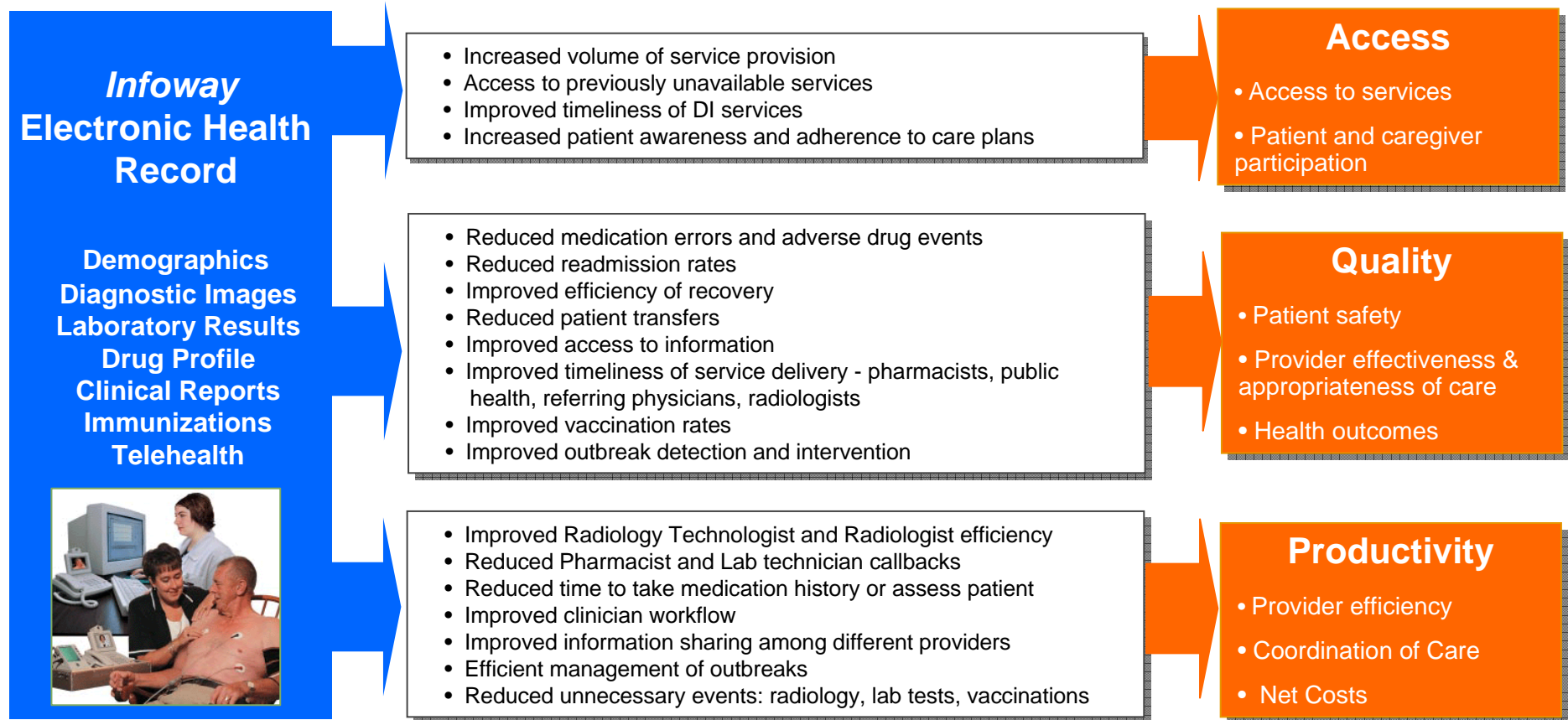
The **Electronic Health Record (EHR)** provides each individual in Canada with a secure and private lifetime record of their key health history and care within the health system. The record is available electronically to authorized health providers and the individual anywhere, anytime in support of high quality care.

This record is designed to facilitate the sharing of data – across the continuum of care, across healthcare delivery organizations and across geographies.



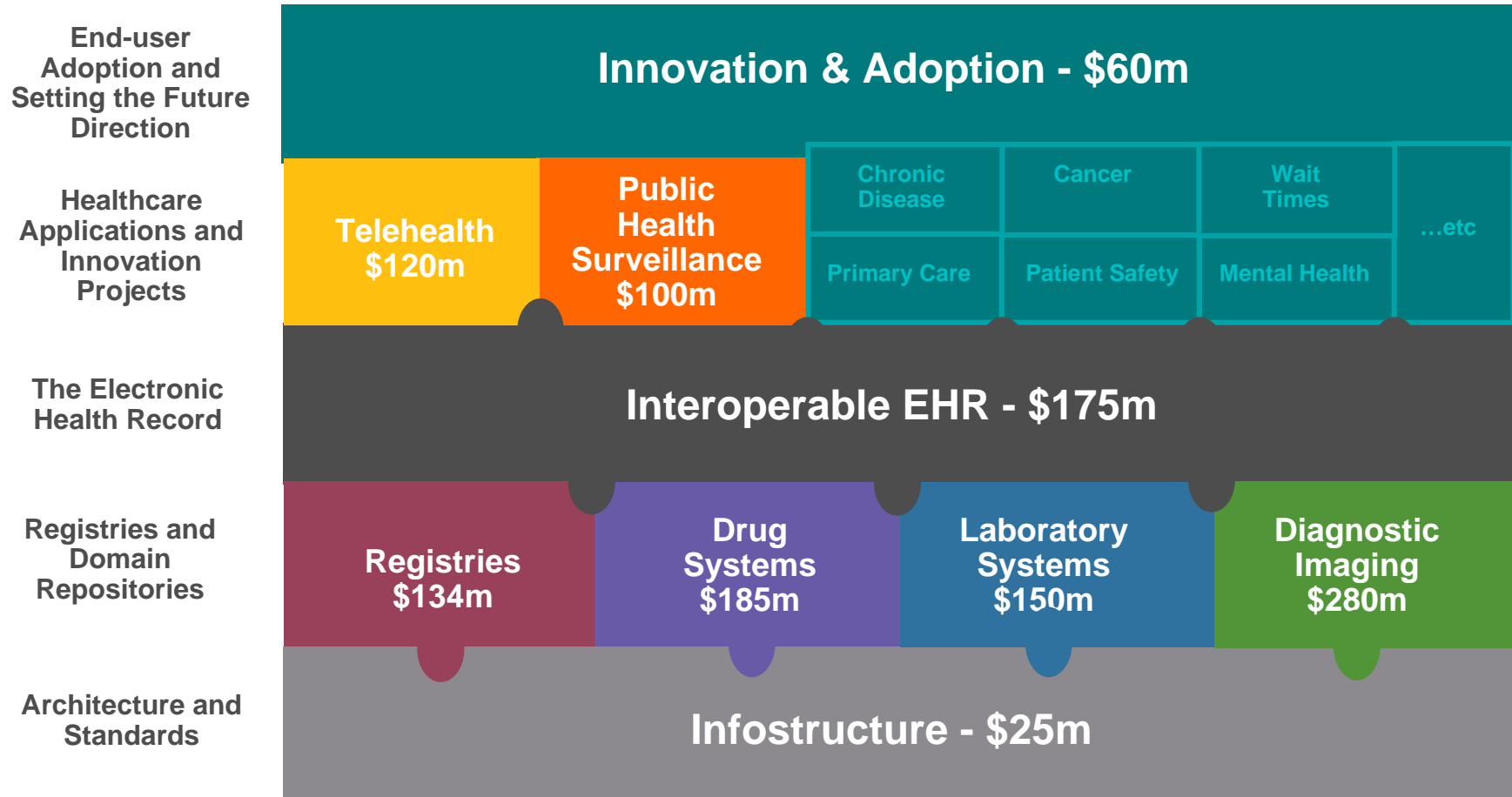
Electronic Health Records

The Benefits – Access, Quality and Productivity



Canada Health Infoway

Strategic Investment Programs



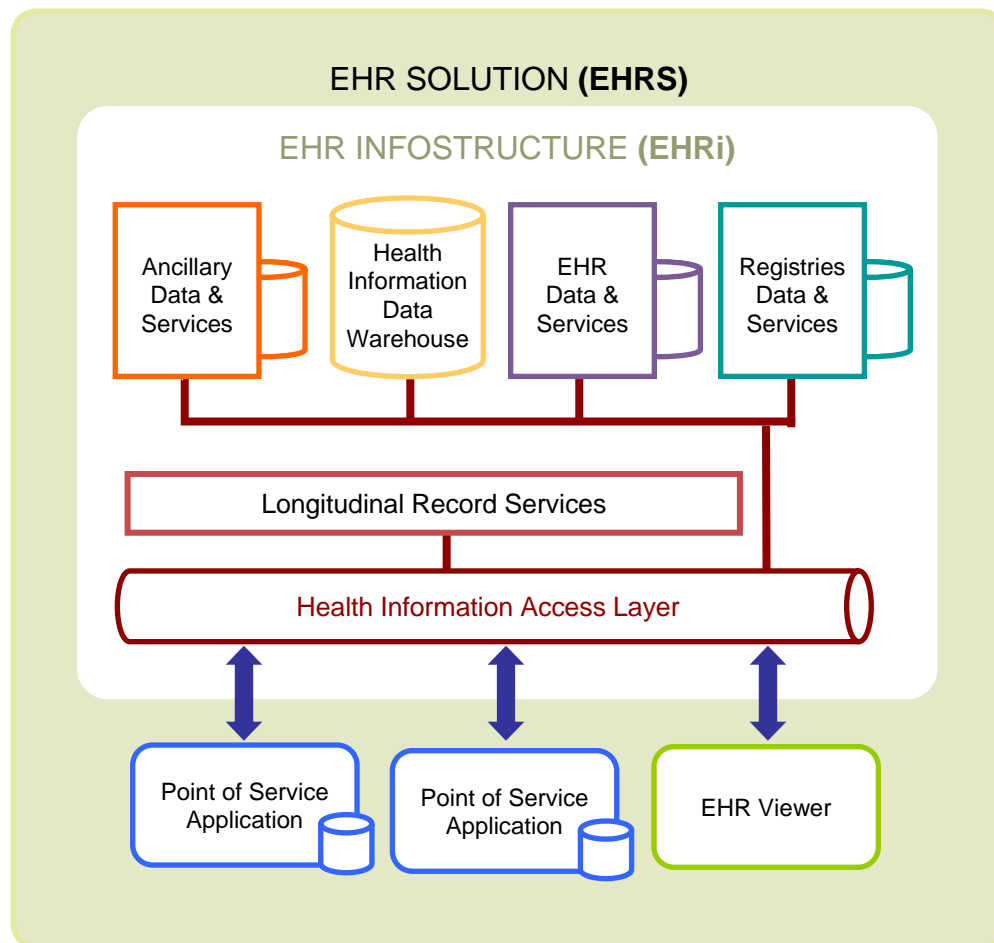
Canada Health Infoway

A Common Blueprint and Standards

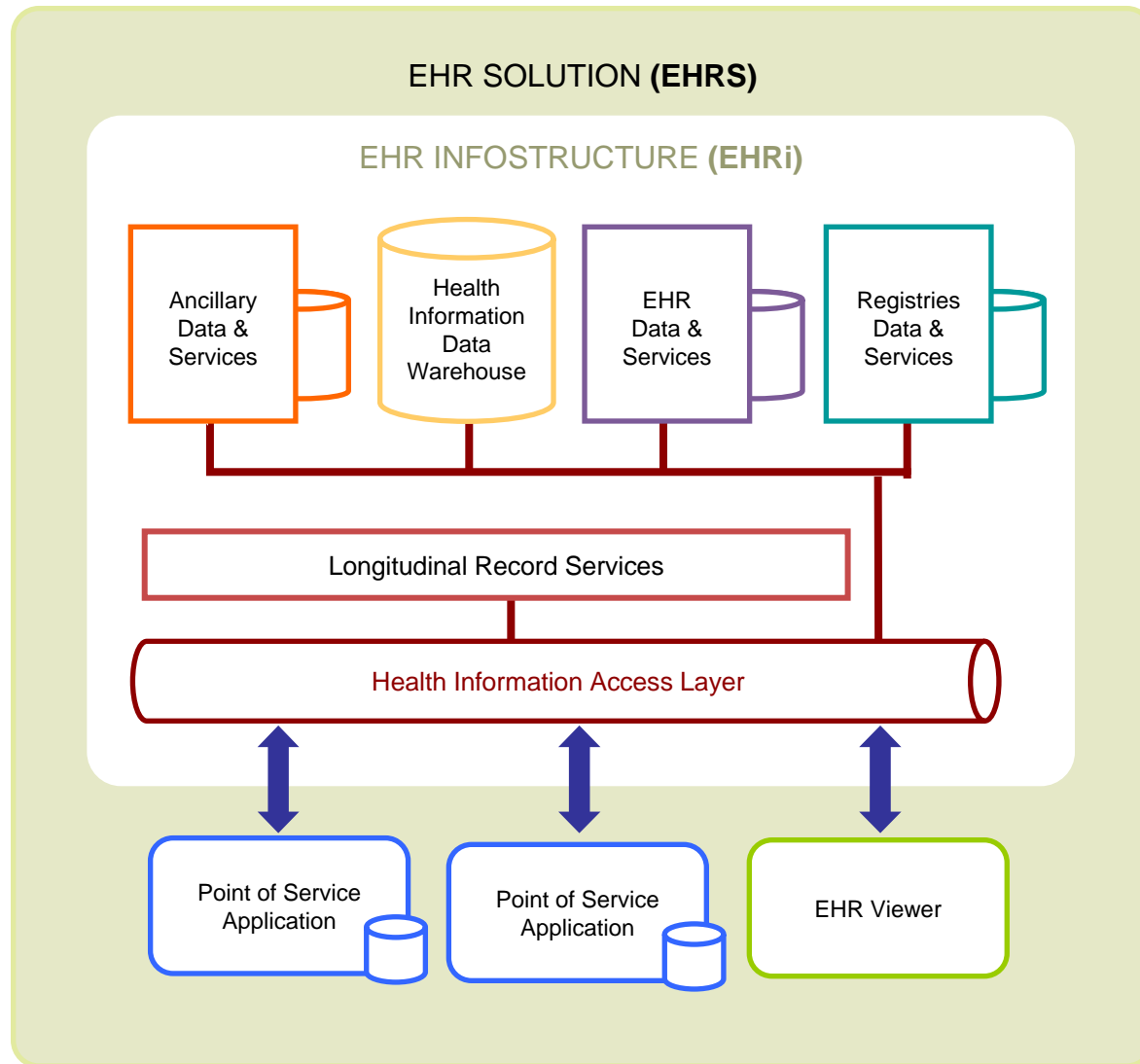
Infoway's electronic health record strategy is founded upon an architecture that integrates local clinical systems with jurisdiction and regional registries and repositories.

Each of *Infoway's* nine investment programs is targeted toward implementing the common architecture across Canada through a series of linked jurisdiction networks.

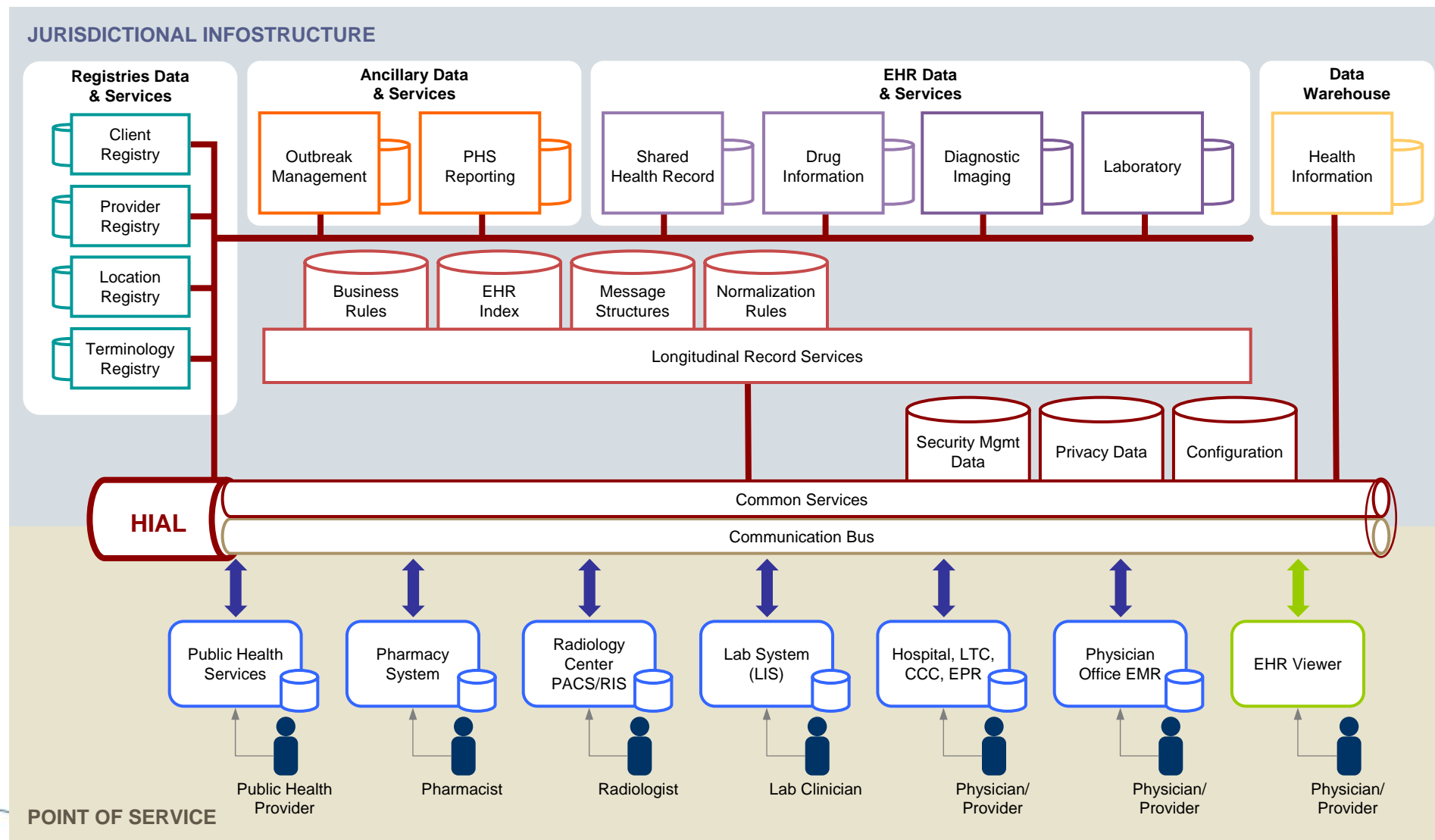
The architecture serves as a national reference model to ensure that jurisdiction solutions are interoperable and *Infoway's* investments are appropriate.



Key EHRS Architecture Concepts



EHR Infostructure: Conceptual Architecture



Interoperable EHR Solutions: Key Architectural Requirements

Standards-based
Solutions



Standardized
Architecture

Standardized
Interfaces

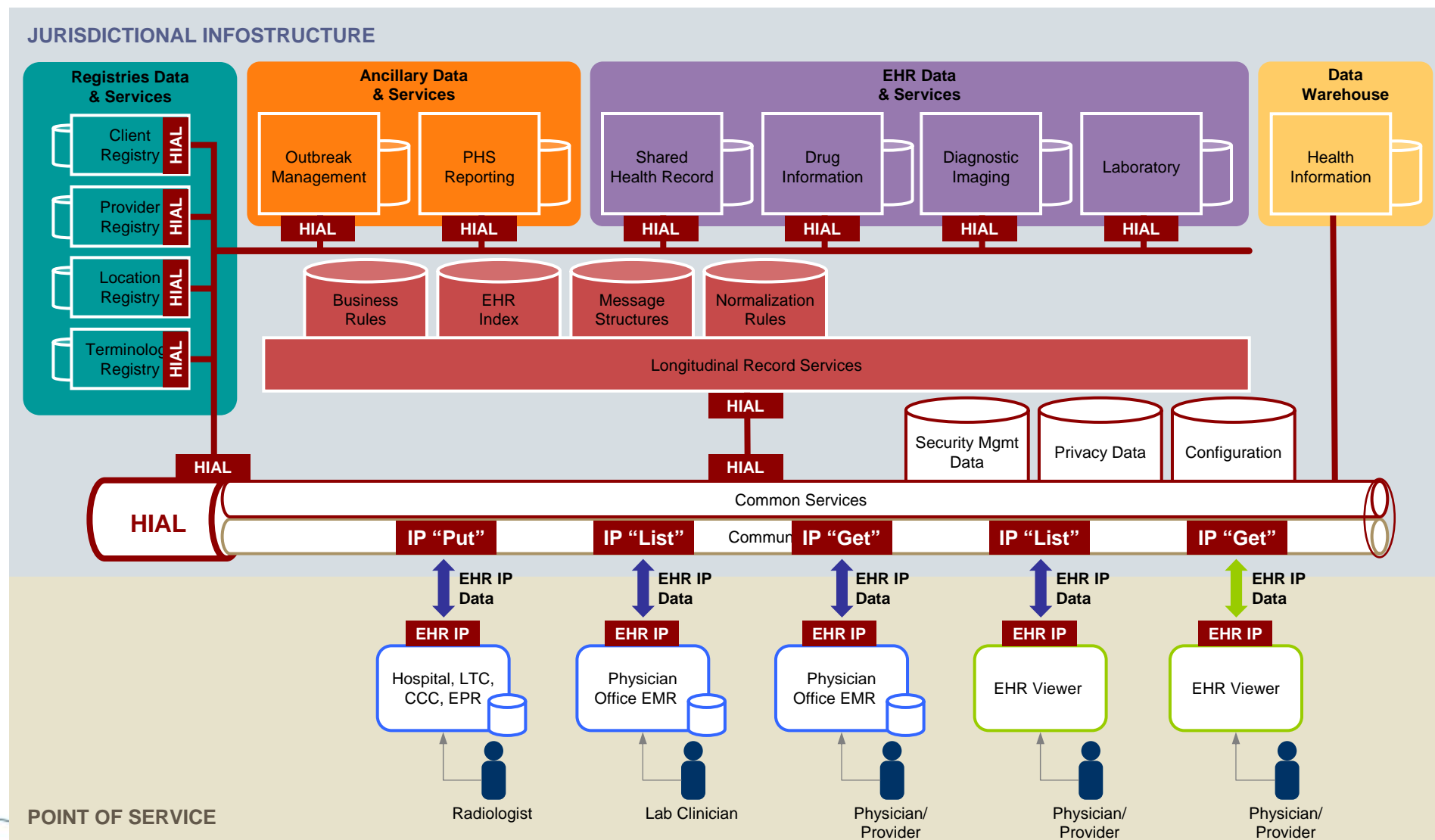
Standardized
Data Structures

Standardized
Data Vocabularies
(encoding rules)

Standardized
Functional
Behaviour



Where are standards implemented?



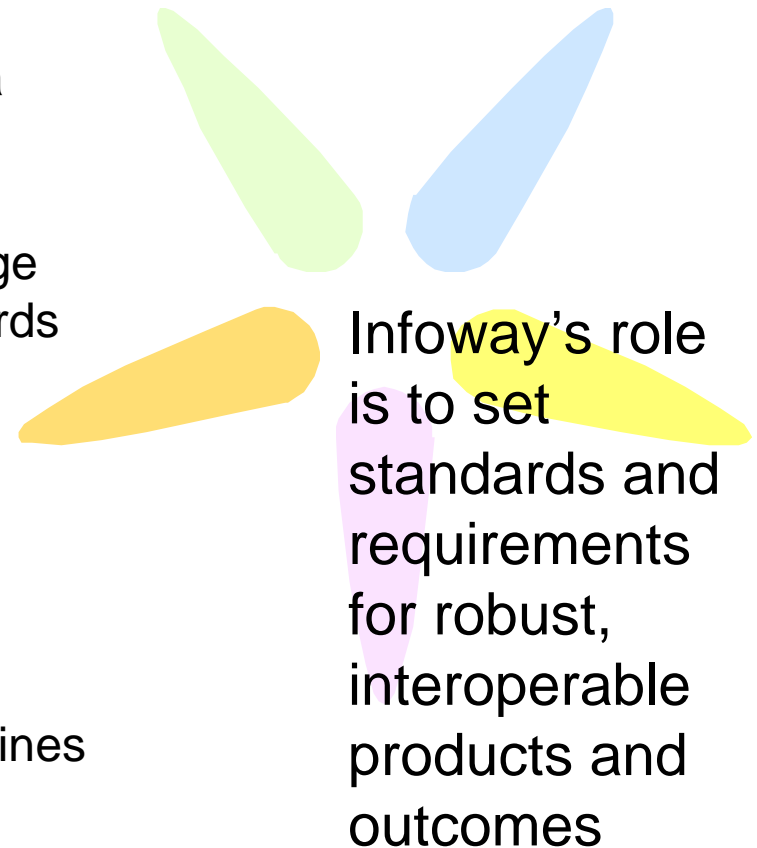
Standards-based Solutions

Why Standards?

- They facilitate information exchange; are a critical foundation for EHR
- They create opportunity for future cost reduction as vendors and systems converge on pan-Canadian and international standards
- They ease effort required for replication

Mandatory Investment Eligibility Requirements

- Compliance to standards (infostructure, architecture)
- Initiatives must comply with existing guidelines or standards adopted by Infoway



Principles for Establishing Pan-Canadian EHR Standards

- Infoway has created Principles for Establishing pan-Canadian EHR Standards
- Standards to provide guidance in the adoption of standards-based solutions
- 11 Principles – accessible via the Infoway Knowledge Way
 - Business-driven
 - Adoption of existing standards where ever possible
 - Establishment of pan-Canadian EHR standards is coordinated via an open, transparent and inclusive Stakeholder Collaboration Process as defined by our stakeholders
- <http://knowledge.infoway-inforoute.ca>



EHR Infostructure: Standards-based Connectivity

JURISDICTIONAL INFOSTRUCTURE

Registries Data & Services

Ancillary Data & Services

EHR Data & Services

Data Warehouse

Architecture Standards

- EHRs Blueprint
- EHR Use Cases
- EHR Data Model
- EHR Services Model
- EHR Interoperability Profiles
- Terminology Standards Strategy
- Terminology implemented in data messaging standards

Data Messaging Standards

- Client Registry (ready for use)
- Provider Registry (ready for use)
- Pharmacy CeRx (ready for use)
- Laboratory (in development)
- Diagnostic Imaging/Teleradiology (ready for use)
- iEHR Clinical Messaging (in development)
- iEHR Technical Standards (in planning)
- Public Health Surveillance Standards

EHR SOP Standards

EHR IP Standards

EHR IP Standards

EHR IP Standards

EHR IP Standards

EHR IP Standards

EHR IP Standards

EHR IP Standards

POINT OF SERVICE

Public Health Provider

Pharmacist

Radiologist

Lab Clinician

Physician/Provider

Physician/Provider

Physician/Provider



Services of the Standards Collaborative

Standards Development

- Strategy
- Development
- Standards lifecycle process governance
- Project management
- Artifacts deliverables
- Solutions compliance
- Adoption
- Benefits evaluation

Education, Training & Implementation Support

- Promotion of standards
- Training artifacts
- Artifacts repository
- General standards training
- Training and education for specific standards
- Implementation support for standards

Maintenance and Conformance

- Ongoing standards sustainability and relevance
- Support SDO standards maintenance processes
- Conformance strategy, governance, promotion
- Adherence to conformance criteria (certification) via our partner the eHealth Collaboratory

Integrated & Coordinated Pan-Canadian Services

SDO Secretariat & Liaison

- Govern and manage SDO affiliates
- Formal and informal liaisons to SDOs, HISCs
- Membership
- Communications
- Plan and deliver events related to standards
- Distribution and rights management

Simple, Open and Transparent Governance





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Thank you!

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