

Smart Systems for Health

May 21 2003

Agenda

- **What is e-Health?**
- **What is the SSH Agency (SSHA)?**
- **SSHA and e-Health Initiatives**
- **SSHA Products and Services**
- **How does SSHA enable the EHR?**
- **Questions**

What is e-Health?

- e-Health is the use of current and emerging information and communication technologies in support of all aspects of Ontario's health system.
- e-Health involves sharing information in a secure, reliable environment, respecting the privacy of the individual.

e-Health supports the goal of improving the health status of Ontarians.

Ontario's Health System



Why is Health Care Service Delivery the Highest e-Health Priority?

- e-Health for *Health Care Service Delivery* is the first and most important element to address because it will improve the effectiveness and efficiency of health care delivery for both providers and patients
- This priority was established through consultations and partnerships with health care providers, information technology leaders, health care planners and research organizations
- It will provide the information for *Health System Management* and support continued reform
- It will establish the information base to support *Professional Knowledge and Competency, Health Research, and Health Promotion*.

e-Health Strategy

Part 1 - A Series of Program Reforms

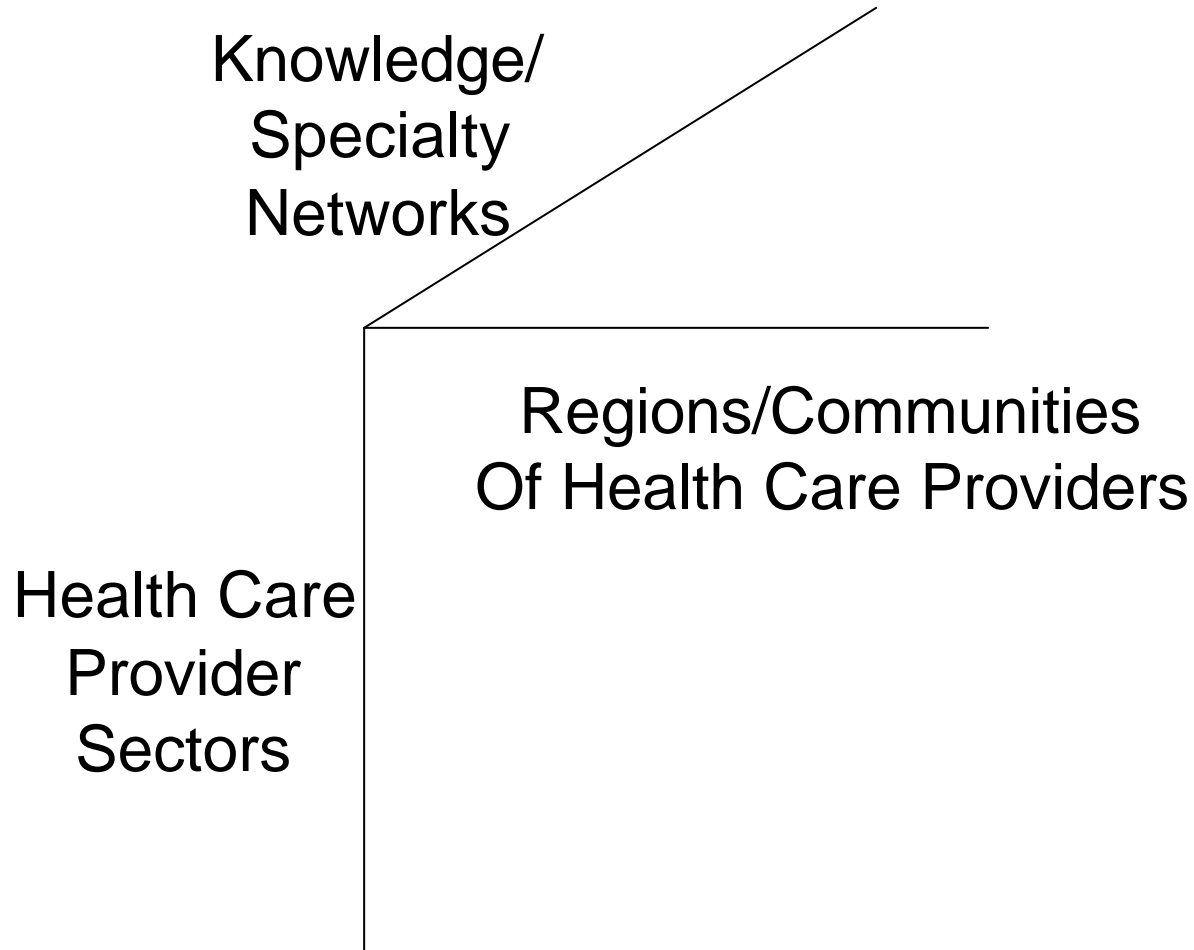
- a) Establish a framework for coordination and planning
- b) e-Health initiatives
- c) Sector based initiatives

Part 2 - The Supporting Infrastructure

- a) Technology
- b) Repositories to enable sharing
- c) Standards

Part 3 – Support Community-Based Initiatives

Scope of eHealth Solutions

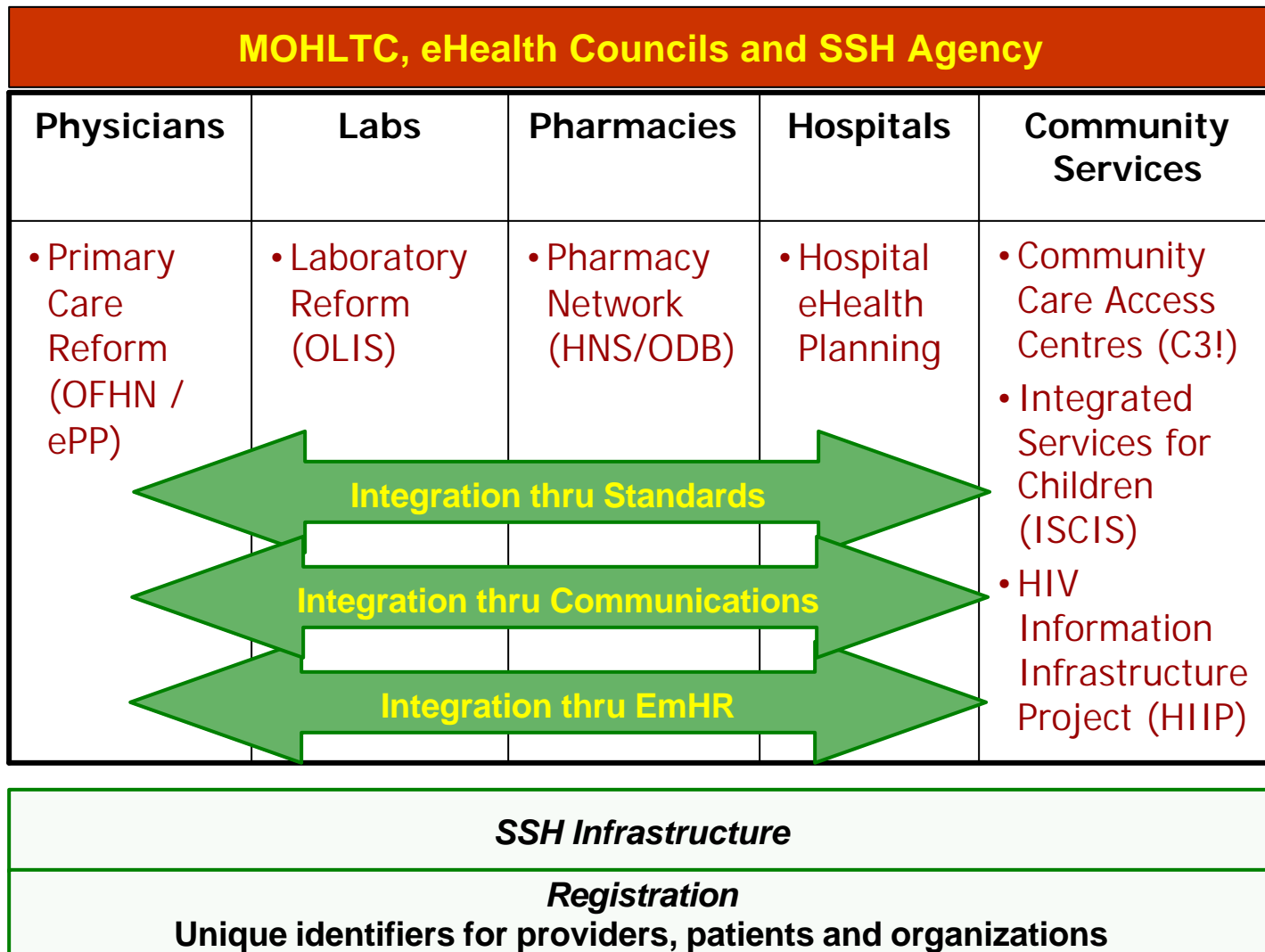


The Core Elements of the Strategy

Integrating Governance

Program Reform Initiatives

Integrating Infrastructure



Why Smart Systems for Health?

Aligns with Government's Strategic Goals

- SSH supports four of the Government's strategic goals:
 1. Implementation of the digital economy strategy
 2. Implementation of the Government I&IT Strategy
 3. Restructuring of the Health Care System
 4. Privacy Policy

The Health System in the Digital Economy

E-Business

- Building a supportive environment
- Fostering business confidence and stimulating growth
- Identifying/addressing risk and opportunity
- Fostering consumer confidence
- Building a supportive people and technology infrastructure

The proposed strategy incorporates a series of initiatives:

- Fostering the growth of e-business
- Improving service delivery across sectors
- Securing our place in the digital economy.

E-Health

- Using electronic tools to transform service delivery and management in the health sector
- Building an infrastructure for secure electronic communication
- Introducing information management capacity across the health sector

Security Privacy

Privacy concerns are key barriers to the growth of e-business and e-government. Legislation to protect personal information will help build public confidence and give Ontario a head-start.

What is SSHA?

- **SSHA is a fundamental component of the MOHLTC e-Health Strategy**
 - Publicly funded, multifaceted project operating in a complex environment with multiple stakeholders
 - Secure telecommunications infrastructure for the health care community
- **Conceptual design of SSHA - a joint undertaking of:**
 - Ministry of Health and Long-Term Care (MOHLTC)
 - Information Technology Association of Canada in Ontario (ITAC Ontario)
 - Ontario Health Providers Alliance (OHPA)

SSHA Mandate

- **The Smart Systems for Health Agency will provide the secure, integrated, province-wide information infrastructure to allow electronic communication among Ontario's health service providers**
- **An independent Agency of the Ministry of Health and Long Term Care**

SSHA Products and Services

- **Information Technology Services**
 - Network Services
 - Messaging Services
 - Directory Services
 - Hosting Services
 - Security Services
 - Portal Services
- **Information Management Services**
 - Core Data Set / Voluntary Emergency Health Record (CDS/EmHR)
 - Ontario Health Informatics Standards Committee (OHISC)
- **Components acquired via competitive procurements and selection of private-sector industry partners**

SSHA Provides Infrastructure for the MOHLTC e-Health Initiatives and Sector Initiatives

e-Health Initiative	End Users
Ontario Family Health Network (OFHN) and ePhysician Project (ePP)	Physicians' Offices, Hospitals
Ontario Laboratory Information Systems (OLIS)	Labs, Hospitals
Community Care Connects! (C3)	CCACs
Integrated Services for Children Information System (ISCIS)	Public Health Units
Health Network System (HNS)	Pharmacies, Hospitals
HIV Information Infrastructure Project (HIIP)	Physicians' Offices, Clinics
Point of Service Verification (POSV)	Physicians
Tele-Healthcare	Hospitals, Clinics, Physicians' Offices

Subscriber Projections

eHealth Community and eHealth Initiatives	Subscribers
OFHN/ePP	50,673 on 14,316 sites
CCAC/C3!	5,200 on 262 sites
ISCIS	1,524 on 249 sites
ODB/HNS	10,800 on 305 sites
OLIS	20,592 on 7,455 sites
OHTN/HIIP	1,200 on 131 sites
Hospitals	44,030 on 275 sites
Government (DHCs, MOHLTC, SSH, POSV, OAABHP, Colleges)	2,920 on 194 sites
Other Community (LTC, CTCs, CHCs, Special Care Homes, Addiction and Mental Health Agencies)	14,150 on 2,440 sites
Totals	151,089 on 25,627 sites

Network Services

- **Managed Private Network (MPN)**
 - IP traffic only
 - Managed gateway to government network (GO*Net)
 - Managed gateway to the Internet
 - Managed gateway to Private Sector
- **Components**
 - Wide-Area Network (WAN) - MPLS-based
 - extended Wide-Area Network (eWAN)
 - Remote Access Service (RAS)
- **Status**
 - CCACs, PHUs (100% complete to main offices)
 - Hospitals (80% complete)
 - Physicians (just starting)

Secure Messaging Infrastructure

- **Components**
 - **Messaging Services (email)**
 - **Directories**
 - **Gateways**
 - **Collaboration tools**
 - **Evaluation projects**
- **Status**
 - **Messaging and Directories – Sept 2003;**
 - **Gateways– April 2004**

Hosting Services

- **Managed Hosting Services**
 - **Redundant data centres**
 - **High availability core infrastructure**
 - **Restricted access**
 - **Operations and Technical Support**
- **Components**
 - **Basic Hosting ... available August 2003**
 - **Redundant (High Availability) Hosting ... available September 2003**

Security Services

- **Public Key Infrastructure for the Health Sector**
 - SSH has a **Certificate Authority Designation**
 - The **Public Key Infrastructure (PKI)** services provided include **user registration and digital certificate issuance**
 - **SSH CA will cross-certify with the GO-PKI and others as appropriate**
- **Security Perimeter for Managed Private Network**
- **Security Perimeter for Hosting**
- **Best practices**

Portal Services

- **Baseline Portal Infrastructure (SSHA responsibility)**
 - Core technologies, support and integration infrastructure
 - Facilitation of client-specific portals
 - Operations and Technical Support
- **First Portal Instance (Client responsibility)**
 - ePhysicians Portal
 - Ontario Medical Association and Ontario Family Health Network / ePhysicians Project
 - Private Sector Partner
- **Status**
 - Fall 2003

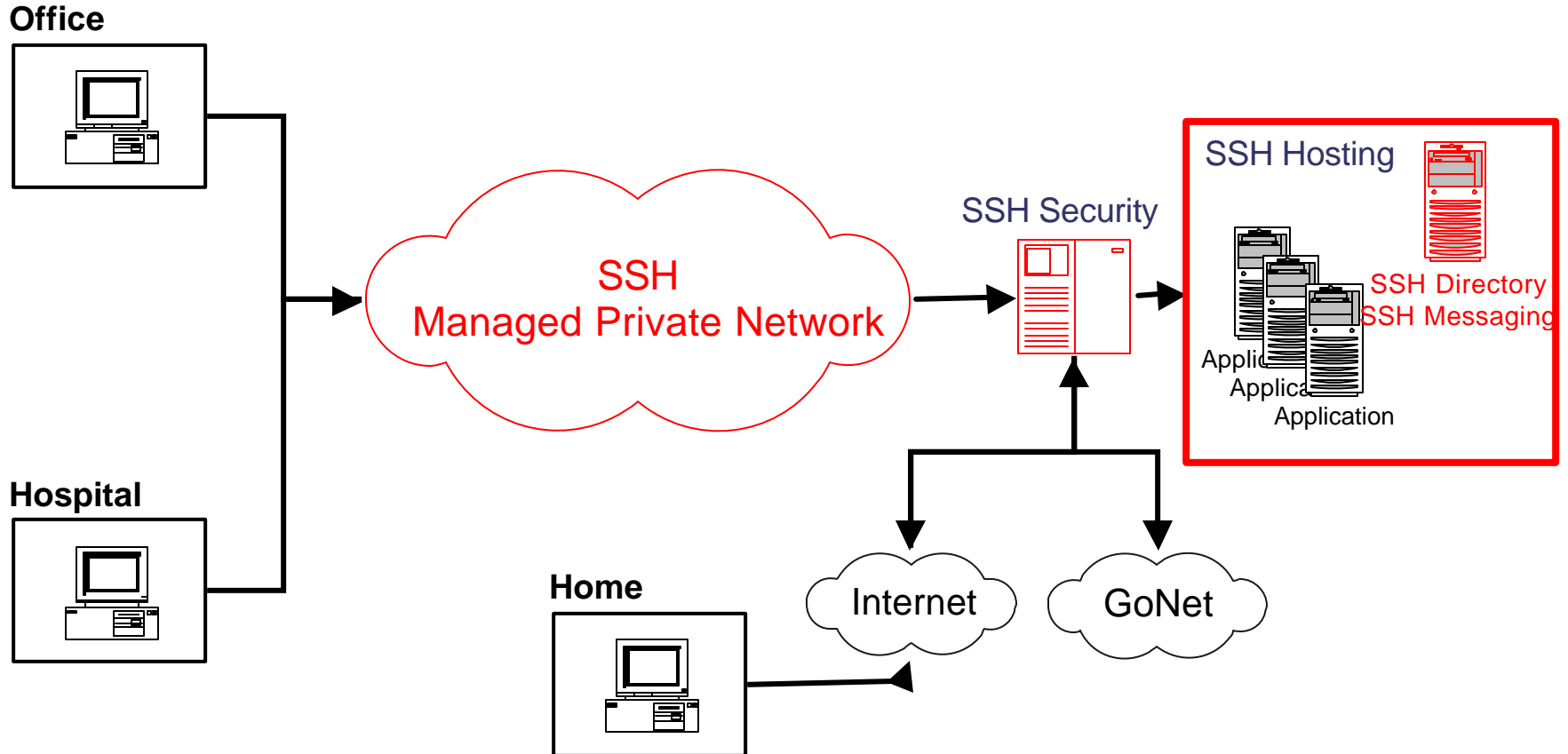
Voluntary Emergency Health Record

- Voluntary program to provide critical personal health information to emergency room health care providers
- Application being acquired by SSHA
 - Ongoing management and support
 - Integrated to ePhysician Project (ePP) concept of Core Data Set for sharing of clinical information among members of a FHN

Data and Technology Standards

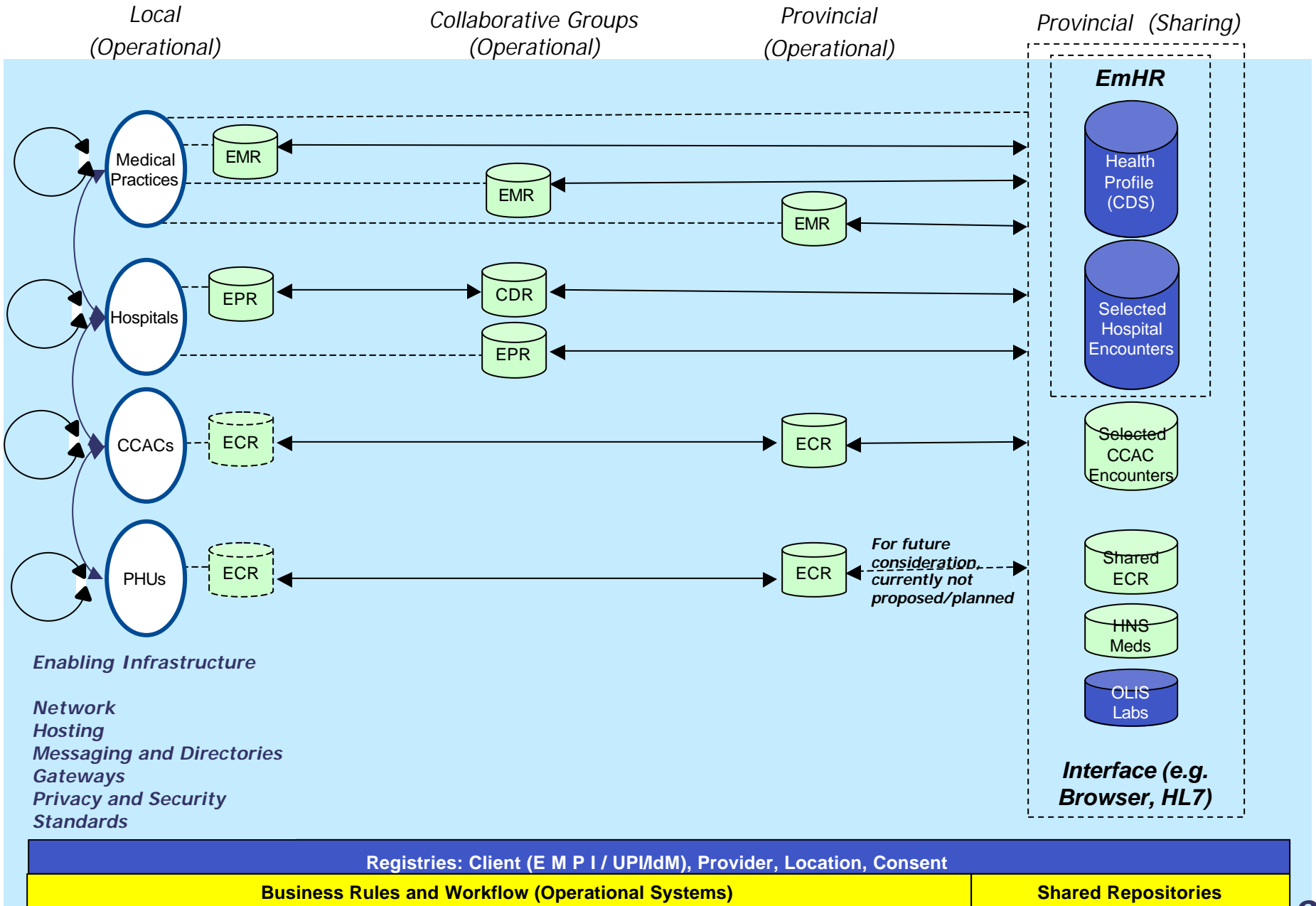
- Mandate to establish an advisory committee to recommend health informatics standards for the province
- The Ontario Health Informatics Standards Committee (OHISC) established January 31, 2002
- OHISC membership comprised of 15 organizations
- OHISC reports to Minister of Health and Long-Term Care through the SSHA Board
- Membership has a broad representation from the health sector and engages e-health councils

How the products fit ...



How does SSHA enable the development of Electronic Health Records in Ontario?

Ontario High Level EHR Strategy (Target)



QUESTIONS?

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