

### Nova Scotia Health Information Strategy: An Overview

February 26, 2003



## NS Health Information Management Vision

Nova Scotia's health information system will be based on the establishment of a *person-based, portable electronic health record*.

The system will provide live input and extraction of standardized and complete health information from <u>across</u>

<u>the spectrum of health and wellness services and</u>

<u>indicators</u>

Protection of individual privacy and confidentiality within

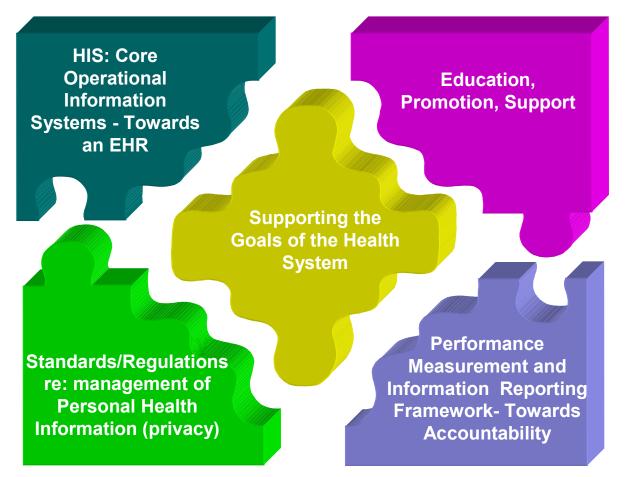
the context of a well managed health care system will be ensured



Patient focused, community-based integrated service delivery requires<sub>3</sub>... information follows the patient



## **Building Blocks- First Priorities of an IM Strategy for NS**





HIS: Core Operational Information Systems - Towards an EHR



## Nova Scotia Health Information System – A History

1995 Strategic Plan

97/98 RFP for hIS by Regions; preferred vendor selected

'99 Health Information "Action Team"

'99 New government

99/00 Update of strategic plan

2000 CIO portfolio created with a mandate to implement

00/01 hIS implementation plan developed

Spring 01 Implementation approach approved and

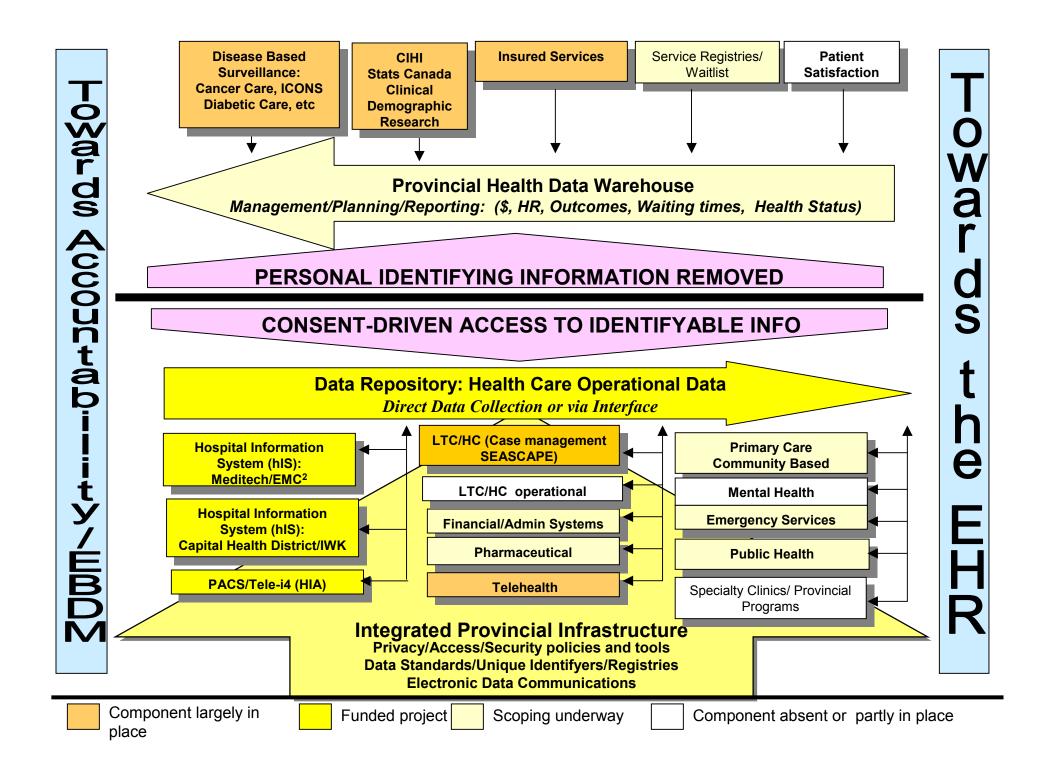
implementation begun

» April 2001 – endorsed by CEO's



# Information Management Strategy: Development Principles

- <u>Driven</u> by "business" (health system/user) needs, <u>supported</u> by technology
- Build on strengths and investments of current system but do not throw good money after bad
- Build on a clarified and appropriate provincial role; recognize limitations and look for other mechanisms to fill gaps
- Reliable, secure and meets CSA standards for information management;
- Sustainable, affordable and can evolve over time;
- Achieves clear gains throughout the development process NOT a big bang approach
- Supports user ownership and meaningfulness of information as it's collected - value add, availability, accountability, timeliness
- Set in the regional, national and (in some cases) international context





# Nova Scotia Hospital Information System (NShIS) The Foundation of an E.H.R. for Nova Scotia





#### Goal

- To lead the country in employing province-wide EHR to improve care
  - Romonow, Kirby, First Ministers' Accord
  - National Steering Committee on Patient Safety, IOM



#### **Overall Project Objective**

(approved by Steering Cttee Fall '01)

Achieve a single integrated operational hospital information system using Meditech software in District Health Authorities 1–8 interfaced to District Health Authority 9 and the IWK, and available remotely to physicians in their offices.



#### The Nova Scotia Hospital Information System End Result - a Platform for EHR

The NShIS is seen as vehicle for building the province wide, personbased, electronic health record

- At the end of the project rollout (FY 2004/05), NS will have:
  - Institution and physician-office accessible consolidated electronic EMR (for hospital based-encounters, including all lab and DI encounters, order-entry-results)
  - an end-to-end all-in *lab information* system (all labs in Nova Scotia are in-hospital), including scheduling, order entry/results reporting, available within institutions and to physician offices
  - a pharmacy/medication order-entry-results system with clinical decision support within hospitals
  - a multi-media, province-wide radiology information system (linking PACS, tele-radiology and traditional radiology data) including scheduling, order entry/results reporting, available within institutions and to physician offices
  - a province-wide census/ADT (single bed management system)



#### The Nova Scotia Hospital Information System End Result - a Platform for EHR

- At the end of the project rollout (FY 2004/05), NS will have:
  - Sound platform for a broad *data repository* to advance improved planning and assessment of health care system performance
  - a province-wide framework for *privacy policies*, access rules, auditing function, consent/view obligations and rights, and security architecture
  - A single, collaborative, potentially arms length (under consideration by government) province wide governance structure for Nova Scotia's health information system



#### **Implementation Dates**

IWK/ CDHA Integration

Remote
Access
to
Doctors'
Offices

- February 1, 2003
  - DHA 7 (GASHA)
- June 1, 2003
  - DHA 8 (Cape Breton Healthcare Complex)
- November 1, 2003
  - DHA 8 (Rural sites)
- February 1, 2004
  - DHAs 1,2,3 and DHAs 4,5,6

Est. Completion – 2005







#### **Health Information Management Policy**

## Develop strengthened approach to protecting personal health information in all media

- 3 pronged
  - specific to hIS implementation
  - policies and practices w/l DoH
  - Broad Health Information
     Policy framework possibly leading to legislation

Built on the principle of the need to *balance* the need to protect the privacy of personal health information with the personal and public value of sharing that information in an appropriate and respectful manner 16



# Privacy is an integral component of the NShIS



"It is our responsibility to develop a hospital information system that respects the privacy of every patient's personal health information."

#### Key guidelines for NShIS

- Users only have authorized access to the information they need to do their job
- There must be balance between the patient's right to privacy and the benefit derived by the patient when users have appropriate access to health information



#### **Privacy Framework**

- Access
- Patient Rights
- Monitoring & Audit

- Protocol for Breach
- Training
- Communications







# Performance Measurement and Accountability

- Building a data and reporting/delivery model to support decision making at all levels
- Build Info Systems which reflect measurement and accountability priorities
- Supporting local/provincial needs for public accountability AND national commitments
  - Reporting framework project
  - Waitlist

Ensure information resources are leveraged to their fullest capacity

Support development of population health model by providing data and feedback on health across the continuum







#### **Education, Communication and Support**

- Training, communications a critical part of each implementation
- Foster champions where they exist
- Involve and consult with key stakeholders throughout
- Support research and education efforts to better understand, evaluate, and educate

Ensure sound change management efforts facilitate uptake by professionals, and interest by the public



#### **Critical Success Factors**

- FOCUS, FOCUS, FOCUS
- Balance between reasoned plans and flexibility to take advantage of time-limited opportunities (e.g. federal \$\$)
- Manage expectations
- Collaborate with stakeholders; take advantage of expertise and resources
- Education/Promotion/Communication must provide the foundation of all other activities . . . can never do enough
- Determine appropriate governance structure post implementations
- Work with Atlantic and National colleagues to leverage cost and revenue effective opportunities

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