

Panorama Pan-Canadian Public Health Surveillance

Presentation to

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e-Health Conference**

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**David Cowperthwaite
Director of Communications**



Agenda

- Panorama Introduction
- Canada Health Infoway
- 4 Stages of Development
- Panorama Components
- Project Schedule
- Future Governance



Panorama

- A new information system under development in Canada to address:
 - Communicable disease case management
 - Outbreak management
 - Immunization management
 - Materials / vaccine inventory management
 - Notifications management
 - Work management
- Panorama is under development now and first release will be ready for provinces and territories to implement in Spring 2008
 - 10 Provinces and territories are planning implementation



Canada Health Infoway

- Created in 2001 through a Funding Agreement with Government of Canada
- \$1.6 billion for 10 investment programs
- 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
- Goal: Interoperable electronic health record in place across 50 per cent of Canada (by population) by the end of 2009



Infoway Health Surveillance Program

- Initial funding of \$100 million, over 5 years, for
 - Management of infectious diseases and immunization
 - Funds for development and implementation, not operations or maintenance
 - System must be bilingual (English / French)
 - Must be consistent with EHR architecture, and responsive to public health needs
- Panorama development is funded 100% and Implementation projects are cost-shared 80/20 with provinces and territories
- In 2007, additional funding of \$35 million for implementation projects



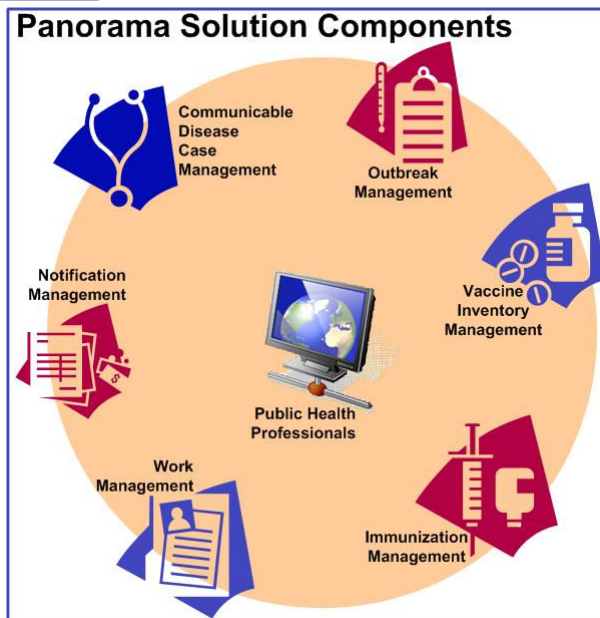
Pan-Canadian Approach

- Leadership by Pan-Canadian Steering Committee
 - Senior public health and IT managers from each Canadian Province and Territory
 - Federal representatives from Public Health Agency of Canada(2), Health Canada, Statistics Canada
 - Representatives from Canadian Public Health Association, Canadian Institute for Health Information, Canadian Medical Association, Council of Chief Medical Officers of Health
- System Design Phase had participation by 230 Public Health professionals
- Test teams from across the country
- Strategies for funding, licensing, and support to make the solution affordable to all Provinces and Territories.



Four Stage Project

1. Conceptual Solution – 2004
 - Needs Assessment and Cost Estimate
 - Project scope adjusted to fit the budget
2. Solution Specification – 2005
 - Specification and alternatives analysis
 - Steering Committee approved an acquisition strategy of “Buy - Adapt - Build”
3. Procurement – 2005/06
 - Public Tender process selected IBM Canada was selected as prime contractor, with several partners
4. Solution Integration – 2006/08
 - Panorama Software development and testing
 - Other Pan-Canadian Projects in Standards Development, National Populations Study, and Benefits Evaluation
 - Provincial / Territorial planning and implementation projects



Case Management

- Communicable disease case management provides tools to help public health professionals identify and monitor cases, trace exposures and contacts and manage interventions, signs and symptoms and outcomes
 - Record disease investigations and encounters
 - Manage information on case/contact disease classification, status, history, treatments, etc.
 - Investigate and track transmission/acquisition exposure events and trace contacts
 - Manage control measures, interventions and treatment plans
 - Monitor and analyze communicable diseases within defined populations
 - Record communicable disease related prescriptions, drug therapies, adverse drug reactions and prescription history



Outbreak Management

- Outbreak management supports public health professionals who are investigating, monitoring, analyzing, communicating and reporting on outbreaks
 - Expands on the base of information recorded in Case Management and provides enhanced reporting
 - Track Outbreak Level Details
 - Outbreak Subject Management
 - Outbreak Communications
 - Outbreak Team management



Immunization Management

- Immunization management enables public health professionals to forecast and record immunization information including information on consent and adverse reactions
 - Individual Client Immunization Details
 - Mass Immunizations planning, preparing and delivery
 - Maintain Immunization Schedules
 - Report Immunization Coverage for individuals, regions, or the entire province
 - Track Adverse Events
 - Compromised Vaccine tracking
 - Receive, Record and Receipt Payment for immunizations



Materials / Vaccine Inventory Management

- Materials / vaccine inventory management allows public health professionals to record and maintain materials and supplies (vaccine and otherwise) inventories
 - Define Inventory System for the jurisdiction
 - Maintain Inventory Levels at each holding point
 - Requisition Product from Inventory.
 - View Product Inventory
 - Return Product features
 - Contract information tracking



Notifications Management

- Notifications management supports issuing warnings within Panorama and allows public health professionals to share information quickly about critical events and emergencies

There are three types of notifications in Panorama:

1. **Jurisdictional Notifications** are unstructured messages that can be created and posted in Panorama and emailed out to users external to Panorama
2. **Threshold Notifications** advise Public health professionals when a threshold has been reached, such as low inventory levels, number of cases reported, etc.
3. **Client Warnings**; Client warnings are client-specific, manually entered comments, such as client drug allergies, warnings of site visit risks such as aggressive dogs, etc.



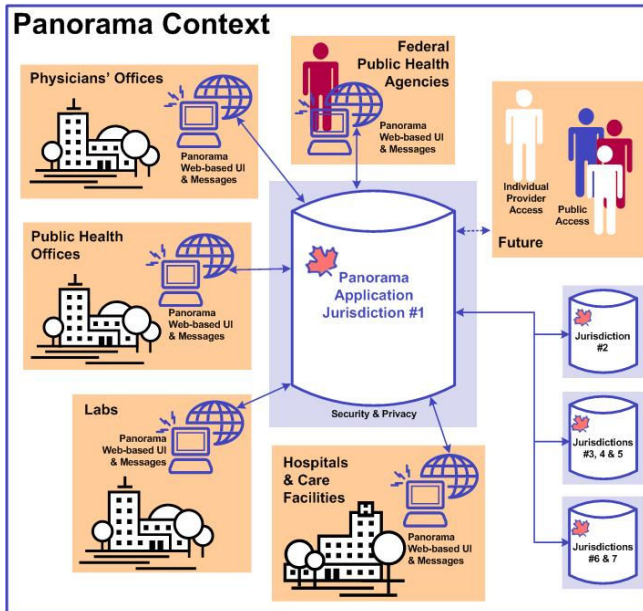
Work Management

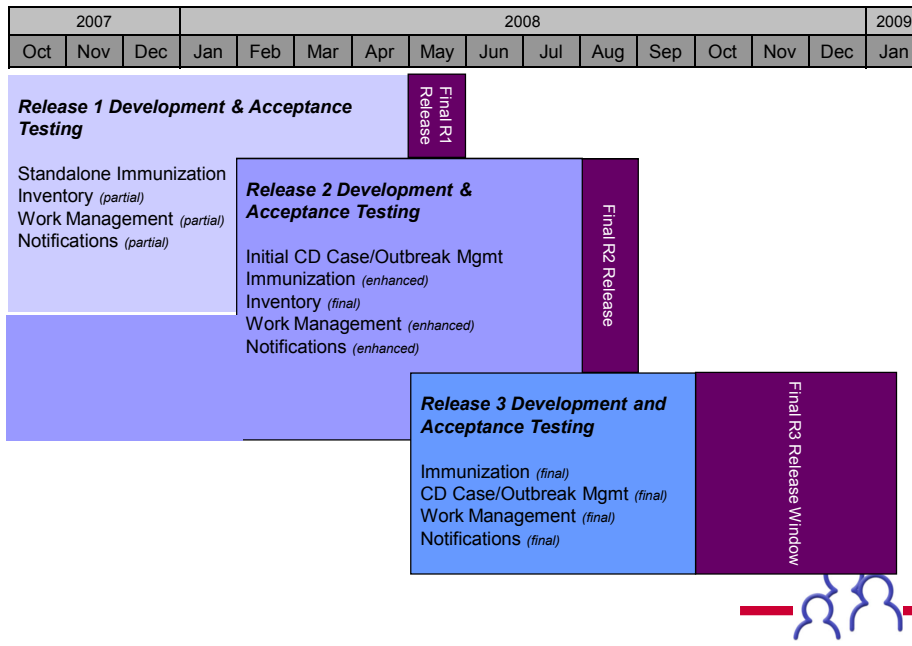
- Work management helps public health professionals to manage tasks and time at the individual, facility and organizational levels by providing scheduling, resource assignment, activity tracking and project management tools
 - Client Wait Lists
 - Client follow-ups
 - Reservations can be recorded and modified in different views (day, month, year, free timeslots). Unique series of reservations can be created
 - Tasks and appointments can be balanced for individual users and users within a group.
 - Communications log to track incoming and outgoing communications



Panorama's Key Features

- Flexible solution designed to address the range of communicable diseases rather than a disease specific approach
- Intuitive and consistent user interface enhances the productivity of front-line workers
- Customized to meet Canadian Public Health requirements
- Configurable for each province / territory implementation
- Fully bilingual system and documentation for all user features





Future Governance

- Pan-Canadian project is creating Panorama and making it available to Canadian provinces and territories
 - Canada Health Infoway is funding the creation of Panorama and providing partial funding for implementation
 - Infoway does not fund maintenance or operations
- Provinces and territories need an organizational structure to support and continue to improve this shared system
- The proposed structure described here is known as the Product Management Board (PMB)



Proposal for a Product Management Board

- Product Management Board (PMB) will oversee
 - Maintenance and enhancement Panorama software
 - Support of the jurisdictions using the software
- PMB will be supported by a committee / working group structure with advisors from participating jurisdictions
- Day to day work of the PMB will be conducted by a Product Management Office with a staff of 8
- For administration, the Product Management Board will operate within the legal framework of a Host Agency
 - Initially, British Columbia is expected to be the Host Agency
- As proposed, Pan-Canadian annual budget is estimated at \$7.9 Million



For more information

- David Cowperthwaite
Director of Communications
(250) 216-3635
David.Cowperthwaite@gov.bc.ca

