

SNOMED CT Strategy for Canada



Overview

Healthcare in Canada

- Canada Health Infloway
- Standards Collaborative

SNOMED CT Adoption Strategy

- Current State of SNOMED CT Adoption in Canada
- Strategic Objectives
- Status
- Business Model

Next Steps

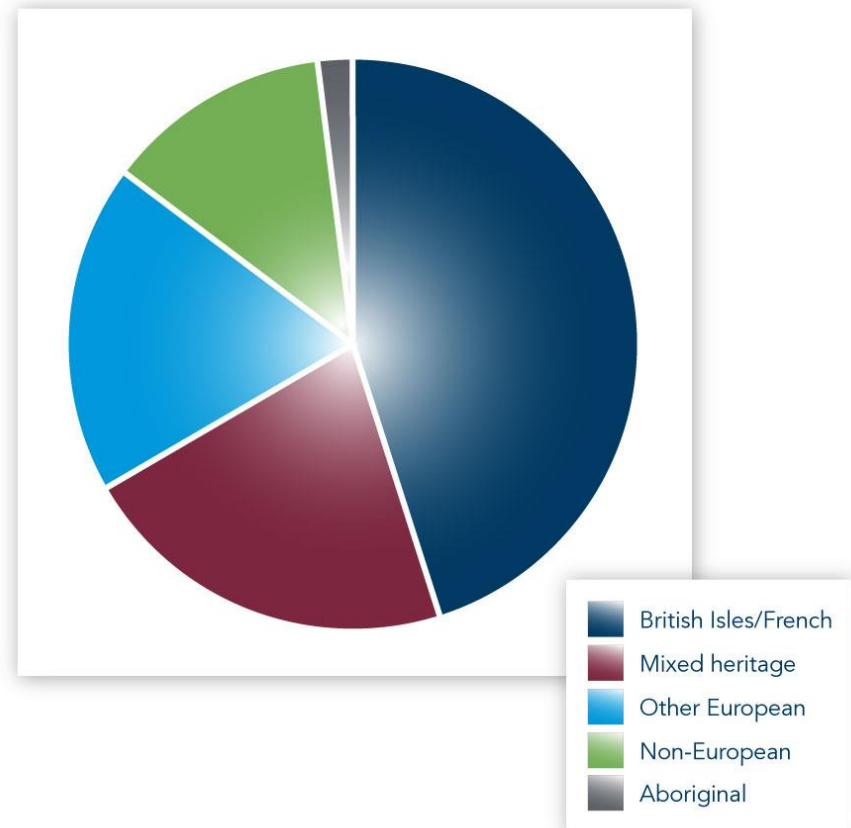
Canada: large country, small population

Second largest country
in the world

Population density
among the lowest in
the world: (33 million
people or 3.5/km²)

- Concentration:
 - Golden Horseshoe, Ontario
 - Montreal, Quebec
 - Lower Mainland, British Columbia
 - Calgary-Edmonton, Alberta

Cultural diversity



Health care spending in Canada

\$193.1 billion actual cost in 2010

Forecast cost of \$200.6 billion in 2011 and \$207.4 billion in 2012

60% of health care costs are for hospitals, drugs and physicians



The growth rate for spending is slowing

- 2009-2010: 5.9% (actual)
- 2010-2011: 3.9% (forecast)
- 2011-2012: 3.4% (forecast)

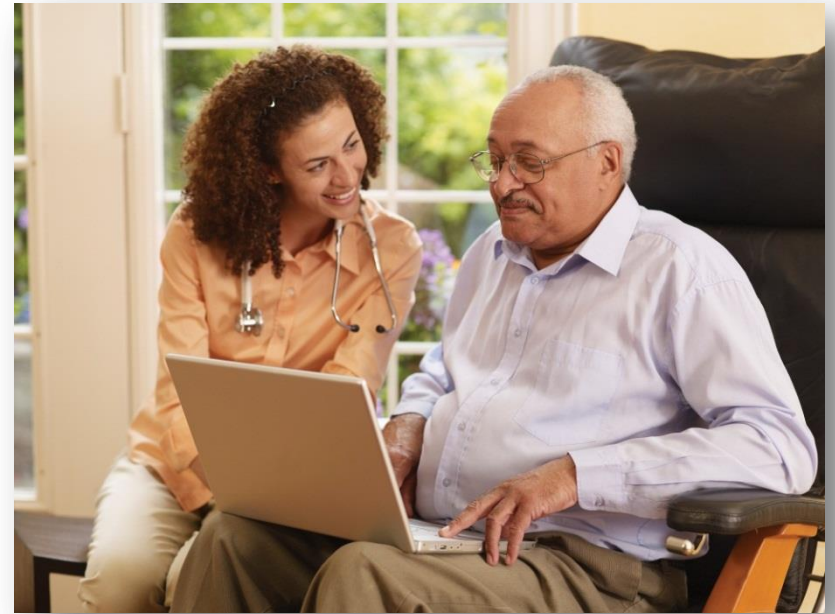
Health care driver

Canada's population is aging

1.3 million Canadians are over the age of 80

Senior citizens will outnumber children by 2020

Health of baby boomers is deteriorating



Health IT could save time for Canadians

A recent Conference Board of Canada study found that:

In 2011, if Canadians had been able to consult with their physicians and access test results online, or renew prescriptions electronically, they could have:

- Avoided nearly **47 million in-person visits** to health care providers
- Taken **18.8 million fewer hours off work** and had **51 million extra hours** to spend on non-paid activities like education, volunteer work and leisure
 - For a total saving of nearly **70 million hours**



If the 18.8 million hours could be allocated to work, Canada's economic activity would increase by about \$400 million every year.

Canada Health Infoway

Created in 2001

\$2.1 billion in federal funding

Independent, not-for-profit corporation

Accountable to 14 federal/provincial/territorial governments

Mission:

Fostering and accelerating 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. *Infoway* will build on existing initiatives and pursue collaborative relationships in pursuit of its mission.

Infoway's vision

Healthier Canadians through innovative e-health solutions.



Infoway business strategies

Collaborate with health ministries and other partners

Co-invest with public sector partners (75:25 formula)

Leveraged investment

Engage clinicians

Form strategic alliances with the private sector

Manage risk and ensure quality solutions

Measure benefits and adoption

Strategic investor

Privacy safeguards



Infoway Standards Collaborative – Our Role

Launched in 2006, the *Infoway* SC is a Canadian wide coordination function developed to support and sustain health information standards and foster collaboration in standards development to accelerate the implementation of pan-Canadian standards based solutions

We are a “one stop shop” for the coordination of health information standards in Canada

SNOMED CT Strategies Development Context

Objective:

To provide an overview of the current state of SNOMED CT progress in Canada and a proposed set of strategy considerations for discussion.

Vision

SNOMED CT will enable interoperability by allowing data to be portable across health solutions and care settings in Canada.

Background

SNOMED CT is the key terminology standard selected by Canadian stakeholders for use in health information and communication technologies.

Terminology standards facilitate the interoperability of electronic health records (EHRs) by enabling clinical data to be captured, retrieved, aggregated and shared across health care settings and providers in a reliable, safe way.

SNOMED CT specifically features codes for over 300,000 clinical concepts, ranging from diagnoses to medication orders. Each concept is linked to multiple descriptions, which allows clinicians to express a clinical concept in a way they would prefer without losing its intended meaning.

Strategies Development Context (Cont'd)

Background

SNOMED CT is the only terminology standard comprehensive enough to support the needs of clinicians from across health care disciplines and settings.

Although there are thousands of clinical concepts that can be coded, implementers can pick and choose what they need from SNOMED CT to meet their specific business or clinical needs. Ref sets, which are comprised of a group of similar concepts, can also be utilized to make SNOMED CT easier to use.

International Health Terminology Standards Development Organization (IHTSDO®) owns and administers SNOMED CT to various member countries. *Infoway's* Standards Collaborative (SC) became a charter member of IHTSDO in 2006, and is responsible for distributing and supporting the international core release of SNOMED CT and its Canadian extensions.

Current State of SNOMED CT Adoption

Over 40 initiatives are underway assessing the feasibility, planning to or actively using SNOMED CT in Canada

Although it is increasing, there is limited adoption of SNOMED CT for larger projects; current implementations include the following domains – DI, Lab (microorganism), Vaccines, Synoptic Reporting for Surgery and Pathology

Check out the SNOMED CT Tracker on the SC's

Domain	Initiative <i>(mouse over to view full description)</i>	Status	Location	Organization	Contact
Academic Research and Service Unit	New - Evidence-based Medicine Literature Delivery Service Overview »	Implemented and continuously improved and updated	Canada, Ontario	Health Knowledge Refinery, Health Information Research Unit, McMaster University	Brian Haynes bhaynes@mcmaster.ca ; Jennifer Lawson hollj@mcmaster.ca
Clinical Documentation	New - Common Problems Backbone Terminology Overview »	In progress	United States of America	Intermountain Healthcare	Naveen Maram Naveen.Maram@imail.org

Proposed Strategy Directions

Clearly define the expected use of SNOMED CT.

Develop and execute a phased communications approach, supporting the SC's Business Plan, that markets the value proposition of SNOMED CT to clinicians, vendors and implementers.

Identify, develop plans and execute on the provision of products, tools, and services to support SNOMED CT to clinical, jurisdictional and industry stakeholders. Part of this will include business model development for implementation services to capture potential revenue.

Facilitate the adoption and use of SNOMED CT locally, regionally and nationally from a clinical perspective, implementer perspective and industry perspective by the provision of more proactive support mechanisms.

Influence, leverage and align with other international standards to increase the effective and efficient use of SNOMED CT.

Proposed Goals & Targets – 2011-2016



Clearly define the expected use of SNOMED CT.

- Approval of Strategy Direction
- SNOMED CT recognized as a Canadian Approved Standard for key clinical areas
- Definition and communication of the expected use of SNOMED CT in the EHR Blueprint

Develop and execute a phased communications approach*, supporting the SC's Business Plan, that markets the value proposition of SNOMED CT to clinicians, vendors and implementers. The first phase will:

On Hold

- Identify and engage key stakeholder groups, including Chief Influencers/Champions
- Identify and validate the value proposition(s) by audience
- Build targeted communications and marketing vehicles to communicate this value, and to profile SNOMED CT successes to date





Proposed Goals & Targets– 2011-2016

Identify, develop plans and execute on the provision of products, tools, and services to support SNOMED CT to clinical, jurisdictional and industry stakeholders. Part of this will include business model development for implementation services to capture potential revenue.

- Development and execution of a SNOMED CT tooling strategy once corporate direction is set on the approach for tooling and internal and external reviews are complete.

In Progress

Short Term Deliverables:

- Completion of business models for stakeholders, services and tools 
- Completion of Implementation Support Model 
- Development of migration tools and SNOMED CT implementation tools
- Tools leveraged from IHTSDO and its members are in use by Canadian stakeholders **In Progress**
- Development of priority ref sets and are in use by stakeholders 
- Completion of SNOMED CT Implementation Toolkit that is in use by stakeholders 

Proposed Goals & Targets – 2011-2016


Facilitate the rapid adoption and use of SNOMED CT locally, regionally and nationally from a clinical perspective, implementer perspective and industry perspective.

- Completion of the first build of a registry of local, jurisdictional , pan-Canadian and international reference sets that are easily accessible to stakeholders **In Progress**
- Completion of use cases, best practices and lessons learned that are bringing value to stakeholders **In Progress**
- Development and launch of a SNOMED CT Early adopters group **Not yet started**
- Development and launch of SNOMED CT Certification **In Progress**

Proposed Goals & Targets – 2011-2016

Influence, leverage and align with other international standards to influence the use of SNOMED CT.

Not yet started

- Completion of strategic partnerships supporting the use of SNOMED CT
- Leadership positions at the IHTSDO that allow influencing direction and leveraging content to meet Canadian needs 
- Some jurisdictions have either upgraded their billing codes to use SNOMED CT or have mapped to SNOMED CT

Not yet started

SNOMED CT Business Model

SNOMED CT Terminology Services will provide the following

Client Services

- Implementation support
- Education and training
- Adoption planning
- Requests for change
- Ref Set development support
- Access and support of tools
- Access to standards including existing Ref Sets

Product Support

- Core SNOMED CT terminology and pan-Canadian extension
- IHTSDO influence and liaison
- Licensing and agreements

Tooling Support

- Implement, operate and ongoing management of internal and external SNOMED CT tools and tooling support

Next Steps

- Prioritize projects with a focus on projects that create ref sets in partnership with clients that can guarantee implementation and possibly maintenance
- Develop sub sets that are usable by multiple jurisdictions/organizations.
- Upgrade SNOMED CT Tooling and Education
 - By end of FY 2013/2014 complete the initiatives underway to improve workflow to managing terminologies, releases, and production of sub sets
 - Offer more education opportunities to build expertise outside Infoway eg. free webinars, custom courses for jurisdictions
 - Continue to explore professional certification options to expand the resource pool with SNOMED CT expertise across the country

THANK YOU!