



Canadian Pharmaceutical Bar Coding Project

Improved Medication Safety Moving Forward

A National Collaborative

Global GS1 Healthcare Conference

April 6, 2011



Collaborating Organizations



Project Overview

A National Collaboration between seven healthcare sectors. A two-year project comprised of 3 initial phases.

Major Objectives:

To develop a pan-Canadian strategy for bar coding of commercial pharmaceutical products.

To develop (or “select”) a common product database for standardized product descriptor data.

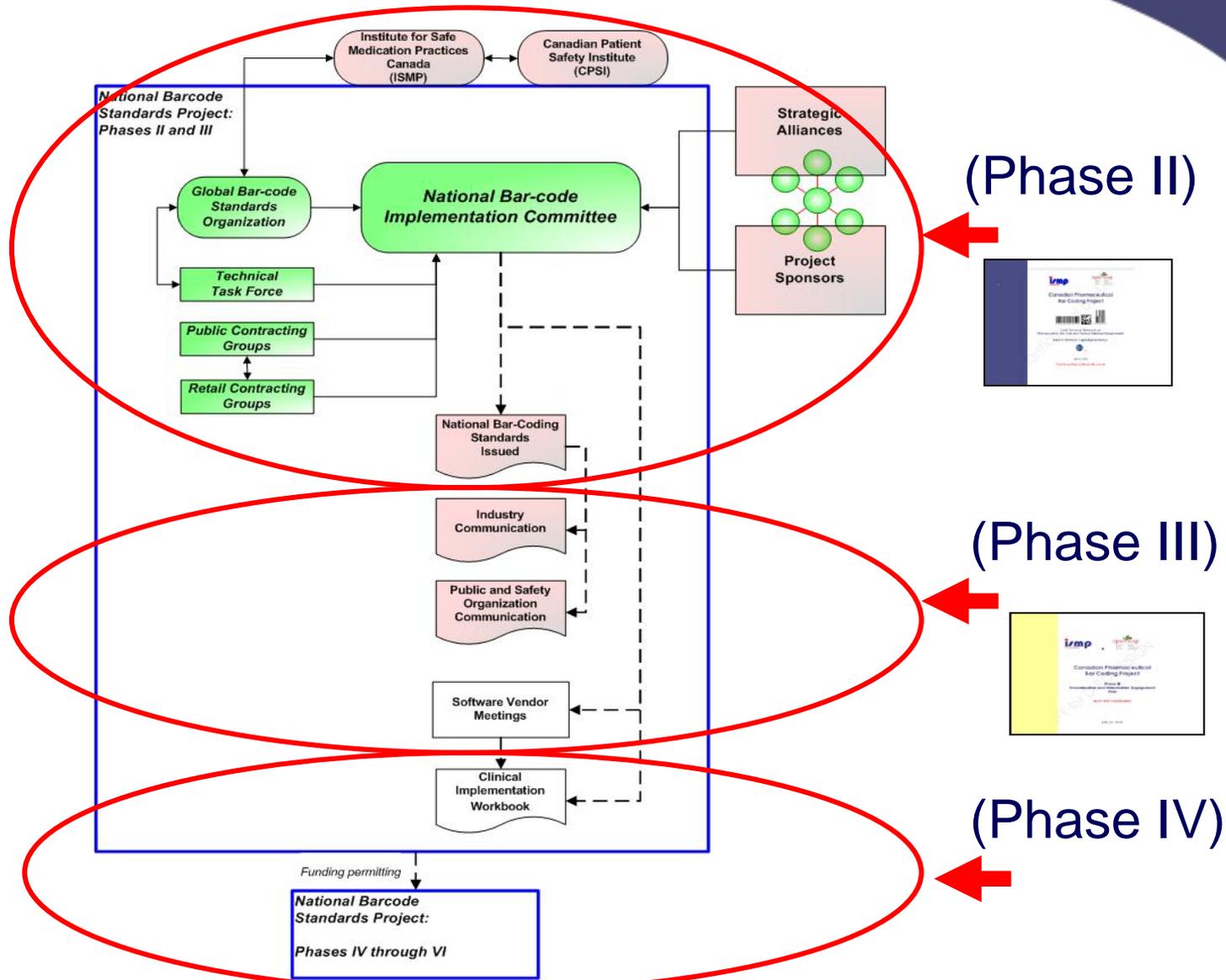
To encourage clinical information systems development which utilizes automated identification and data capture at each point of the medication chain.

To create a national environment for the implementation of automated identification implementation within each identified healthcare sector.

National Bar-coding Project Process

September 2008

Project Structure & Flow

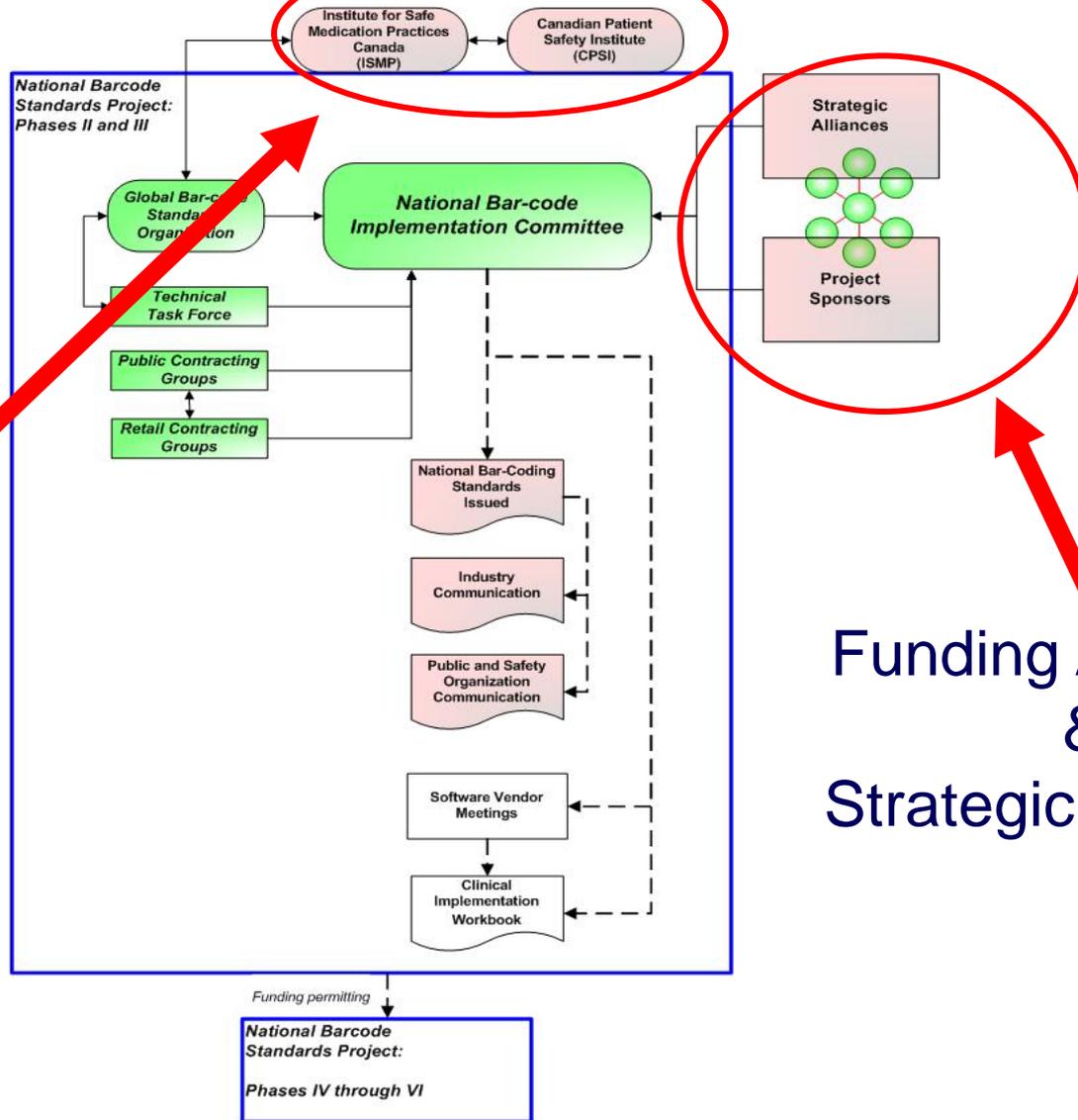


National Bar-coding Project Process

September 2008

Project Structure & Flow

Facilitators:
CPSI
ISMP Canada



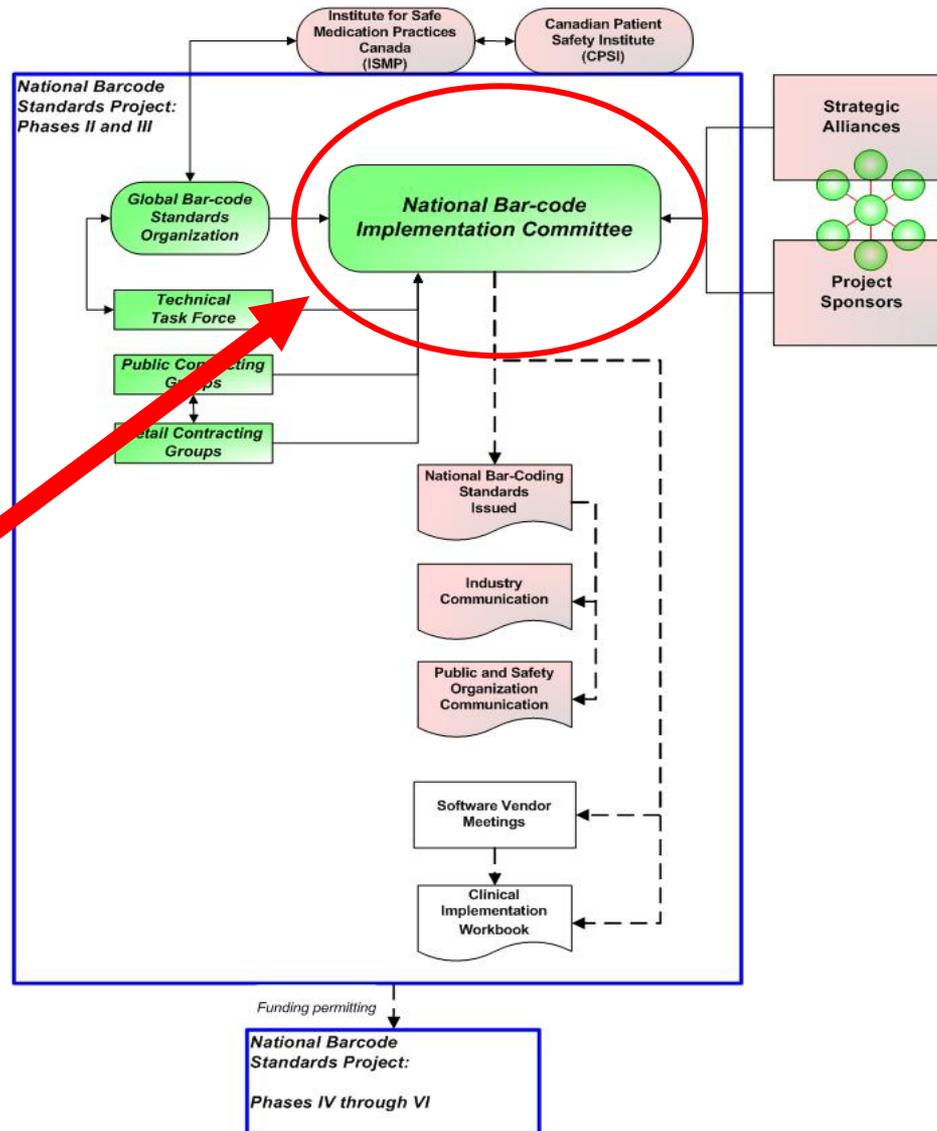
Funding Agencies & Strategic Alliances

National Bar-coding Project Process

September 2008

Project Structure & Flow

National Advisory: "Implementation Committee"

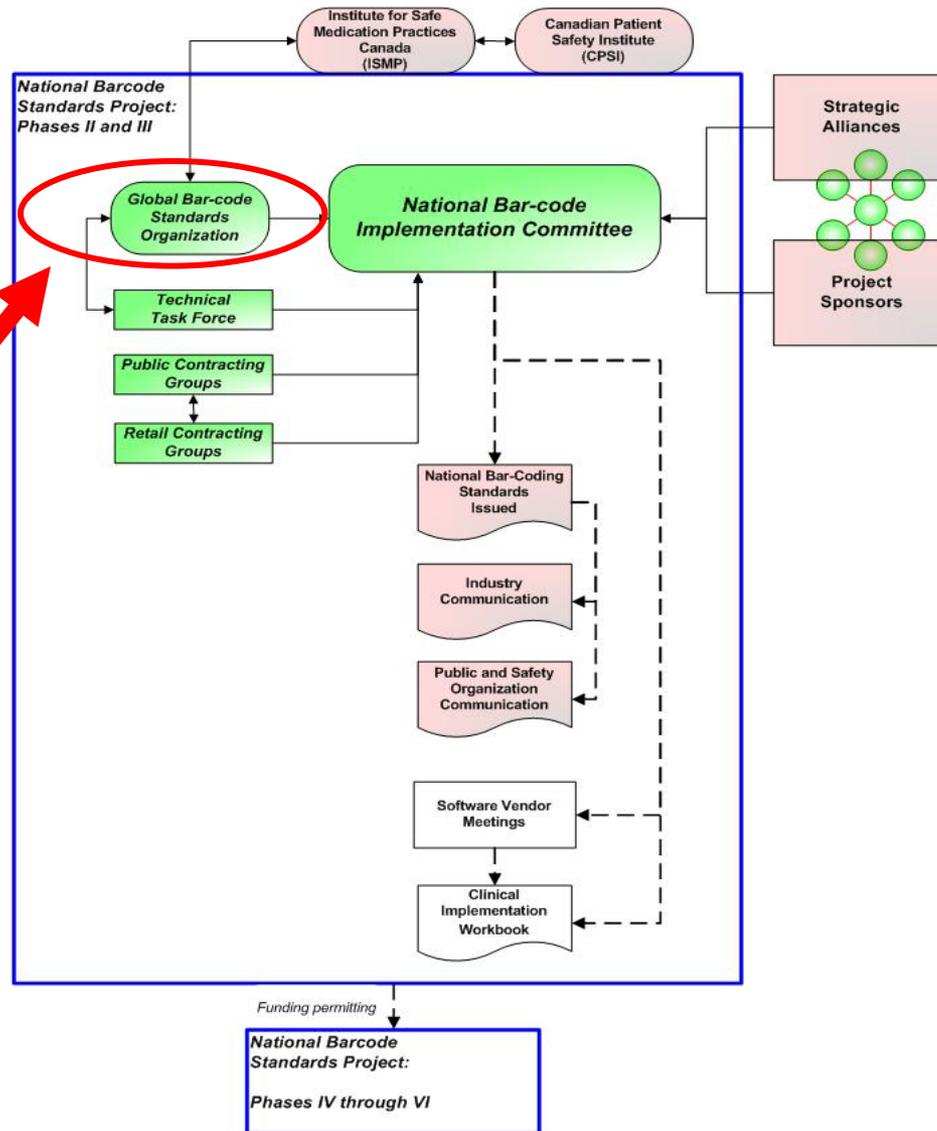


National Bar-coding Project Process

September 2008

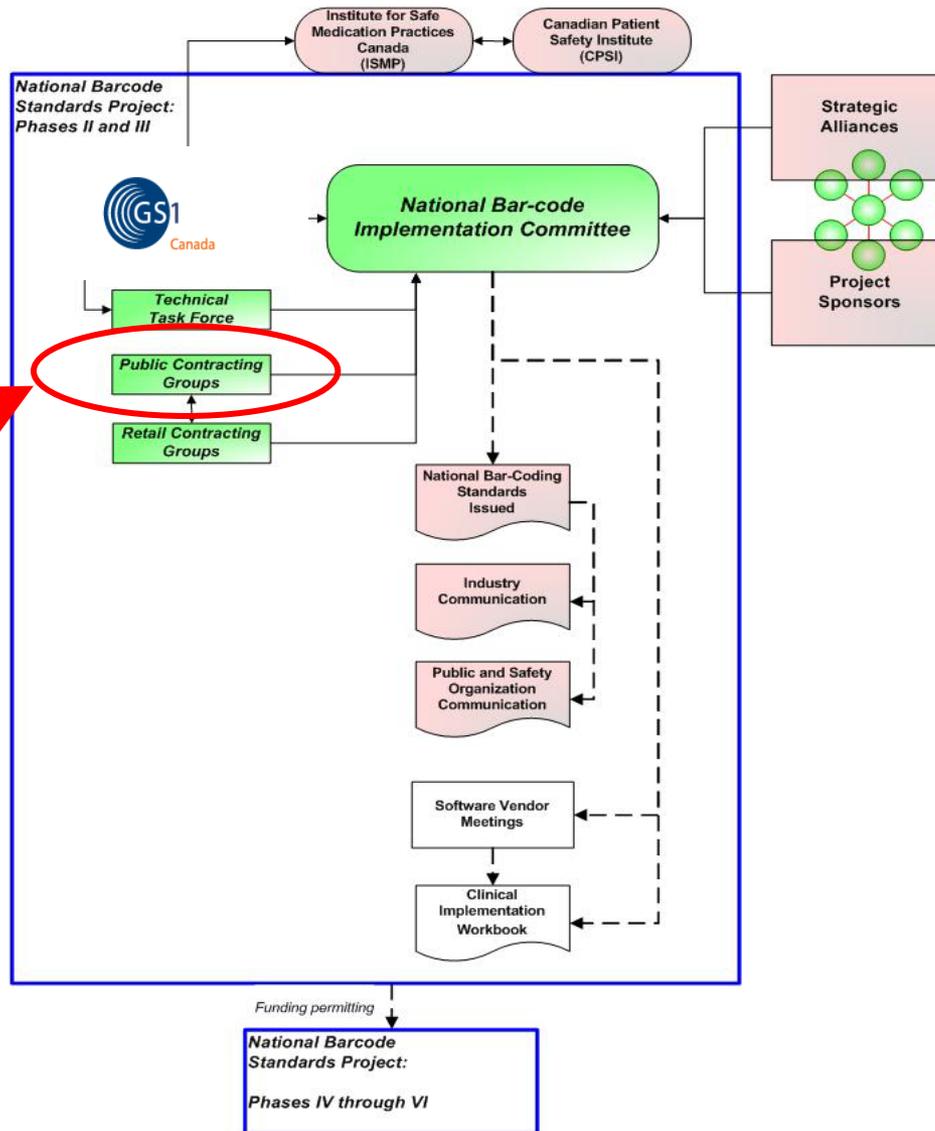
Project Structure & Flow

Global AIDC Standard Selected



National Bar-coding Project Process

September 2008



Project Structure & Flow

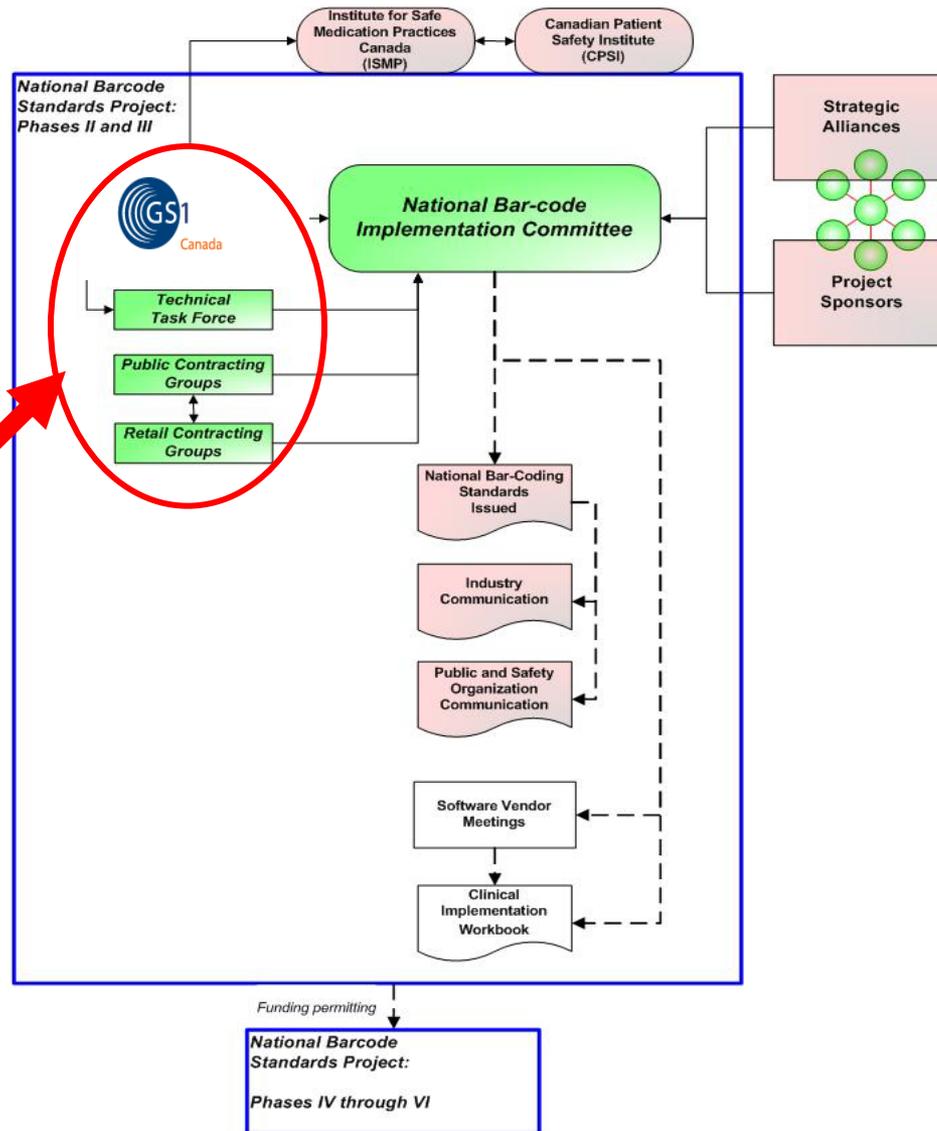
Group Purchasing Organizations:

Medication Contracting Collaboration

National Bar-coding Project Process

September 2008

Project Structure & Flow



Technical Task Force
7 Health Sectors
40 Members

Progressive Practice Integration



Build a Coalition

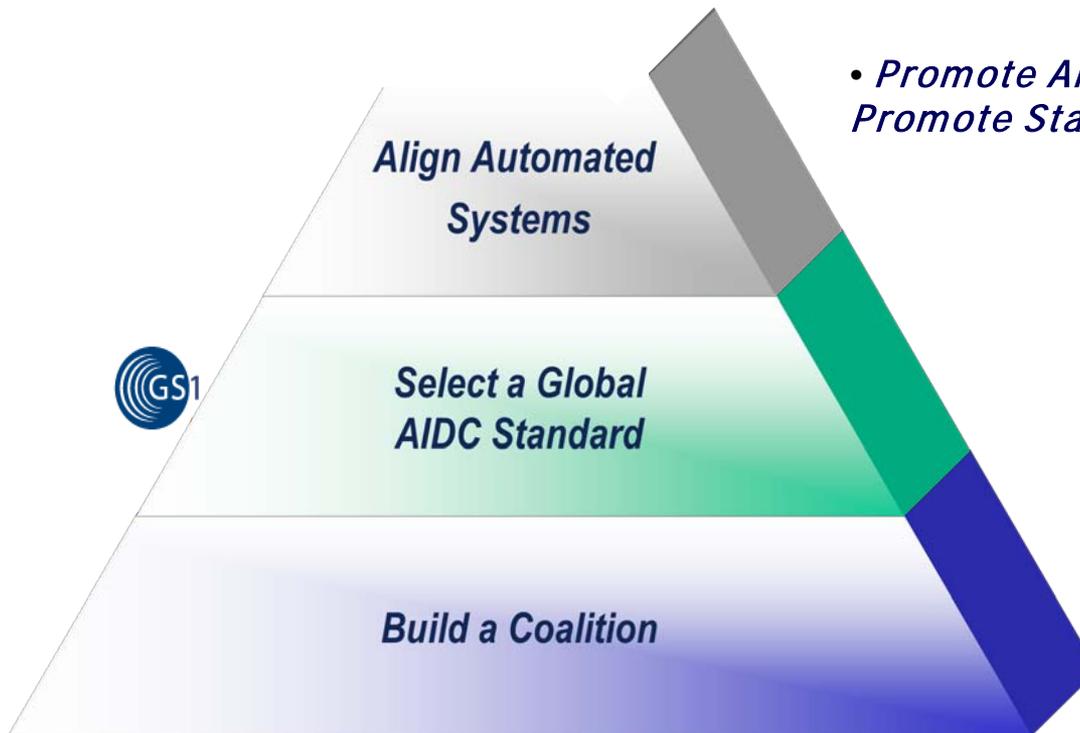
- *Seven Health Sectors:
Technical Task Force
Collaboration*

Progressive Practice Integration



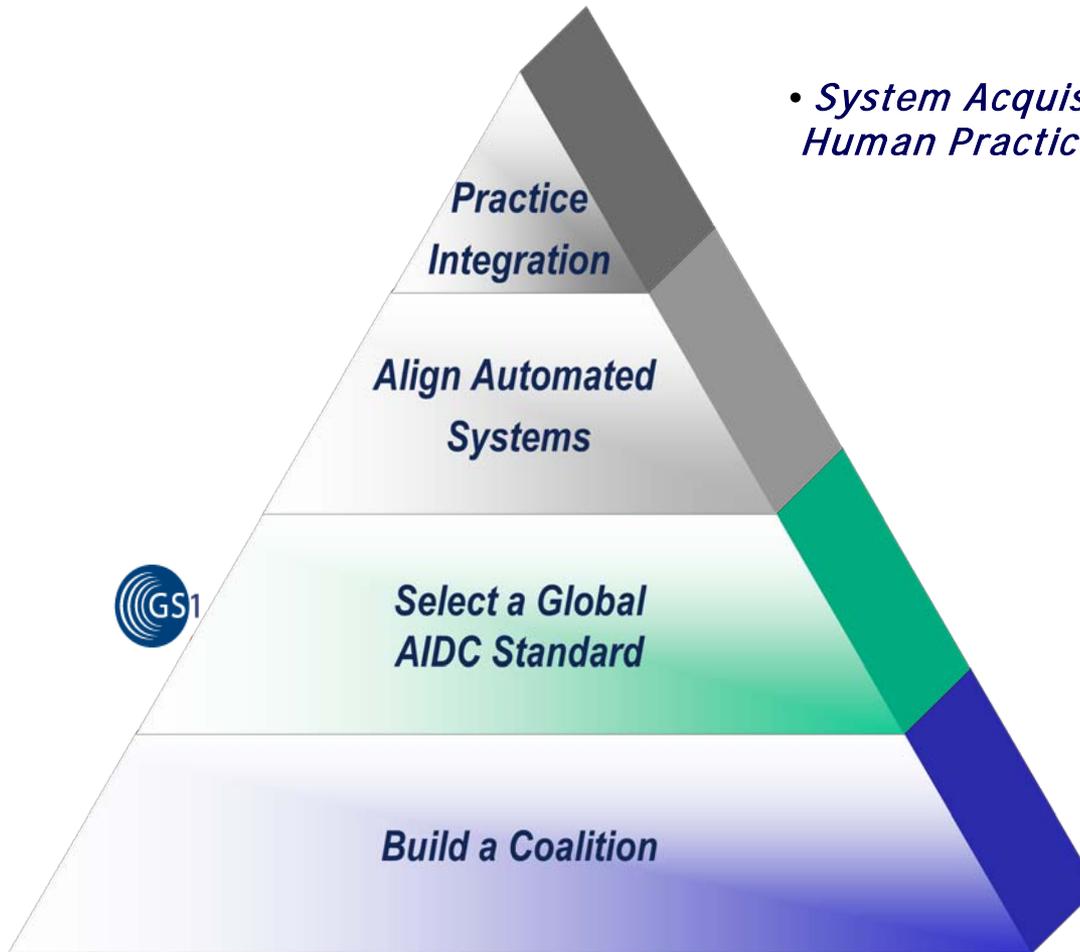
Progressive Practice Integration

PRACTICE
ENDORSEMENTS



Progressive Practice Integration

PRACTICE
ENDORSEMENTS



GS1 Canada and the National Project

Key Areas of collaboration ...

Ongoing ...

Participation in national Advisory Committee (Implementation Committee)

Support for Technical Task Force AIDC knowledge, and global trends

Integration between AI standards and clinical healthcare safety practices

Application of Canadian standardized product descriptors (ECCnet Registry)

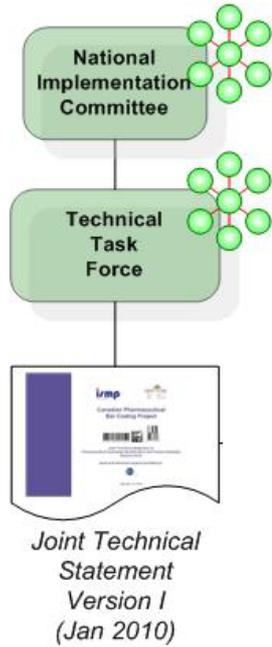
Dissemination of the national medication bar code standard

Future ...

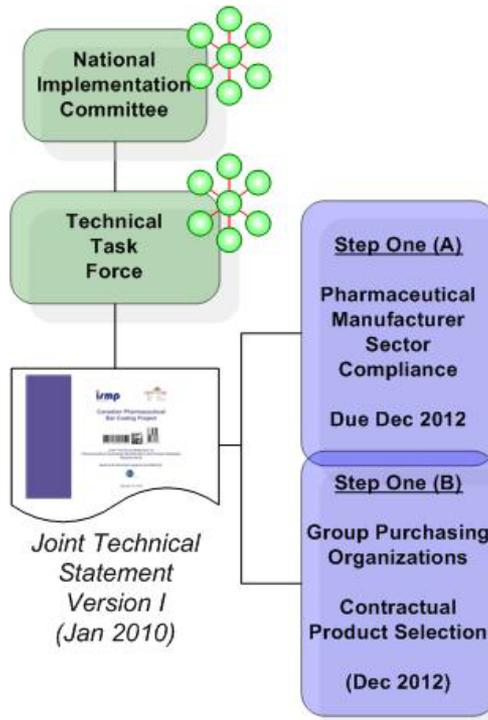
End-user system implementation guides

Ongoing support of national technical statements

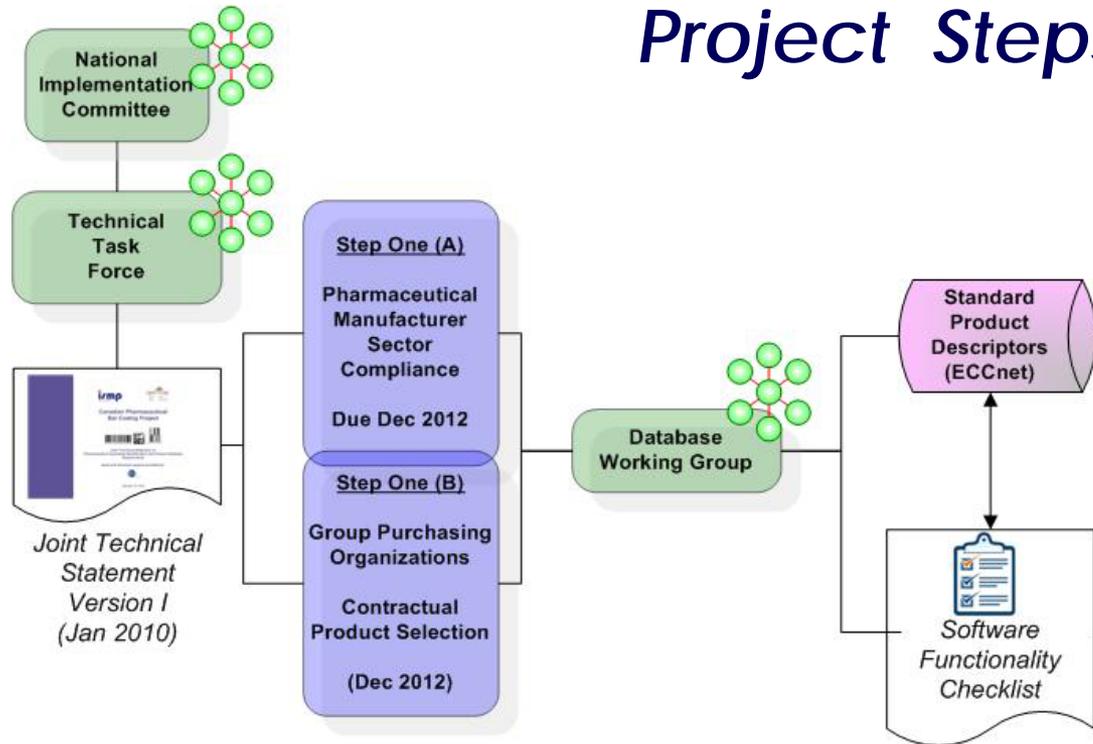
Project Steps



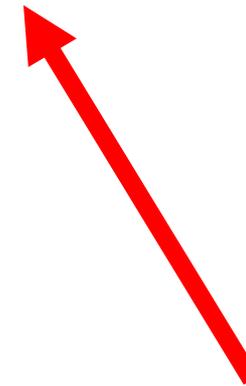
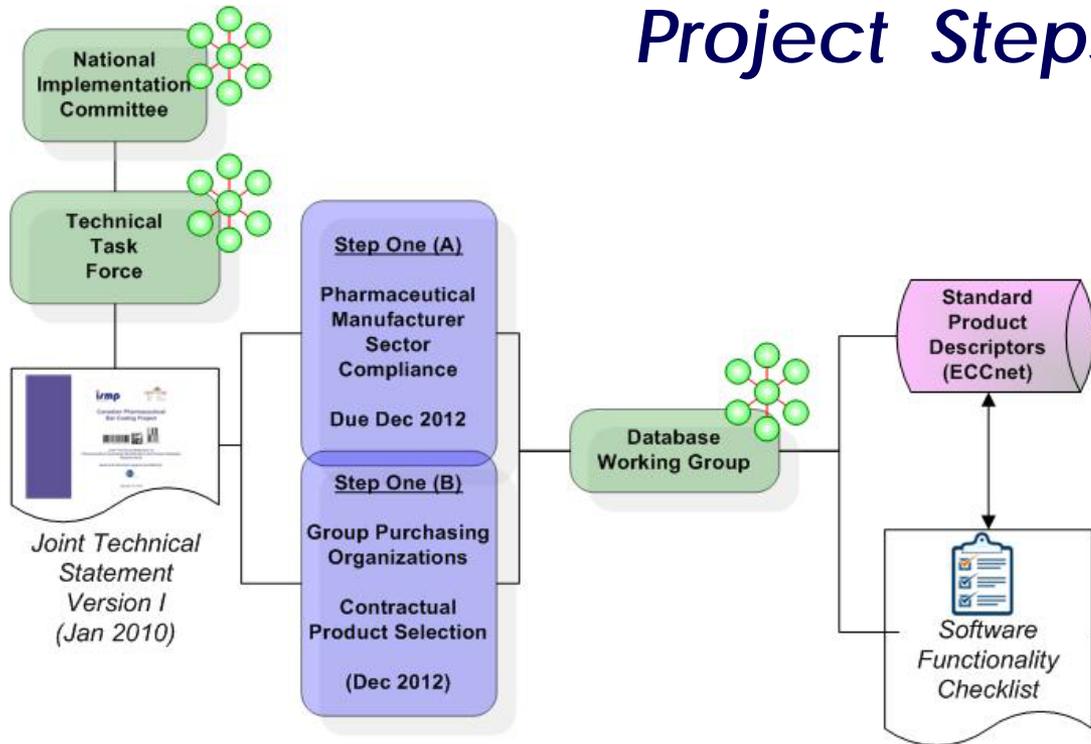
Project Steps



Project Steps

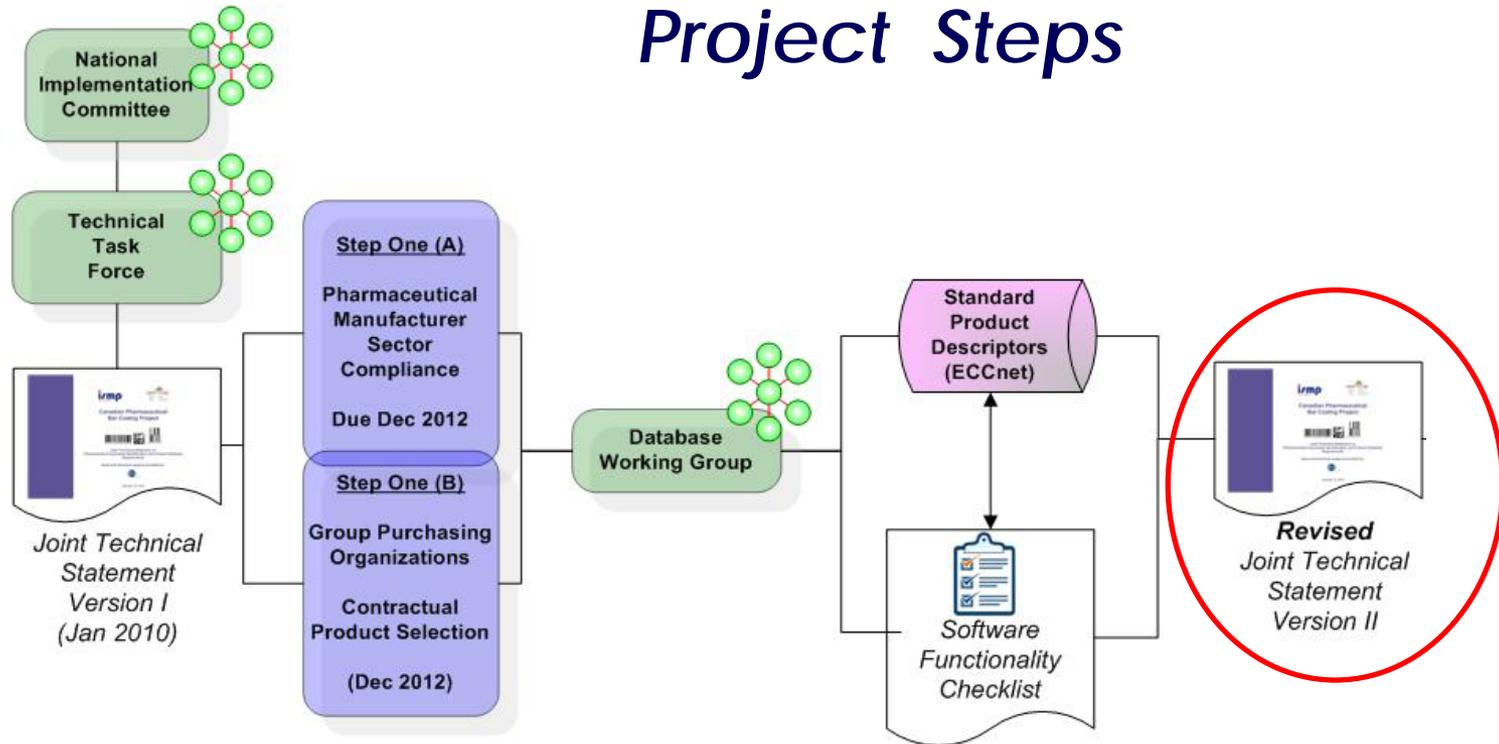


Project Steps

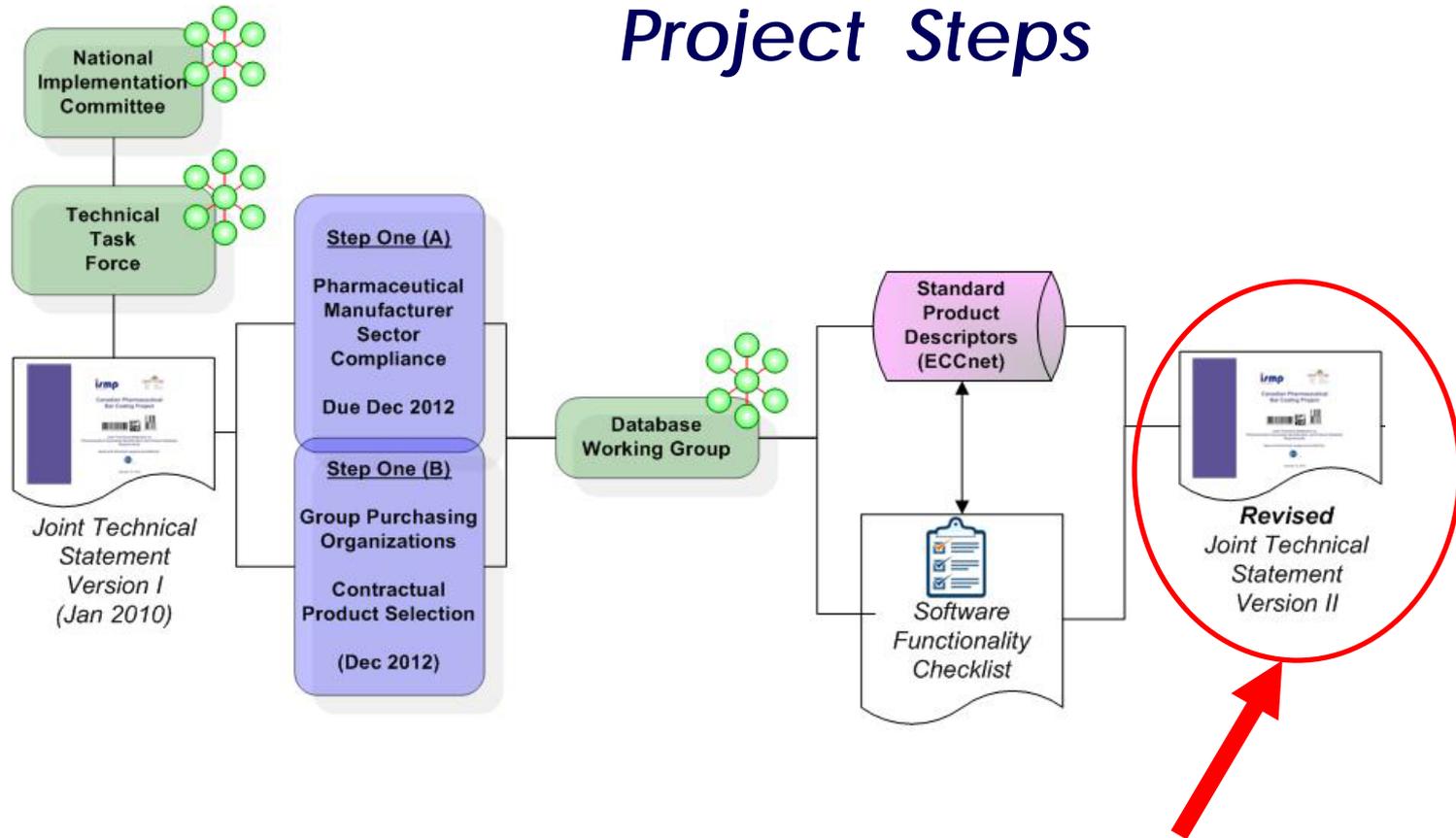


We are here today!!

Project Steps



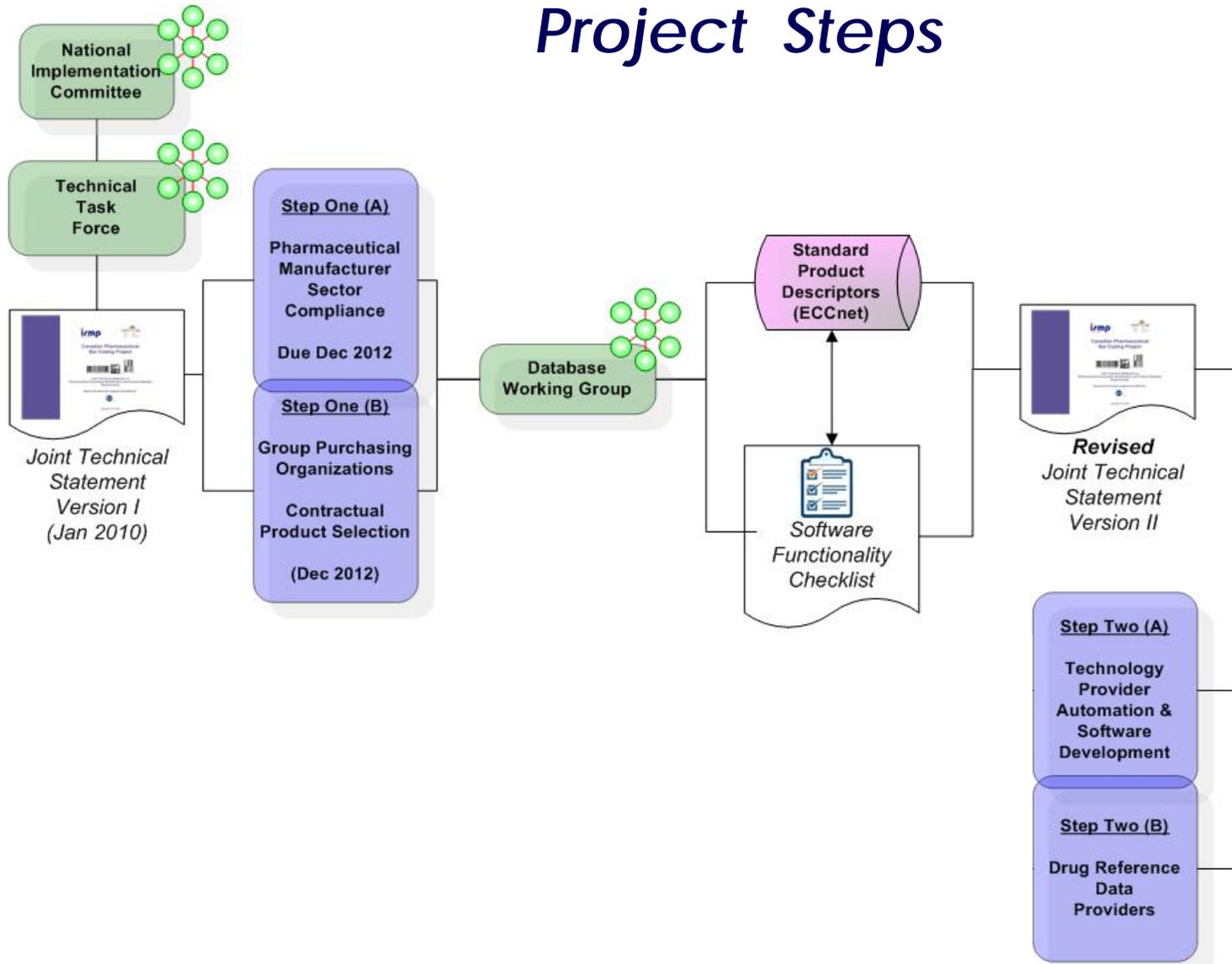
Project Steps



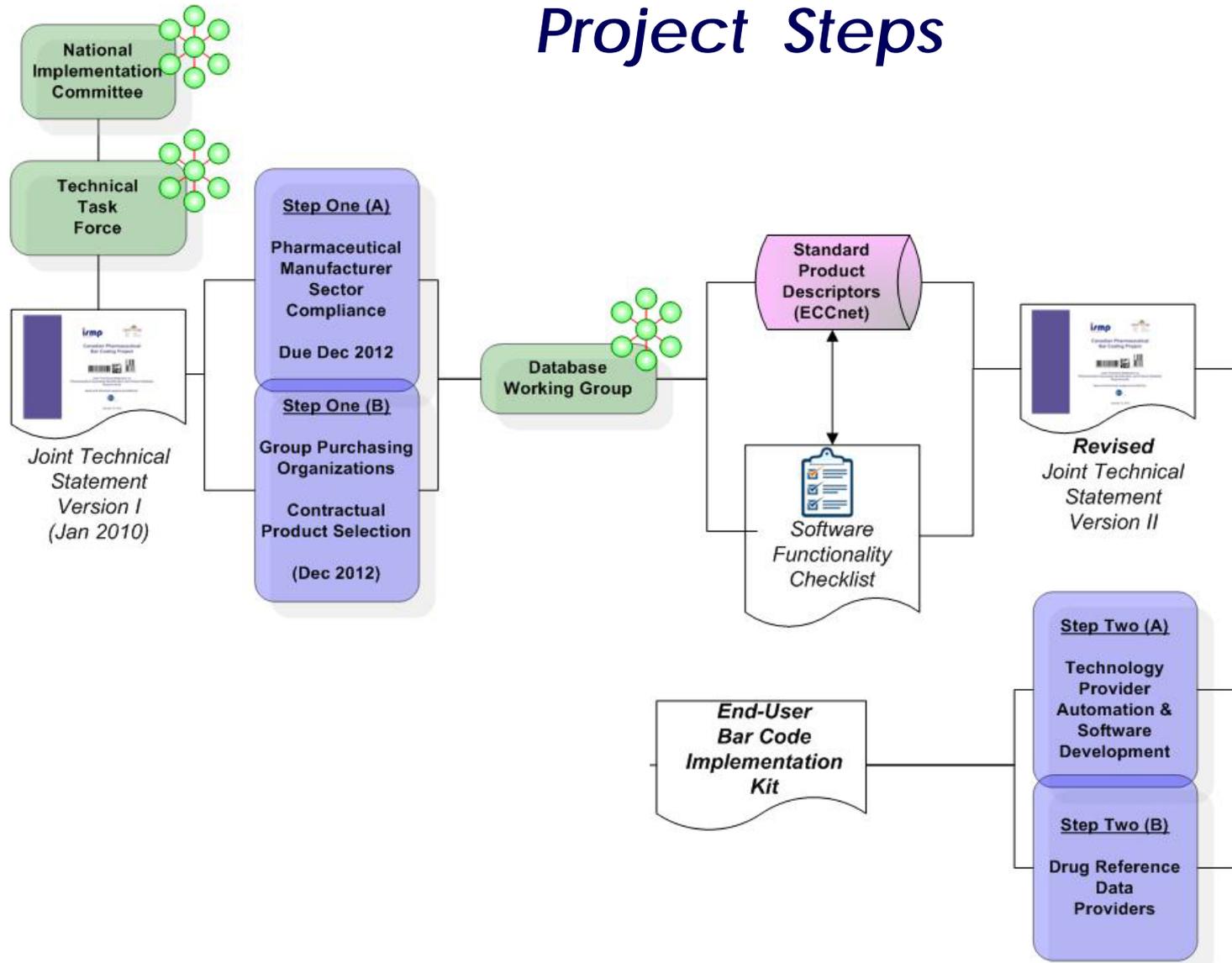
Version II Key Changes:

- + Variable Bar Code Data Elements
- + Minimum Safety Functionality
- + Standardized Product Descriptors

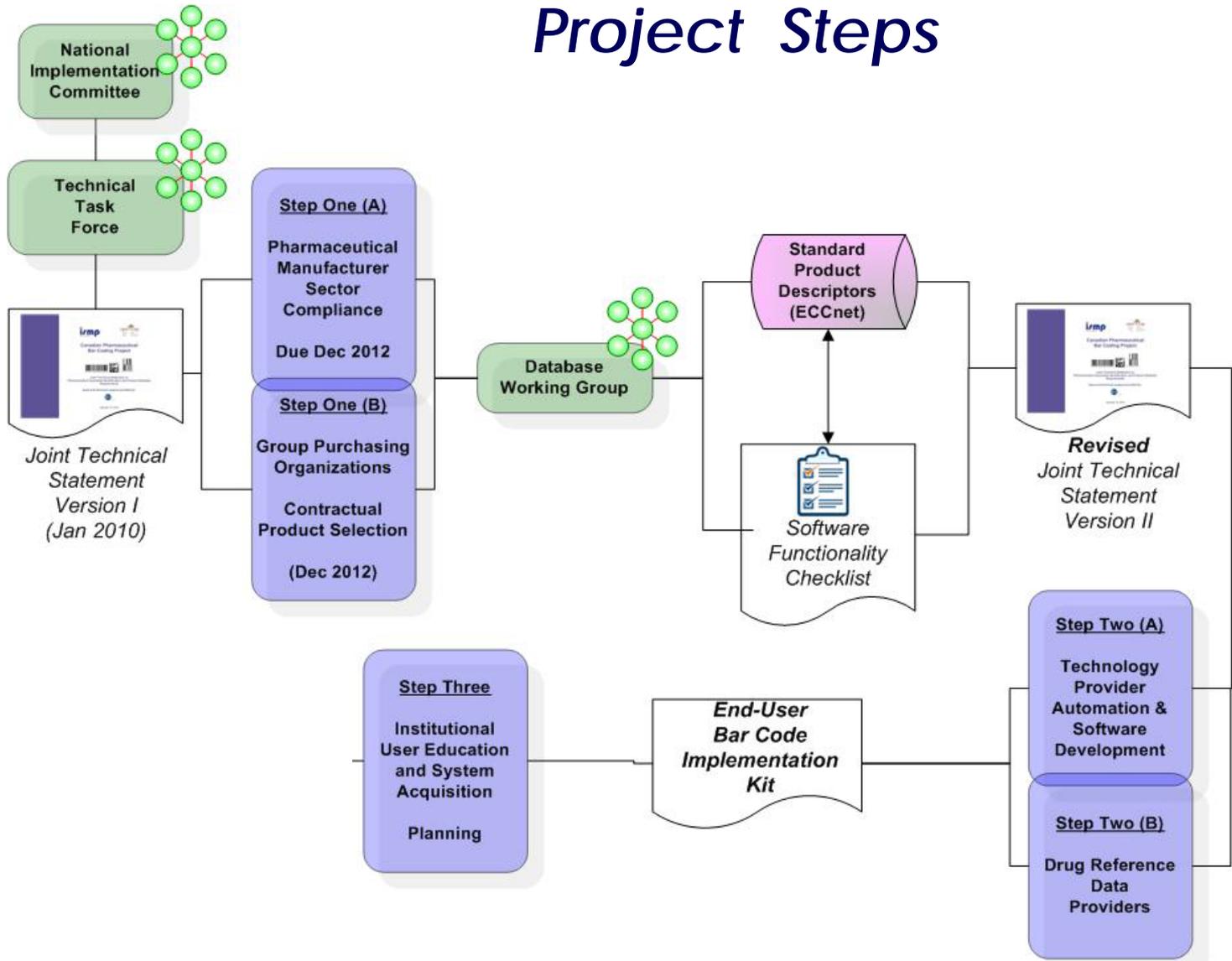
Project Steps



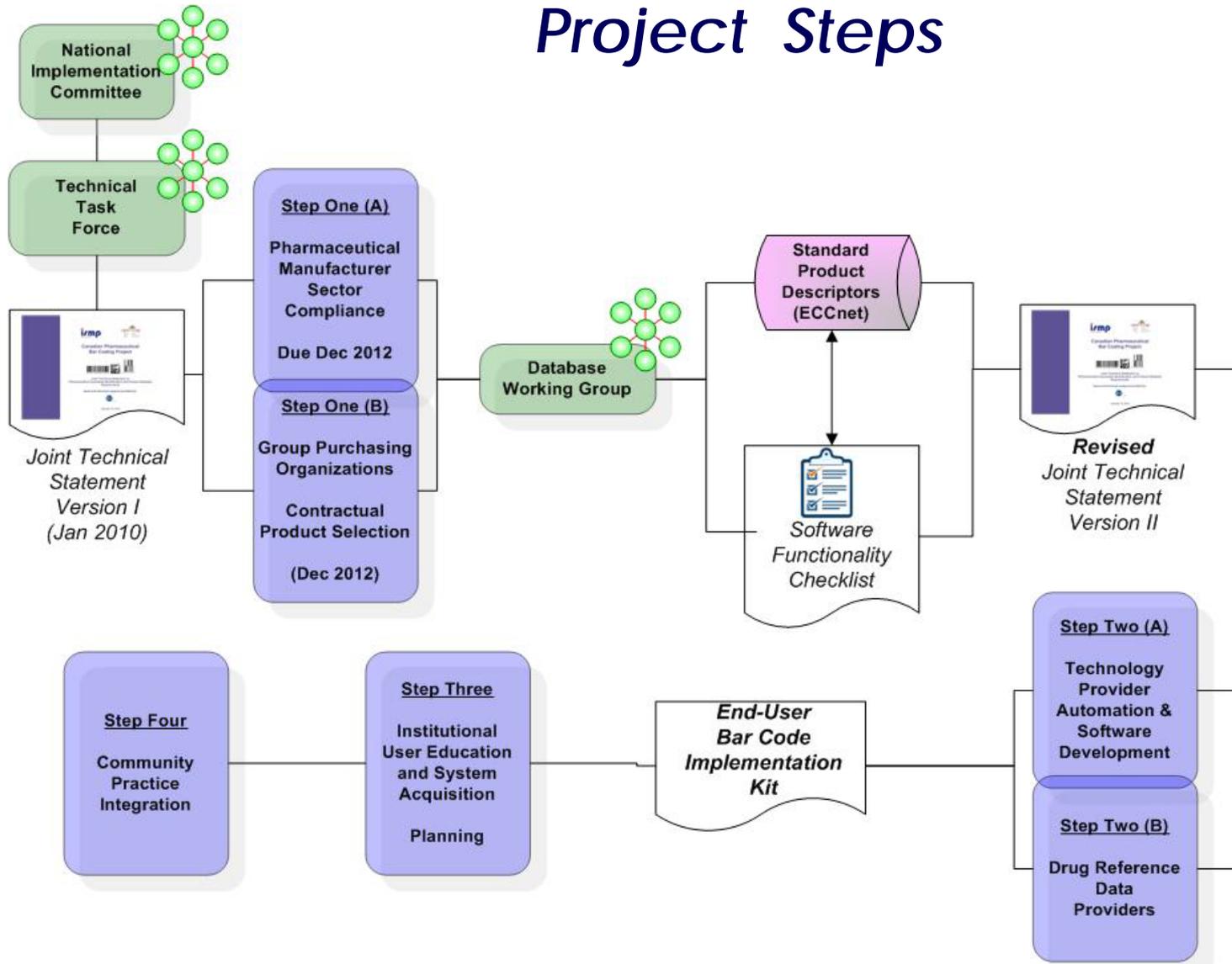
Project Steps



Project Steps



Project Steps



The Joint Technical Statement

(Phase II)

Section 1: Pharmaceuticals to be Encoded

Section 2: Common National Standard

Section 3: Content of the Bar Codes

Section 4: Pharmaceutical Packaging Levels and Placement of Bar Codes



The Joint Technical Statement

(Phase II)



Section 5: A Common Canadian Pharmaceutical Product Registry (CCPPR)

Section 6: Bar Code Symbology

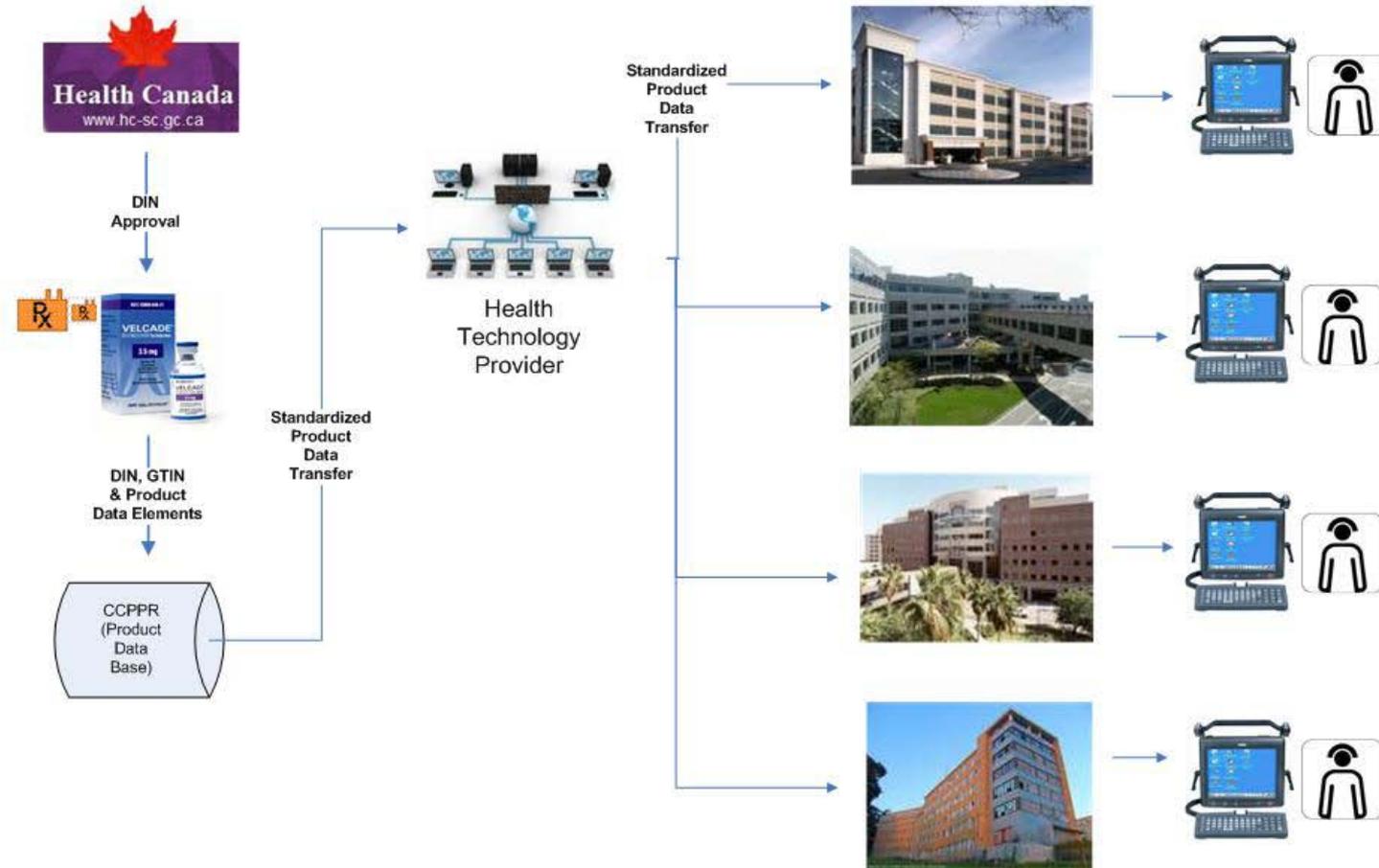
Section 7: Expectations of Professional Practice Organizations and End-Users

Section 8: Timeline Adoption of Standard (Pharmaceuticals Dec 2012)

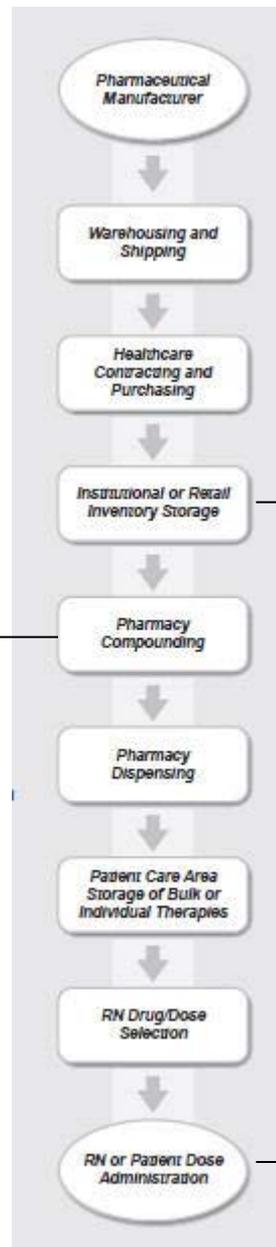
How will the standardized bar coding integrate into professional practices?



Practice Implementation

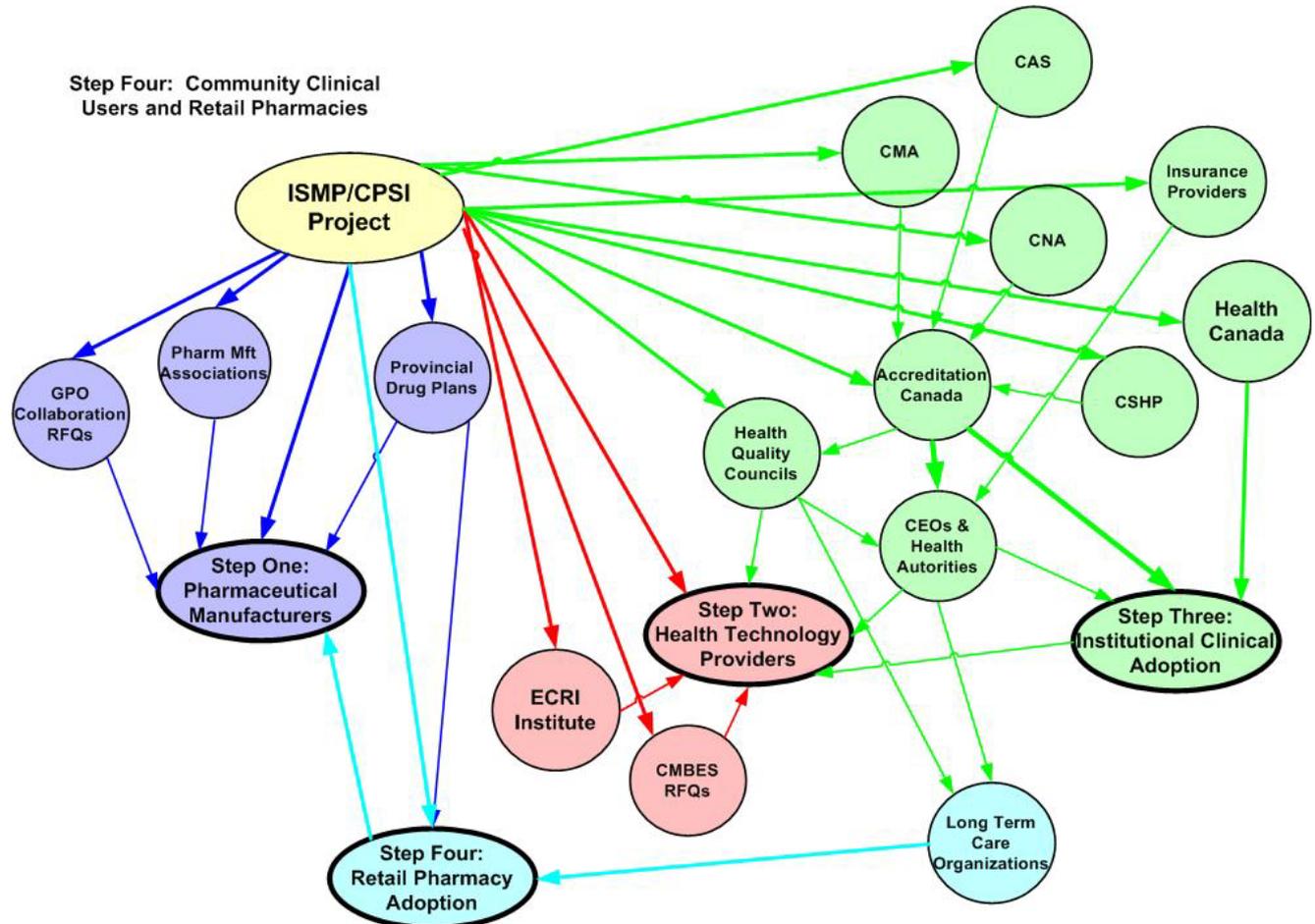
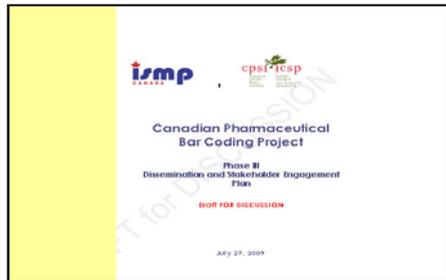


The Safe Medication Chain



The Dissemination and Stakeholder Engagement Strategy

Inter-relationships of Key Organizations



Endorsement of Bar Coding: ASHP

American Society of Health-Systems Pharmacists

Statement on Bar-Code-Enabled Medication Administration Technology (2009) <http://www.ashp.org/DocLibrary/BestPractices/AutoITStBCMA.aspx>

“ASHP encourages health systems to adopt BCMA technology, with the goal of having all medications electronically verified before they are administered.”

“Coding should be provided on all drug packages, including unit doses and injectable drugs, as well as the NDC, lot number and product [sic] expiration date.”

“New technologies that develop beyond BCMA should follow the principles in this statement.”

Endorsement of Bar Coding: EAHP



EAHP and GS1 team up to advance patient safety in Europe
Promoting global coding standards for medical products
to improve hospital pharmacy processes.

Contact:
- Dr. Roberto Frontini, President, EAHP, president@eahp.eu
- Jan Denecker, Marketing Manager, GS1, jan.denecker@gs1.org

BRUSSELS, BELGIUM, 7 September 2010 - The European Association of Hospital Pharmacists (EAHP) and GS1 have announced today that they have signed a Memorandum of Understanding to collaborate in promoting patient safety.

"In hospitals, personalised treatments are prepared in the pharmacy or ward, and administered by nurses to the patients. A complete and unambiguous identification of the drug, up to the moment of administration, is a key element of a safe dispensing procedure when drugs are dispensed," said Roberto Frontini, President, European Association Hospital Pharmacists (EAHP). **We encourage the adoption and harmonisation of GS1 Standards in Europe to enable the effective and efficient implementation of bar codes on all packages of drugs.**

"This agreement is an important step in improving patient safety and Healthcare supply chain processes. Hospital pharmacists will now be more closely involved in the development and implementation of global standards to bar code medical products and automate supply chain data management," said Bo Raattamaa, Chair GS1 in Europe and CEO GS1 Sweden, "This collaboration will allow the two organisations to combine their respective expertise and outreach to the Healthcare community in support of an improved European patient safety environment."

"For several years now, EAHP has been looking into their requirements for bar coding of medical products. We are looking forward to contribute to the GS1 Standards development process," added Frontini, "Bar coded medical products, enabled by global standards, will not only make our hospital processes more efficient, but will positively impact patient safety by reducing medication errors."

EAHP issued a position statement in June 2007 (updated June 2010) advocating the production of single dose-packed drugs with a bar code on each single dose (www.eahp.eu/sites/default/files/EAHP-statement_June-2010). To achieve this, EAHP strongly recommends the use of internationally recognised GS1 Standards. This will allow hospitals to improve the efficiency of the dispensing process and, more importantly, ensure a safer process, preliminary studies have suggested a 50 to 80% reduction of administration errors when bar coded drugs are scanned at the bedside.

Earlier this year, GS1 Healthcare published the GS1 Standard for the Automatic Identification and Data Capture (AIDC) of medical products (www.gs1.org/sites/default/files/stockmedia_center/gs1_nr_210110_healthcare_AIDC_Application_Standards.pdf).

Roberto Frontini, President, European Association Hospital Pharmacists (EAHP). "We encourage the adoption and harmonisation of GS1 Standards in Europe to enable the effective and efficient implementation of bar codes on all packages of drugs."

Endorsement of Bar Coding: CSHP

**Canadian Society of Hospital Pharmacists**
Société canadienne des pharmaciens d'hôpitaux

Mission March 17, 2011

Committed to the advancement of safe, effective medication use and patient care in hospitals and related healthcare settings.

Engagés à l'avancement de l'utilisation sécuritaire et efficace des médicaments, et des soins aux patients dans les établissements de santé.

The Canadian Journal of Hospital Pharmacy

Le Journal canadien de la pharmacie hospitalière

Canadian Hospital Pharmacy Residency Board

Conseil canadien de résidence en pharmacie d'hôpital

Board of Fellows

Conseil des associés

David U.
President and Chief Executive Officer
Institute for Safe Medication Practices Canada
4711 Yonge Street, Suite 501
Toronto, ON M2N 6K6

Hugh MacLeod
Chief Executive Officer
Canadian Patient Safety Institute
10255 - 101 Street, Suite 1414
Edmonton, AB T2J 3G1

Dear David and Hugh,

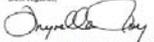
I am pleased to inform you, although belatedly, that CSHP Council has endorsed the adoption of the GS1 global standards for automated identification (e.g., bar coding) of pharmaceutical products in Canada and the *Joint Technical Statement on Pharmaceutical Automated Identification and Product Database Requirements* at its meeting on August 6, 2010. The GS1 standards and the intent of the statement are closely aligned with CSHP's commitment to the advancement of safe, effective medication use and patient care in hospitals and related health care settings.

In 2008 CSHP issued a revised position statement on drug distribution endorsing the unit-dose/automated (U.V.) admixture system as the system of choice in organized health care settings in Canada. This position statement highlights the increased adaptability of such a system to computerized procedures such as bar coding, automated packaging and web-based point-of-use technology (http://www.cshp.ca/dms/dms/View1_5_Visit_Destn_2008.pdf). Furthermore, the GS1 standards and the intent of the technical statement fall within the scope of one of our CSHP 2015 goals: (http://www.cshp.ca/dms/dms/View7_CSHP-2015-Goals-and-Objectives-Feb-2012-2017-en-Accueil-en-Mars-2008.pdf), to "increase the extent to which hospitals and related healthcare settings apply technology effectively to improve the safety of medication use", and two of its underlying objectives:

- 75% of hospitals will use machine-readable coding to verify medications before dispensing.
- 75% of hospitals will use machine-readable coding to verify all medications before administration to a patient.

The adoption of the GS1 standards and the requirements set in the *Joint Technical Statement* will undoubtedly allow Canadian hospitals to improve the efficiency and the safety of the national medication-use system.

Best regards,


Myrella Roy, B.Sc.Pharm., Pharm.D., FCCP
Executive Director

cc: Jenny Fung, Pharmacy Clinical Manager, Credit Valley Hospital, Mississauga, Ontario
Joan Horvick, Past President and Honorary Liaison, CSHP
Sylvia Myland, Vice President and Chief Operating Officer, ISMP Canada
Franette Leonard, Senior Advisor - National Partners, CPSI
Ian Sheppard, Project Leader Canadian Pharmaceutical Barcode Project, ISMP Canada

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www.cshp.ca

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GS1 global standards for automated identification (e.g., bar coding) of pharmaceutical products in Canada and the *Joint Technical Statement on Pharmaceutical Automated Identification and Product Database Requirements* at its meeting on August 6, 2010. The GS1 standards and the intent of the statement are closely aligned with CSHP's commitment to the advancement of safe, effective medication use and patient care in hospitals and related health care settings.

Practice Endorsements



February 14, 2010

Ian Sheppard
Project Leader
Institute for Safe Medication Practices
4711 Yonge Street, 5th
Toronto, ON M2N 6K8

Dear Mr. Sheppard:

The Health Sciences and Technology Commission (HSTC) is pleased to announce that it has endorsed the use of Automated Identification and Data Capture (AIDC) technology in the pharmaceutical sector.

We will continue to support the implementation of this technology.

Yours sincerely,

D. Douglas Cochran
Provincial Patient Safety Chair, B.C. Patient Safety Council



March 1, 2011

Mr. Ian Sheppard
Project Leader
Institute for Safe Medication Practices
4711 Yonge Street, 5th
Toronto, ON M2N 6K8

Dear Mr. Sheppard:

The B.C. Patient Safety & Quality Council supports the advancement of the use of Automated Identification and Data Capture (AIDC) technology in the pharmaceutical sector.

We therefore encourage you to actively support this technology.

Yours sincerely,

D. Douglas Cochran
Provincial Patient Safety Chair, B.C. Patient Safety Council



THE CANADIAN MEDICAL AND BIOLOGICAL ENGINEERING SOCIETY
LA SOCIÉTÉ CANADIENNE DE GÉNIE BIOMÉDICAL

The Use of Automated Identification and Data Capture (AIDC) Technology in the Pharmaceutical Sector

November 18, 2010.

Our Society endorses the use of Automated Identification and Data Capture (AIDC) technology in the pharmaceutical sector.

We therefore encourage you to actively support this technology.

Yours sincerely,

S.E.D. Shortt, MD, PhD, FCPSC
Director
Knowledge Transfer & Practice Policy

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Healthcare Insurance Reciprocal of Canada
4711 Yonge Street, Suite 1600, Toronto, Ontario M2N 6K8

From: The HIROC Connection - Issue # 26, FALL 2010

ISMP Canada Bar Coding Project
A HIROC Contribution Goes a Long Way

De Souza, Communications Associate

The Canadian Pharmaceutical Bar Coding Project is a joint effort aimed at increasing patient safety in Canada. A variety of stakeholders in the healthcare industry are collaborating to implement standardized bar coding on all aspects of pharmaceutical labeling.

It is important that we do not occur patient. By and safety and be realized. Institute for Safe Medication Practices (ISMP) and the Institute for Safe Medication Practices (ISMP) are collaborating to implement standardized bar coding on all aspects of pharmaceutical labeling.



September 28, 2010



OFFICE OF THE PRESIDENT
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www.ohia.on.ca

Canadian Society of Hospital Pharmacists
Société canadienne des pharmaciens d'hôpitaux



Health Council of Canada
Conseil canadien de la santé

March 8, 2010

Mr. David G.
President & Chief Executive Officer
Institute for Safe Medication Practices Canada
4711 Yonge Street
Suite 501
Toronto, ON M2N 6K8

Mr. Hugh Hired, J.D.
Chief Executive Officer
Canadian Patient Safety Institute
1620 101 Street
Suite 1414
Edmonton, AB T5A 3G4

Dear Mr. G. and Mr. Hired:

Congratulations on your launch of the pan-Canadian initiative for adoption and implementation of the Joint Technical Statement on Pharmaceutical Automated Identification and Product Description Requirements across all health care settings. This national initiative is of great interest to the Health Council of Canada as patient safety is an essential area of focus when monitoring the health care and health status of Canadians.

As you have noted, this initiative has the potential to serve as a significant risk management strategy within Canada for all parties involved in pharmaceutical manufacturing, distribution and administration. Implementation of various aspects of the initiative will require ongoing collaboration for the on-line, jurisdictional and systems in our health care systems. I would be interested to learn more about the needs of jurisdictions you have full authority to ensure fully understood what their implementation might be and the role of standards in the various settings. That being said, in terms of our formal support of the joint statement, we have publicly endorsed it in our Social Media and on our website (www.healthcouncil.ca).

I look forward to learning more about implementation strategies for this significant and important initiative.

Yours sincerely,

John Elliott
Chief Executive Officer



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in developing a pan-Canadian standard identification of global standard, which will also be improving the safety of the project, and in phase of the project, and in the Joint Technical Statement.

It is important that we do not occur patient. By and safety and be realized. Institute for Safe Medication Practices (ISMP) and the Institute for Safe Medication Practices (ISMP) are collaborating to implement standardized bar coding on all aspects of pharmaceutical labeling.

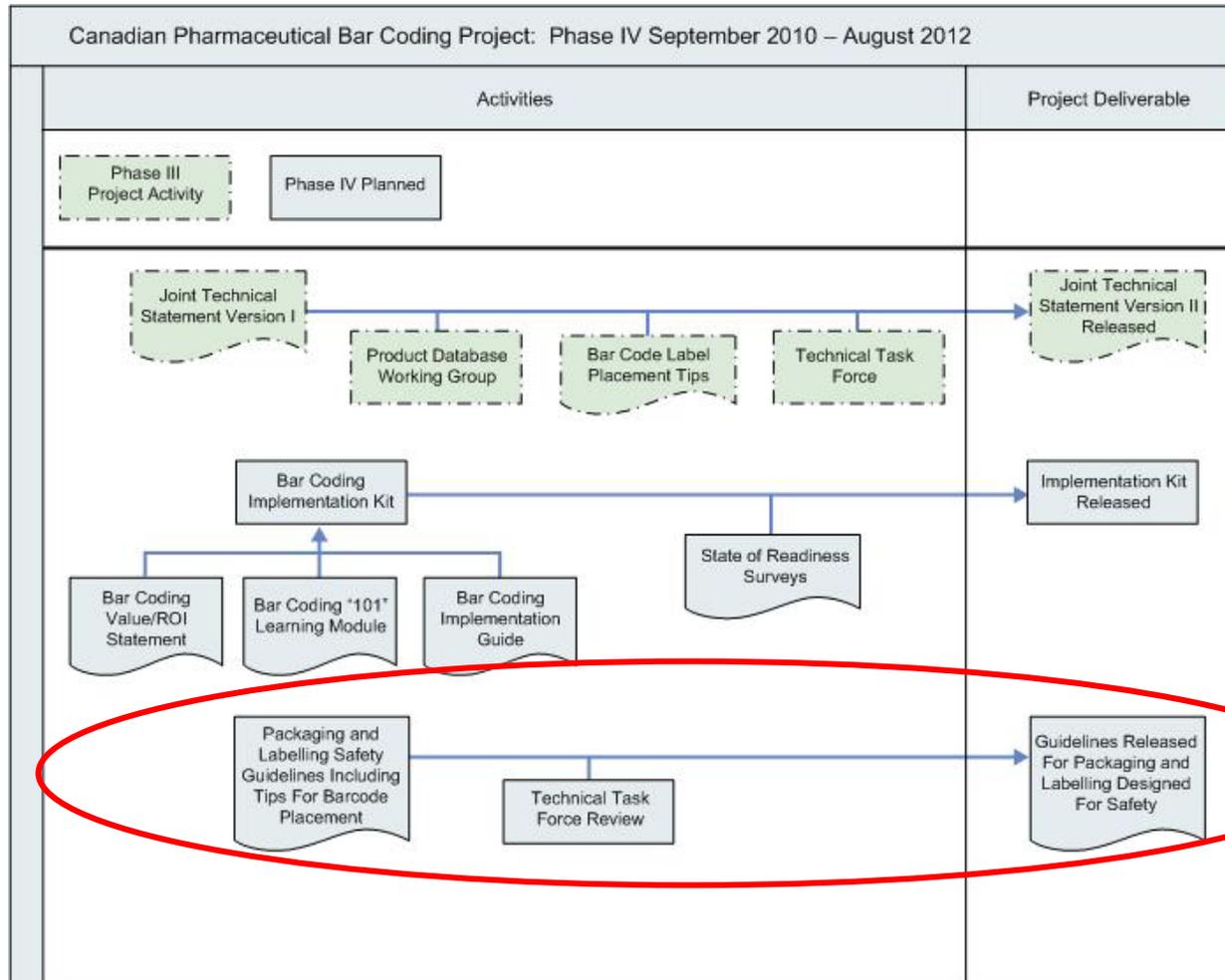
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2010 Terra Pharma: WayPaver Award (U.S.)




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Phase IV Stage: Package Label Guidelines





Thank You

