

Federal Committee on Geomatics and Earth Observations



The Federal Geospatial Platform

*Presentation to
ACZISC meeting #68 / COINAtlantic workshop
January 17, 2013*



Government
of Canada

Gouvernement
du Canada

Purpose

- To provide an overview of the Federal Geospatial Platform (FGP) initiative
- To gain an understanding of what is required from the departments and agencies to support transformation
- To recognize timelines and milestones in advancing the initiative to the next stage



The Federal Geospatial Platform Initiative is...

...a collaborative effort across 20 departments and agencies to fundamentally change the way we share, use and manage geospatial assets to support effective program delivery.



“Data is Canada’s new natural resource...”

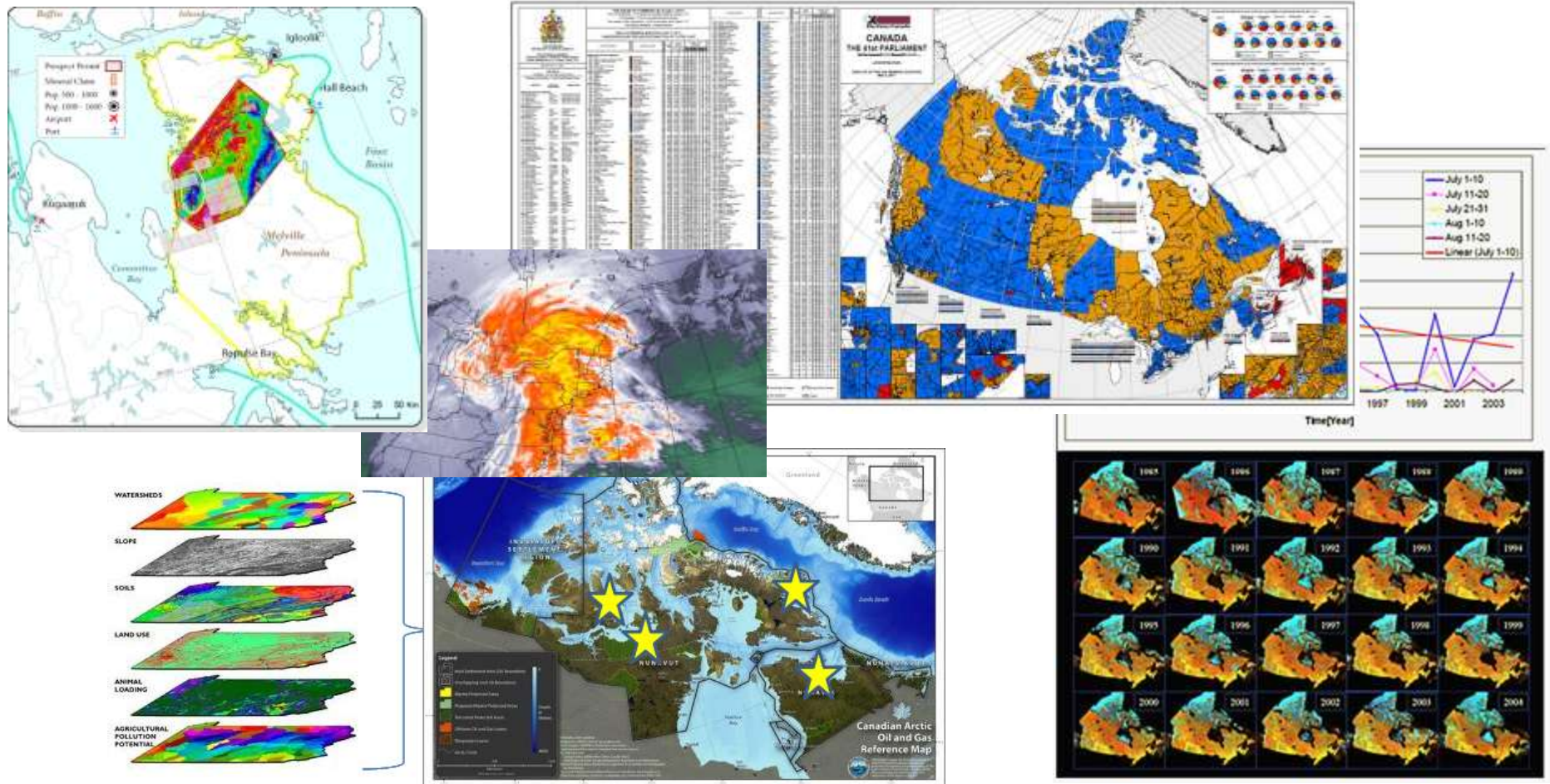
(Tony Clement, 2011)

- data and information are global currency in the 24/7 digital economy
- technology and sophisticated analytical techniques are increasing the value of data and information
- open data will underpin new waves of productivity and generate significant financial value and societal benefits
- creating transparency and making data readily accessible and re-usable will be the hallmark of successful governments

...and harnessing the government’s geospatial data will be essential to drive innovation and support decision-making



Geospatial data and tools are widely used in the federal government...



...to support broad national objectives such as economic growth, social cohesion and well-being, and environmental management



...but we are faced with many challenges in realizing the potential of one of our best assets...

- sharing, and integration of cross-disciplinary “trusted” data across the federal family is limited – technology, semantics, standards, and licensing barriers
- no existing inventory of federal geospatial data assets, and no way to identify data gaps and needs at the enterprise level
- acquisition and use of geospatial information, services, technology, and expertise by departments and agencies has not been well coordinated
- GEO evolves very quickly, within a tight fiscal context, aging infrastructure and public service demographic – innovation and efficiency required

The Growing Need...

- ❖ 94% of Respondents reported increasing demand for and use of geospatially related data to meet business requirements

Source: FCGEO Survey, May 2012

...and this requires horizontal transformation



To meet these challenges, FCGEO was established in January 2012...

- to provide proactive, whole-of-government leadership in geomatics and Earth observations to better support government priorities
- to collectively enhance the responsiveness, efficiency and sustainability of the federal geomatics and Earth observations infrastructure
- to improve access, sharing and integration of geospatial data at all levels (F/P/T and international)

The Federal Committee on Geomatics and Earth Observation (FCGEO)

AAFC	Industry
AANDC	NRCan
CFIA	Parks
CSA	Public Health
DFO-Coast Guard	Public Safety
DFO-Science	RCMP
DND	SSC
Elections	StatCan
Environment	TBS
Health	Transport

Priority Actions for 2012:

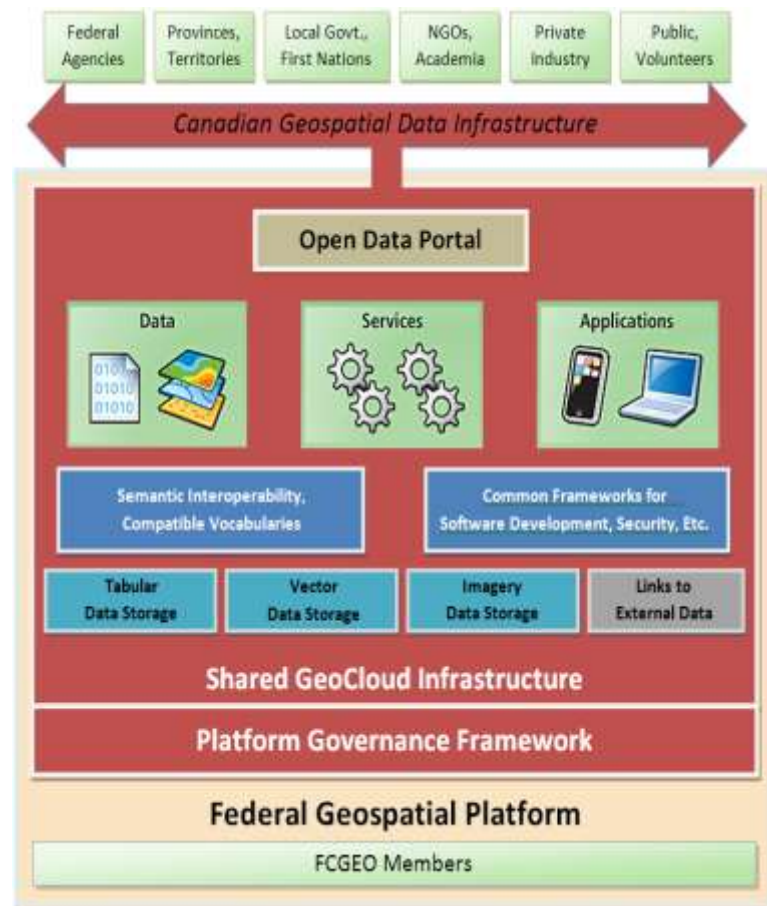
- ❖ Strategic Approach to International Engagement
- ❖ Business Case for a Federal Geospatial Platform (FGP)

...and launched the FGP initiative to realize the full potential of our geospatial assets



The Federal Geospatial Platform is an enterprise solution that would provide...

- Comprehensive collections of **authoritative data**
- Search, discovery, access, and visualization tools that are **built once and reused many times**
- Common web-based environment that enables **data integration, analysis, and visualization** to support informed decision-making
- **Shared governance and management** of geospatial assets and capabilities



...operational efficiencies, increased internal productivity, and improved services and value to Canadians

What would be the benefits of the Federal Geospatial Platform to Departments and Agencies?

- Ability to integrate multiple layers of authoritative, multidisciplinary geospatial and non-geospatial information to support decision-making for policy and program delivery
- Cost avoidance in geomatics and Earth observations by reducing duplicative efforts/investments through smart buys relating to data and technology
 - “*build once and reuse often*”
- Improved accountability related to Open Government Action Plan, GC IM Strategy, TBS Standard on Geospatial Data, and investments in geospatial capabilities
- Improved data quality and currency through lifecycle evaluations, relevancy to current GC priorities



How can my Department or Agency contribute to the success of the Federal Geospatial Platform?

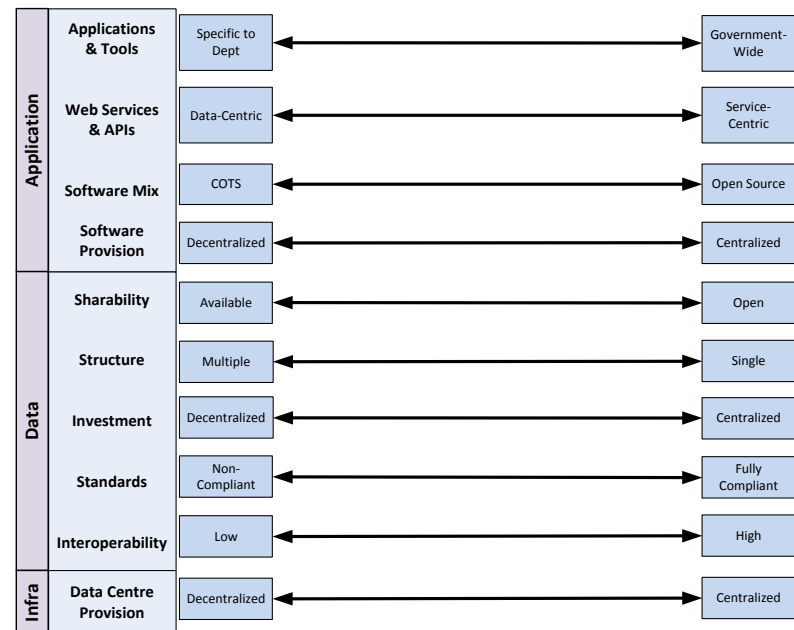
- Ensure FGP initiative is well communicated throughout your department or agency to support business transformation
- Align future geo-related initiatives and investments with the FGP
- Share and benefit from the FCGEO community's best practices and expertise to ensure the most efficient use of limited resources
- Contribute to establish the Platform's core capabilities:
 - Shared catalogue for data and metadata, registries
 - Search, discovery, access capabilities
 - Common web services and base map
 - Visualization and analytical applications
 - Authoritative data

Geospatial Platform Options Modelling Framework — Overview

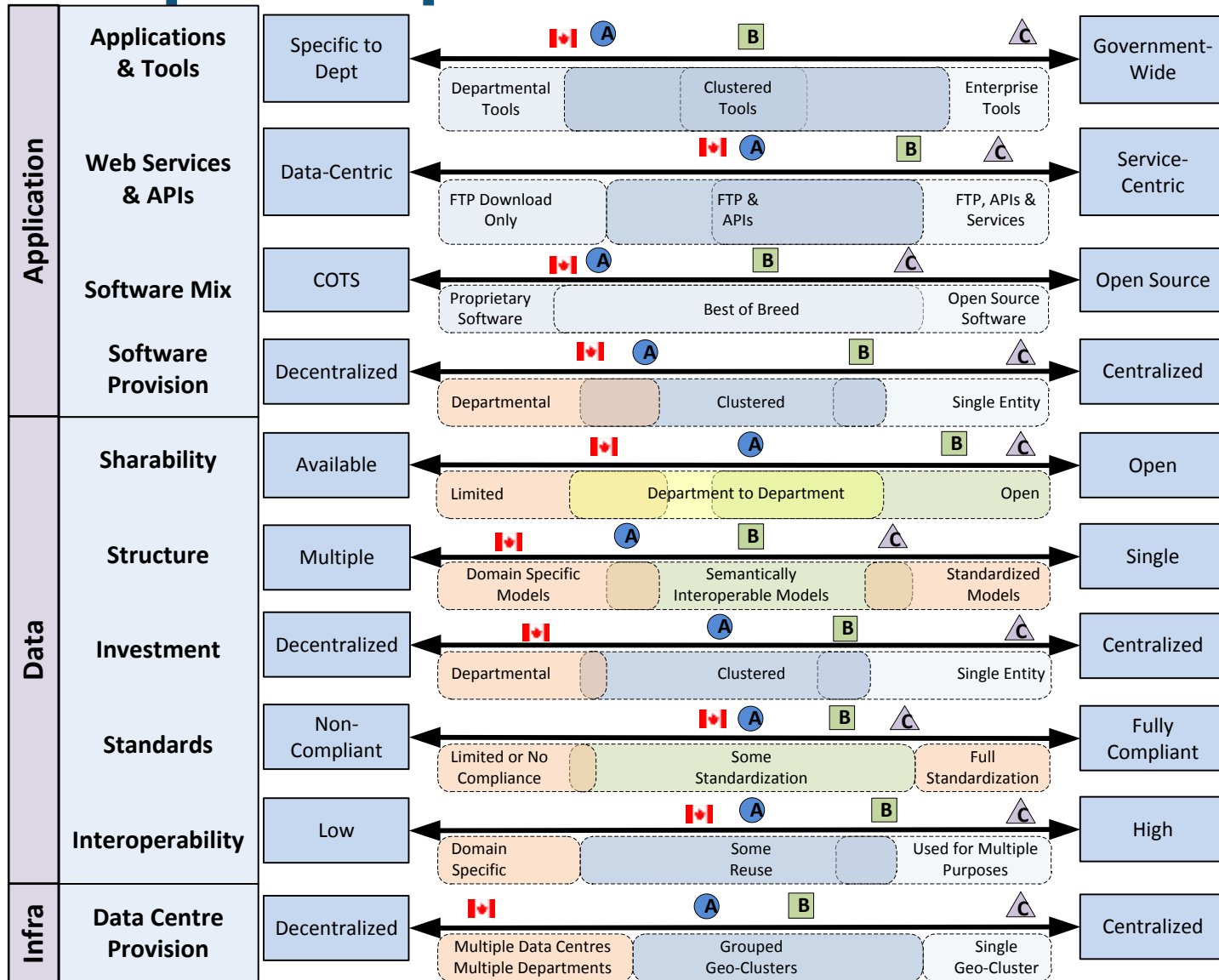
- Modelling framework for the Platform is made up of variables from enterprise architecture viewpoints
 - Some components will be fixed regardless of the option, e.g. public data is open, GC data standards are domain specified (ISO, NAP, OGC)

➤ There are 10 technical variables “sliders” divided into the 3 tiers

- Applications
- Data
- Infrastructure

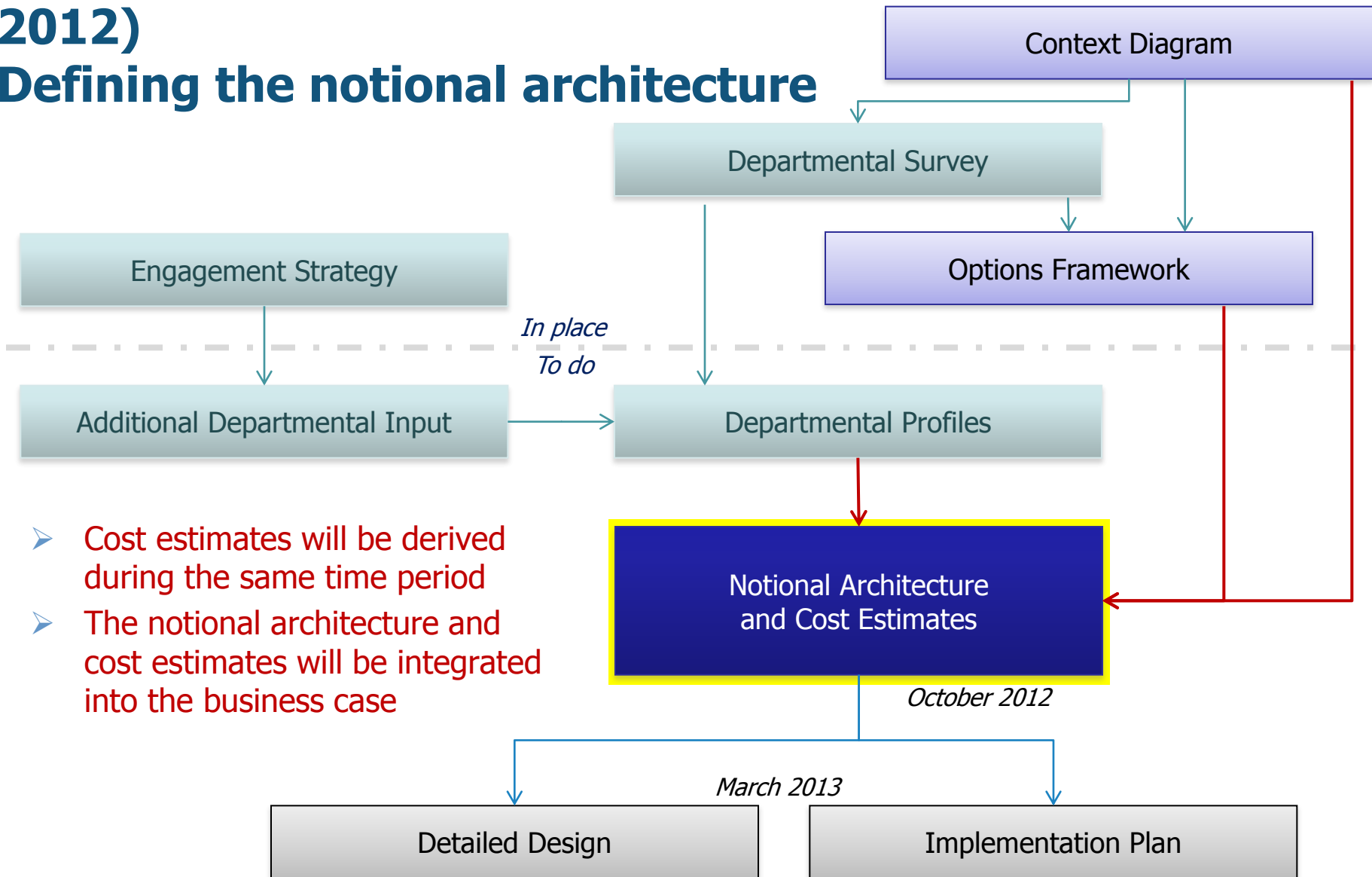


The Proposed Options:



Workshop 1 (August 28-29, 2012)

Defining the notional architecture



- Cost estimates will be derived during the same time period
- The notional architecture and cost estimates will be integrated into the business case

What are the timelines and next steps?

- **January – October 2012 - Launch of FCGEO FGP Initiative**
 - Jurisdictional review, departmental baseline survey, draft business case including notional architecture, implementation plan, 5 year cost/benefits model
 - ADM endorsement of draft business case, with direction to advance initiative to next phase
- **October – December 2012 – Advancement of FGP**
 - FCGEO-wide departmental engagement on readiness assessment and gap analysis
 - Briefing to senior horizontal committees, CIOC, S&T Integration Board, DM-MPMO
- **January – March 2013 – Development of Implementation Plan**
 - Co-investment resourcing strategy
 - Detailed platform architecture
 - Refined implementation plan

Additional Information

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