



# CBSA Enterprise Architecture Program: Valued Capability in the Making

## Digital Transformation in Government Conference

12 June 2019

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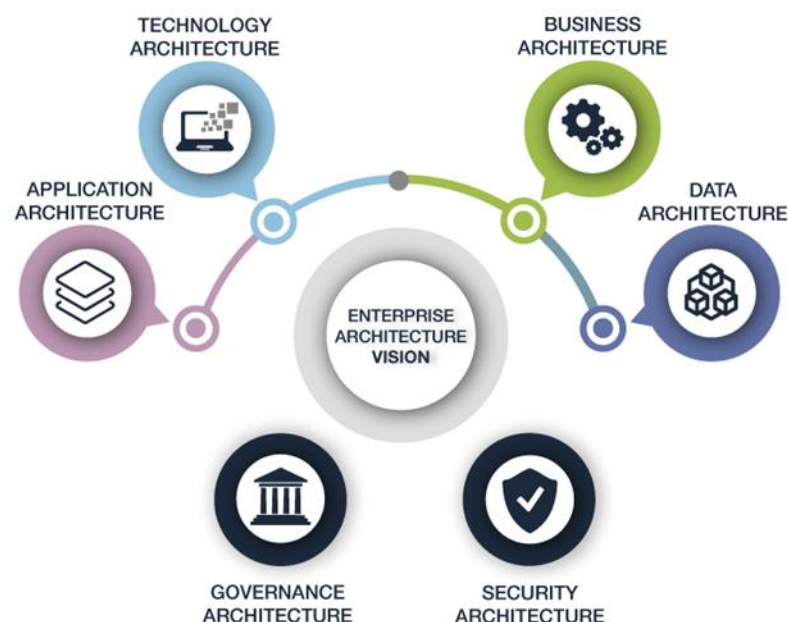


## A little bit of history...

- Practice born from complexity of IT systems
- Since 1970, we have looked at ways to engage the business people and influence IT investment
- In 1980, IBM created a method (Business Systems Planning) to analysis and design organization information architecture:
  - Better understanding of IT systems
  - Future state and migration path supporting the enterprise
  - Provide business executives with a direction and decision making framework for IT investments
  - IS blueprint for development
- In the 90s, Zachman, NIST, TOGAF (most popular as of 2013)
- In the 00s, US FEAF was adopted, TOGAF 8 was created

## The roots of EA within GC...

- Initially IT centricity
- When talking with most of GC organizations, EA equals “IT architecture only”
- Most of the GC EA Programs reside under their respective CIO
- Even at TBS, GC EARB is co-chaired by SSC and Chief Technology Officer (CTO) → IT centric
- Any TBS policy or directive touching EA are of IM/IT nature
- In most cases, EA is aspirational to business!



**From Gartner/CEB, EA needs to be business driven!**



## Enterprise Architecture Definition

- A discipline for proactively and systematically defining and aligning enterprise responses to change, and analyzing the existing enterprise architecture against the business vision.
- a concept that describes the structure and operation of an enterprise and how an organization can achieve its current and future objectives.
- the process of analyzing, designing, planning and implementing enterprise analysis to successfully execute on business strategies. cio.com

**In layman's terms:  
EA exists to support the  
organization transformational  
agenda**



# The CBSA EA Program Journey

## 2013



- Standalone Enterprise Architects  
Solution architecture function exists
- Two divisions (no program unification)
- Embryonic governance
- Standalone BA, no IA, SA or Privacy

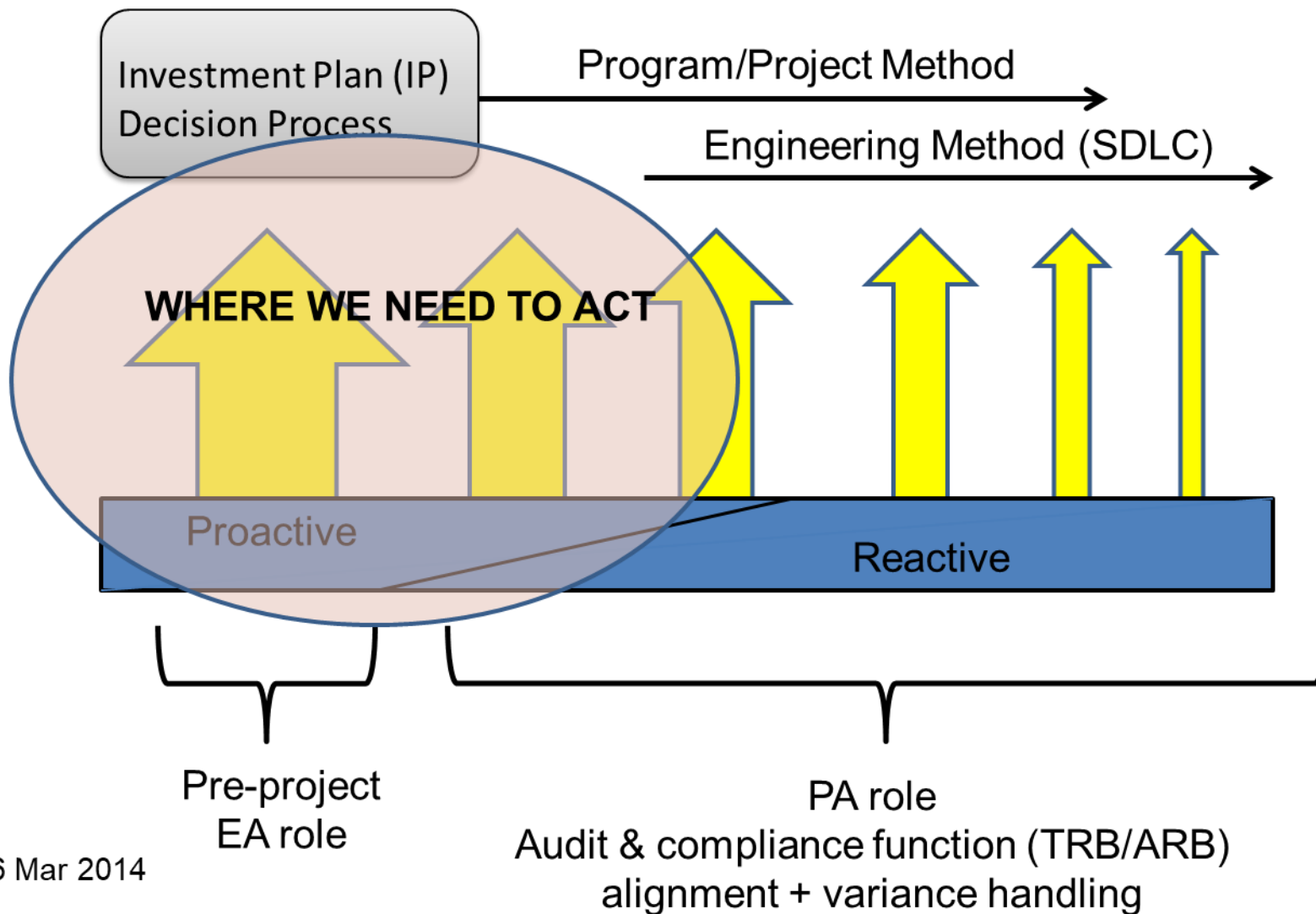
## 2014



- Initial focus on IT Enterprise Solutions  
(B2B, MDM, EDRMS, ERASS)
- Adhoc, no framework and IT centric charter
- PWC assessment against TOGAF CMM:  
EA @level 2 and PA @level3
- Disjointed approach between EA/PA



# Mar 2014 - EA Engagement Method



26 Mar 2014



# The CBSA EA Program Journey

## 2015



- ✓ SLMF (ITIL based) was created, followed shortly with Architecture Management Method. Now we had an IT governance framework!
- ✓ Unification occurred (one division) and BIATSP was adopted as domains
- Added more EBBs (ePortal, CM, SOA, ERE, CIAM, RDM, EDA, e-mail, etc)
- Huge efforts on Travelers business architecture using Leading Practice (did not pursue it)
- ✓ EA RA conceptual model developed (see next slides)

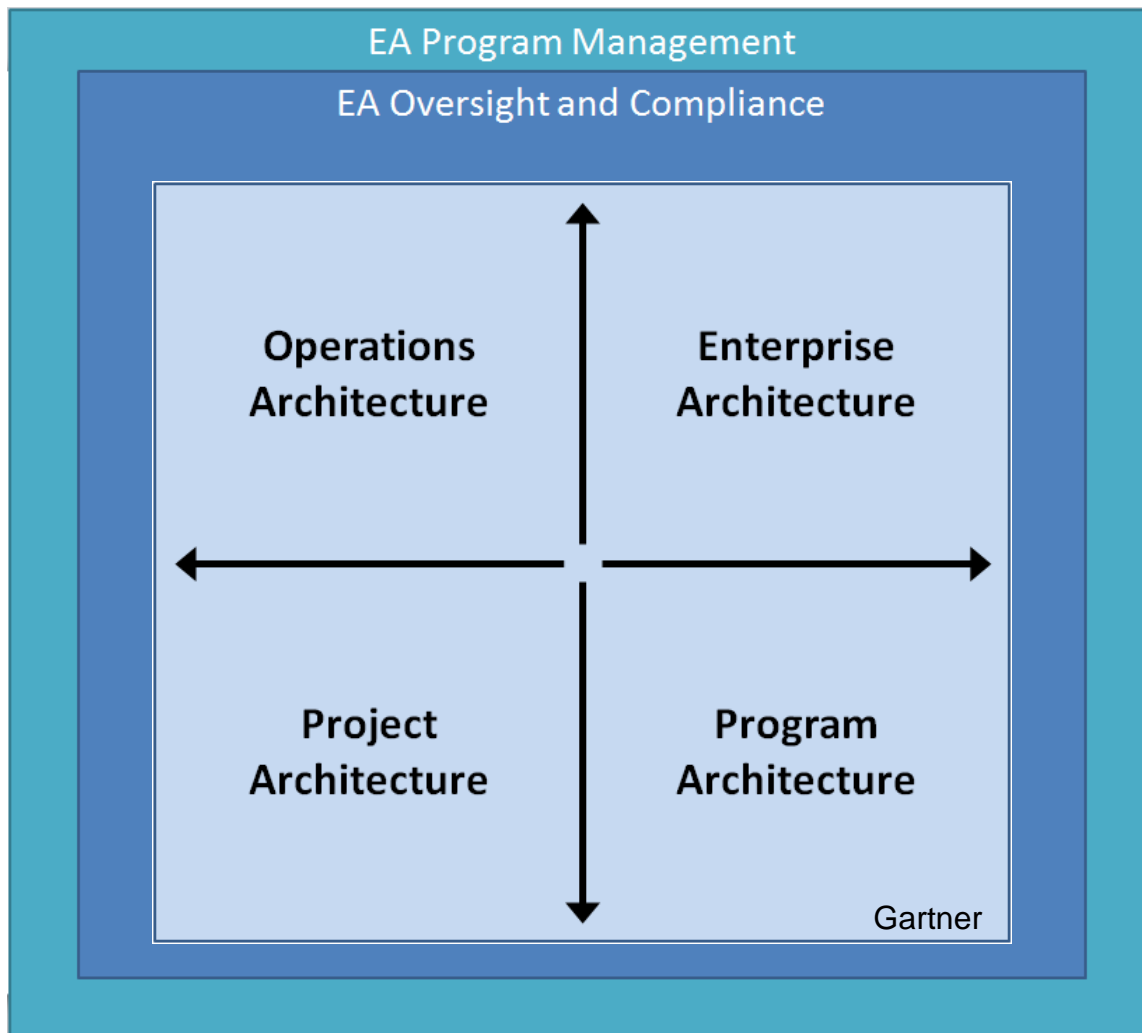
## 2016



- ✓ A-base model
- ✓ GC Qualiware RFP
- ✓ Involvement at GC level (GC EAWG, CDI, CDXP, TDIC, Interoperability, etc). Excellent opportunity to network and advance your own Dept agenda
- EA scope and functions further developed (next slides)
- ✓ Stewardship of APM
- ✓ Creation of OGDA Division: trigger for the EIA: BDM, governance by business, etc
- ✓ Launch development of Security and Privacy architecture domains



# Functions of the CBSA EA Program



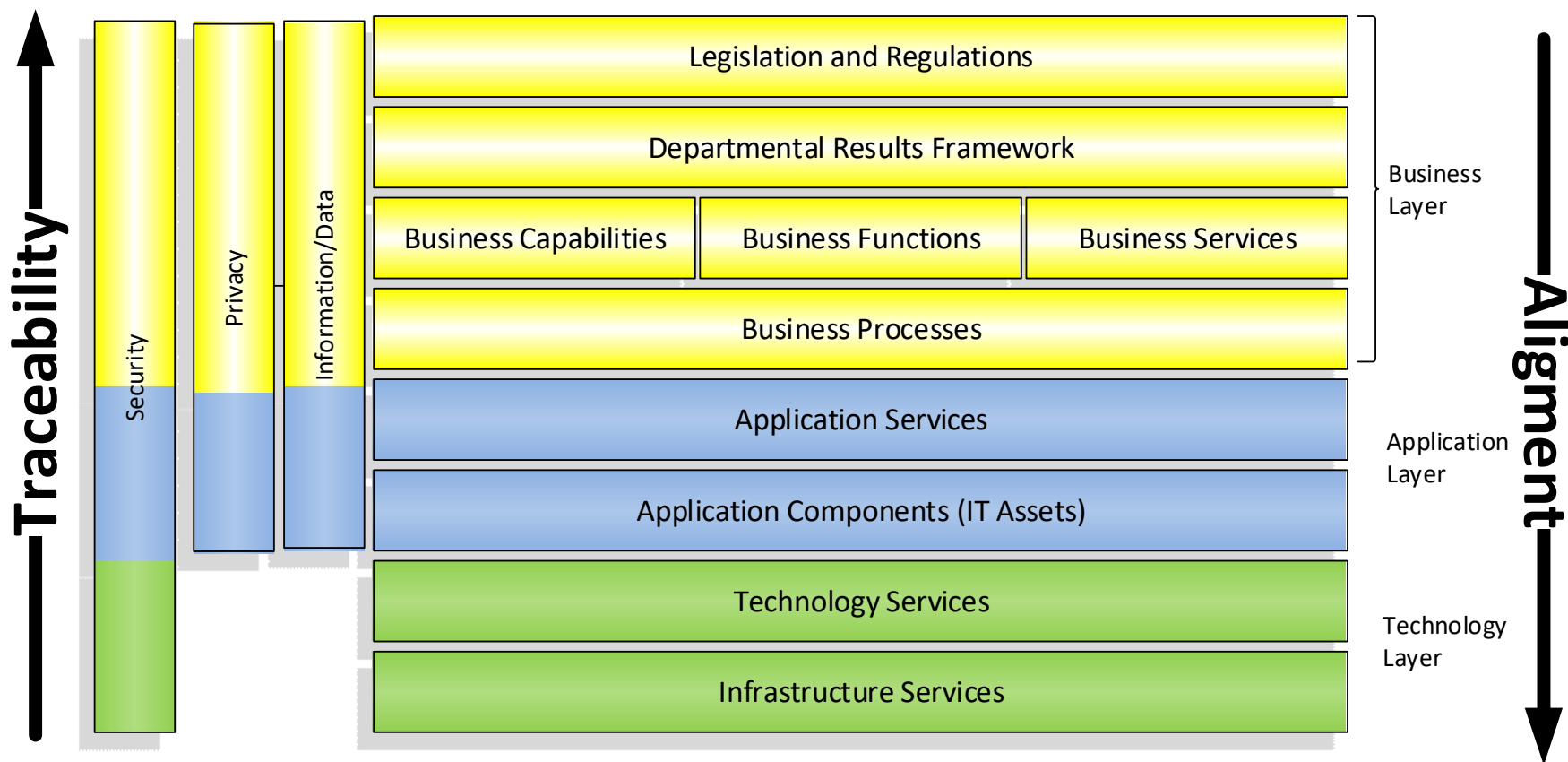
The EA Division functions:

- Business architecture
- Strategies (IATSP)
- O&C
- Progr Mgmt





# Conceptual CBSA Reference Architecture Model





# The CBSA EA Program Journey

## 2017



- Initiated development of a common service catalog (SMS, APM, Business Continuity, SSC critical system)
- GC white paper development (blockchain, AI, etc) and GC cloud RA
- Strengthen relationship with DSO and ATIP

- EA Metamodel framework developed and implemented in Qualiware (how all domains interact)
- CBSA RA created in Qualiware
- Support of major projects on all EA domains (CARM, PPP, TPM, etc)

## 2018



- Led effort to develop a GC zoning and network reference architecture (CSEC, TBS, SSC, CBSA)
- Defacto involvement for all GC EARB artefacts
- First time that the business deliberately engage EA for business architecture (I&E)



# The CBSA EA Program Journey

## 2019



- Service out the CBSA RA hosted in Qualiware
- Activity code switched from IT to Corporate planning
- Stakeholders engagement year: SPB, CTO, FCMB, ISTB, Operational Branches
- More strategic planning tasks
- EA Internal Audit
- CoE for Business Process Management (BPMN 2.0)
- Privacy framework
- Finish development of EA Program key docs

## Future



- Strategic Enterprise Planning
- Agency-wide architecture collaboration (all practice it)
- ACP becomes the corporate MDM for organizational data
- Integrate financial and HR views in ACP
- Application rationalization (based on business processes/apps service discovery)
- Support any transformational initiative (Migration to cloud, AI integration, etc)
- Support of PIA and security assessment in ACP



- The Architecture Collaboration Platform is the culmination point:
  - make the info owners manage their info!
- Build it, they will come!
- Be relevant: don't try to boil the ocean, just deliver value to stakeholders
- Business architects should come from the business
- Get involved at GC level and with your partners
- Investment needed: CBSA has always believed and invested in architecture practice
- A-base vs B-base
- Summer students could be of big help!



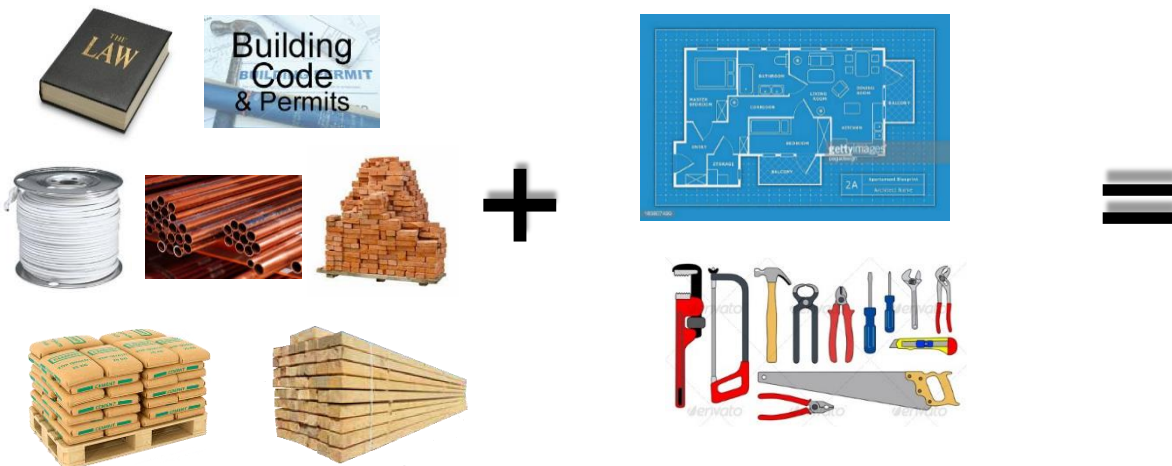
- More abstract in early stages
- Enterprise level guidance (horizontality in mind) but reaching executive Program endorsement through grassroots successes (value)
- Advocacy for innovation is not easy
- Need the right skillset at the right place (i.e. business architect should come from business)
- Communications and soft skills in demand!



# DEMO



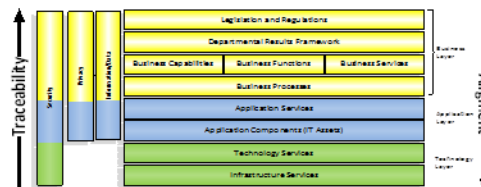
# Architecture basics



- Initial construction
- Maintenance
- Transformation

CBSA

Reference Architecture



+ Enterprise Architecture Practice =

**Architecture Collaboration Platform (Qualiware)**



- Operation
- Maintenance
- Transformation



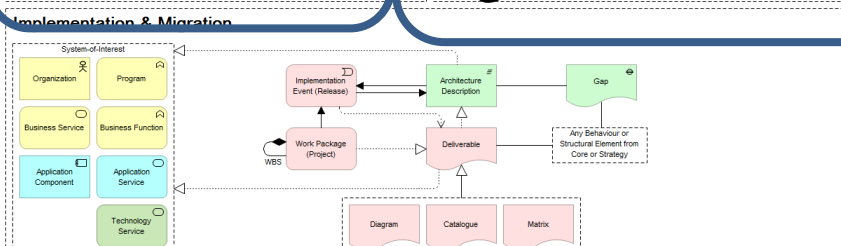
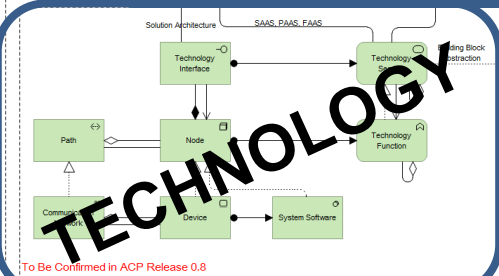
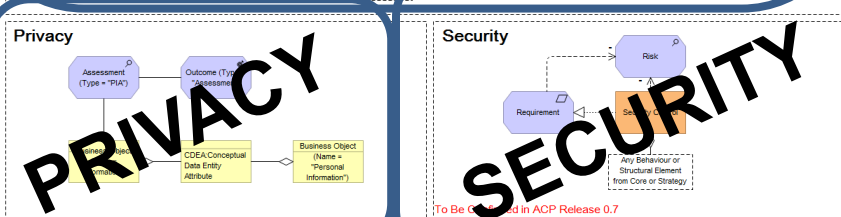
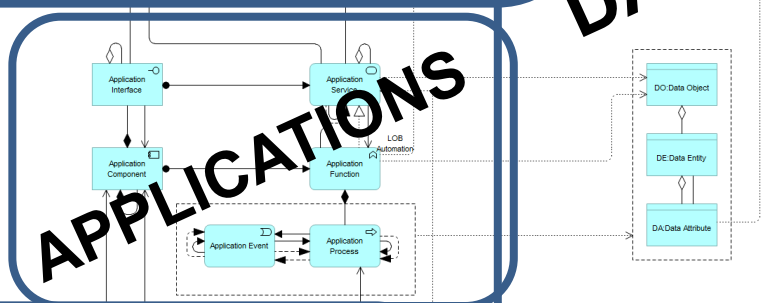
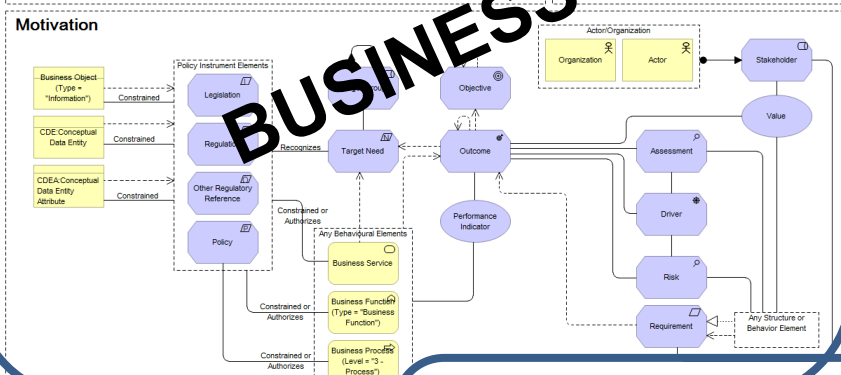
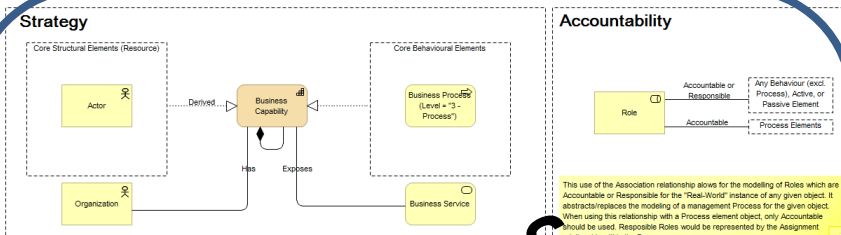
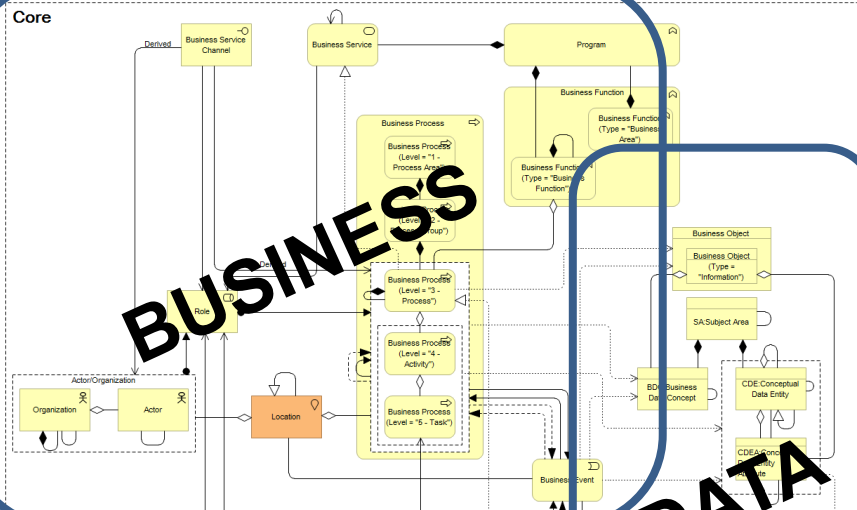
# Overall benefits

- ONE blueprint representing CBSA
- ONE common understanding of how CBSA is constructed
- Common taxonomy and semantic defining all CBSA business areas
- Re-usability of architecture concepts for transformation and projects activities to reduce overhead
- Closing the gap between business and IT
- Enable traceability and alignment of current and transformational business activities, including those coming from TBS
- Knowledge-based impact analysis for business transformation
- Supports CBSA transformation agenda (baseline and future state)
- Provide for alignment and linkage with GC initiatives and emerging trends





# CBSA Architecture Content Metamodel



To Be Confirmed in ACP Release 0.8



# CBSA Reference Architecture Content

- Linked content includes:
  - All of CBSA legislations and regulations (90+)
    - 200+ references (D-Memos, Lookout Policy, etc.)
  - DRF and its 17 Program areas
  - 102 CBSA Services found in integrated service catalog
  - 450+ business processes being validated
  - 178 national level applications with corresponding details
  - Integration of Business Data Model, IM and data analytics
  - GC Security safeguard catalogue