



Government of Canada Enterprise Architecture Review Board (GC EARB)

Pan-Canadian Trust Framework Update
(May 2, 2019)

<https://canada-ca.github.io/PCTF-CCP/>

Presentation for:	EARB Appearance:	Contact Information:
<input type="checkbox"/> Information	<input type="checkbox"/> Follow-up	Presenter(s): <ul style="list-style-type: none">• Tim Bouma• Ken McMillan• Imraan Bashir

What is a Trusted Digital Identity?

What is it?

Trusted digital identity is an electronic equivalent of who you are as a real person, used exclusively by you, to receive valued services and to carry out transactions with trust and confidence.

Trusted Digital Identity confirms that 'you are who you say you are' in an online context.



Why does it matter?

Digital Identity is the foundation to moving more services online, where our citizens expect to be.

Digital ID Vision

Target State User Experience for Canadians



1. Any ID partner

Federal, provincial government departments, banks.



2. Any device

Smart phones, TVs, cars, personal AI assistants etc.



3. Any platform

GM, LinkedIn, Expedia etc.



4. Any service

Passport renewal, filing taxes, collecting social benefits etc.



Canadians can sign in once using their trusted digital identity, instantly accessing GC services across GC departments on any device



Trusted digital identity will enable one-time identity-proofing (tell us once), streamlining government processes, creating a better user experience



The digital identity ecosystem can be leveraged by any partner, such as other GC departments, provinces, banks, etc. to validate/verify client identities

What is the Pan-Canadian Trust Framework?

Trusted Digital Identity



Identity Assurance



Is it a real existing person?

Credential Assurance



Is it the same person?

Informed Consent



Has the user given consent?

Pan-Canadian Trusted Supporting Infrastructure

Security, Privacy, User Experience, Communications

The Pan-Canadian Trust Framework is a set of standards and specifications to ensure that all jurisdictions abide by a common, agreed-upon set of rules to trust and accept each other's digital identities.

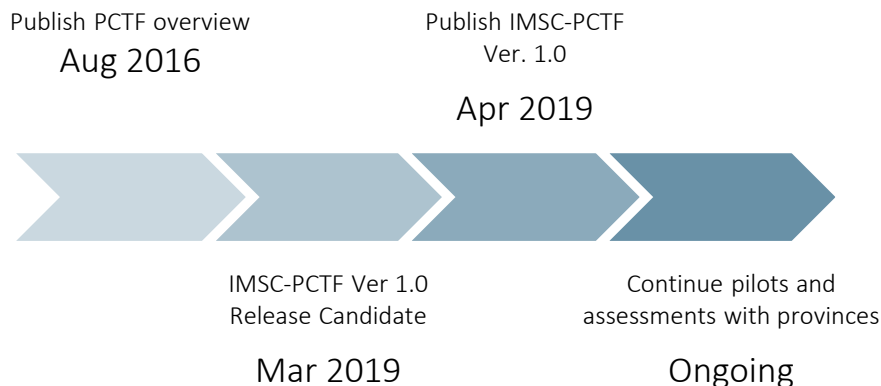


PCTF synopsis

Background

- The Pan-Canadian Trust Framework (PCTF) tactically implements the Whitehorse Declaration. An initial draft of the PCTF was published in 2016.
- The PCTF is a set of standards and specifications to ensure that all jurisdictions abide by a common, agreed-upon set of rules to trust and accept each other's digital identities.
- It will standardize how we create, issue, and accept trusted digital identities between jurisdictions and across different sectors within Canada and internationally.
- Currently, TBS and ESDC are jointly leading a pilot in collaboration with the Province of Alberta, which involves the federal acceptance of a provincial Trusted Digital Identity in accordance with the PCTF. The anticipated date for this pilot launch is March 2019.
- The draft PCTF continues to be refined and validated with such pilots, proofs-of-concept, as well as production service launches.

Timelines



Approach to Trusted Digital Identity

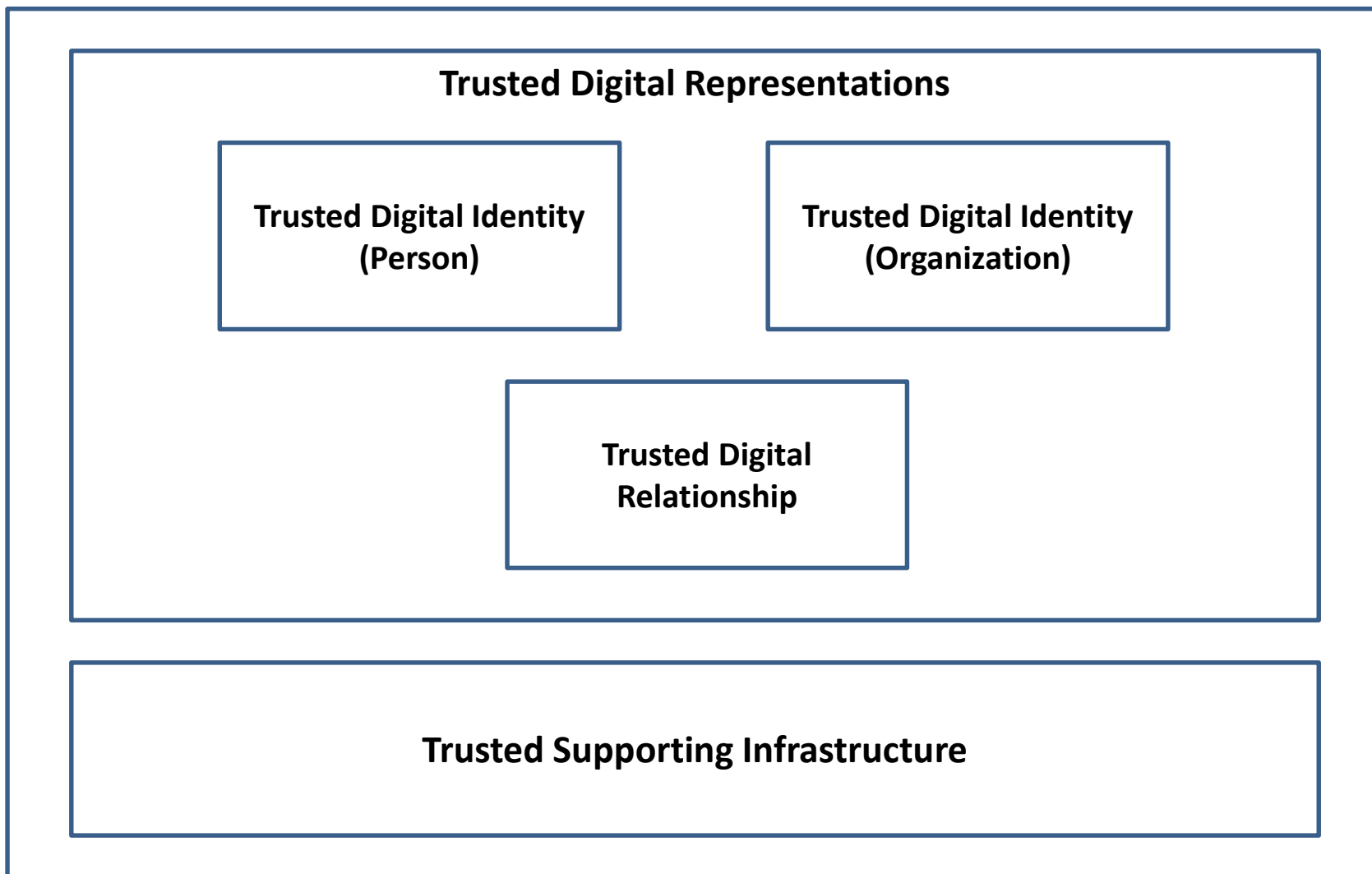


The GC vision is to build a federated, digital identity ecosystem where trusted digital identities are used to deliver GC services in a seamless manner on any platform, with any partner, on any device.

Characteristics of the PCTF

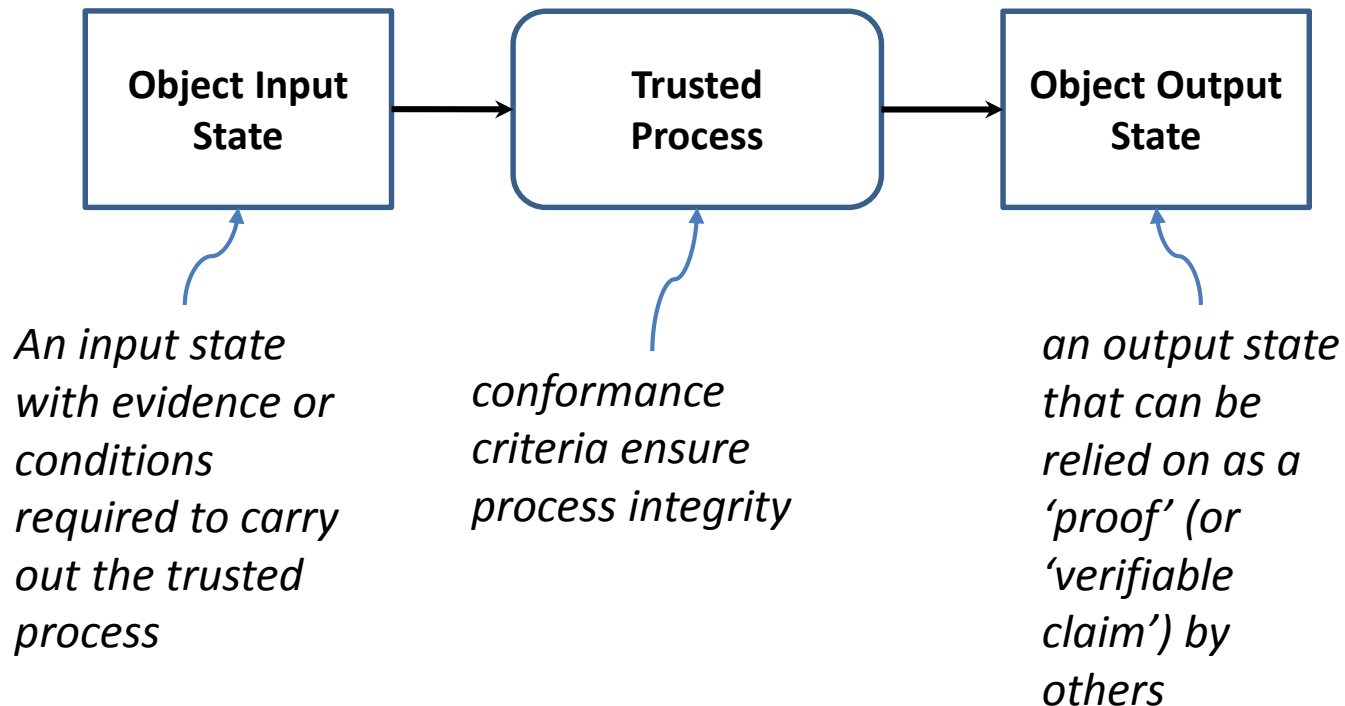
- 1. A simple and integrative framework** that is easy to understand yet capable of being applied in a complex environment
- 2. Technology-agnostic:** provides flexibility and logical precision in assessing the trustworthiness of digital identity solutions and digital identity providers
- 3. Complements existing frameworks** (security, privacy, service delivery, etc.)
- 4. Provides clear links to applicable policy, regulation, and legislation** by defining conformance criteria that can be easily mapped
- 5. Normalizes (standardizes) key processes and capabilities** to enable cross-sector collaboration and ecosystem development

Pan-Canadian Trust Framework Model



Trusted Process Model

A trusted process is an activity (or set of activities) that results in the state transition of an object; the object's output state can be relied on by other trusted processes.

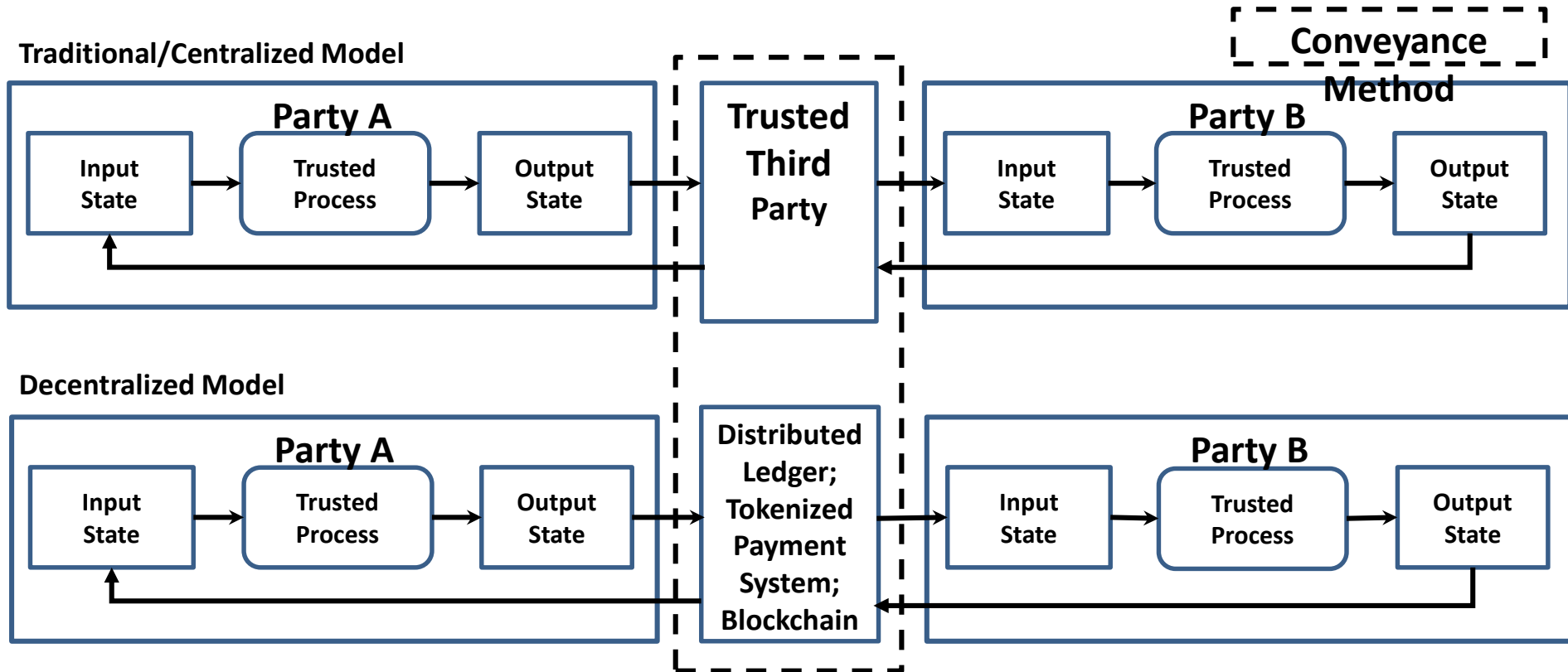


*Formalizing (and standardizing) the **trusted processes**, the **input states**, the **output states**, and the **conformance criteria**, is the essence of defining the trust framework!*

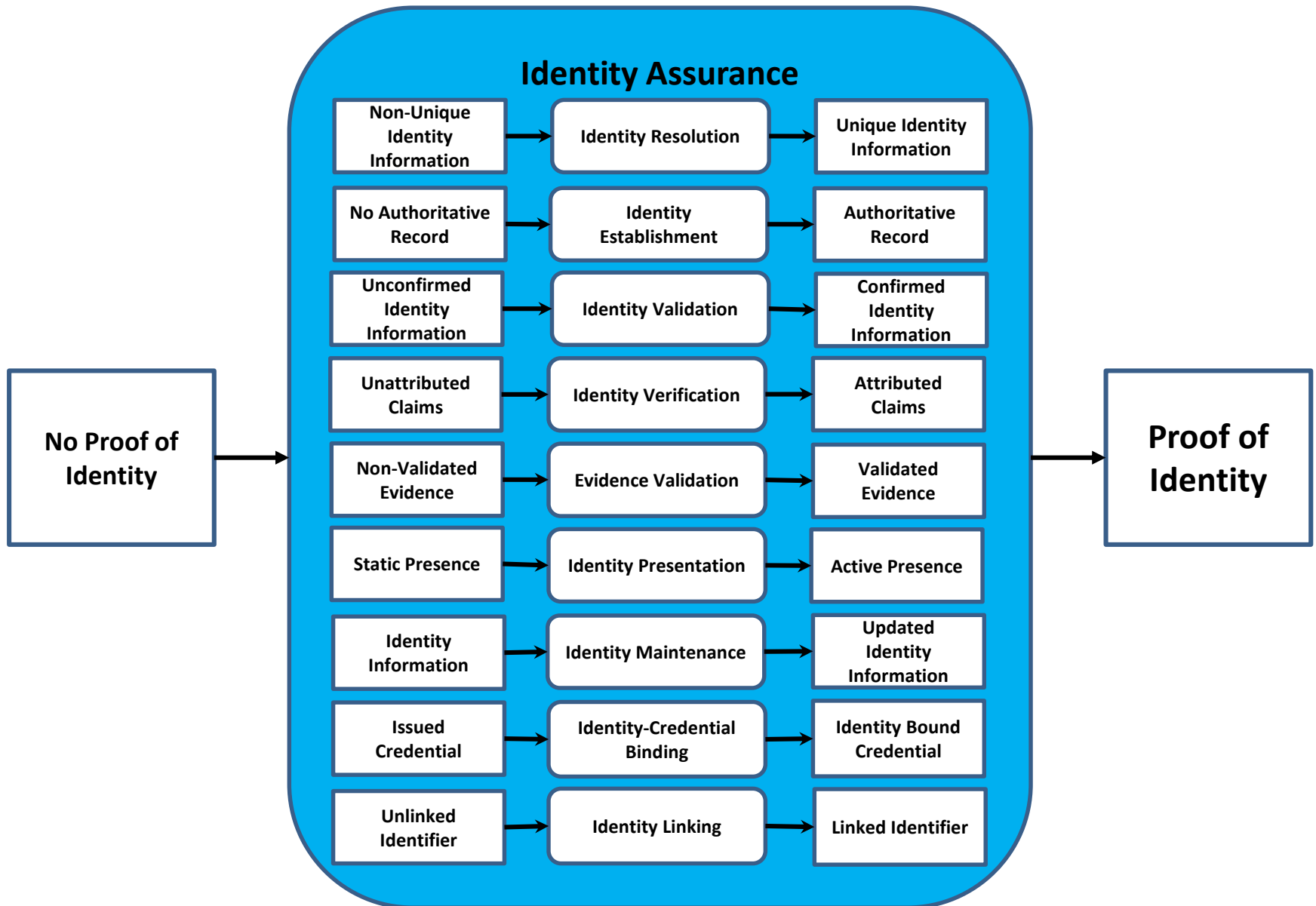
Trusted Process Proofs and Conveyance

*Trusted process inputs and outputs (i.e., proofs) are **independent** of the conveyance model.*

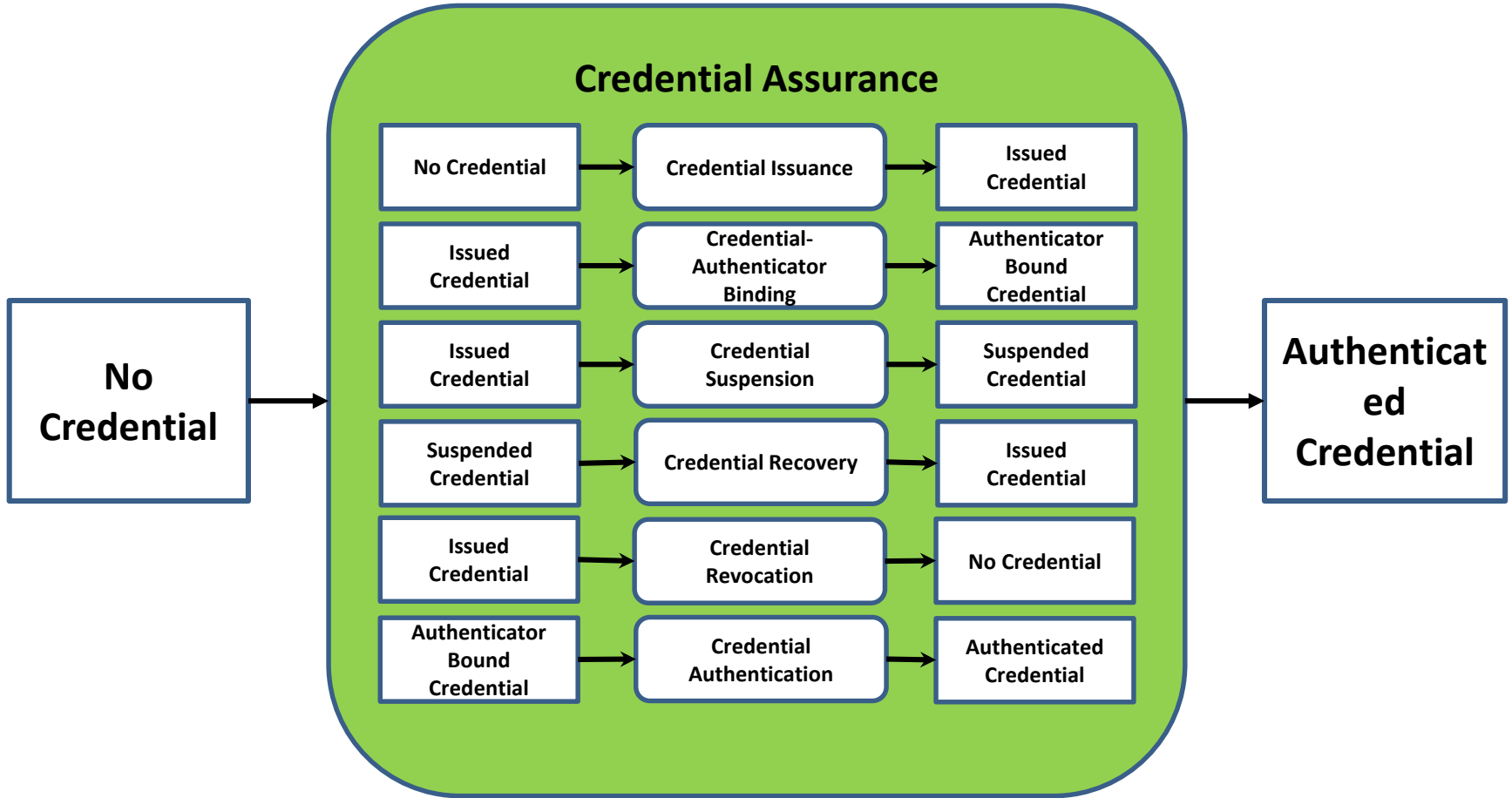
Conveying Proofs between Parties



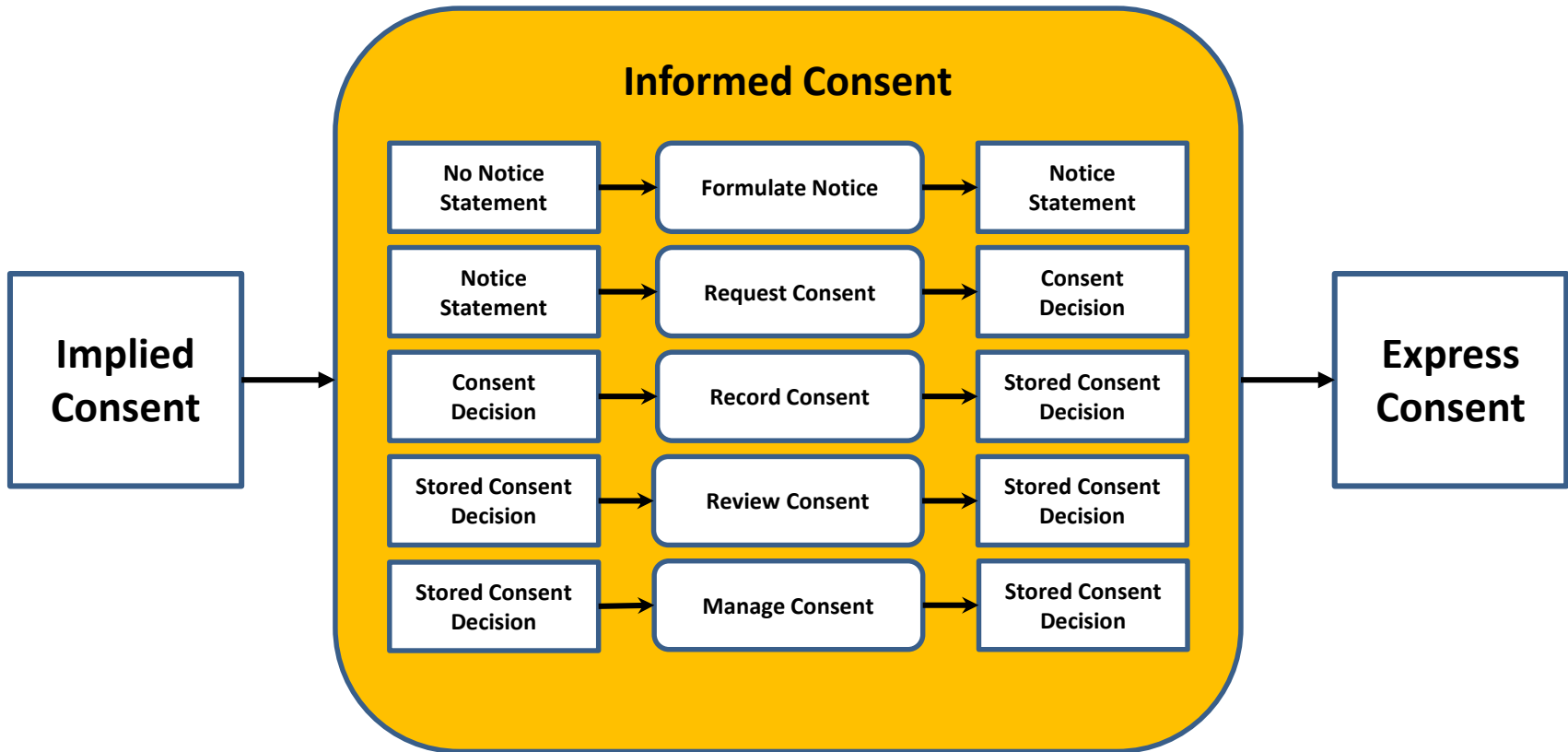
Compound Trusted Process: *Identity Assurance*



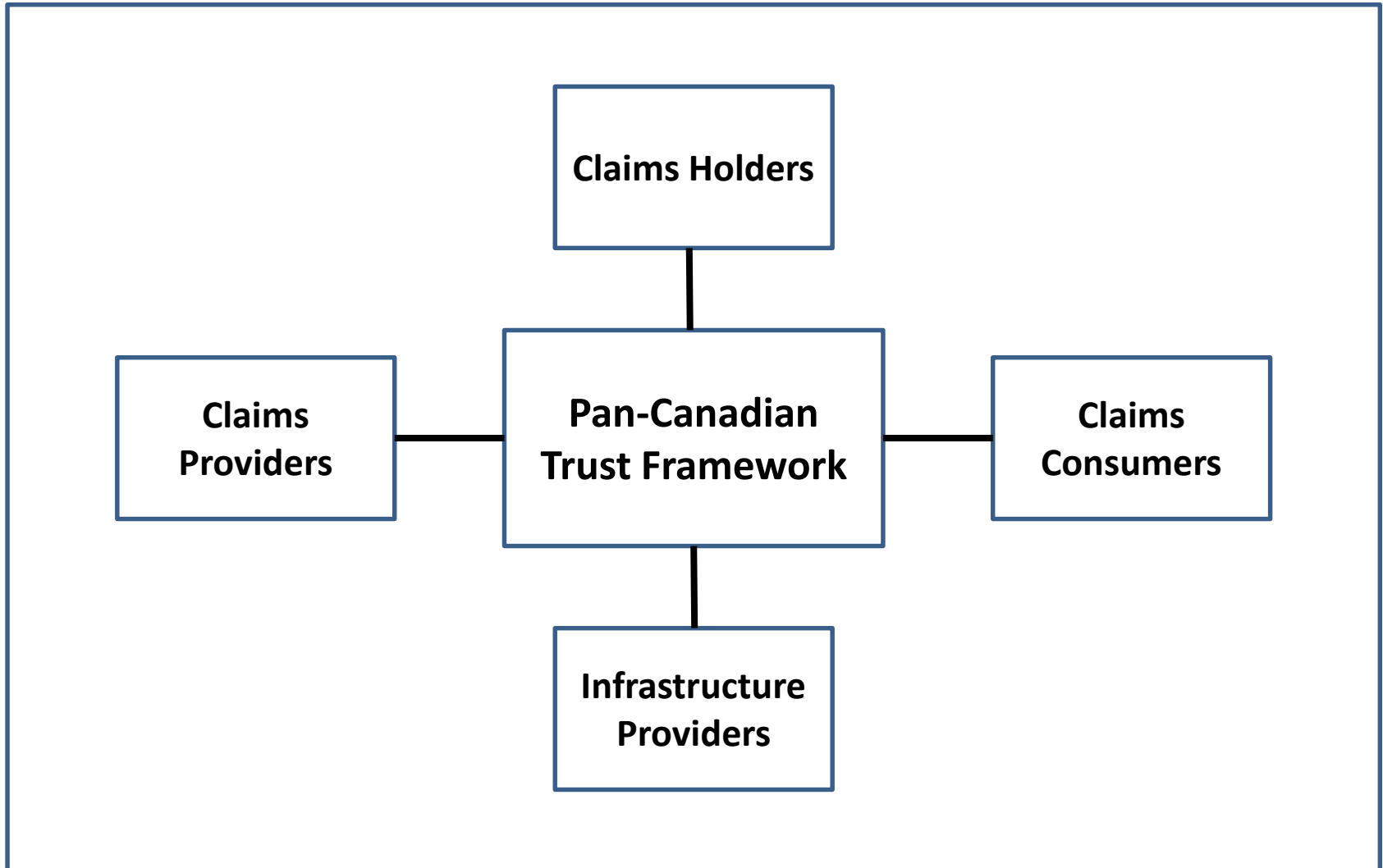
Compound Trusted Process: *Credential Assurance*



Compound Trusted Process: *Informed Consent*



Canadian Digital Ecosystem Roles

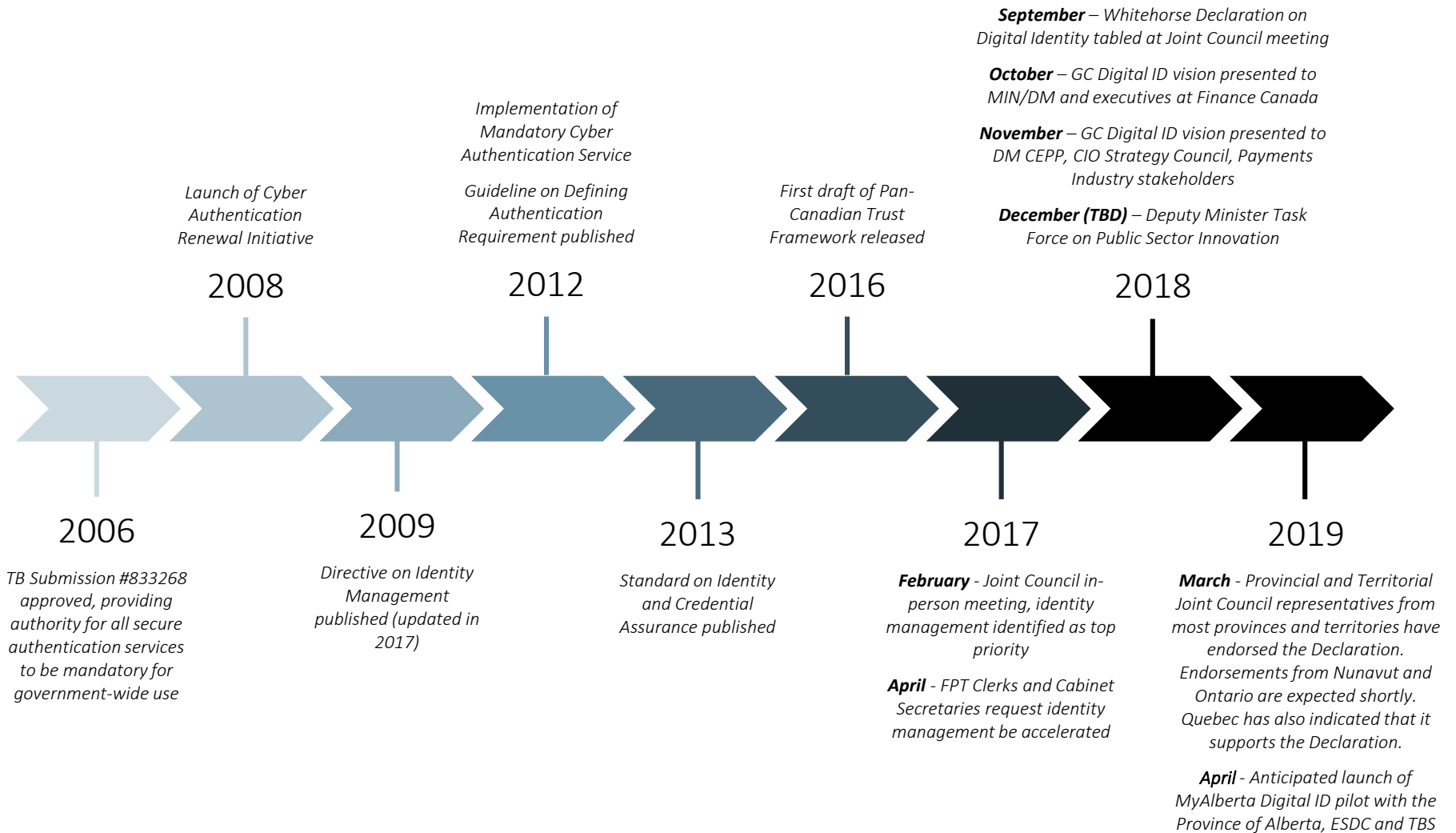


Trusted Processes can be carried out by multiple parties

(e.g., a Provincial/Territorial Trusted Digital Identity being consumed by a Federal service)

No.	Trusted Process	LOA	Trusted Digital Identity (TDI) Provider	Relying Party (as a TDI Consumer)
1	Identity Resolution	...	Province/Territory	Federal service
2	Identity Establishment	3	Province/Territory	Federal service
3	Identity Validation	3	Province/Territory	
4	Identity Verification	3	Province/Territory	
5	Evidence Validation	3	Province/Territory	
6	Identity Presentation	...	Province/Territory	
7	Identity Maintenance	3	Province/Territory	
8	Identity-Credential Binding	...	Province/Territory	
9	Identity Linking	...		Federal service
10	Credential Issuance	2	Province/Territory	
11	Credential-Authenticator Binding	2	Province/Territory	
12	Credential Suspension	2	Province/Territory	
13	Credential Recovery	2	Province/Territory	
14	Credential Revocation	2	Province/Territory	
15	Credential Authentication	2	Province/Territory	
16	Formulate Notice	...	Province/Territory	Federal service
17	Request Consent	...	Province/Territory	Federal service
18	Record Consent	...	Province/Territory	Federal service
19	Review Consent	...	Province/Territory	Federal service
20	Manage Consent	...	Province/Territory	Federal service
21	Signature	...		Federal service

Digital Identity Work to Date



Government of Canada Digital Standards

A Set of Guiding Principles



Design with users



Iterate and improve frequently



Work in the open by default



Use open standards and solutions



Address security and privacy risks



Build in accessibility from the start



Empower staff to deliver better services



Be good data stewards



Design ethical services



Collaborate widely