QDIS Program / Programme SQIN

Quebec Digital Identity Service / Service Québécois d'Identité Numérique

Shared courtesy of Gouvernment of Quebec

June 1st, 2020

Sous-secrétariat de la dirigeante principale de l'information
et de la transformation numérique

Treasury Board Quebec

Québec 🇶🇨

QDIS Program

An essential and innovative foundation for the government's digital transformation which will bring the citizen in the digital age.

By providing a trusted digital identity

By simplifying the ecosystem and the government's digital services usage

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QDIS Program
Goals

Simplify the procedures for citizens
and optimize their experience in the digital age

Establish a structuring base
on which the ecosystem will be able to build innovative digital services, easy to use and secure

Improve the efficiency of the public system
in the management of identity's information

Reduce the risk of identity fraud
by increasing the robustness of the processes and supporting documents, thus promoting the use of digital services in a trusted environment
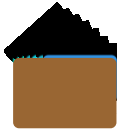
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QDIS Program

Current situation

Physical supporting documents must be provided
in person, by fax, scanned or transmitted online

Too much (not needed) personal information
Is disclosed by being present on supporting documents

A physical wallet cannot contain all the evidence
used to certify an identity, a right, a privilege or a status

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QDIS Program
Current situation

The same information must be provided several times
as part of a life event

A handwritten signature is sometimes required in order to consent
the information to be collected, communicated or recorded

A delay may be necessary before receiving the evidence
which attests to a right, a privilege or a status

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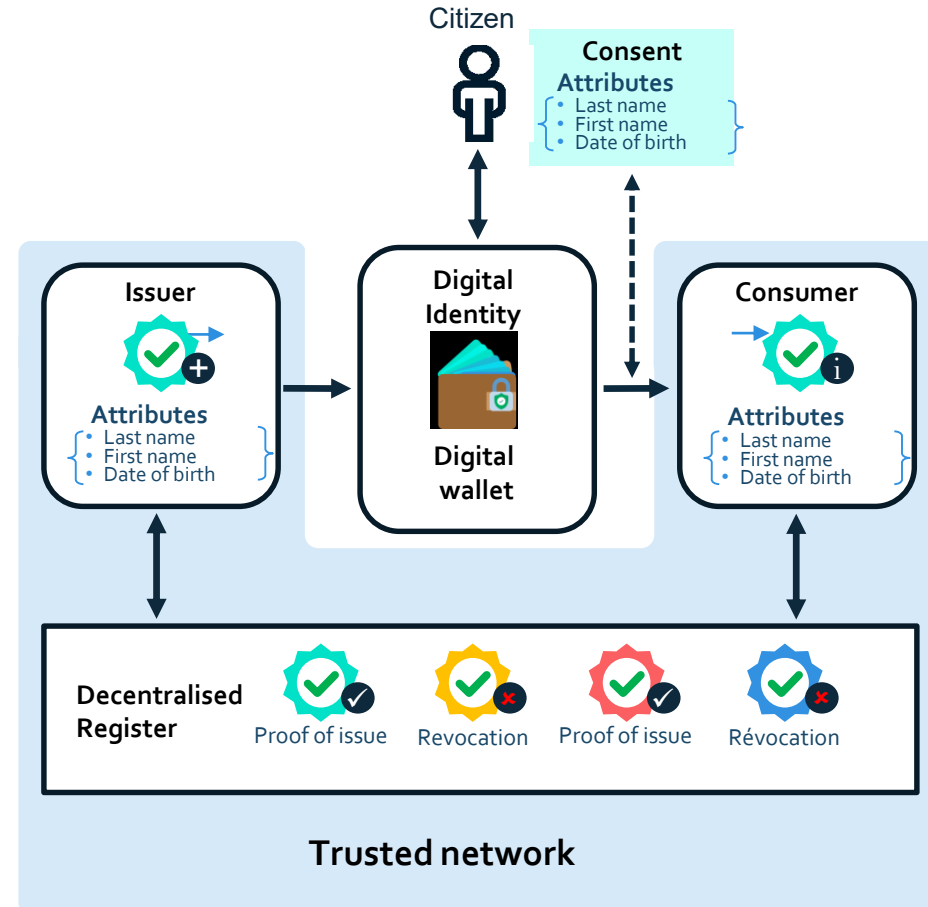
Digital Identity Governance

Key Concepts

Quebec's government has a unique and essential role to play.

It must allow citizens to use their digital identity securely by establishing a trusted network:

- In which all stakeholders interact in accordance with established rules

Citizen

Consent
Attributes
- Last name
- First name
- Date of birth

Issuer
Attributes
- Last name
- First name
- Date of birth

Digital Identity

Digital wallet

Consumer
Attributes
- Last name
- First name
- Date of birth

Decentralised Register

Proof of issue   Revocation   Proof of issue   Révocation

Trusted network

Key Concepts

Digital Identity

Digital Certificate

Digital Wallet

Identity Authentication & Verification

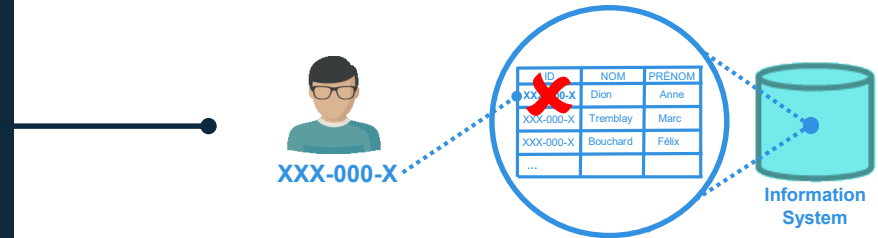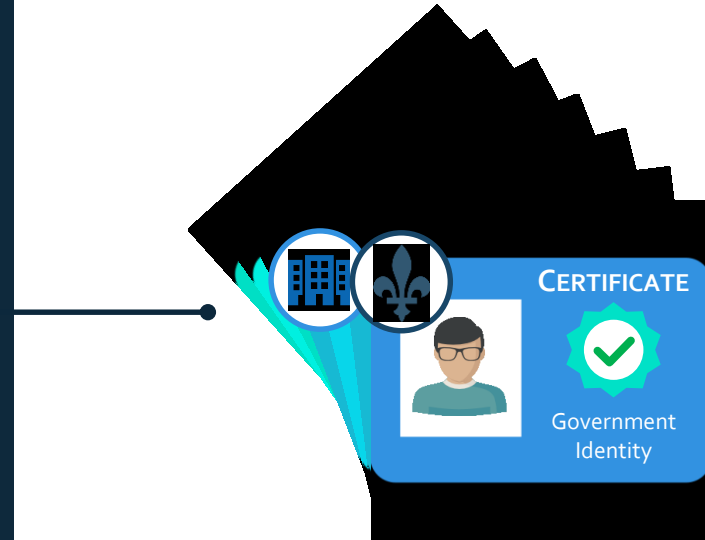Digital Identity Trusted Network

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Digital Identity

- ## What it is:

  An electronic representation of a person or organization, used exclusively by that same person or organization, to access valued services and to carry out transactions with trust and confidence.

  - Pan-Canadian Trust Framework (PCTF)

- ## What it is not:

 A unique identifier (unique number) associated with a particular person that can be used in a computer system.

CERTIFICATE

Government Identity

ID	NOM	PRÉNOM
XXX-000-X	Dion	Anne
XXX-000-X	Tremblay	Marc
XXX-000-X	Bouchard	Félix
...		

XXX-000-X

Information System

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Digital Certificate

- Proof of qualification, competence, identity or authorization attached to a person. For example :
  - Right to drive
  - Eligibility for health insurance

- May be associated with personal information or attributes such as:
  - Last name and first name
  - Place and date of birth
  - Address
  - Driver's licence number
  - Health insurance number

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Digital Certificate

Key Concepts
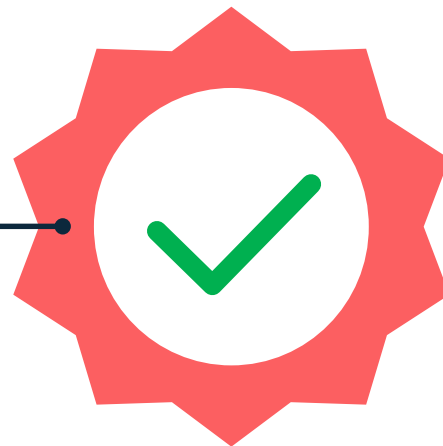
- Certificate of Government digital identity:
  - Initial and basic certificate
  - Issued by the government of Quebec
  - Is assigned to the citizen who requests it

- Other certificates that can be issued by the government of Quebec:
  - Driver's licence certificate
  - Vehicle registration certificate
  - Health insurance certificate

- Certificates that can be issued by members of the ecosystem - private sector:
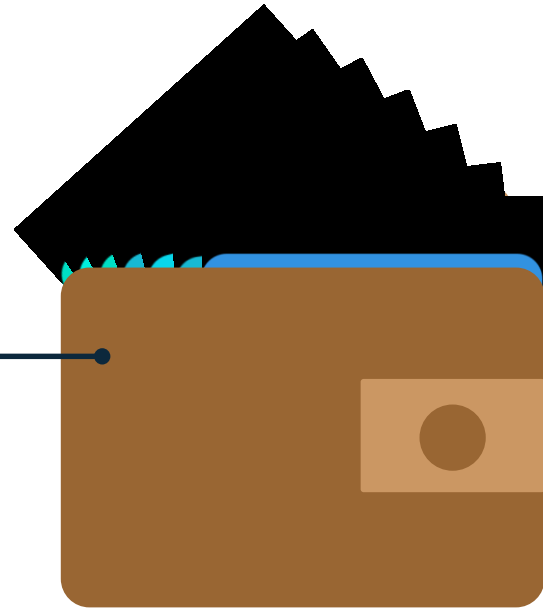 - Car Insurance Certificate
  - Credit rating Certificate

Digital Wallet

- Application which allows to save and communicate digital certificates.

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Key Concepts

Authentication

This process confirms that the credentials are valid and that they belong to the user.

This is a secure way to recognize a user when they want to access their digital wallet.

These credentials are composed of:
- A user code
- One or more authentication factors among:
  - What the person has - token, smart card, etc.
  - What the person knows - password, PIN, etc.
  - What the person is - biometric characteristics

Identity Verification

Process by which a person demonstrates that he is who he claims to be:
- By checking identity attributes
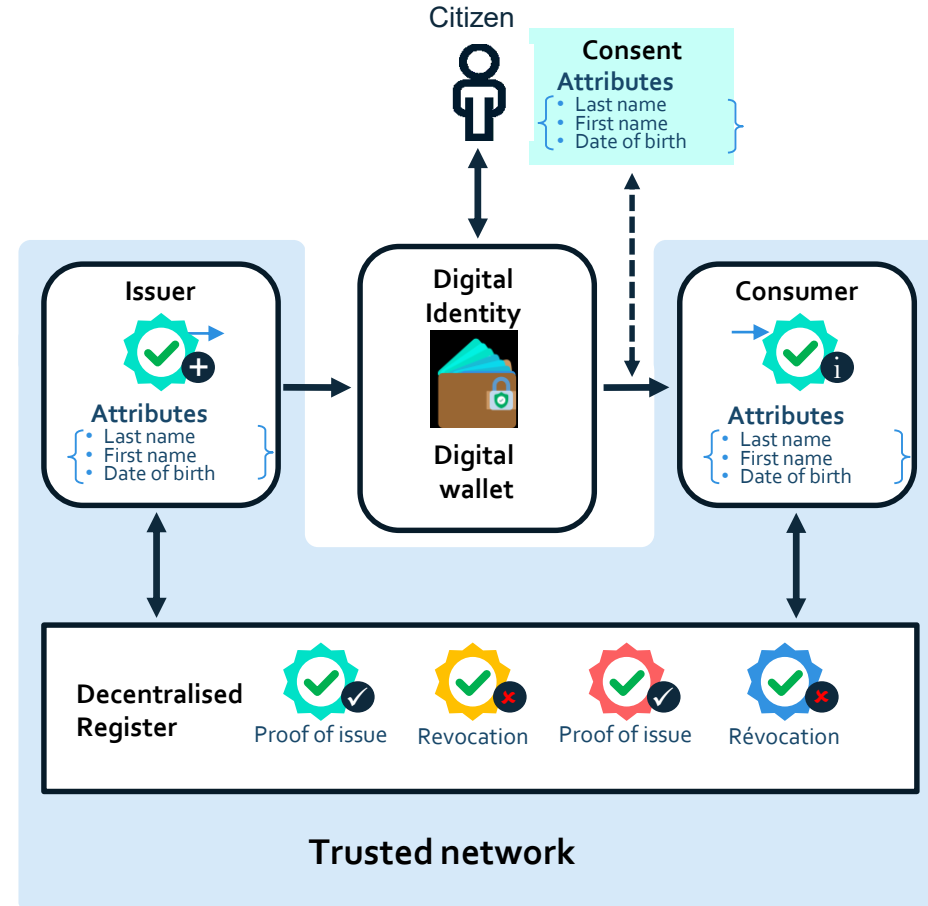- By presenting one or more shared secrets

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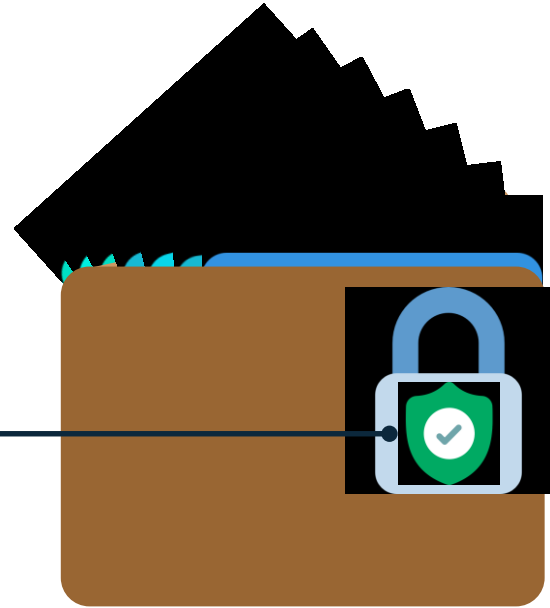
Digital Identity
Trusted network

A set of specifications, rules and agreements that define and govern the interactions of issuers and consumers of digital certificates.
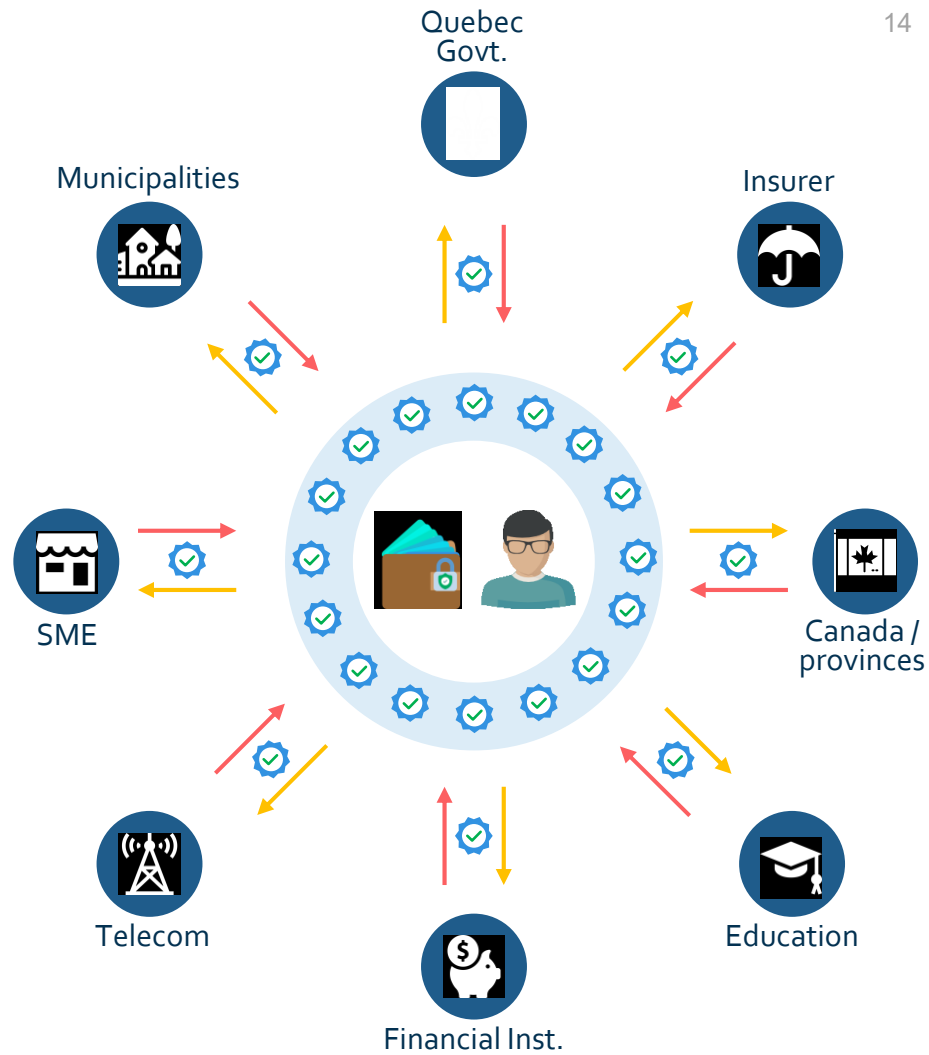
A key element in establishing and maintaining the trust of all stakeholders.

Key Concepts

Digital Identity Trusted Network

Members of the ecosystem are both issuers and consumers of certificates.

Issued Certificate
Examples

Quebec Govt.
- **Certificate of government identity**
- Certificate of civil status
- Health insurance certificate
- Certificate of vehicle registration
- Driver's licence
- Work permit

Insurer
- Auto Insurance Certificate
- Home insurance certificate
- Life insurance certificate

Canada / provinces
- Passport
- SIN
- Permanent residence certificate
- Citizenship certificate

Telecom
- Cable connection certificate
- Certificate of cellphone contract

SME
- Certificate of employment
- Salary certificate

Financial inst.
- Credit card certificate
- Certificate of access to checking account

Education
- Certificate of graduation
- Certificate of student status

Municipalities
- Proof of residence

QDIS Program
(Programme SQIN)
Demo

Creation of the wallet

QDIS - Demo

1. Amelia Earhart download the app « My digital wallet » on her cellphone.

2. In order to create her digital wallet, Amelia needs to authenticate herself with credential

3. She must choose between :
    *   Using a credential she knows
        e.g.: authenticating with her banking credential
    *   Creating a government credential

4. During the next connections, Amelia can also use the biometric functions of her device to authenticate

My Digital Wallet

Authentication
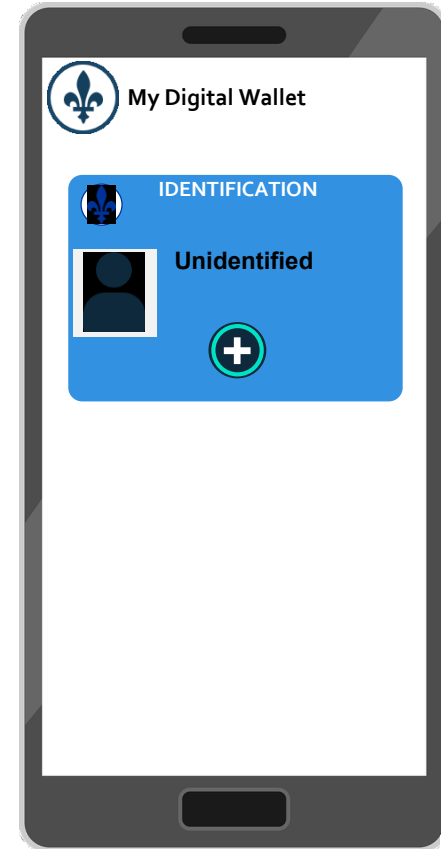
User ID :

Password :

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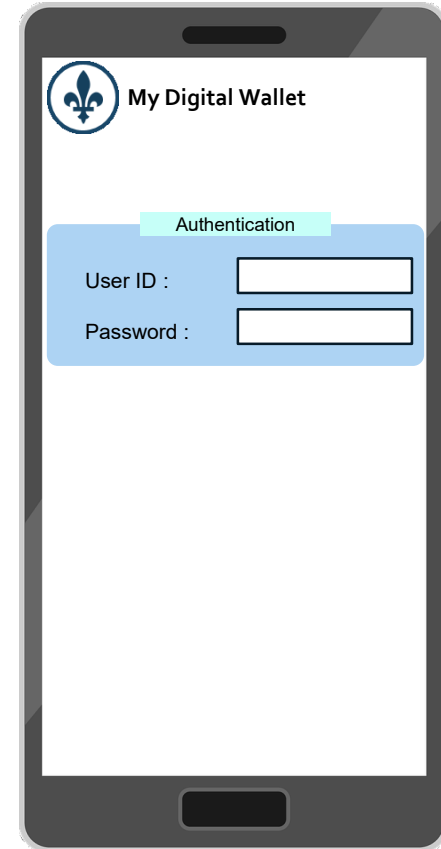
Association with Government Identity

The digital wallet is now created, but it is not associated with any identity.
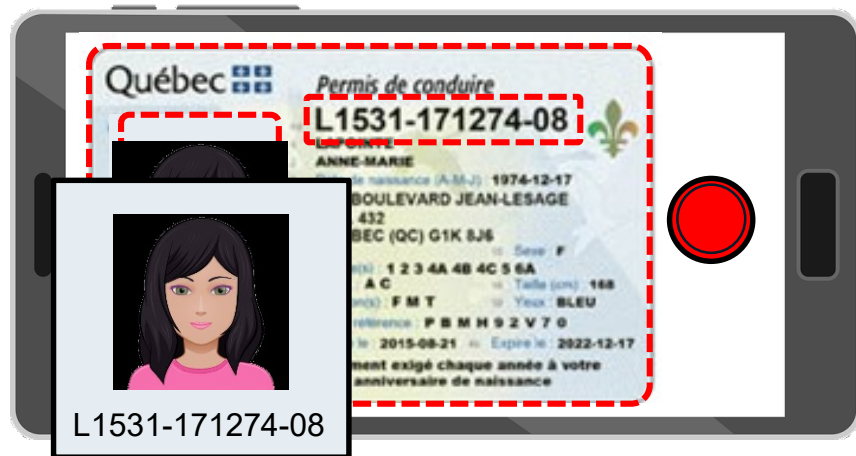
To associate it with her identity, Amelia must:

- Request it

- Verify her identity

Identity Verification

One of the ways to verify Amelia's identity would be to associate her with a document in her possession.
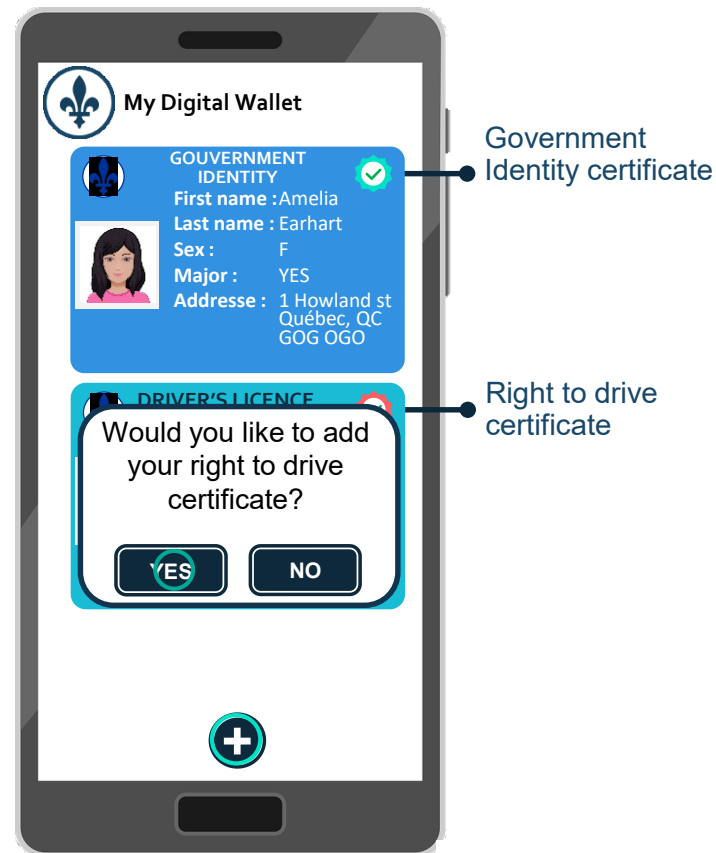
e.g.: Her driver's licence

L1531-171274-08

Certified by provincial govt.
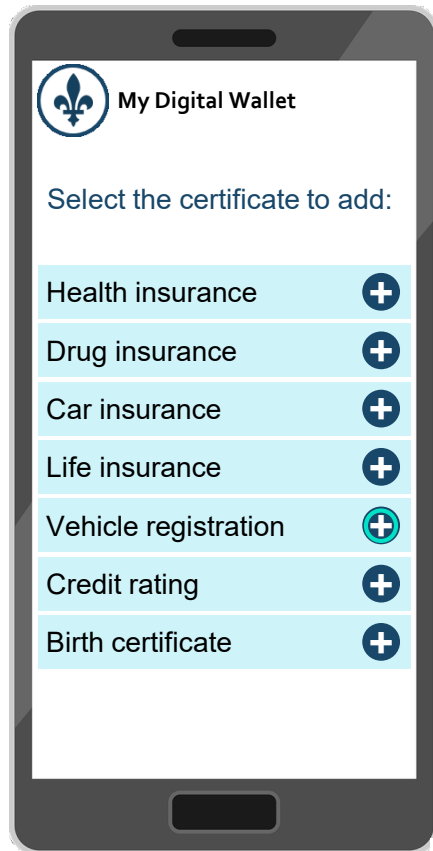
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Certificate added to the digital wallet

Once her government identity has been associated with her digital wallet, Amelia's driver's licence can be issued by the government authority since she used it in the previous step.

In addition, Amelia can add additional certificates to her wallet.

My Digital Wallet

GOUVERNMENT IDENTITY
First name : Amelia
Last name : Earhart
Sex : F
Major : YES
Addresse : 1 Howland st
Québec, QC
GOG OGO

DRIVER'S LICENCE

Would you like to add your right to drive certificate?

YES   NO

Government Identity certificate

Right to drive certificate

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Addition of a vehicle registration certificate

Amelia must first select the type of certificate she wishes to add.

My Digital Wallet

Select the certificate to add:

- Health insurance ⊕
- Drug insurance ⊕
- Car insurance ⊕
- Life insurance ⊕
- Vehicle registration ⊕
- Credit rating ⊕
- Birth certificate ⊕

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Addition of a vehicle registration certificate

To add her vehicle registration certificate, Amelia must agree to provide certain information - or attributes - associated with the certificates already present in her digital wallet.

Addition of a certificate issued by a member of the ecosystem

The registration certificate of her vehicle is added to her digital wallet.

The certificates now present in Amelia's wallet could, for example, allow her to underwrite car insurance.

My Digital Wallet

GOUVERNMENT IDENTITY
First name : Amelia
Last name : Earhart
Sex : F
Major : YES
Addresse : 1 Howland st

DRIVER'S LICENCE
L1531-171274-08
Amelia Earhart
1987-07-24
1 Howland street
Québec, QC
Sex : F
Eyes : Green
Height : 175 cm

VEHICLE REGISTRATION
Owner's first and last name
Earhart, Amelia
Marque **LOCKHEED**
Modèle **10 ELECTRA**
An **1935**
No Immatriculation
ABCDEFGH012345A9G

Vehicle registration certificate

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Addition of a certificate issued by a member of the ecosystem

From the company's website "Central Pacific insurance", Amelia initiates a request for a quote.
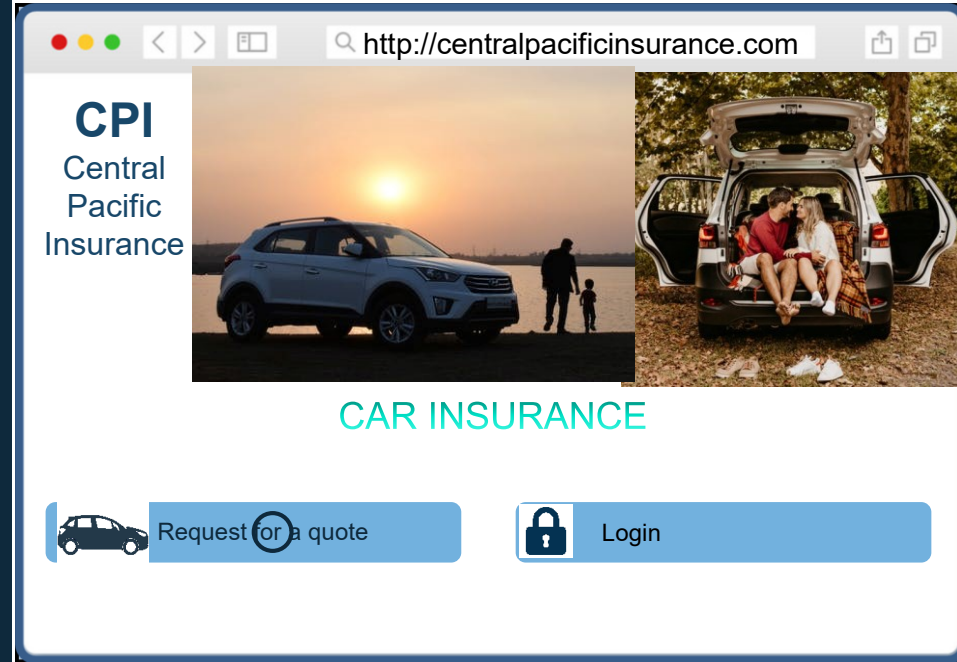
Addition of a certificate issued by a member of the ecosystem

Amelia must agree to provide certain information or attributes associated with the certificates already present in her digital wallet.

CPI
Central Pacific Insurance

Complete the quote request

Use my digital wallet

Cellphone number:

418 555-1212   OK

Provide the information myself   OK

My Digital Wallet

Do you agree that the Central Pacific insurance may obtain the following information:

De votre identité gouvernementale :

✓ First and last name

✓ Date of birth

From you right to drive certificate

✓ Confirmation of the right to drive

From your vehicle registration

✓ Vehicle registration number

Submit
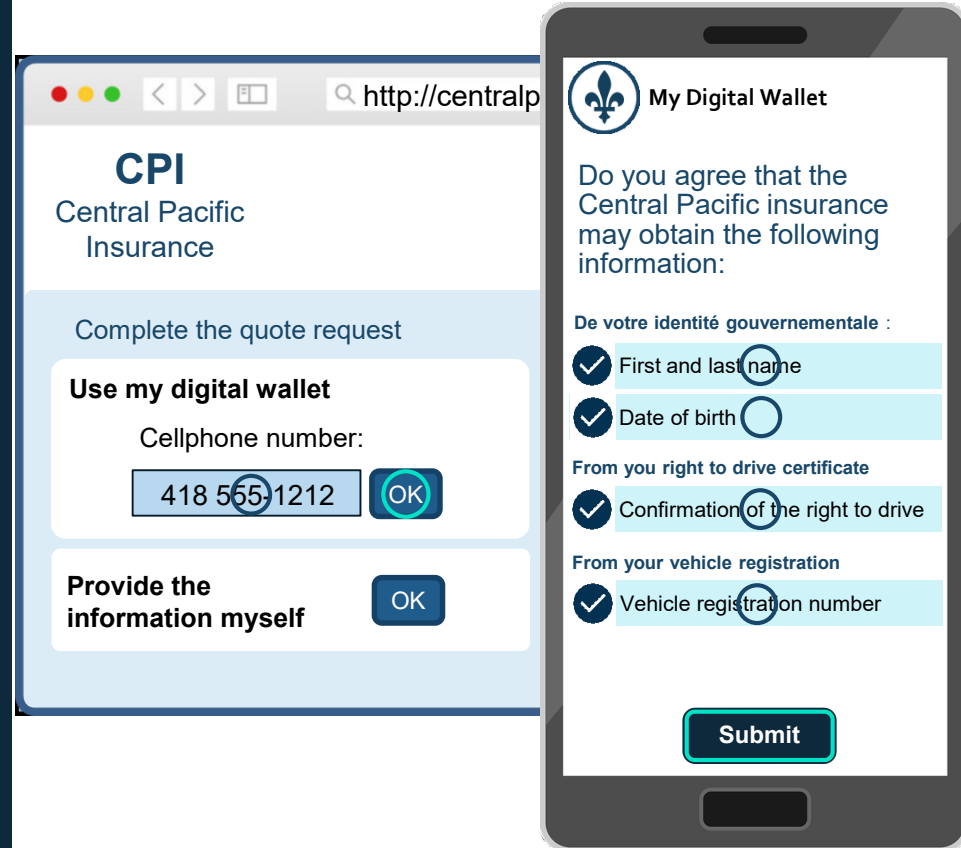
Addition of a certificate issued by a member of the ecosystem

QDIS - Demo

The result of the car insurance quote is presented for acceptance or rejection.

Once the quote is accepted, the car insurance certificate is added to Amelia's digital wallet.

CPI
Central Pacific Insurance

Re... ...otation

Tha... ...nsurance
quo... ...Electra is:

My Digital Wallet

GOUVERNMENT IDENTITY
First name : Amelia
Last name : Earhart
Sex : F
Maior : YES

DRIVER'S LICENCE
L1531-171274-08
Amelia Earhart
1987-07-24
1 Howland street   Sex : F
                                Eyes : Green

VEHICLE REGISTRATION
Owner's first and last name

CPI   **CAR INSURANCE**
CentralPacific
Insurance
Lockheed 10 Electra
ABCDEFGH012345A9G
ISSUE DATE : MAY 21, 2021
EXPIRATION DATE: MAY 21, 2022

Car insurance certificate

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QDIS - Demo
Other possibilities

The key of success

Involvement of the whole ecosystem