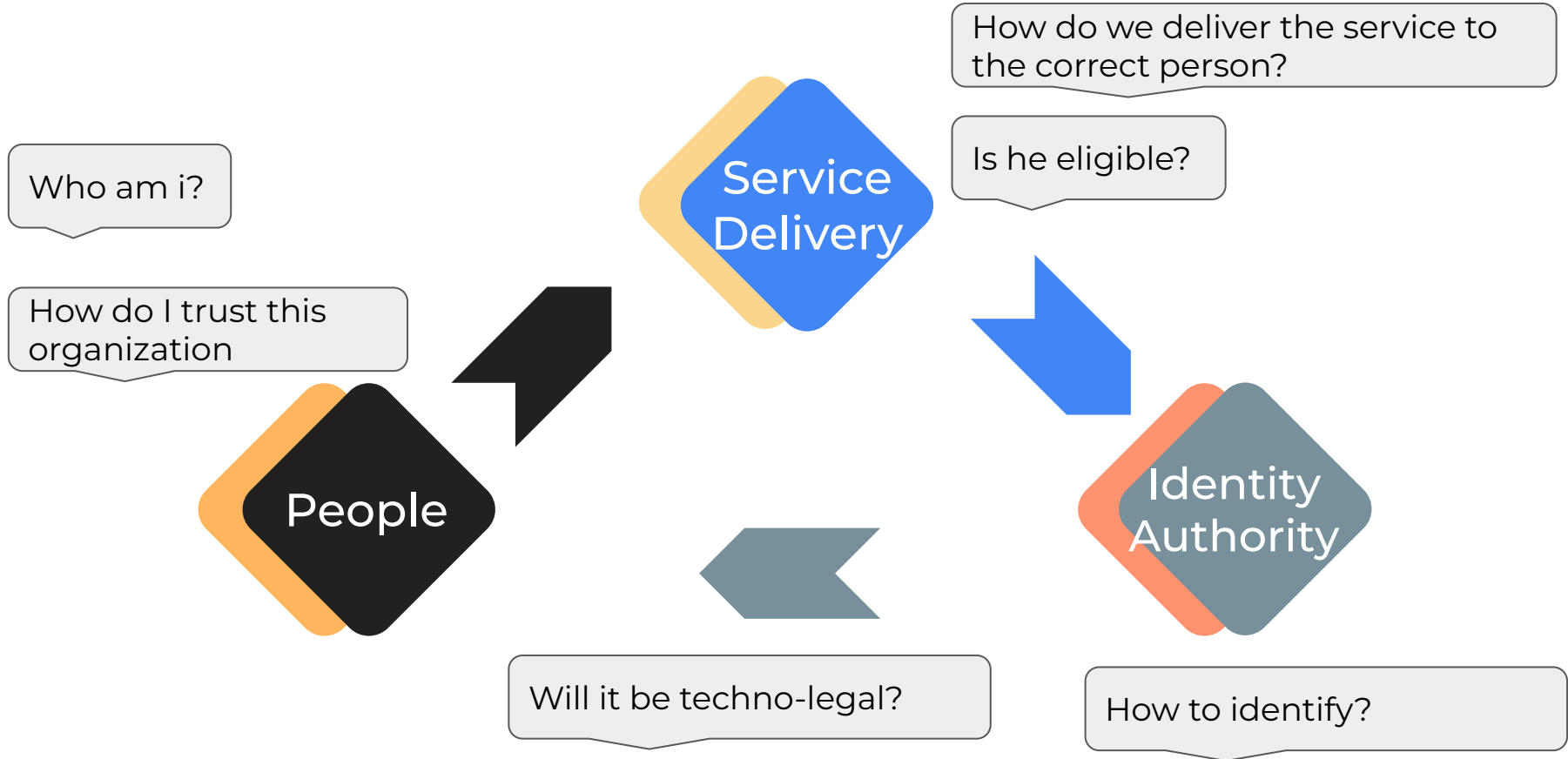# Digital Identity

Enabler for faceless service delivery

Background

To date, governments around the world have launched around 170+ digital, or partially digital, ID schemes. However, their track record is mixed. Only a few programs have achieved high levels of adoption, and use rates are often low, averaging just once or twice a year per person in some countries

Expectation

Digital Identity Blueprint

Register
Collect
Validate
Issue

Identify
Authenticate
eKYC

Authorize
Eligibility
Service Delivery
Delegation

Trust
Relying Party
Government
People

Security Privacy User Controlled Federate

Identity & Exception

Identity is foundational to many of the service delivery.

Simple exchange of information about the transacting parties – they must be a certain age or reside in a certain jurisdiction – structures must be in place that allow entities to determine certain information about their counterparty, and to have confidence that the information is true.

Not all Identities need uniqueness.

Not all cases need Identity.

ID Building Block Principles

- Issue once but verify n times
- Be Inclusive in issuance
- Offline and Async Must
- Allow to be passwordless
- Support additional factors without change in integration
- Privacy by design

ID Building Block

- Open ID Based Identity verification API
- Support for smartphone and QR Codes
- Support for Biometrics & Cryptographic keys
- Support for offline & decentralized verification with QR Code and Bluetooth.
- Offline & Online support for enrollment.
- Online is a must for uniqueness in service delivery.

Architectural Patterns
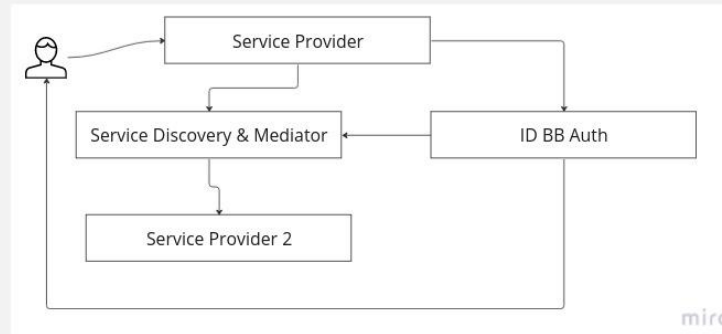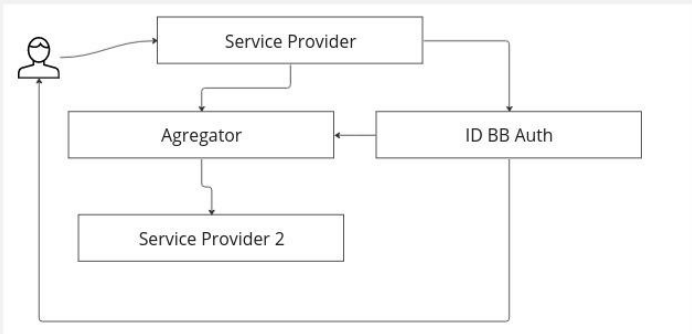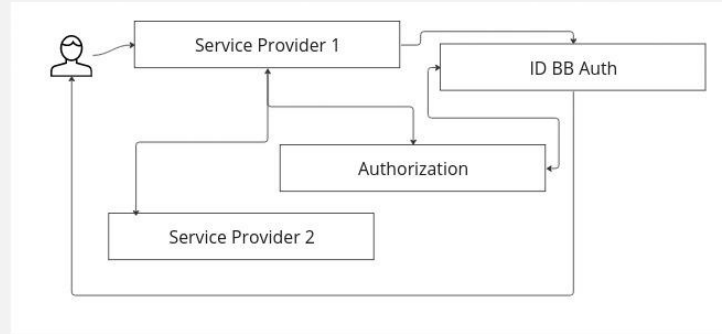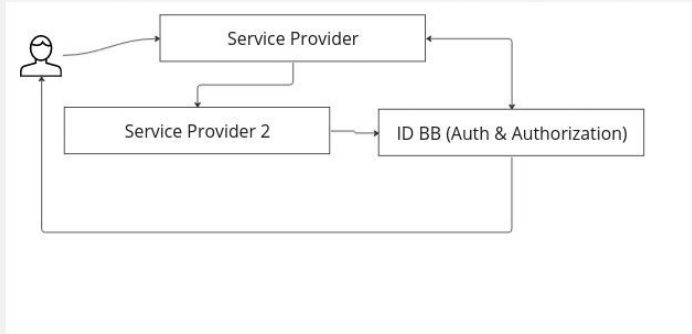
Thank You

Service Delivery Flow 1 (For Questions only)

```
sequenceDiagram
    Alice->>SP1: Can you provide me with child care benefits?
    SP1->>Alice: Login in through any one of the identity system?
    Alice->>SP1: Yes login with my national id.
    SP1->>IDBB: Can you validate and Call me back? (Redirect)
    IDBB->>IDBB: The SP1 is a valid service provider
    IDBB->>Alice: Can you share your national id?
    Alice->>IDBB: Yes I will type my national id, Pin & delegate SP1 for Bank
    IDBB->>Alice: Great! The SP1 is asking for a delegated access to your bank account
    Alice->>IDBB: Yes I give you delegated access
    IDBB->>SP1: Alice is a valid user & here is her PSUT (Redirect)
    SP1->>Alice: Welcome Alice, You are eligible for child care benefits. Do you want to apply?
    Alice->>SP1: Here are my bank details and child id.
    SP1->>Bank: Get Alice bank details
    Bank->>IDBB: Hey I am delegated by XXX to get her details
    IDBB->>Bank: Yes I see, the token mapped to Alice and here is Alice PSUT
    Bank->>SP1: Yay its Alice, Cool let me share her bank details.
    SP1->>Alice: Your registration is successful and we will get back to you.
```

Service Delivery Flow 2

```
sequenceDiagram
    Operator->>SP1: Get me all the new registrants
    SP1->>Operator: Here you go
    Operator->>SP1: Ok Approve Alice for child benefits with mapping 123
    Note over SP1,IDBB: Below is an optional interaction.
    SP1->>IDBB: Optionally check if Alice is still there in IDBB
    IDBB->>SP1: Yes Alice is still active in our system.
    SP1->>PaymentBB: Schedule payment for 123
    PaymentBB->>Bank: Pay 123
```