### SIP for Inscribing Immutable Data on Stacks



#### Use cases

# Inscribing business contracts, commitments, National D. membership, affiliations to companies





# Immutability is an attribute that Blockchain technology offers to world society

Transaction and/or execution of SmartContract than cannot be altered

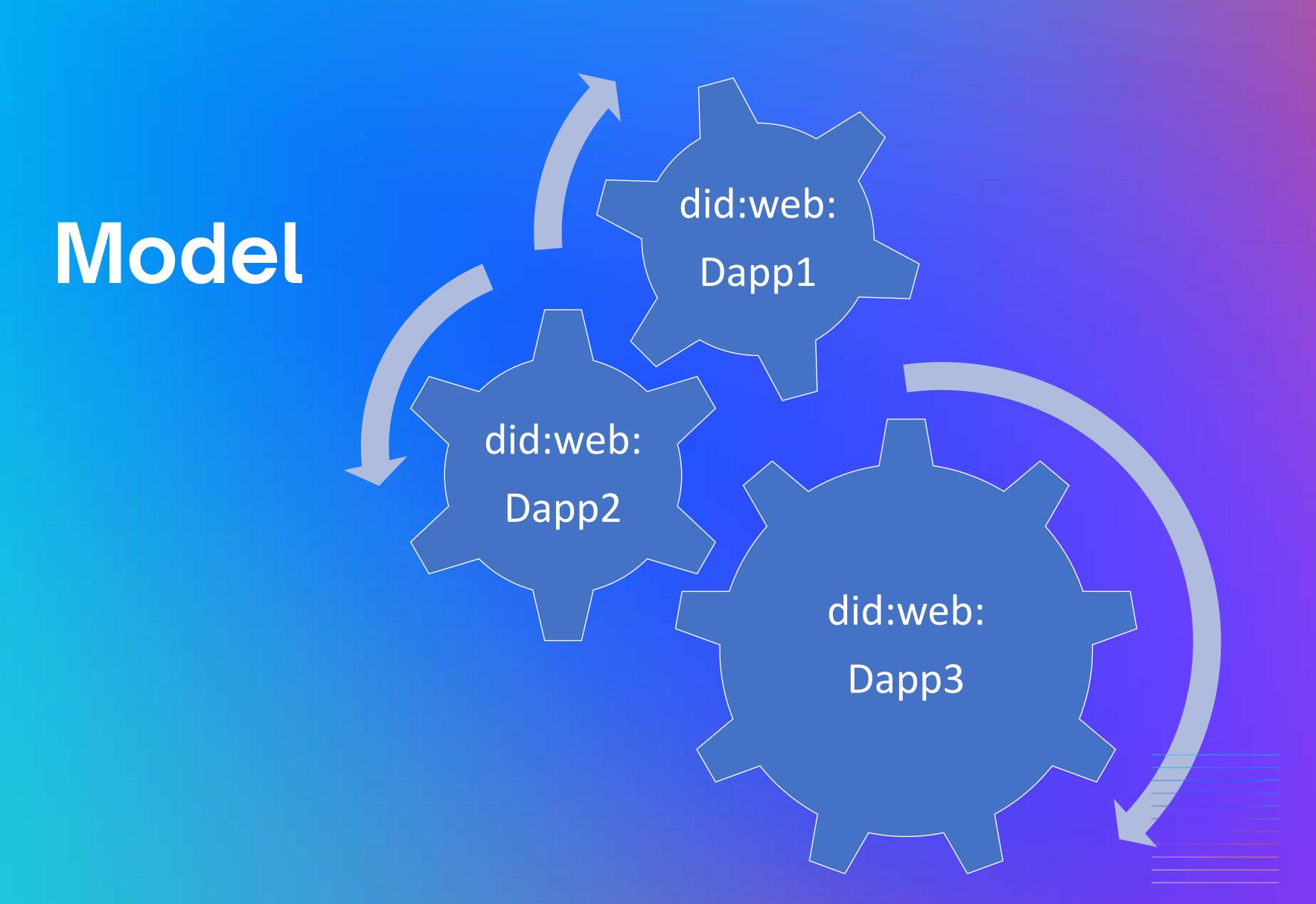


Financial value transfer

Bitcoin Name Service (BNS)

Non Fungible Tokens (NFT) inscriptions





Non transferable Inscriptions could be leverage with the use of did:web for the users, and apps. Accessed publicly by a web service

### Social Identity

#### Means:

Humans and their relations





Commitments

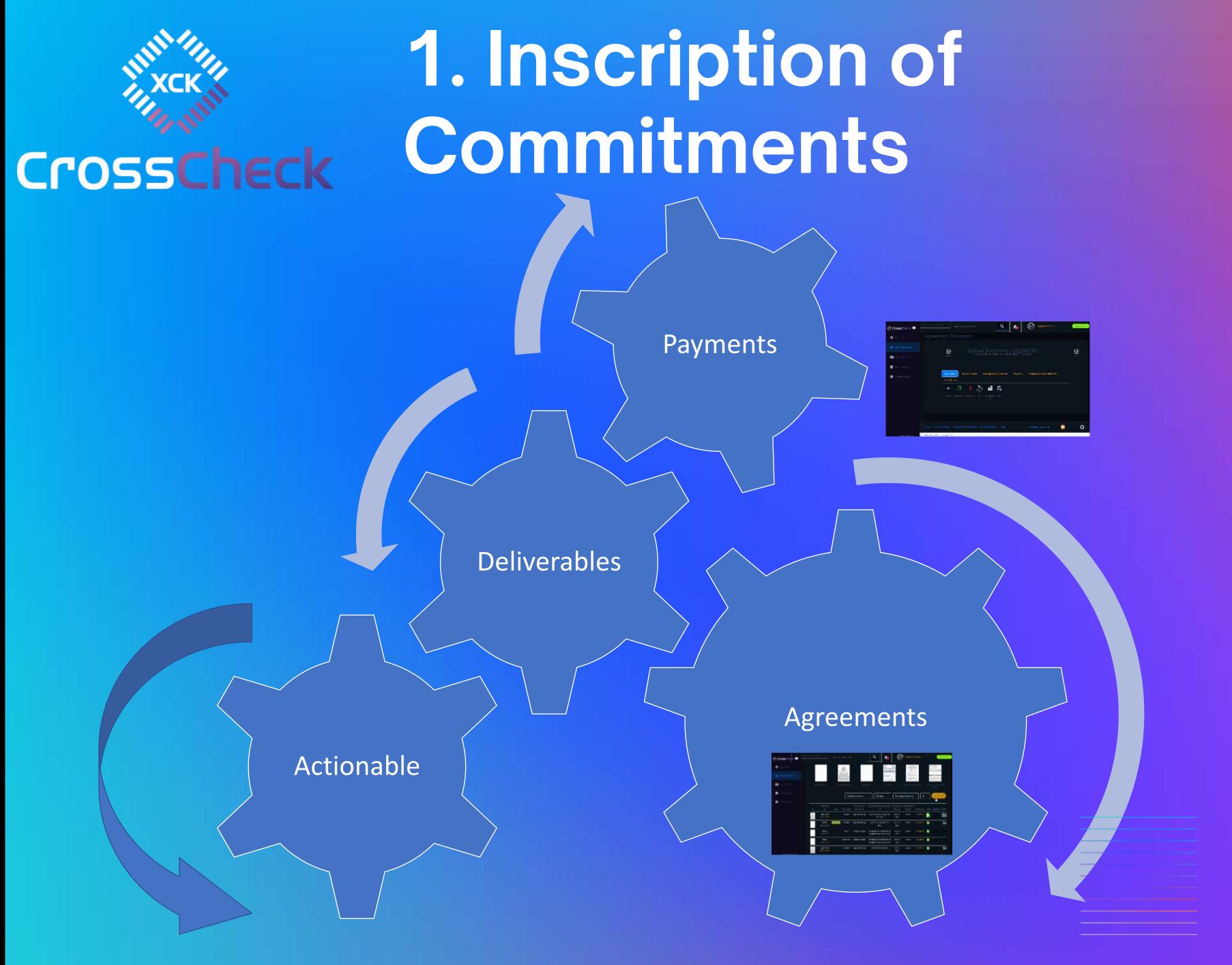


Affiliations

Credentials



Private and secure data stored in a distributed database



In a secure way do digital agreements, make/receive digital payments, digital delivery, and make them actionable with other entities or customers

# 2. Inscription of Credentials



## Social Identity

Tied to a validated National ID document with proof of life.

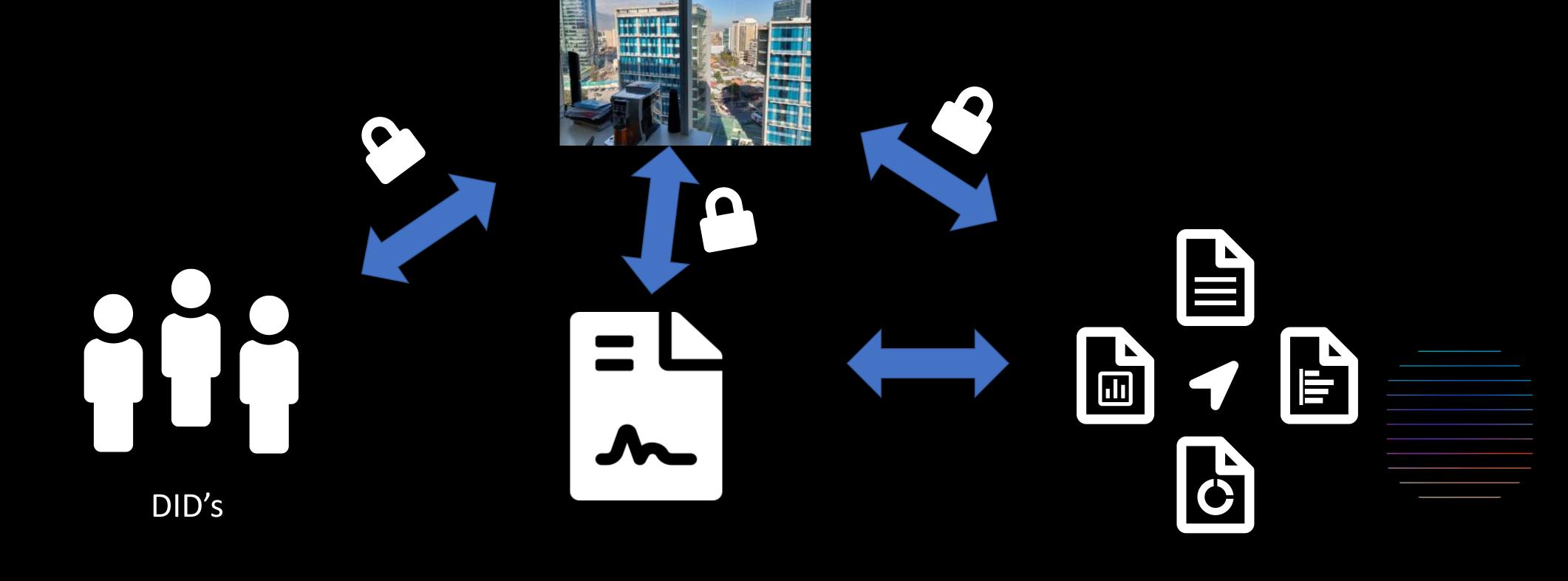




Credentials are a part of our daily lives

### 3. Inscriptions of affiliations

To organizations, companies, institutions, and others.





### 1. Clarity Trait of Commitment Inscriptions

```
((( XCK-inscription-trait-v1.clar M × ≡ history.txt ●
xck-inscription > contracts > ((( XCK-inscription-trait-v1.clar
       You, hace 1 segundo | 1 author (You)
       (define-trait commitment-inscription-trait
           ;; Last inscription ID, limited to wint range
           (get-last-inscription-id () (response uint uint))
           ;; the human readable name of the inscription app service
           (get-inscription-app-name ()
                 (response
                   {chain-id: uint, name: (string-utf8 256), version: (string-utf8 50)} uint)
  10
  11
  12
           ;; URI for metadata associated with the inscription service
           ;; Example did:web:w3c-ccg.github.io:user:alice
  13
           ;; delimited by colons rather than slashes
  14
           (get-app-did-web-uri () (response (optional (string-utf8 256)) uint))
  15
  16
  17
           ;; the type of document that was inscribed
           (get-type-of-inscription () (response (string-utf8 50) uint))
  18
  19
  20
           ;; URI for metadata associated with the NFT token
           (get-token-uri (uint) (response (optional (string-utf8 256)) uint))
  21
  22
  23
           ;; Owner of a given inscription identifier
           (get-inscription-address (uint) (response (optional principal) uint))
  24
  25
  26
           ;; Owner of a given inscription identifier
           (get-inscribing-address (uint) (response (optional principal) uint))
  27
  28
  29
           ;; retrieving a specific inscription by index
  30
           (get-inscription-reference (uint) (response (optional (buff 32)) uint))
  31
           ;; retrieving a specific inscription by data hash
  32
  33
           (get-inscription-reference-by-hash ((buff 32)) (response (optional uint) uint))
  34
  35
          (verify-inscription-hash (uint (buff 32)) (response bool uint))
  36
  37
```



# SIP Proposal for Inscribing Immutable Data on Stacks

https://github.com/paradigmacl/unreplaceableDigitalID/blob/main/sipproposals.md

#### Future Actions

- 1. Form a commitee (send message Discord or email did:web:phillip.xck.app)
- 2. Assesment of Stacks Dapps impacted by SIP
- 3. Develop a consensus
- 4. Evaluate Dapps compliance to SIP
- 5. Implement SIP

