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Built on KILT:
Business Use Cases for Blockchain

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Paris Blockchain Week

13 April 2022

Overview

1. Web2 vs. Web3: An Evolution

2. Digital Identity & KILT Protocol
   (launched in November)

3. Real World Applications in Web3
   - Consumer Use Case: **SocialKYC**
     (launched in January)
   - Business Use Case: **DIDsign**
     (launched in March)
   - Personalized DIDs: **web3name**
     (launched at Paris Blockchain Week!)

Web3 is Now

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- Early hurdles and misperceptions:
  - Web2 was free, Web3 is paid
  - Web3 is IPFS, Web3 is NFTs, Web3 is DAOs
  - There is no room for application in Web3

- The next evolution of blockchain:
  - Ethereum → parachains & interoperability (Polkadot, NEAR, Cosmos)
  - High gas feeds → predictable cost structures
  - Blockchain use cases → Business use cases:
    - e.g. real-world identity applications, “Built on KILT”

What is Digital Identity?

Verifiable Credentials + Identifier = Identity

What are DIDs?

Decentralized Identifiers (DIDs) are “a new type of identifier that enables verifiable, decentralized digital identity.” *

- **Unique:** A unique set of characters representing an identity, like a digital fingerprint.

  A DID looks like this:

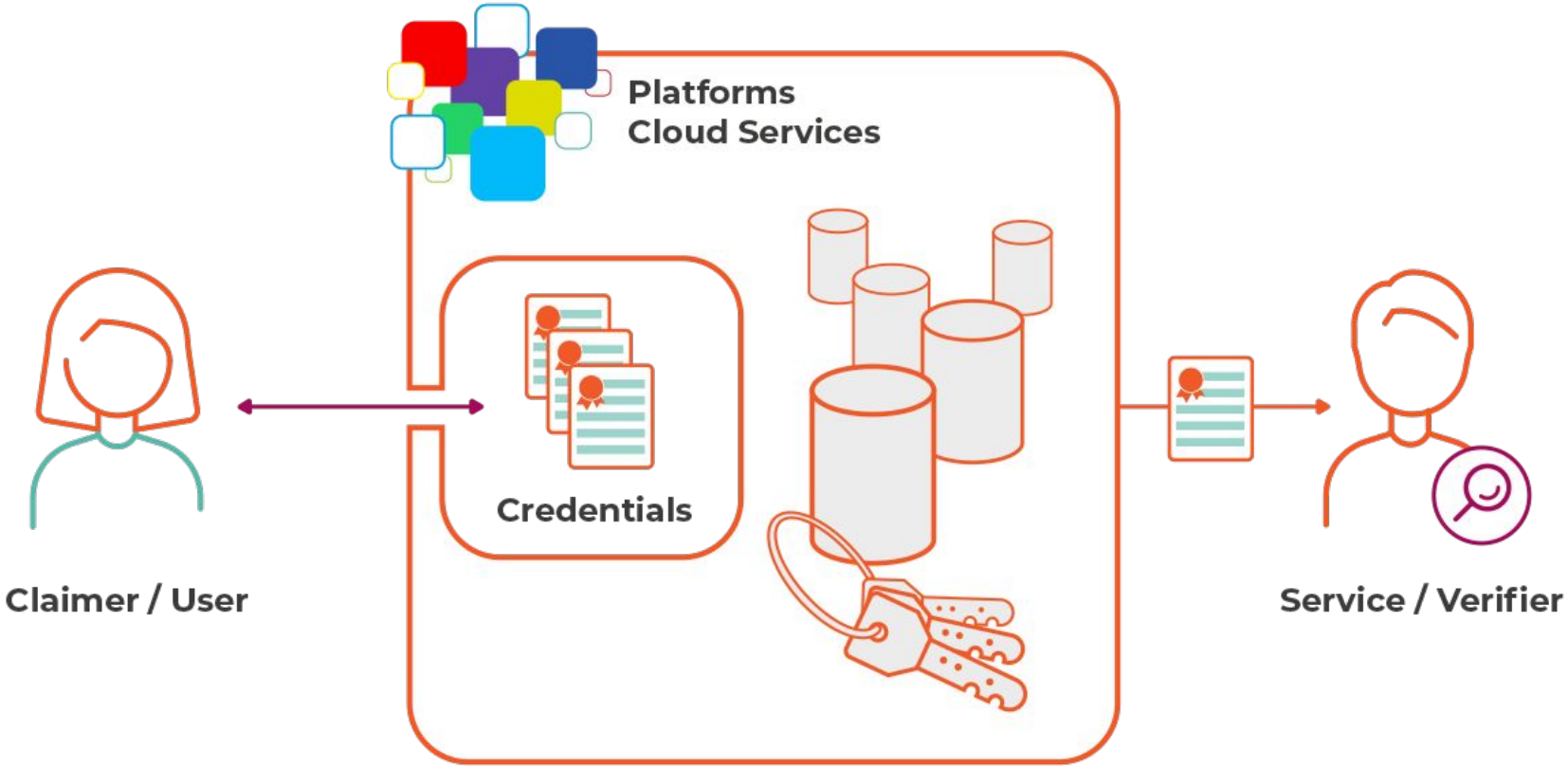
  did:kilt:4s8kEBWV9nwU5znxmfR7DVA31DdBoqYGj49SAiAPzzigwJDm

- **Verifiable**: The identity subject can use various cryptographic techniques to prove ownership
- **Decentralized**: Identity management (creation, resolution) does not depend on any centralized registry / controller
- In KILT, identity is built by adding credentials to the DID.

**W3C official specification v1.0:*
https://w3c.github.io/did-core/

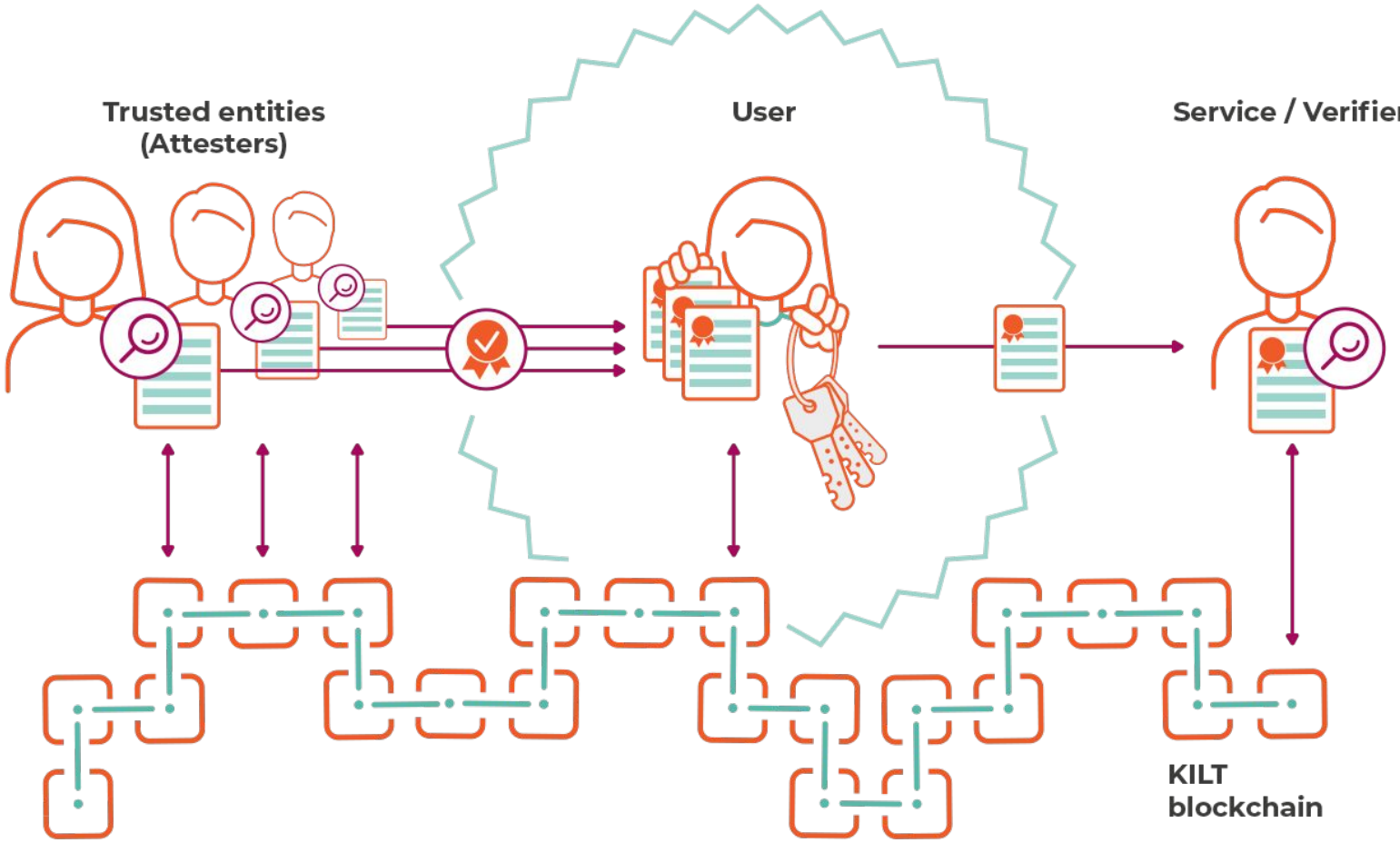
Digital Identity in Web2

Current internet operates in a top-down trust model:



Digital Identity in Web3

Re-empowers the user:



What is KILT Protocol?

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- KILT is a decentralized blockchain protocol for issuing verifiable, revocable, and anonymous credentials and **DIDs for Web3**
- KILT updates the established process of trust in real-world credentials – passports and drivers' licenses – **bringing trust to the digital world**
- Developers can use KILT to create identifiers and credentials for humans, machines, services, digital assets (e.g. NFTs), and **anything that needs identity**

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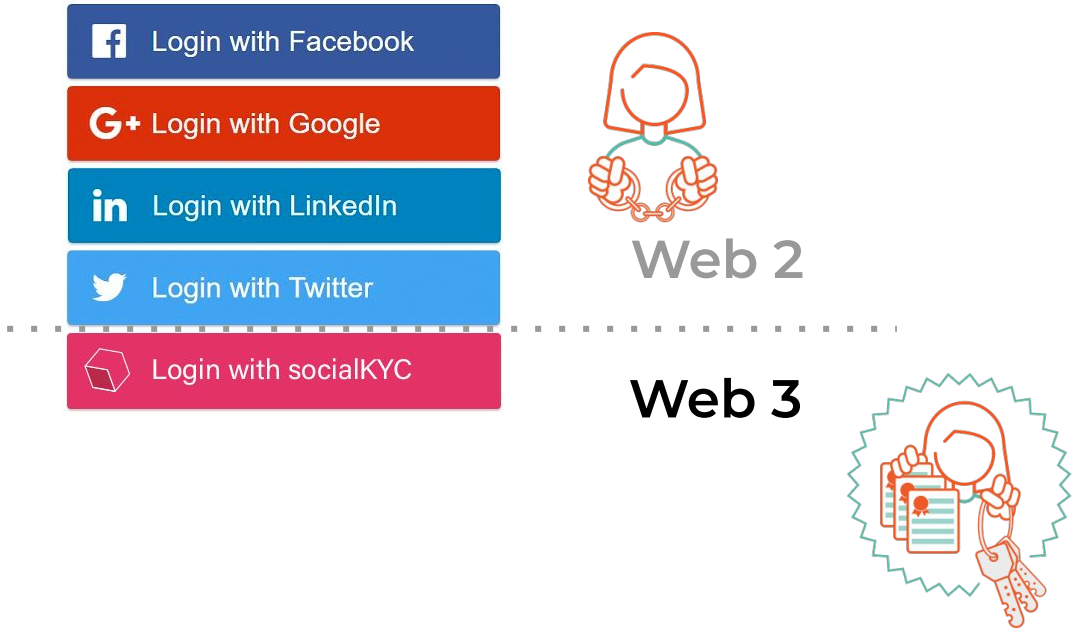
Consumer and Enterprise Applications Built on KILT

SocialKYC: Verifiable Credentials for Consumers

- KYC = Know Your Customer, using government-issued credentials
- SocialKYC = Prove your internet identity
- Users prove control over their social accounts (email, Twitter, GitHub, Twitch)
- Users receive verifiable credentials and can prove their identity to multiple services (gaming, news sites, signing applications)
- SocialKYC forgets about the user after the credential is issued



SocialKYC: Verifiable Credentials for Enterprise

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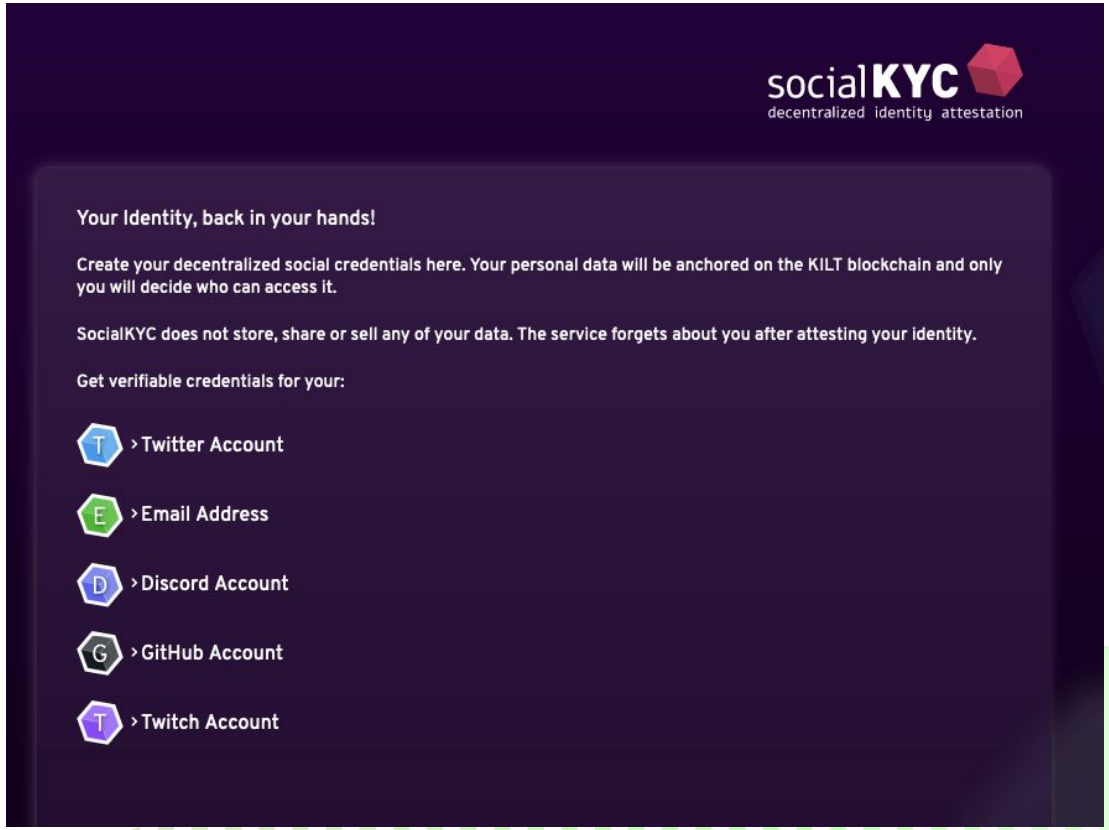
https://socialkyc.io

- GDPR compliant login layer for websites (news sites, communities...)
- Authentication layer for gaming companies; reputation layer for gamers
- Verification layer for contracts in Web2 and Web3 (DAOs, Metaverse)



DIDsign: Web3 Beats Web2 in Signing

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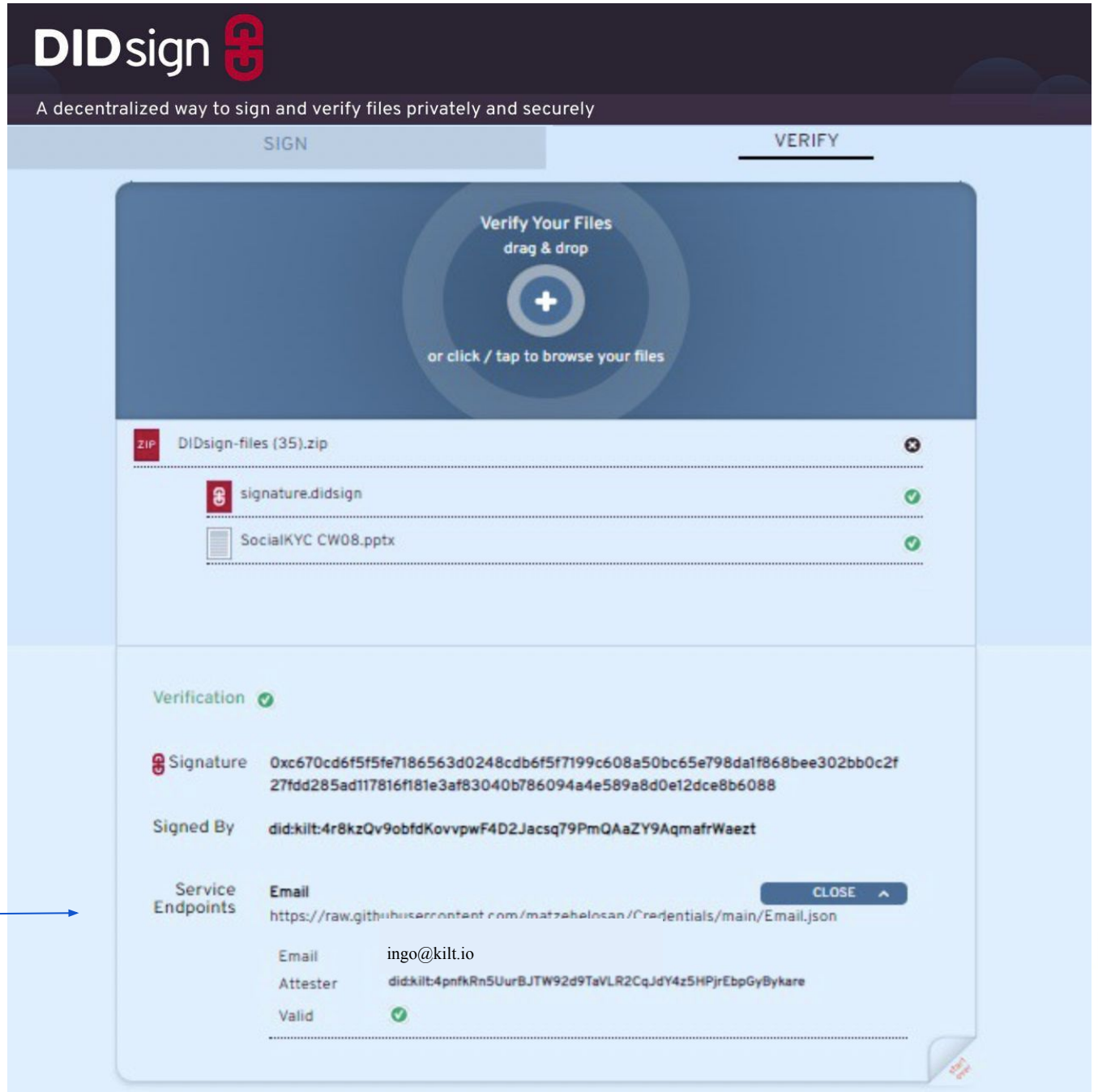
A decentralized way to sign and verify files privately that is:

- **Secure.** Only the sender and recipient have access to the files; they are not stored anywhere else.
- **Verifiable.** Several people can sign the same document separately and confirm that each party signed the doc in its original form.
- **Flexible.** You can sign any digital file – PDFs, audio, video, software – directly in your browser using a DID.
- **Independent.** You can zip the signed file with the signature and send it via email, Telegram, WhatsApp, even a memory stick. The recipient can easily verify the file has not been tampered with.
- **Free.** Signing, sending and verifying files is always free.

DIDsign

https://didsign.io/

Now: socialKYC integration



socialKYC

web3name: Customized DIDs

- web3name (w3n) is a custom name you create to represent your on-chain DID:

  did:kilt:4s8kEBWV9nwU5znxmfR7DVA31DdBoqYGj49SAiAPzzigwJDm

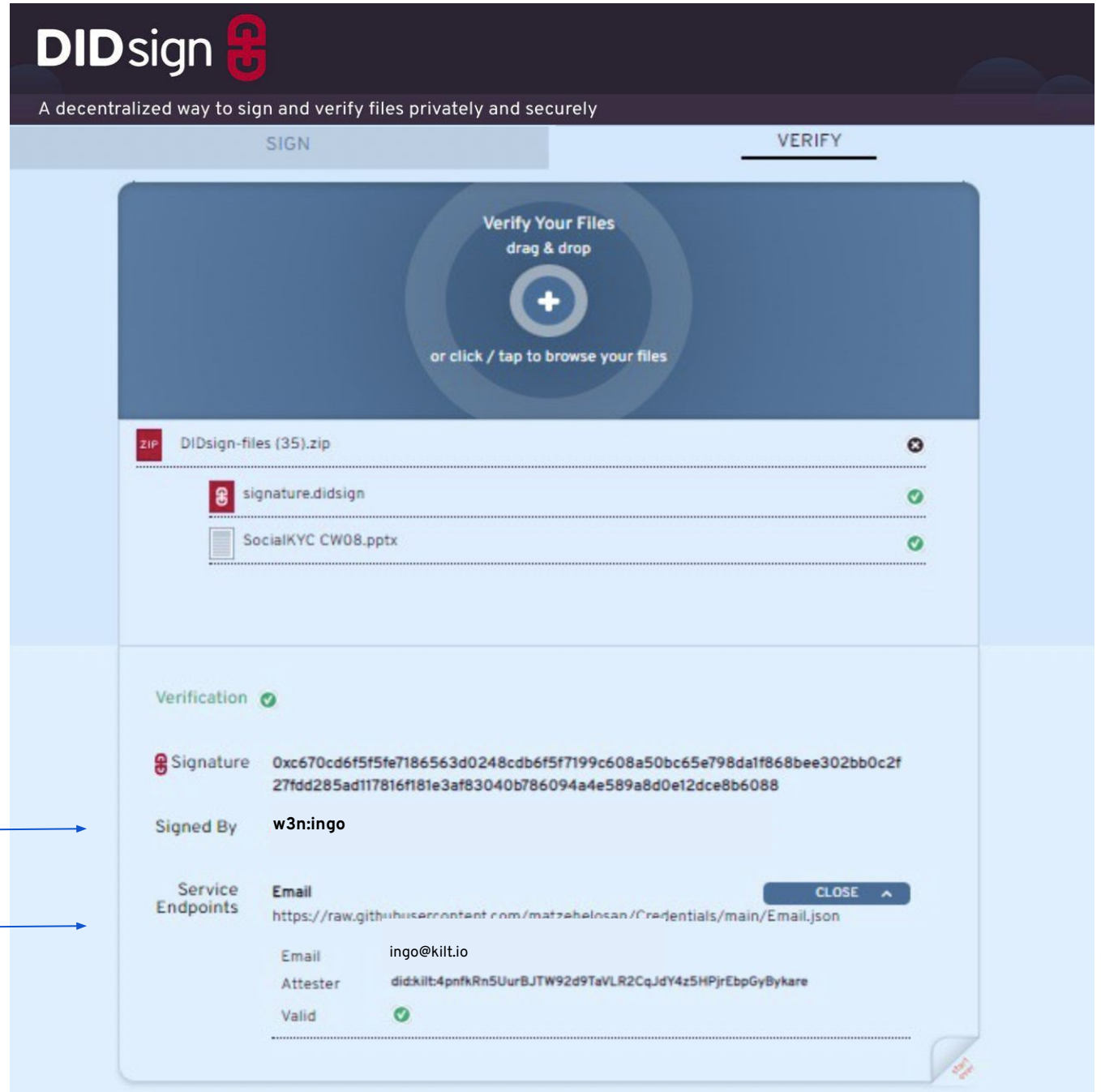
  ⇓

  w3n:ingo

- Personalizes your digital identity
- Represents your entity across the Polkadot ecosystem and beyond (validators, collators)
- Creates additional, recognizable layer of trust

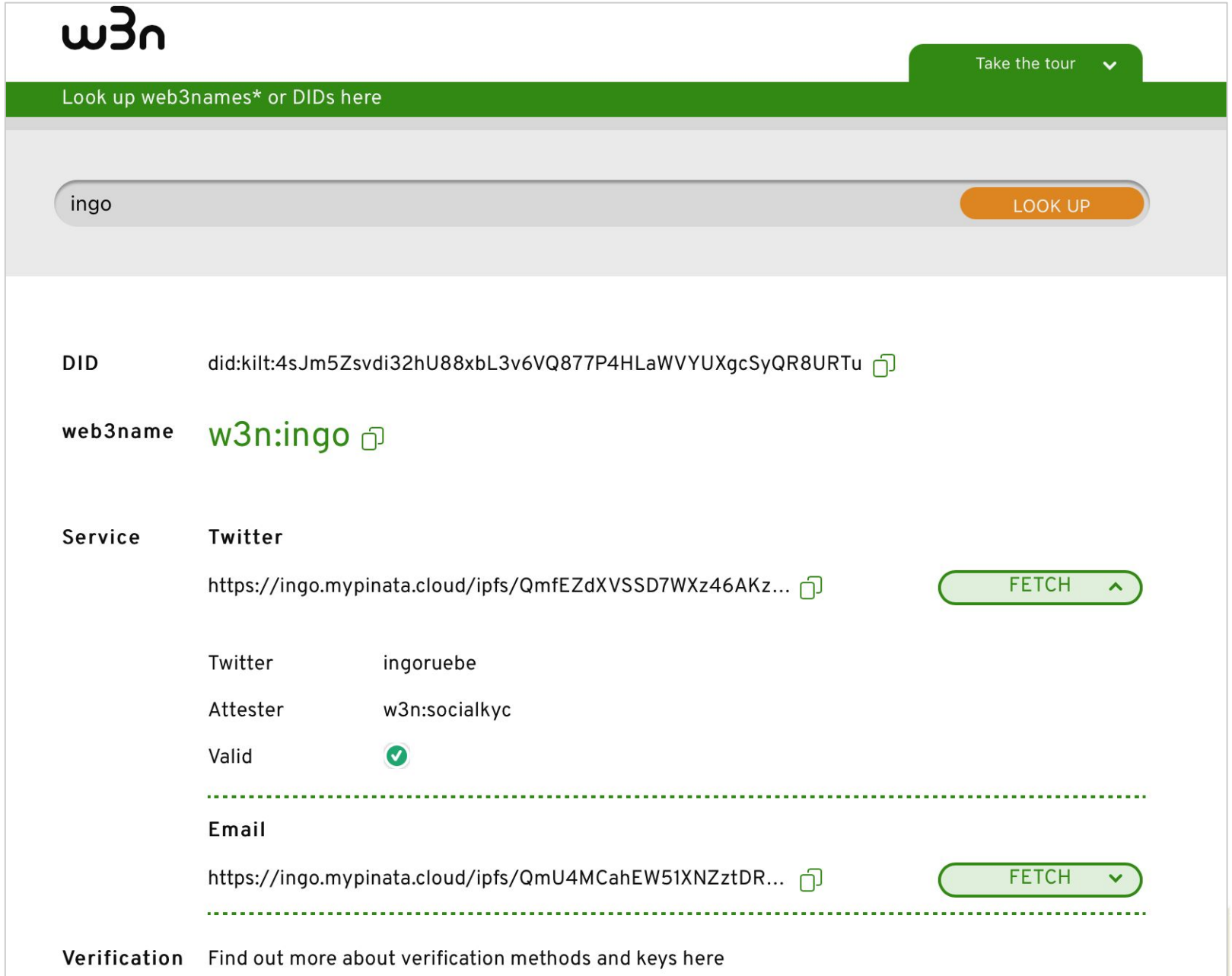
https://didsign.io/

Coming Soon: web3name integration



w3n →

socialKYC →


w3n
Take the tour
Look up web3names* or DIDs here
ingo
LOOK UP
DID
did:kilt:4sJm5Zsvdi32hU88xbL3v6VQ877P4HLaWVYUXgcSyQR8URTu
web3name
w3n:ingo
Service
Twitter
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FETCH
Twitter
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Attester
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Valid
Email
https://ingo.mypinata.cloud/ipfs/QmU4MCahEW51XNZztDR...
FETCH
Verification methods
Find out more about verification methods and keys here
https://dev.uniresolver.io/#did:kilt:4sJm5Zsvdi32hU88xbL3v6VQ877P4HLaWVYUXgcSyQR8URTu

Thank You!

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Stakeboard

socialKYC
decentralized identity attestation

DIDsign

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