



# **NEURAL DISTRIBUTED LEDGERS**

**A DISRUPTIVE NEW WAY TO  
IMPLEMENT DIGITAL IDENTITIES**

2022



**I think NDL (Neural Distributed Ledgers) is the right technology to implement digital ID based solutions.**

**Please, let me elaborate...**





WE DESIGN  
THE FUTURE

**We develop disruptive base technologies  
and frameworks focused on the Internet of  
Value paradigm**



Society is  
changing due to  
**Blockchain**

## **INTERNET OF VALUE MEANS**

- 1. Digital value is recognised by common people.**
- 2. People are becoming aware of the private ownership of data on the Internet**

# IDENTITIES AND THE STORAGE PROBLEM

Developers use algorithms to limit what users can do with the data stored in databases.

Any user that is granted access to a database engine can do whatever he/she wants to every stored record:

**READ · WRITE · LIST · MERGE · DELETE**



# IDENTITIES AND THE STORAGE PROBLEM

Developers and system administrators are, de facto, the **true final owners** of every data piece stored in a database or system.

**How can we guarantee the private property of the data then?**





## BLOCKCHAIN

Not your keys, not your assets



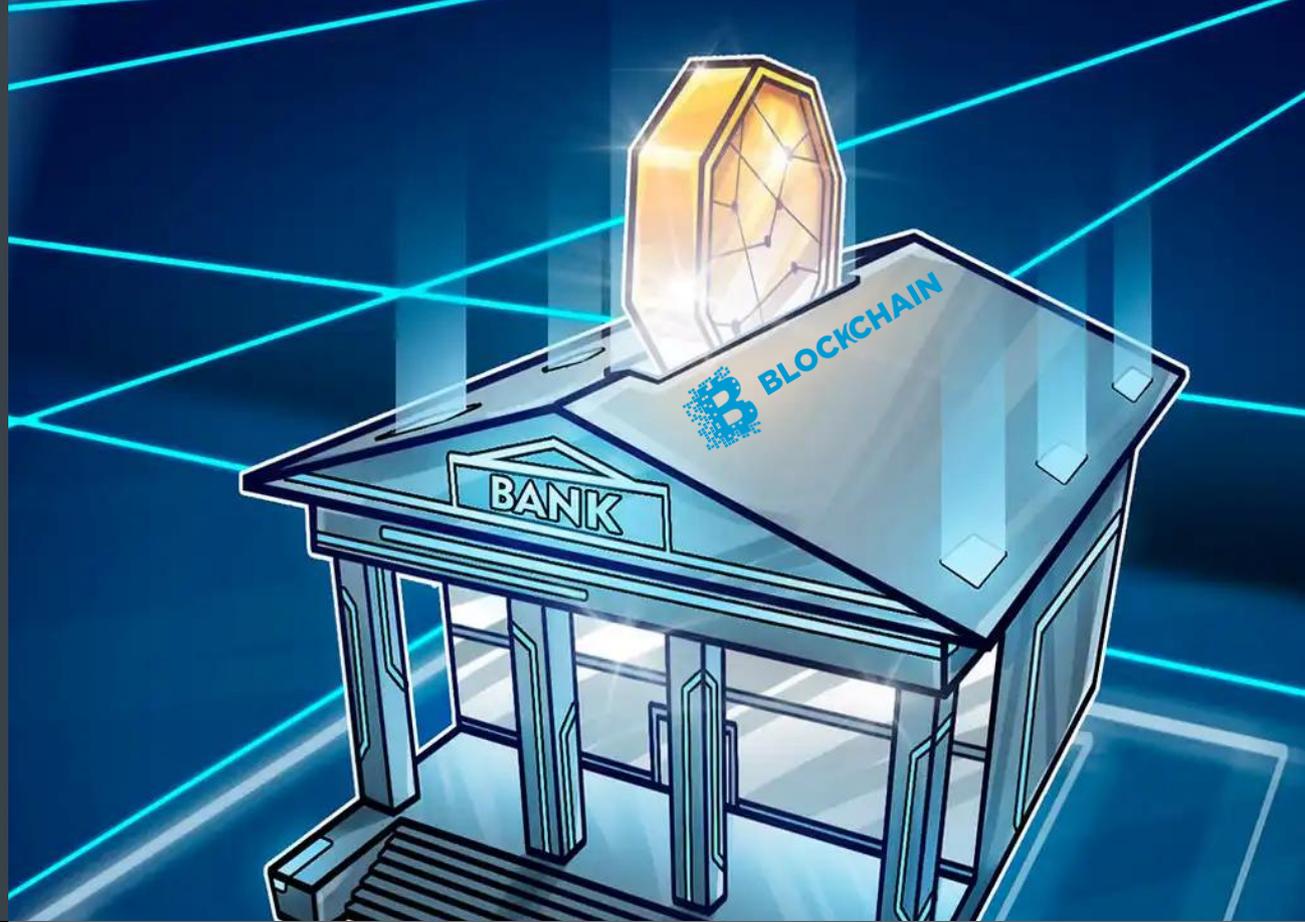
Blockchain limits access to its stored data so only the legitimate owners of each record can manipulate them.

The record owner is the one having the proper key.

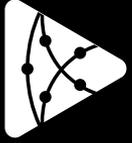


Unfortunately when private data is of considerable size, common Blockchain networks just can't and won't ever do the job.

**DANGER**



DIGITAL IDENTITY ASSETS ARE PRIVATE PROPERTY



# NEURAL DISTRIBUTED LEDGERS (NDL)



NDL is **inspired by** the ability of **human brains** to adapt to the dynamic environment that surrounds them.

NDL **redefines Blockchain** to **avoid the global shared DLT approach**, which is, in our opinion, the main cause of the scalability, performance and maintainability problems Blockchain networks suffer from.

NDL transforms Blockchain into a zero trust audited and secured second layer of the Internet.

NDL allows digital assets to be sent from wallet to wallet over the Internet.

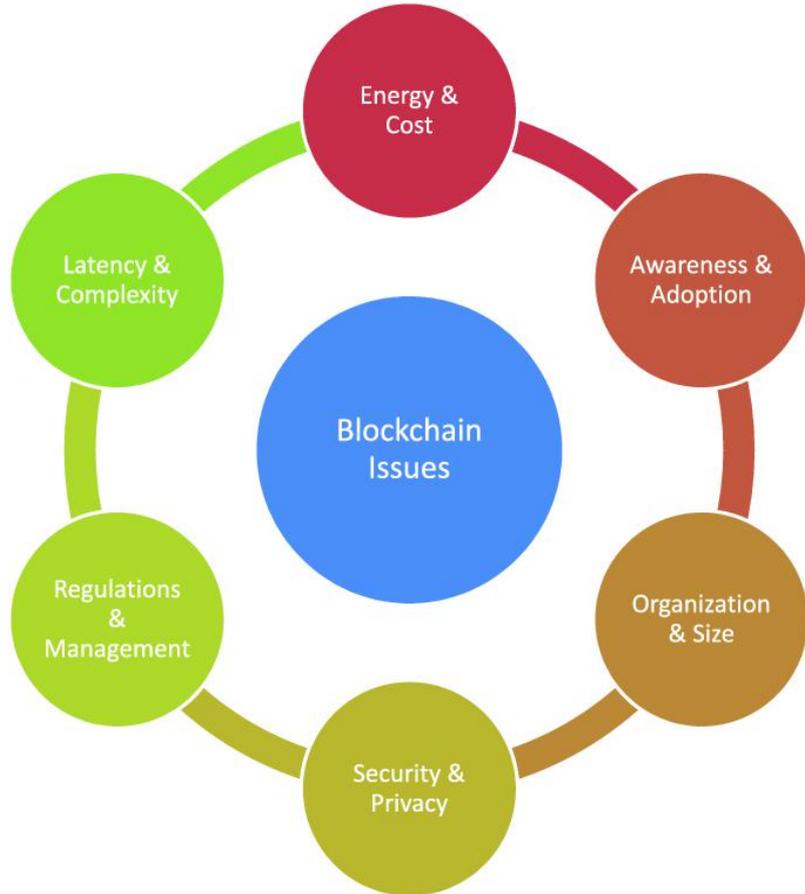




## GRANTED CUSTODY

Assets can be stored inside their owners wallet or trusted third party wallets.

In both cases, NDL guarantees, at all levels, that only the legitimate owner of a digital asset can access or manipulate it.



## NDL ADVANTAGES

- Real time transaction processing.
- No network node workload is wasted (Green IT).
- Assets are confidently self-described.
- No consensus algorithm.
- As scalable as the Internet is.
- Empowers users and data owners.



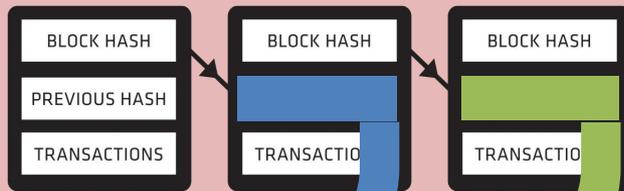
NDL brings together asset record and transfer (Layer 1), custody (Layer 2) and network interoperability (Layer 3) in a single platform.

## TOKENS

**PUBLIC  
FIELDS**



**PRIVATE  
FIELDS**



**Assets are implemented as portable blockchains.**

Asset creator defines its shape and future owner privileges.

Assets may evolve in time.

Asset evolution is signed by a lot of trusted and random wallets in the network.

## TOKENS

**PUBLIC  
FIELDS**



**PRIVATE  
FIELDS**



Images, documents, video, even 3D liveness, voice or footprint patterns, almost anything you can think of can be added to identity digital assets.

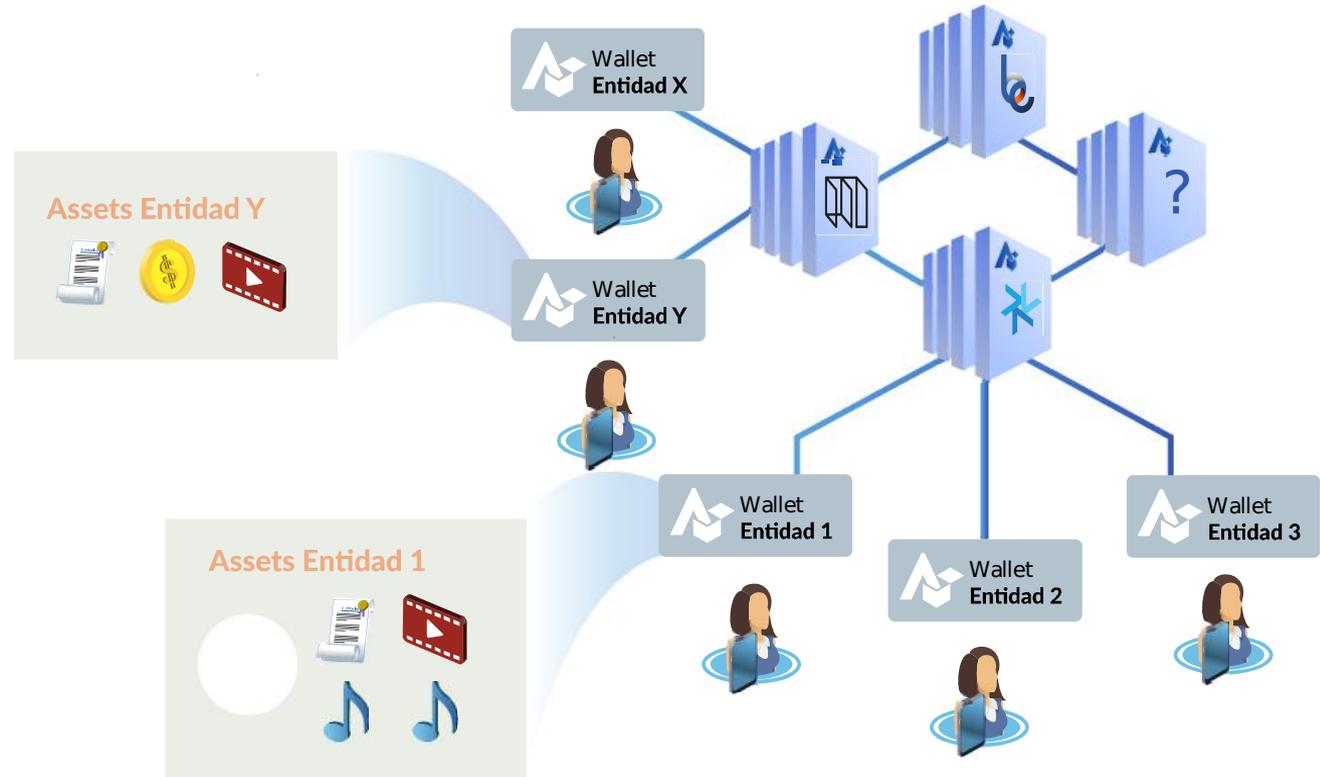




The lifecycle of each asset ends when it is consumed; that is, it is deleted from the hosting wallet and so the network forgets its existence.

NDL accomplishes with all premises and requirements of European legislation regarding the processing of personal data.

NDL allows versatile and complex identity assets that can be stored by the competent authorities, by citizens or by both parties at the same time.



**BEST BET TO BUILD DIGITAL IDENTITIES**



