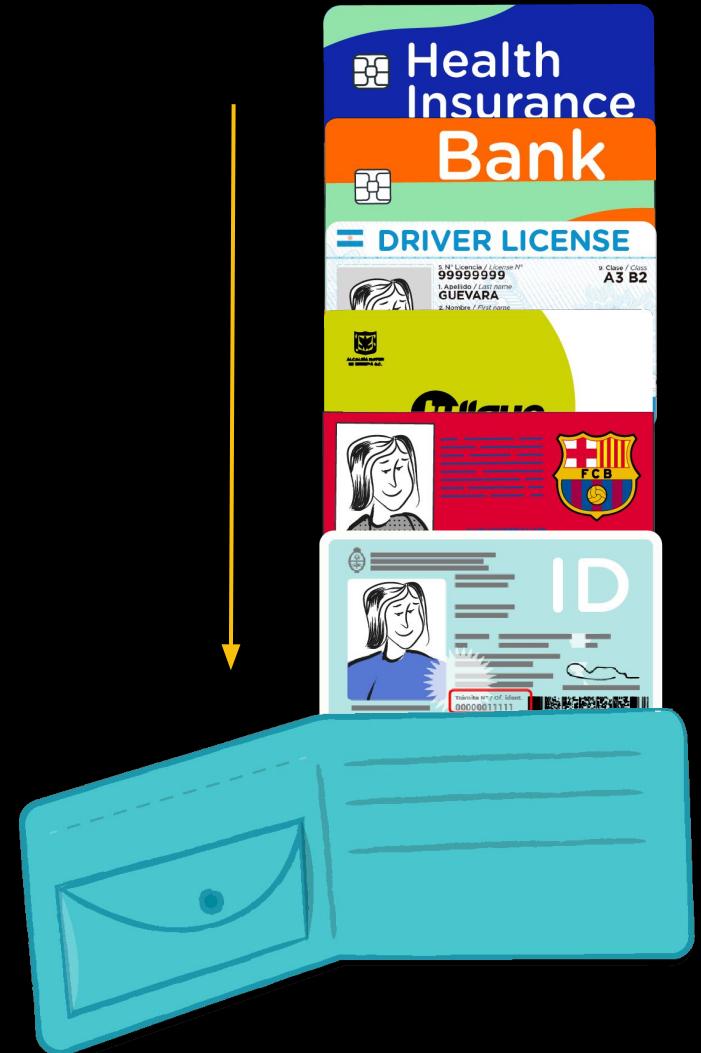
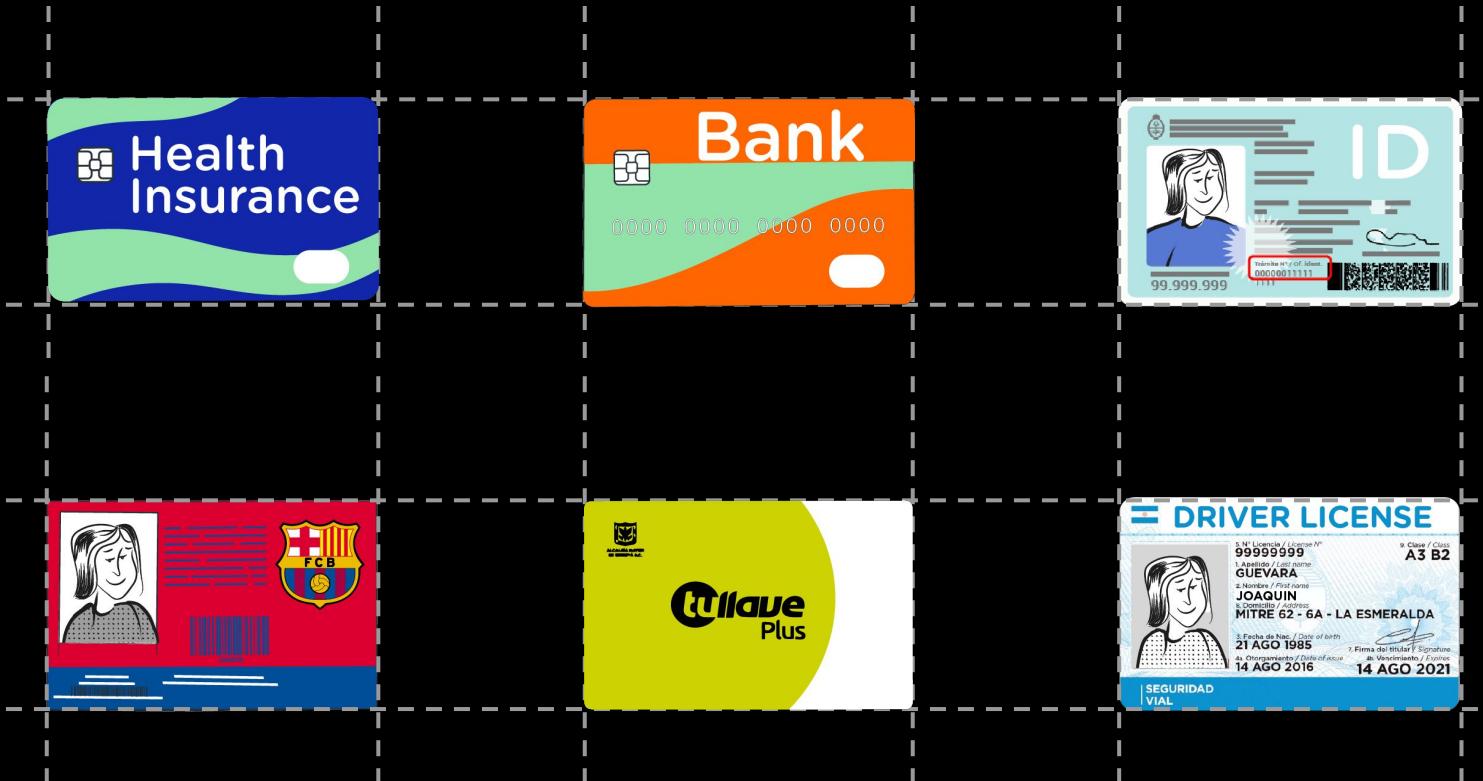


# Self-Sovereign Digital Identity

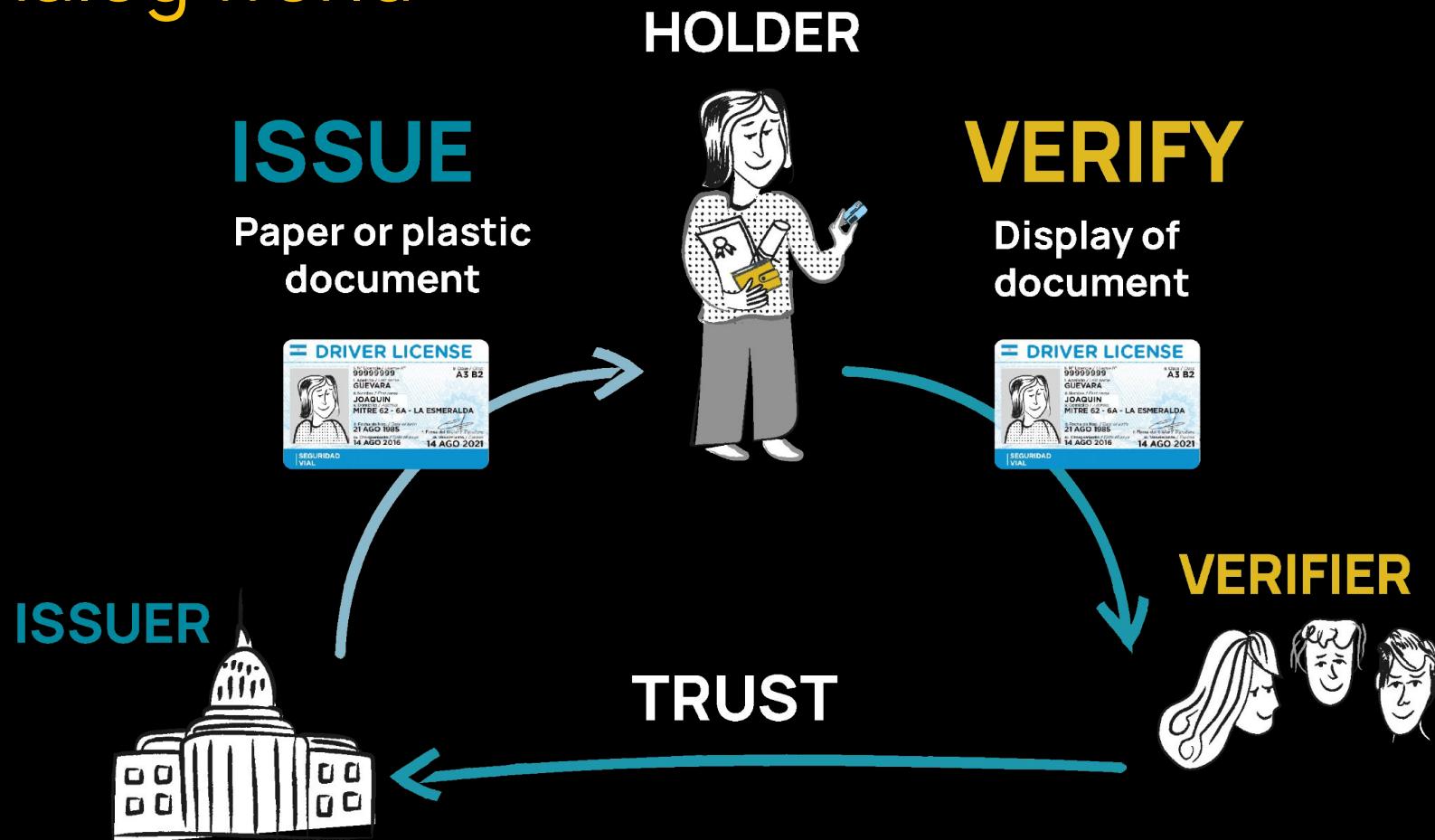
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# Let's think of our physical wallets



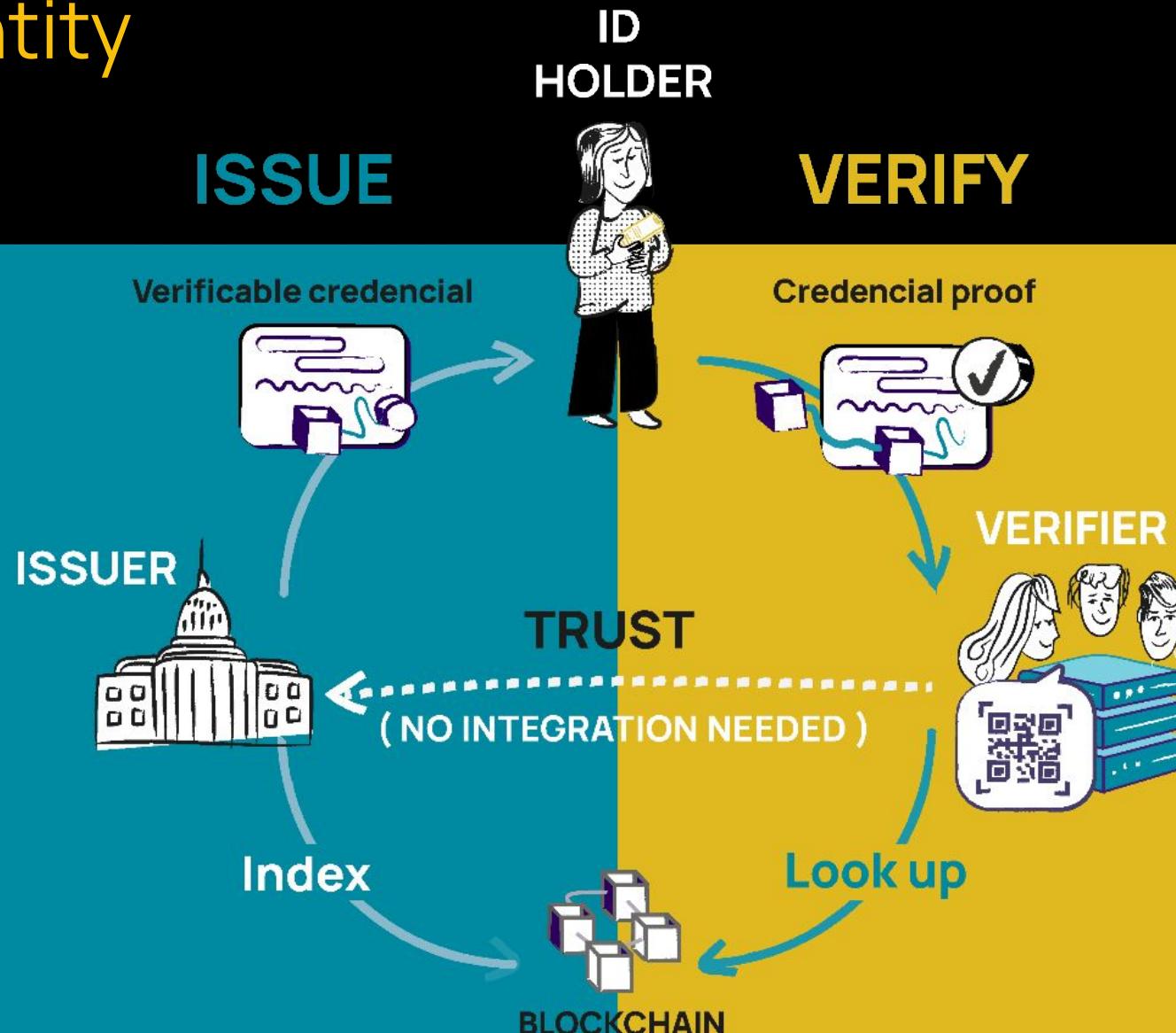
# How do we prove aspects of our identity in the analog world





We don't yet have a  
Digital ID primitive

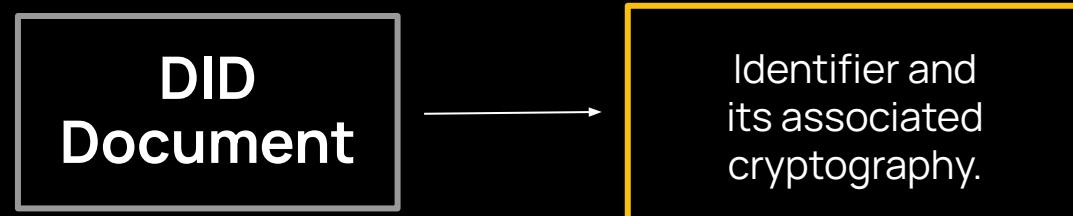
# Self-Sovereign Digital Identity



# On-chain or off-chain?



On-Chain



e.g:

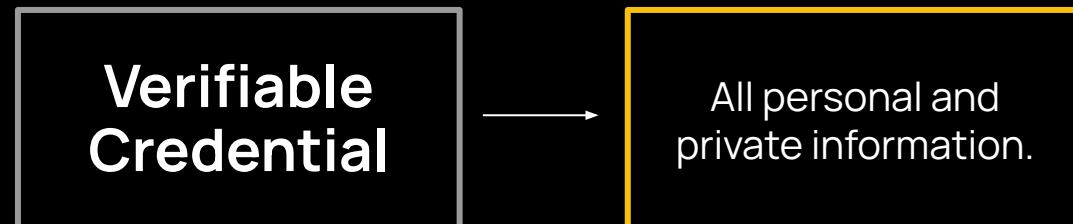
DID:QuarkID:Starknet:12wdj456ce89asfhs

DIDmethod Network Identifier

Where to find  
your public key

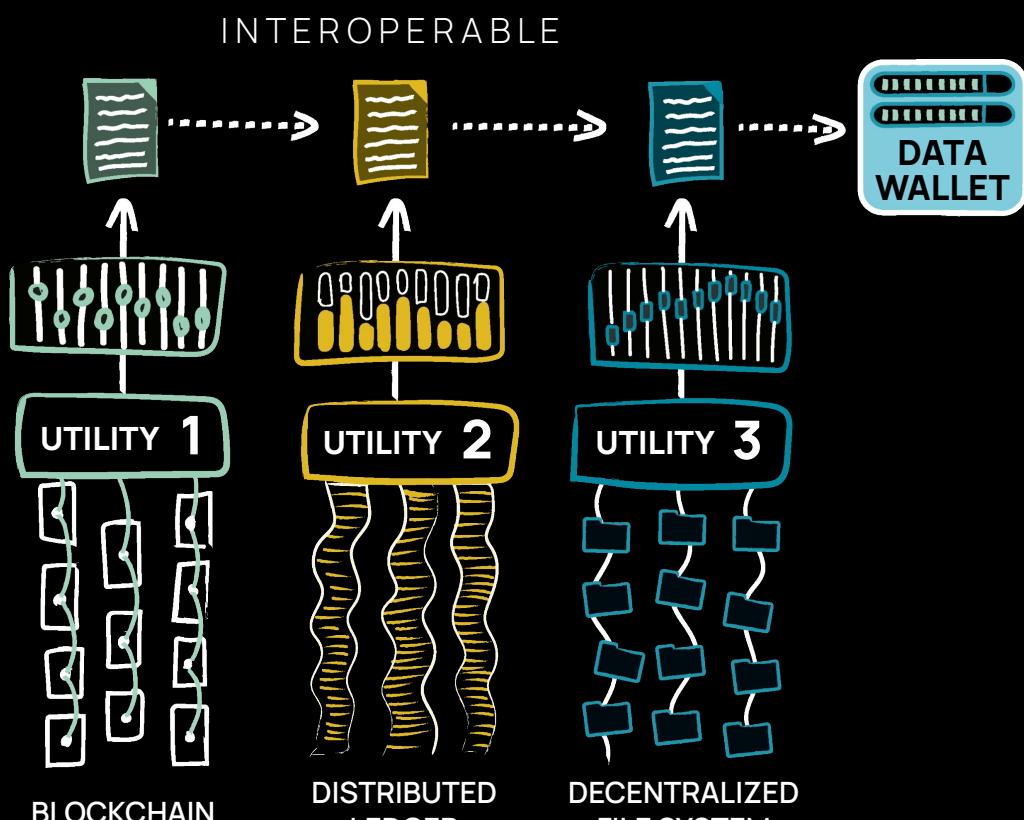
Pseudonymous  
ID for holder

Off-Chain



# TECHNOLOGY

# GOVERNANCE

			ECOSYSTEM FRAMEWORKS
4	APPLICATION ECOSYSTEM		CREDENTIAL FRAMEWORKS
3	DATA EXCHANGE PROTOCOLS		AGENT FRAMEWORKS
2	PEER-TO-PEER PROTOCOLS		
LEVEL	<b>1 PUBLIC UTILITIES</b>		<b>UTILITY FRAMEWORKS</b>
	Decentralized Identifiers (DIDs)		
	DID Methods		
	Credential Types		
	Decentralized Record-keeping Technologies		

# TECHNOLOGY

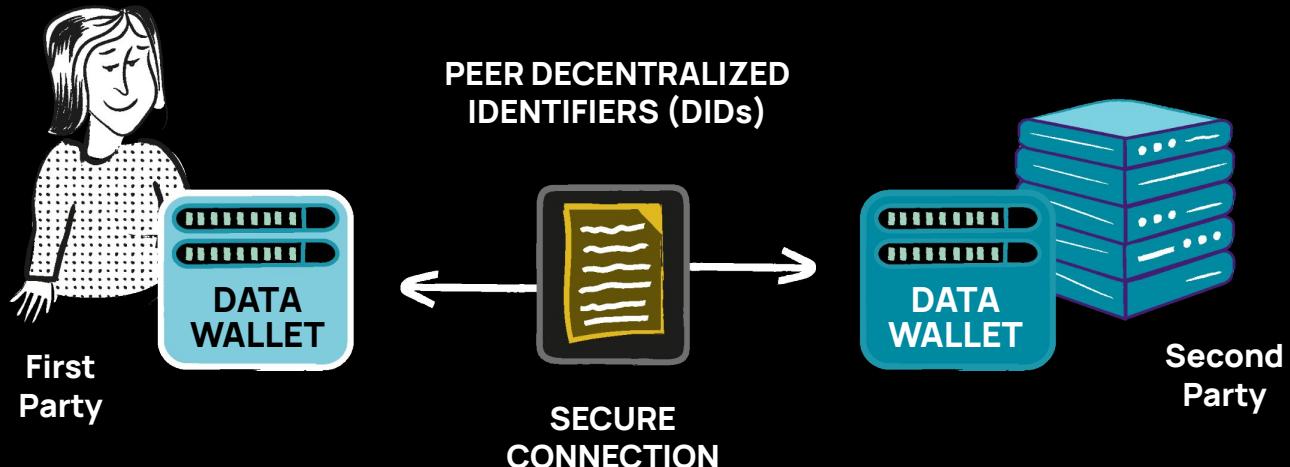
# GOVERNANCE

LEVEL

**2 PEER-TO-PEER PROTOCOLS**

CEREMONY

EXCHANGE



4 APPLICATION ECOSYSTEM

3 DATA EXCHANGE PROTOCOLS

ECOSYSTEM FRAMEWORKS

CREDENTIAL FRAMEWORKS

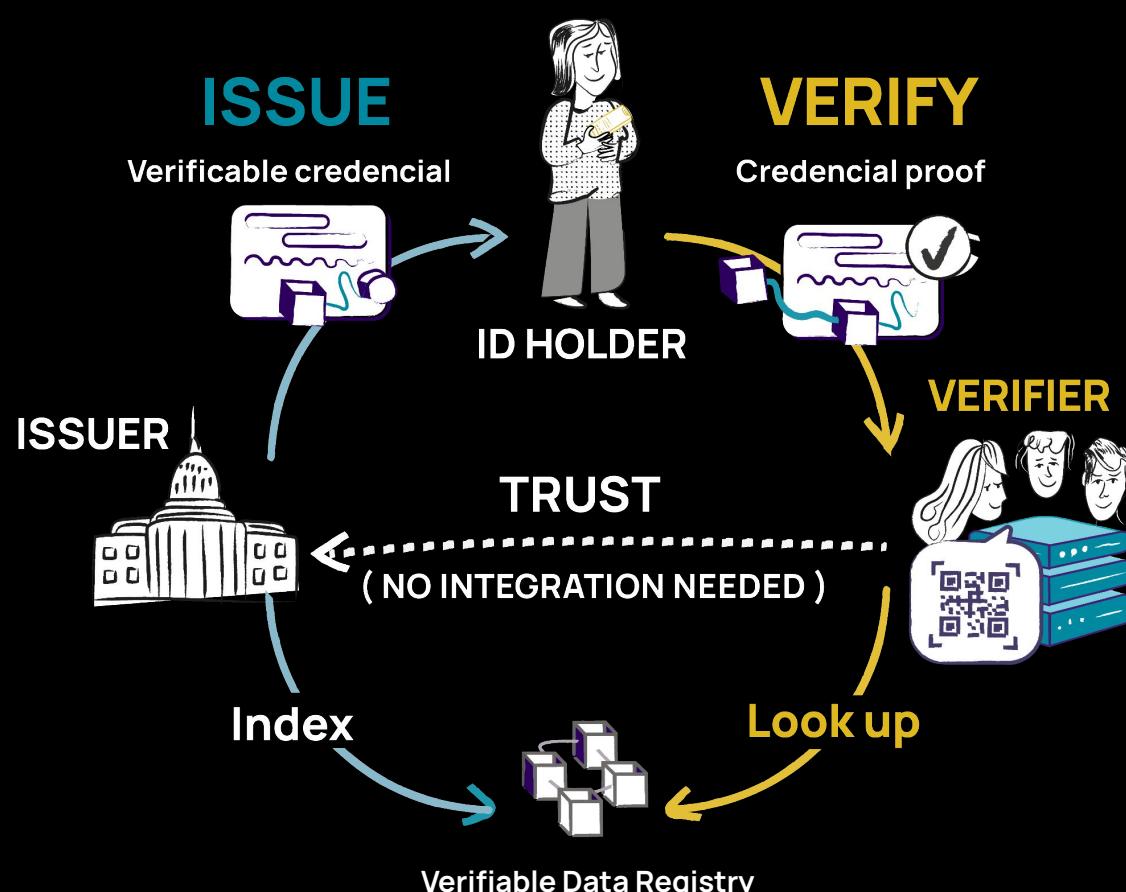
AGENT FRAMEWORKS

1 PUBLIC UTILITIES

UTILITY FRAMEWORKS

# TECHNOLOGY

# GOVERNANCE

	LEVEL	APPLICATION ECOSYSTEM	ECOSYSTEM FRAMEWORKS
4	3	<p><b>DATA EXCHANGE PROTOCOLS</b></p>  <pre> graph LR     ISSUER[ISSUER] -- "Index" --&gt; INDEX[Verifiable Data Registry]     IDHOLDER[ID HOLDER] -- "Look up" --&gt; INDEX     INDEX -- "Trust (NO INTEGRATION NEEDED)" --&gt; VERIFIER[VERIFIER]     IDHOLDER -- "Verifiable credential" --&gt; VERIFIER     VERIFIER -- "Credential proof" --&gt; PROOF[Verifiable Data Registry]   </pre> <p><b>ISSUE</b> Verifiable credential</p> <p><b>VERIFY</b> Credential proof</p> <p><b>TRUST</b> ( NO INTEGRATION NEEDED )</p> <p><b>ID HOLDER</b></p> <p><b>VERIFIER</b></p> <p><b>Index</b></p> <p><b>Look up</b></p> <p><b>Verifiable Data Registry</b></p>	CREDENTIAL FRAMEWORKS
2		PEER-TO-PEER PROTOCOLS	AGENT FRAMEWORKS
1		PUBLIC UTILITIES	UTILITY FRAMEWORKS

## TECHNOLOGY

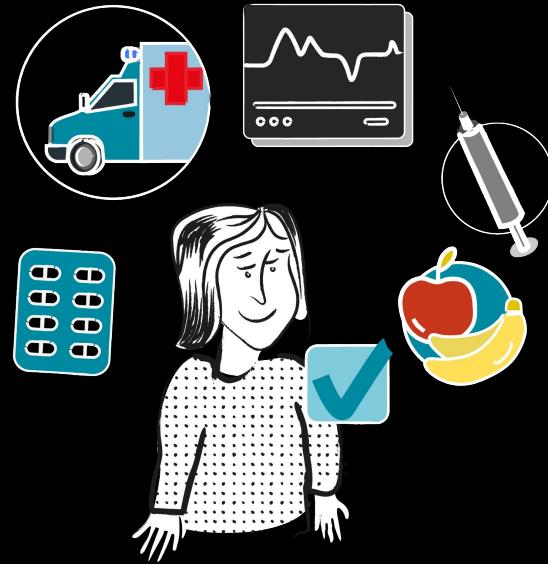
## GOVERNANCE

LEVEL

4

APPLICATION ECOSYSTEM

ADOPTION



HEALTH PASS

Ecosystem Example

3 DATA EXCHANGE PROTOCOLS

CREDENTIAL FRAMEWORKS

2 PEER-TO-PEER PROTOCOLS

AGENT FRAMEWORKS

1 PUBLIC UTILITIES

UTILITY FRAMEWORKS

# QuarkID Self sovereign ID Protocol

## Standards



**DIF**



**TRUST**  
Over IP  
FOUNDATION



**OpenID**  
Connect

## Interoperability



**NGI**

ESSIF-LAB



**sovrin**

identity for all



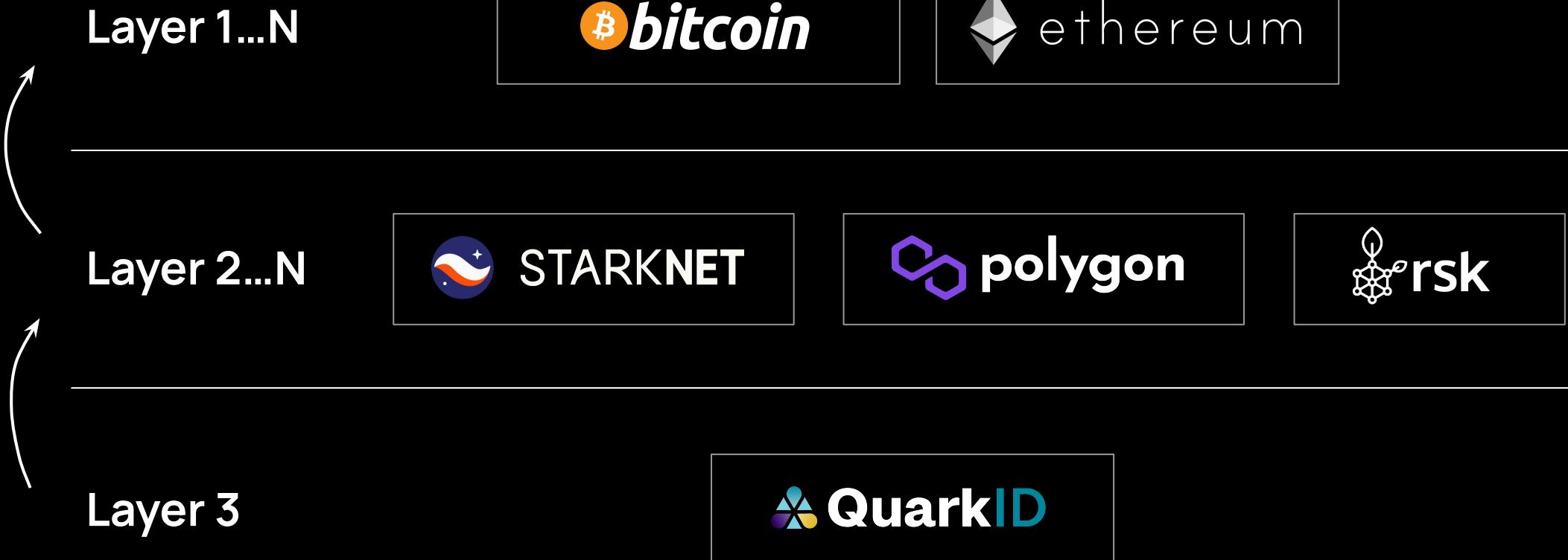
**ION**



**ID**  
union



# QuarkID approach model in layers



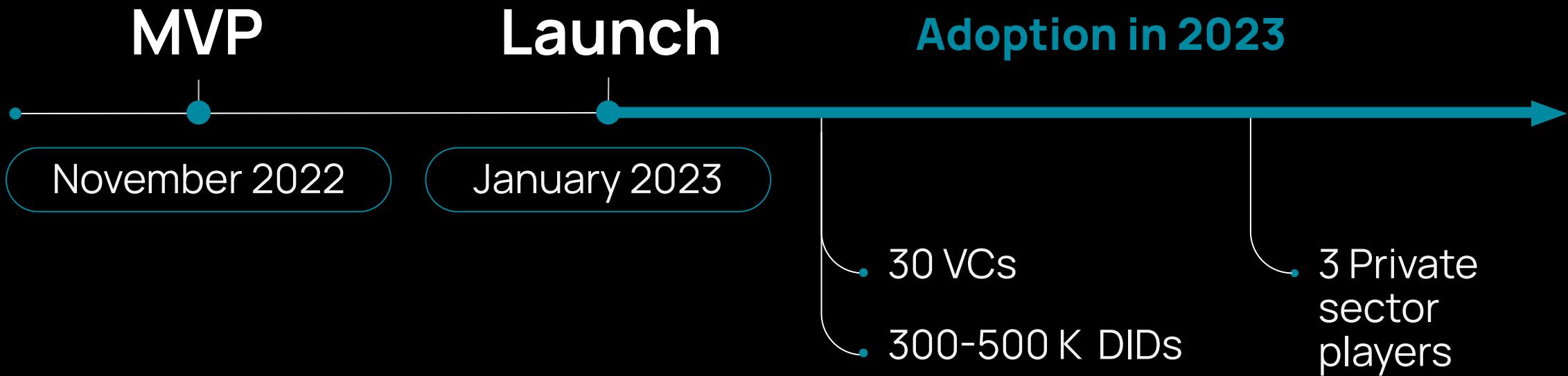
# QuarkID an Ecosystem

---

## Partners



# QuarkID in Buenos Aires City





# QuarkID in a nutshell

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1. Open standards SSI protocol
2. Multi chain
3. Interoperable
4. Private data off-chain
5. Autonomous governance
6. A growing public/private ecosystem
7. Government as a user vs. Government's user

# Why did we chose this path?

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Proving positives or negatives,  
that's the dilemma

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In our view

1. Self ownership and positive reputational systems first...
2. ...negatives came afterwards

# ¡Thank you!

[www.Quark\*\*ID\*\*.org](http://www.QuarkID.org)

 @BAinnovacion

 @fernandezdiego