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DATA CONNECTED

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How Data Governance works in Enterprise

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Garbage in, garbage out



Value of Data to Blockchain

- **Veracity** or the truthfulness of the data, or how accurately it portrays the objective reality.
- **Provenance** or the source and history of a piece of data, it tells you where / what / who generated the data and how it had been handled since generation.
- **Immutability** or the un-changeability of the data, or that the data cannot be tampered with once generated.

Converting to Blockchain value :

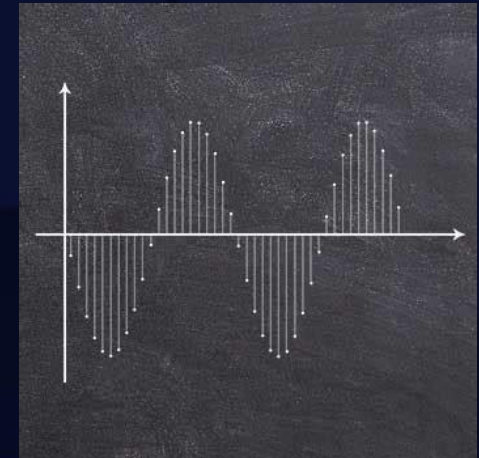
- **Veracity** is guaranteed through consensus
- **Provenance** is guaranteed through cryptographic signatures
- **Immutability** is guaranteed through full state replication across nodes

But there is a catch

- How to ensure that data is secure and authentic?
 - Find the source:
 - Identity
 - Processing & Transmission
 - Digital/Analog interface



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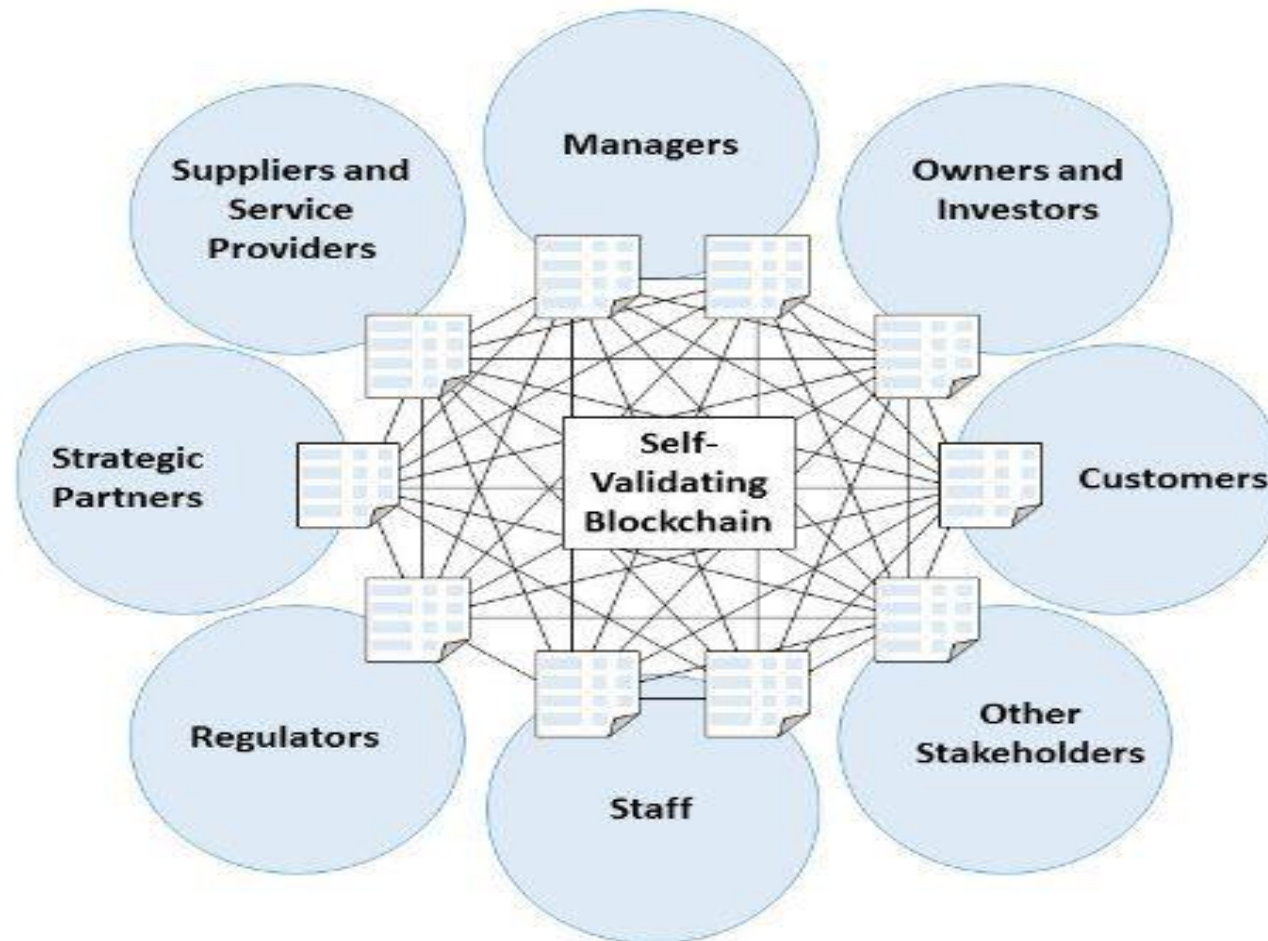
Data Governance

**Data governance is critical to any
blockchain initiative, experts say**

What is Data Governance?

By definition, governance of enterprise data encompasses the policies and procedures that are implemented to ensure an organization's data is accurate to begin with – and then handled properly while being input, stored, manipulated, accessed, and deleted. Data governance responsibilities include establishing the infrastructure and technology, setting up and maintaining the processes and policies, and identifying the individuals (or positions) within an organization that have both the authority and responsibility for handling and safeguarding specific types of data.

Data Governance and Blockchain



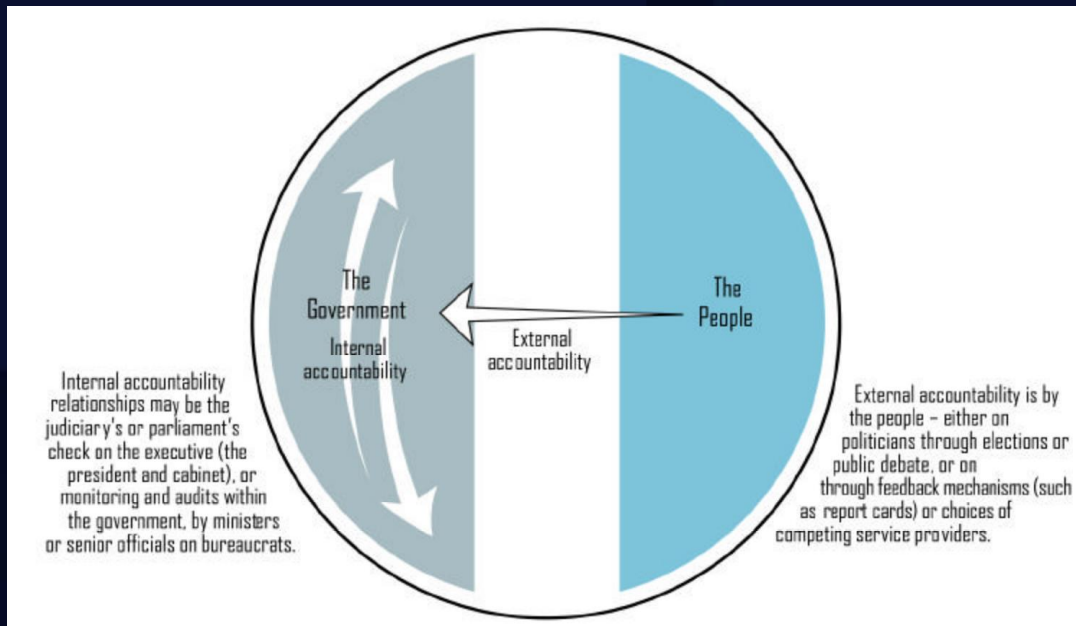
Fundamentals

1. Rules for inputting and maintaining data (accepted definitions, stylistic rules, etc.)
2. Enforcement of those rules (what happens when someone inputs a State as MI instead of Michigan? Will the system correct this or nudge someone in the right direction? It should. Are people aware which form of “state” is correct? They should be.)
3. Management of the data - data stewards and users within the company working on the data in accordance with those laws.

Connecting the Data Governance to Data Blockchain Storage Initiative

Types of Governance:

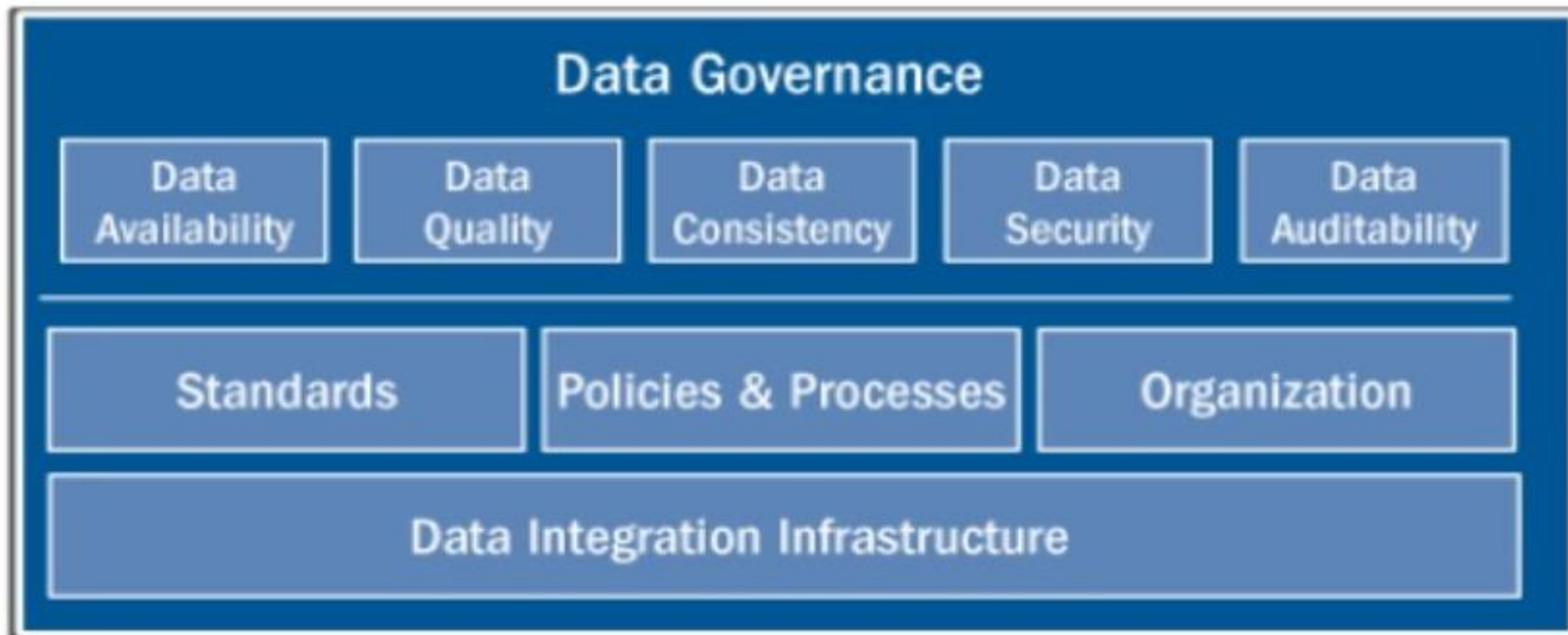
- Direct Governance
- Representative Governance



Elements of Blockchain Governances

1. Consensus
2. Incentives
3. Information
4. Governing Structure

Integration & Data Governance



Connecting to P2P Protocols

- Storage and network protocols allow:
 - Ensure data accuracy
 - Data Reliability
 - Data transparency
 - Encryption

P2P addresses:

- Latency
- Security
- Data integrity

SNIA INTEROPERABILITY BLOCKCHAIN PROTOCOL

Requestor/Host

Application Layer – Smart Contracts

ETH/RIP/LES

P2P Protocol

Fabric (TCP/IP, UDP, FC)

PHY

Application Layer – Smart Contracts

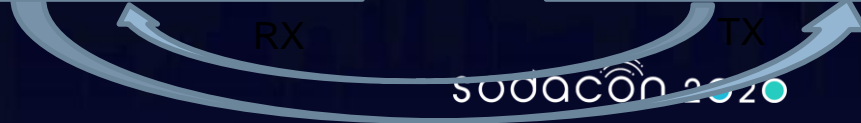
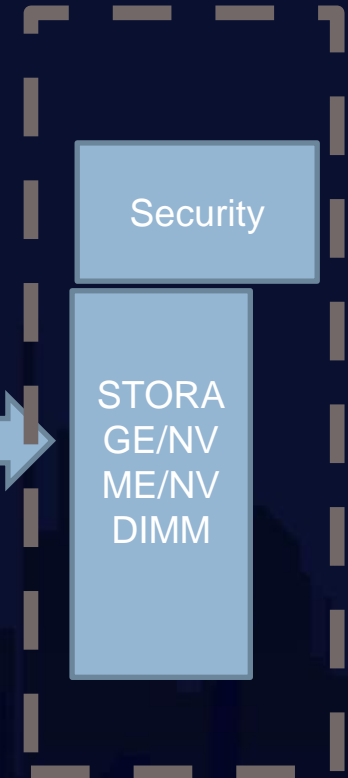
ETH/RIP/LES

P2P Protocol

Fabric (TCP/IP, UDP, FC)

PHY

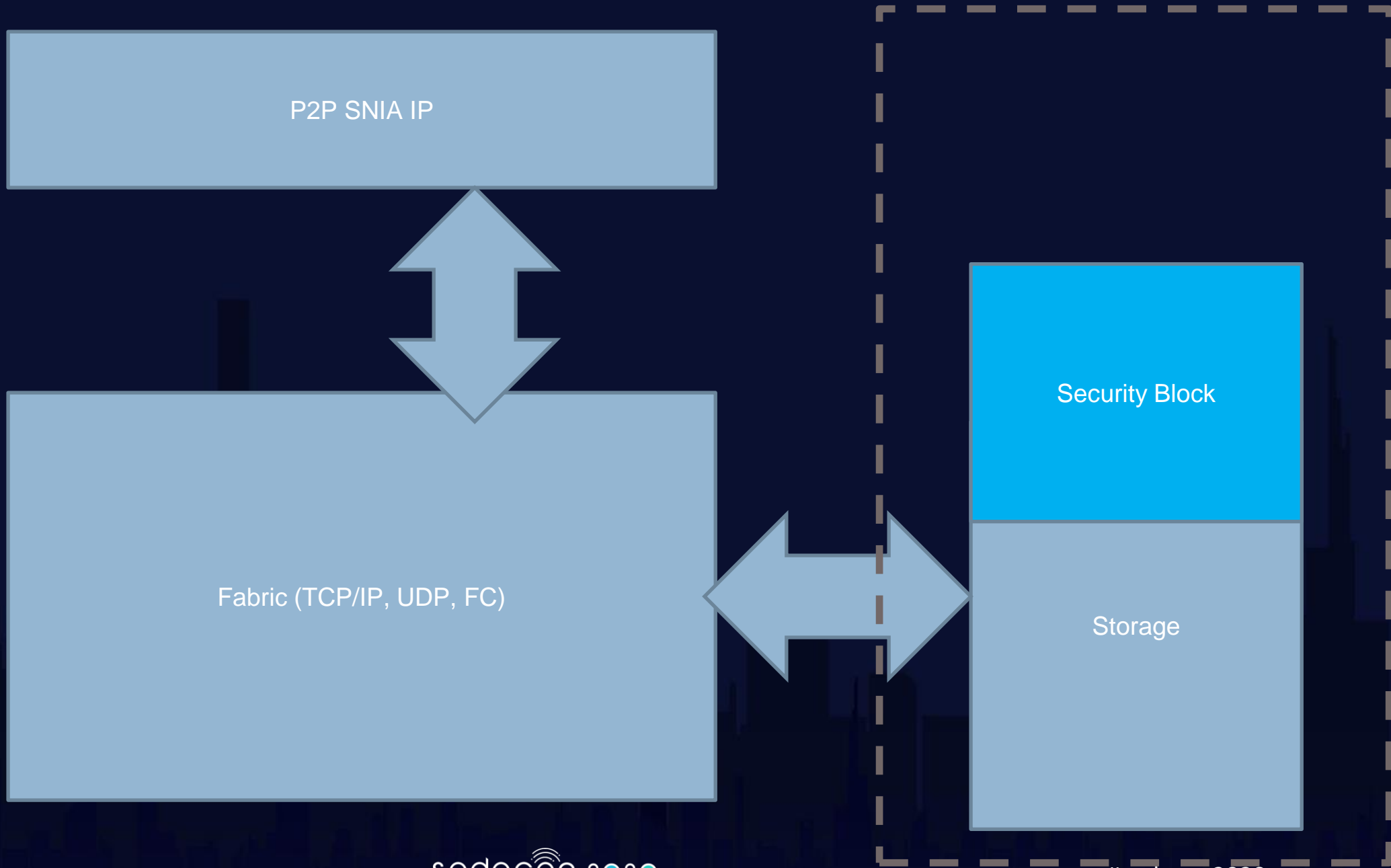
Client/Target



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SNIA IP INTERFACE



CALL TO ACTION

- JOIN [SNIA.ORG/BLOCKCHAIN](https://snia.org/blockchain) to participate in the interoperability standards for networking and storage definitions

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Questions & Answers

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