LSO Blockchain

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LSO & Automation

BUYER   **SELLER / BUYER**   **SELLER**

LSO APIs   LSO APIs

Lifecycle Service Orchestration

LSO
Enables automation among multi-party supply chains
Final goal is fast, error-free, fair transactions

LSO APIs
Enable standardized business and operational information
flow between Buyers and Sellers via m2m interfaces

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LSO & Automation

BUYER **SELLER / BUYER** **SELLER**

LSO APIs

LSO APIs

? **?**

Consistency

LSO
Cannot ensure that the information calculated and stored within the systems of the Buyer and Seller respectively are consistent

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LSO & Automation

BUYER

SELLER / BUYER

SELLER

LSO APIs

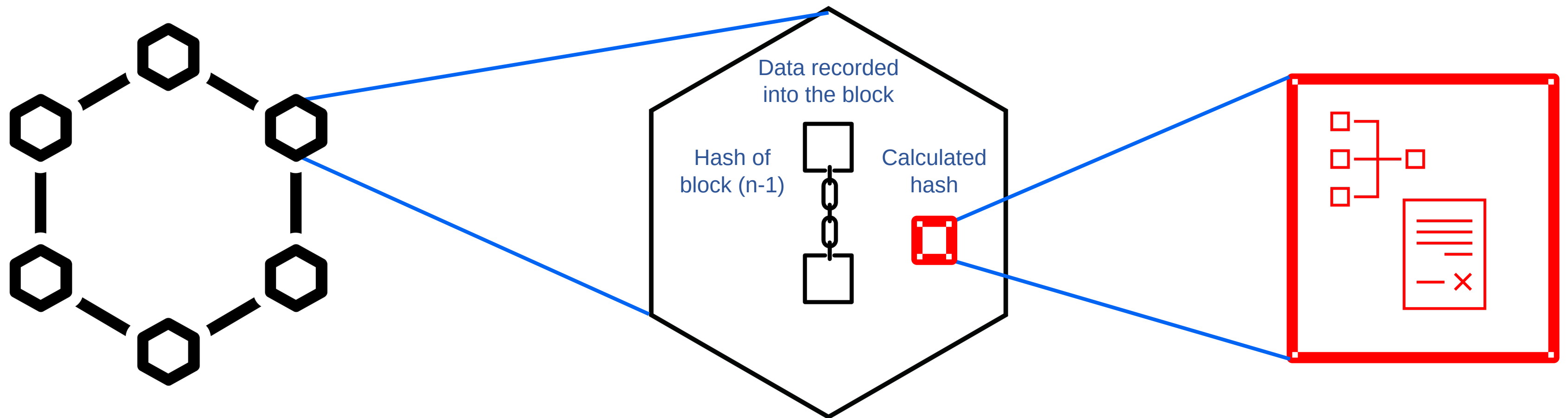LSO APIs

Undisputable Mutual Agreement

Blockchains
- Are shared computer systems that run mutually agreed and trusted software and store shared information
- No software nor the stored shared information can ever be changed
- Frictions reduced

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Blockchain Components

Blockchain

Blockchain node
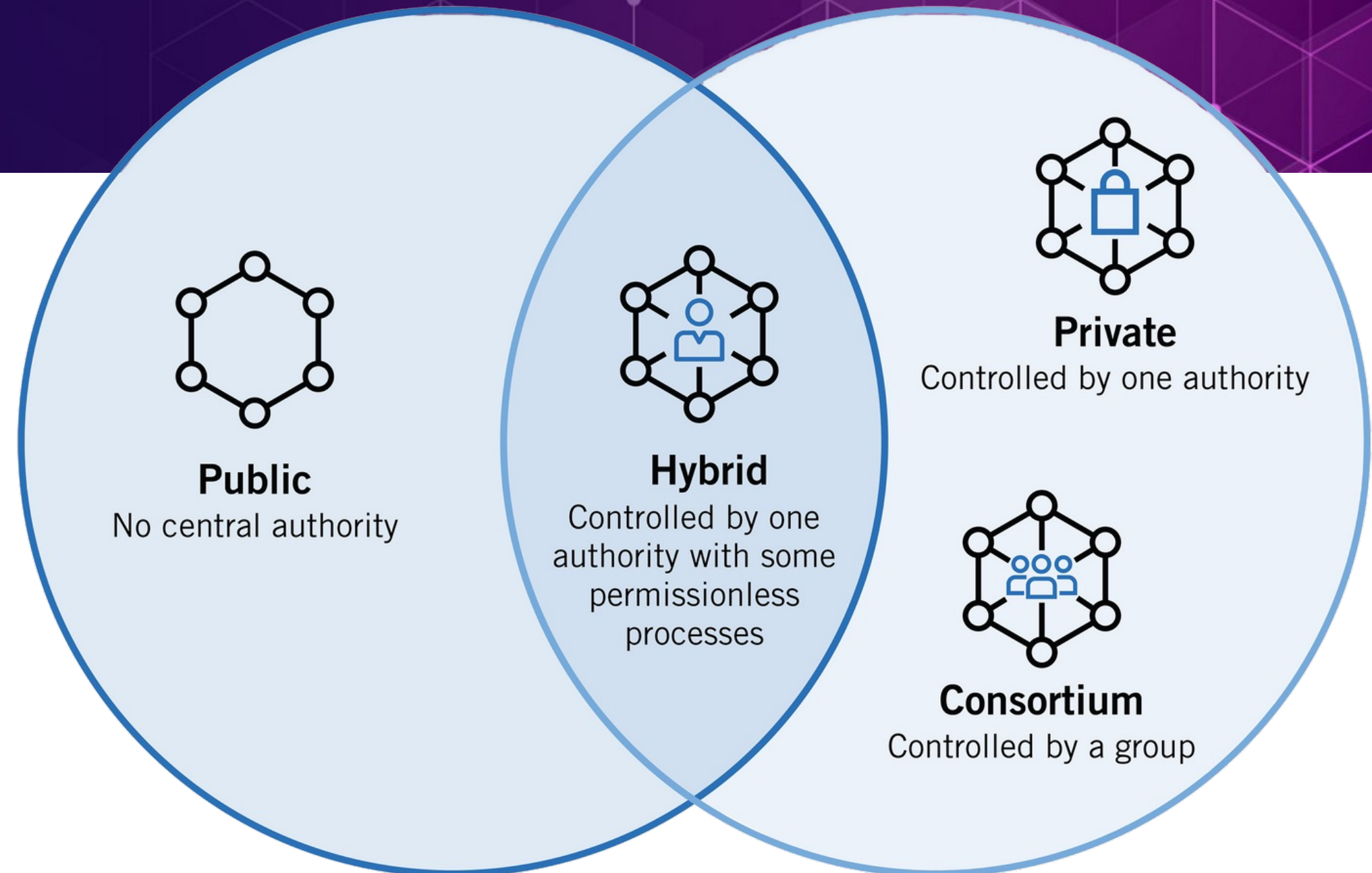
Smart Contract

Data recorded into the block

Hash of block (n-1)

Calculated hash

Blockchain provides immutable, disaggregated and secure environment to record data and run executable contracts

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Trusted Operating Environment

Blockchain Advancements Yield a Real Solution

Zero Knowledge (private) over a public blockchain (secure)

- **Simple:** Cloud-based
- **Secure:** Blockchain-based, highest level of security
- **Trusted:** Mutually-agreed upon smart contracts
- **Private:** Zero Knowledge proofs record truth without exposing private information

Public
No central authority

Hybrid
Controlled by one authority with some permissionless processes

Private
Controlled by one authority

Consortium
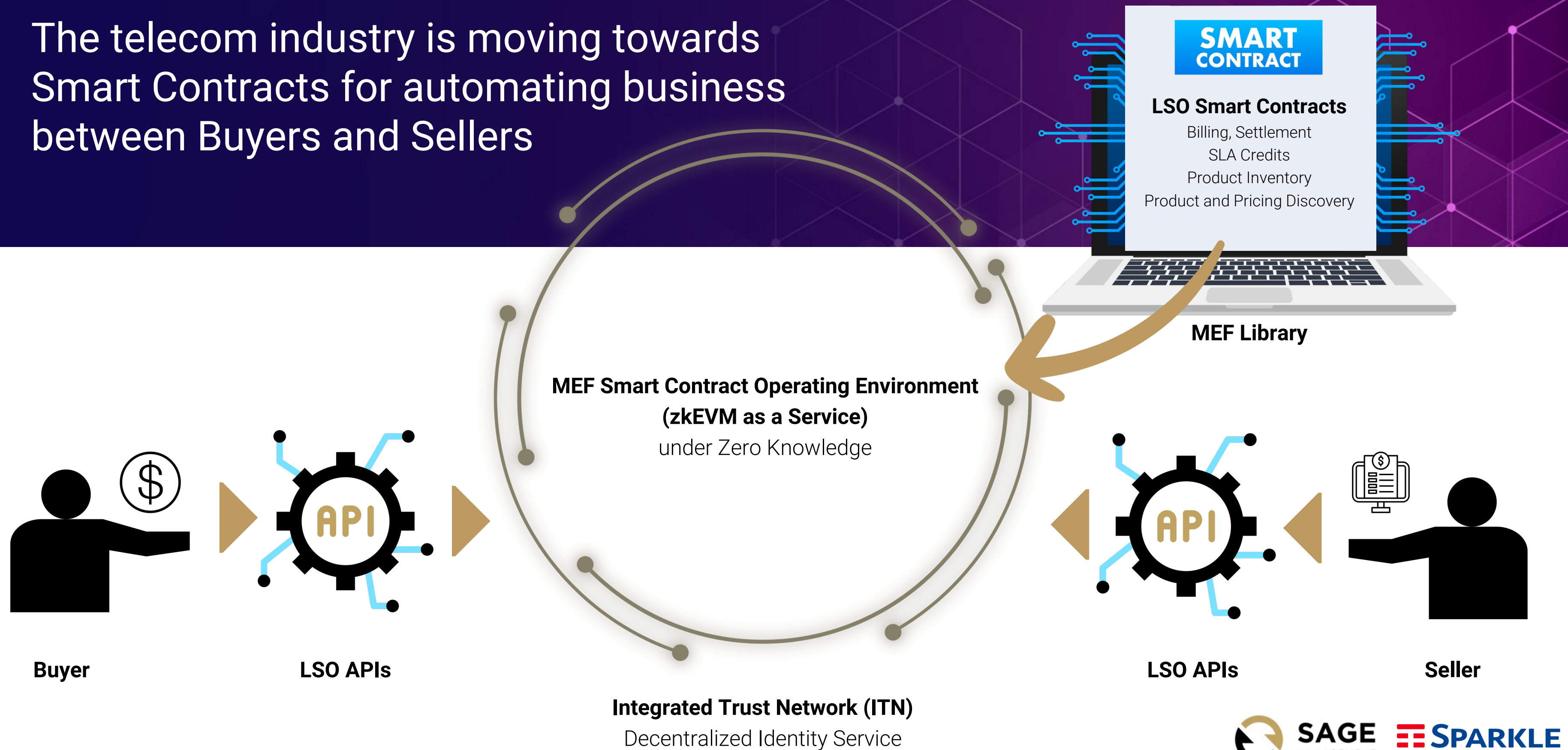Controlled by a group

Blockchain
Technology has met the moment with zkEVM

Why Now?

- Blockchain provides the **immutability** and **security** telecom service providers need, and Zero Knowledge delivers the **privacy** and **scalability**

- **Zero Knowledge** is a game-changer, providing a path to elimination of high-cost back-office functions

- Driven by the largest global telecom service providers who trust the industry forum MEF with advancing **standardized use cases for blockchain**

- Industry push towards fully automated **On Demand Network-as-a-Service**

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Take Aways

Think big, join us!

- Blockchain market estimates foresee 3 Trillions$ by 2030 overall
- Telco industry has already started the journey
- Smart Contracts and Blockchain-based business corporations already in place
- MEF is fostering the adoption of LSO blockchain with the Smart Contract Operating Environment, to allow fair development of automation
- WolfTown and Red Forest showcases aim at exploring the implications of adopting blockchains in the end-to-end Telco supply chain

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