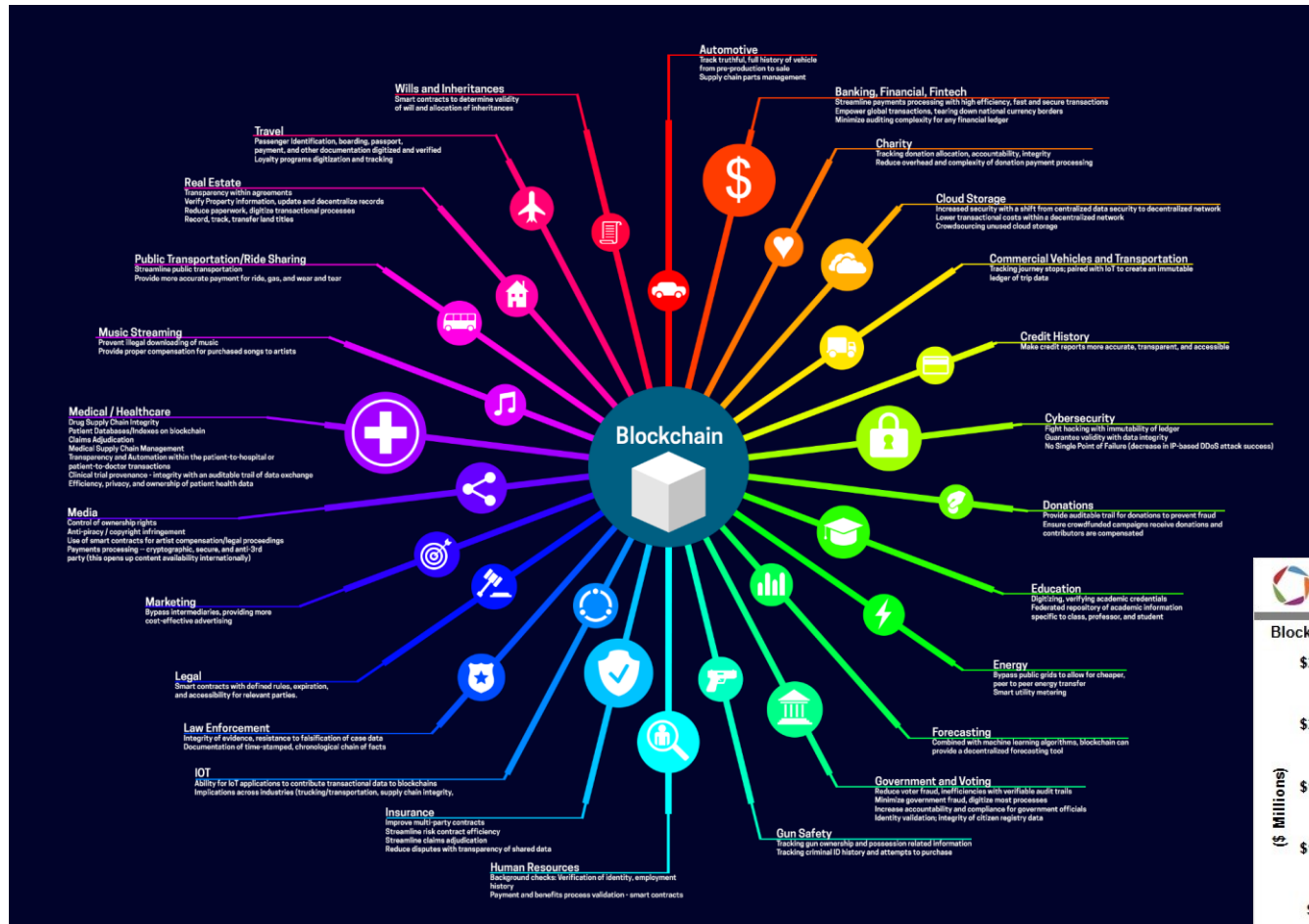


Opportunities and Challenges of Blockchain Development

**Software R&D Center
Blockchain Tech. Lab**

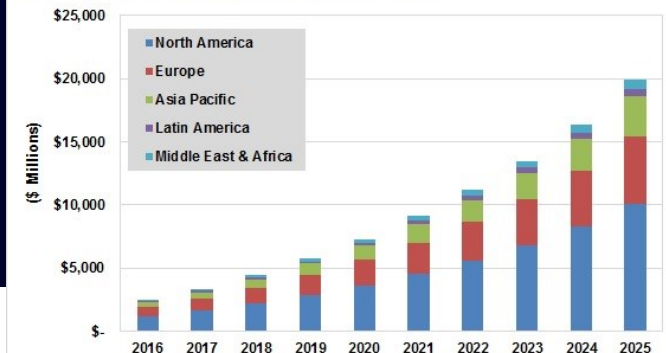
Hyojin Jeong

Blockchain Ecosystem & Future



Tractica

Blockchain Revenue by Region, World Markets: 2016-2025



Source: Tractica

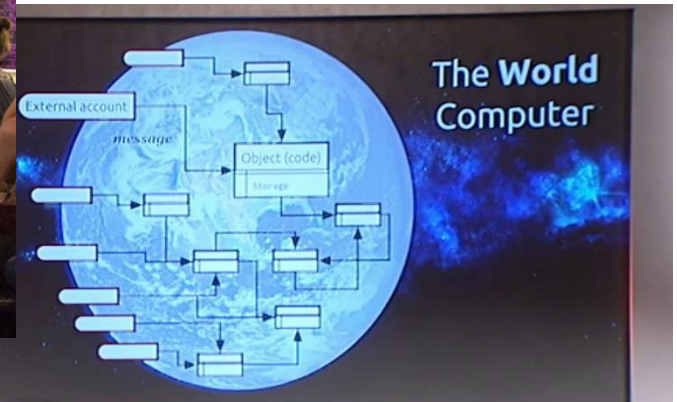
Blockchain Keywords



Who build Blockchain Ecosystem



Ethereum Summit 2018
- Brooklyn NY-



Ethereum DEVCON 2018
- San Jose California-



Why Blockchain Network to build new Economy system

Trusted Transaction

No Third Party Involvement

Reduce Cost

Unalterable Copied only

Real Time Tracking

Transparency

No Single Point of Failure

Based Technical Condition of Blockchain Network

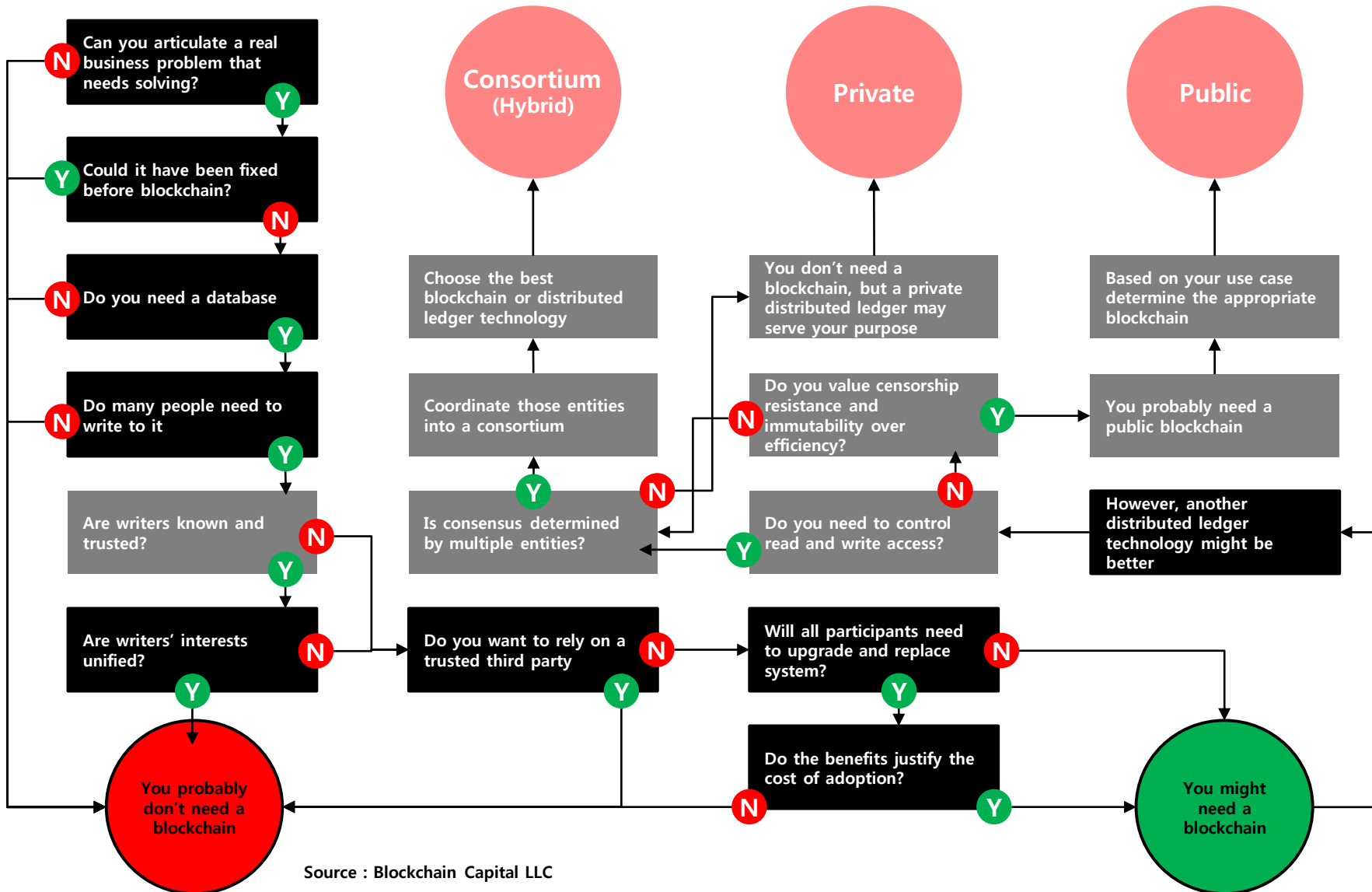
Peer to Peer Network

Distributed Database

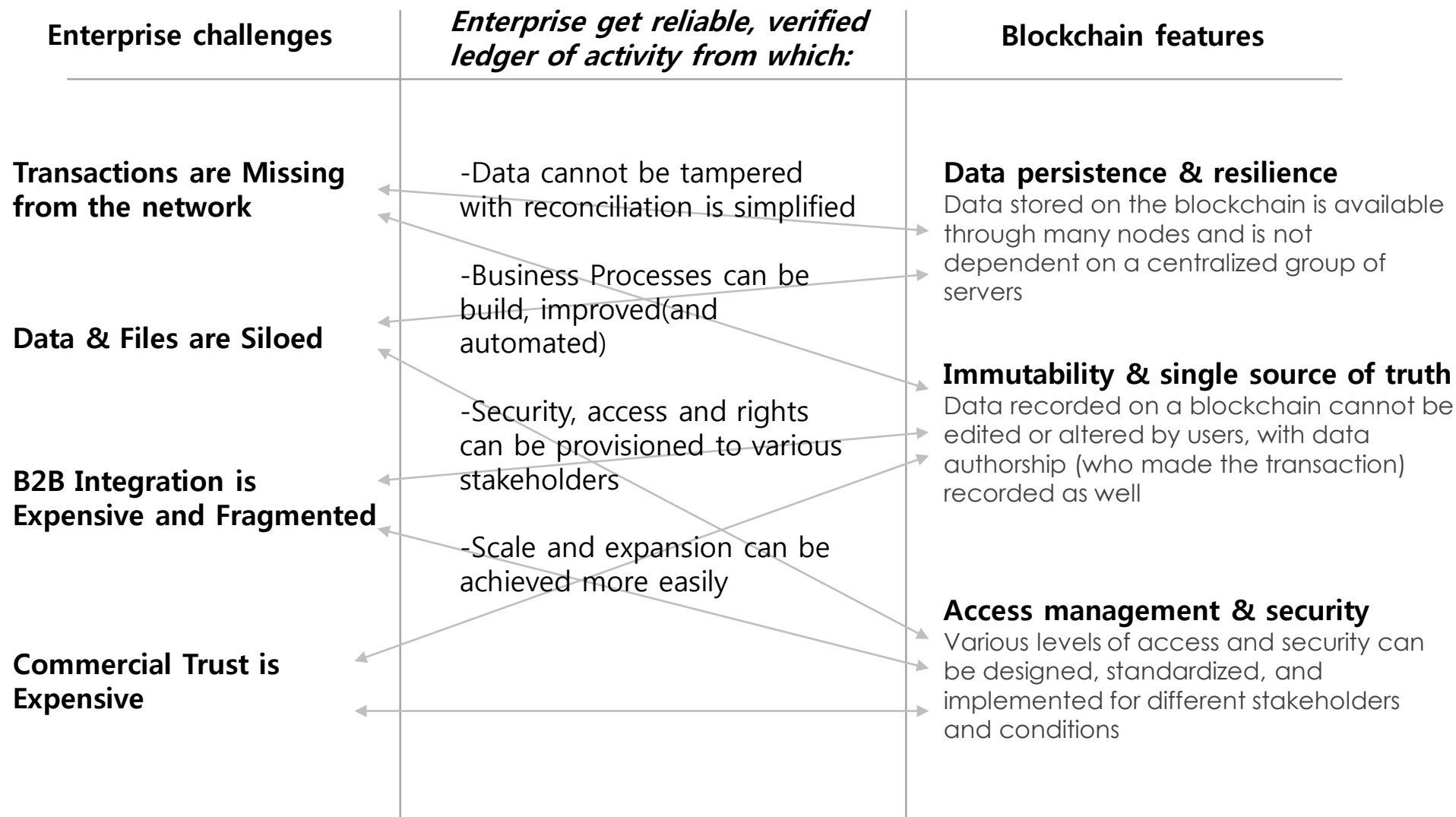
Distributed Computing

Consensus Algorithm

Which kinds of Blockchain Network dose Enterprise need

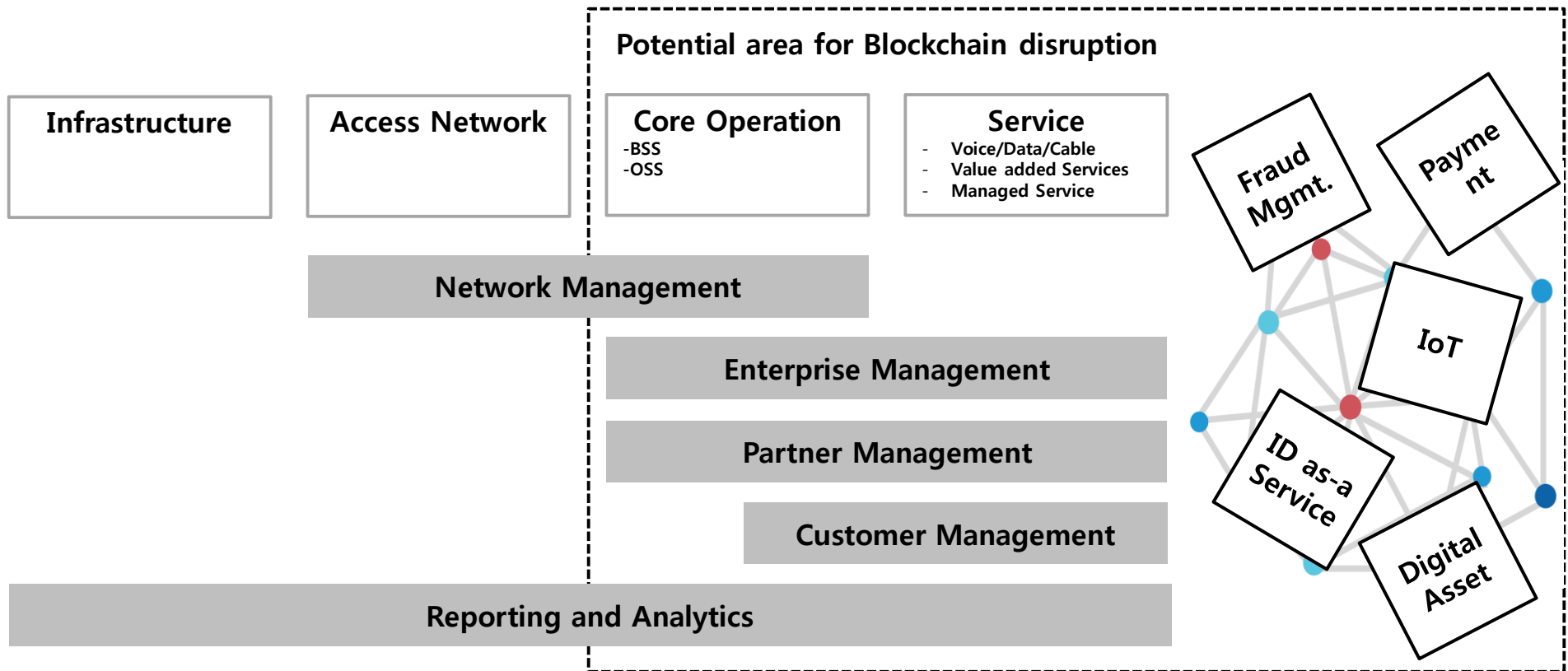


Blockchain features for Current Enterprise challenges



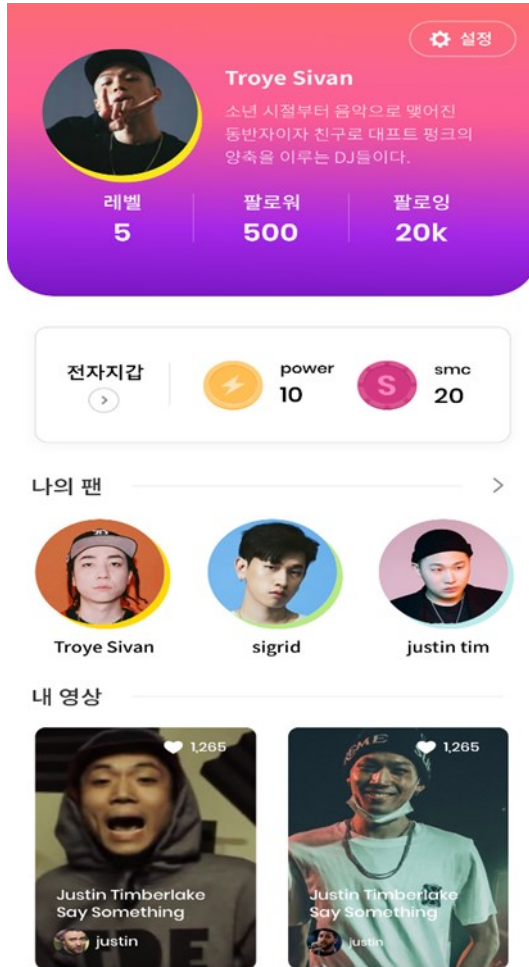
Blockchain Network on the Telecommunication Infrastructure

Blockchain will provide a opportunities in a fields of Fraud Management, Identity-as-a-Service, 5G Enablement and IoT connectivity biz area



SKT Blockchain Biz Model 1 : Music

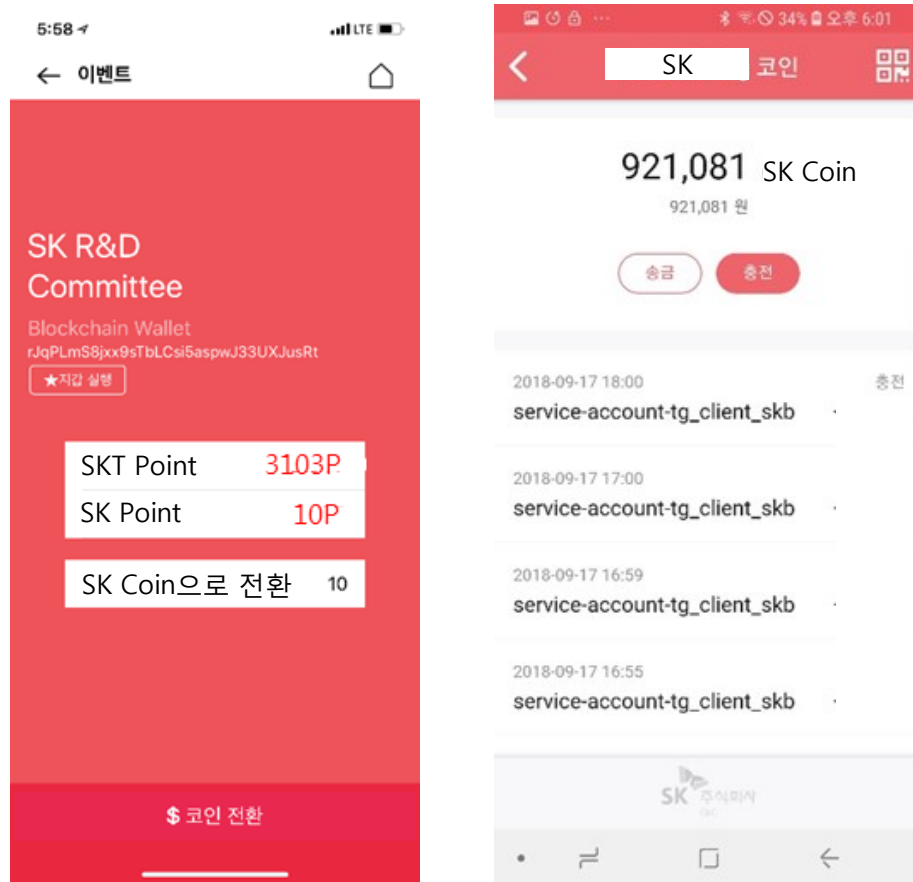
<SKT Blockchain Music Service>



- **Consortium Blockchain Network**
 - SKT Guarantee Blockchain Network operation with related entities
- **Musician Centric Biz Ecosystem**
 - Musician create own biz logic with smart contracts
- **Peer2Peer Token Economy**
 - End users join without third party involvement

SKT Blockchain Biz Model 2 : Payment

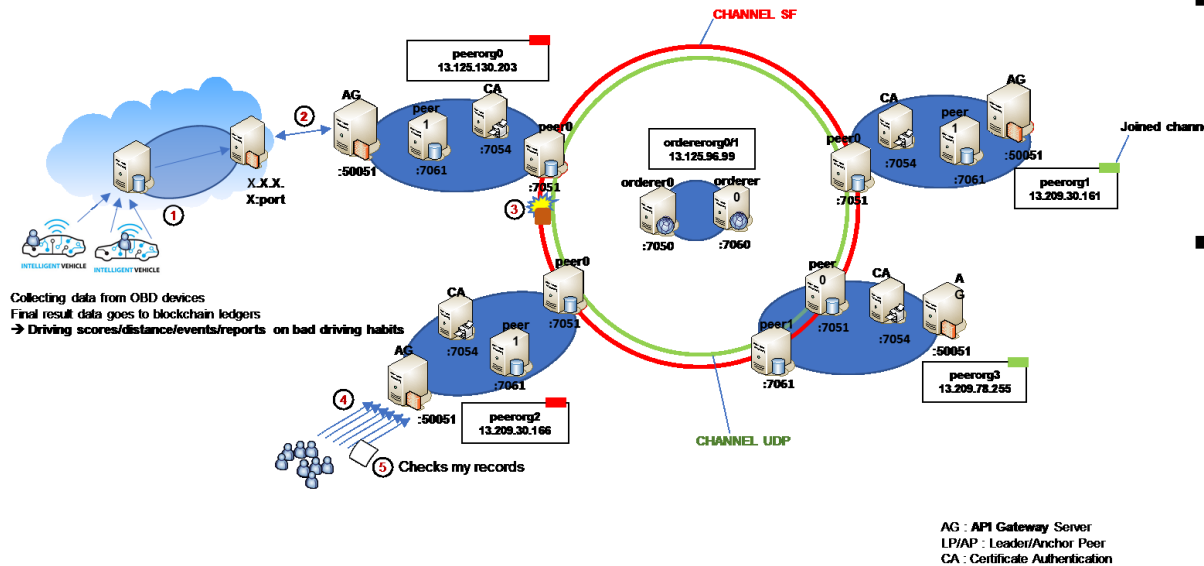
<SK Group Payment>



- **Consortium Blockchain Network**
 - Entities from SK Group operate Blockchain Network
- **SK Group integrated mileage system**
 - SK cryptocurrency can be used in general biz area
- **Peer2Peer Payment**
 - Reduce payment cost from third party involvement

SKT Blockchain Biz Model 3 : IoT

<SKT Vehicle IoT>



■ Consortium Blockchain Network

- Entities related with Smart Fleet Biz operate Blockchain Network

■ Vehicle Information is shared by Blockchain Network

- Blockchain Network guarantee immutable data

■ Scalable Network & Extend Biz Model on the shared Vehicle Information

- New entities make additional value on the decentralized network environment

SKT Blockchain Platform Development

Interchain Platform

Support interoperability of independent, parallel blockchains.
Connect legacy infra structure to blockchain network.
Make new biz model between two blockchain ecosystem.

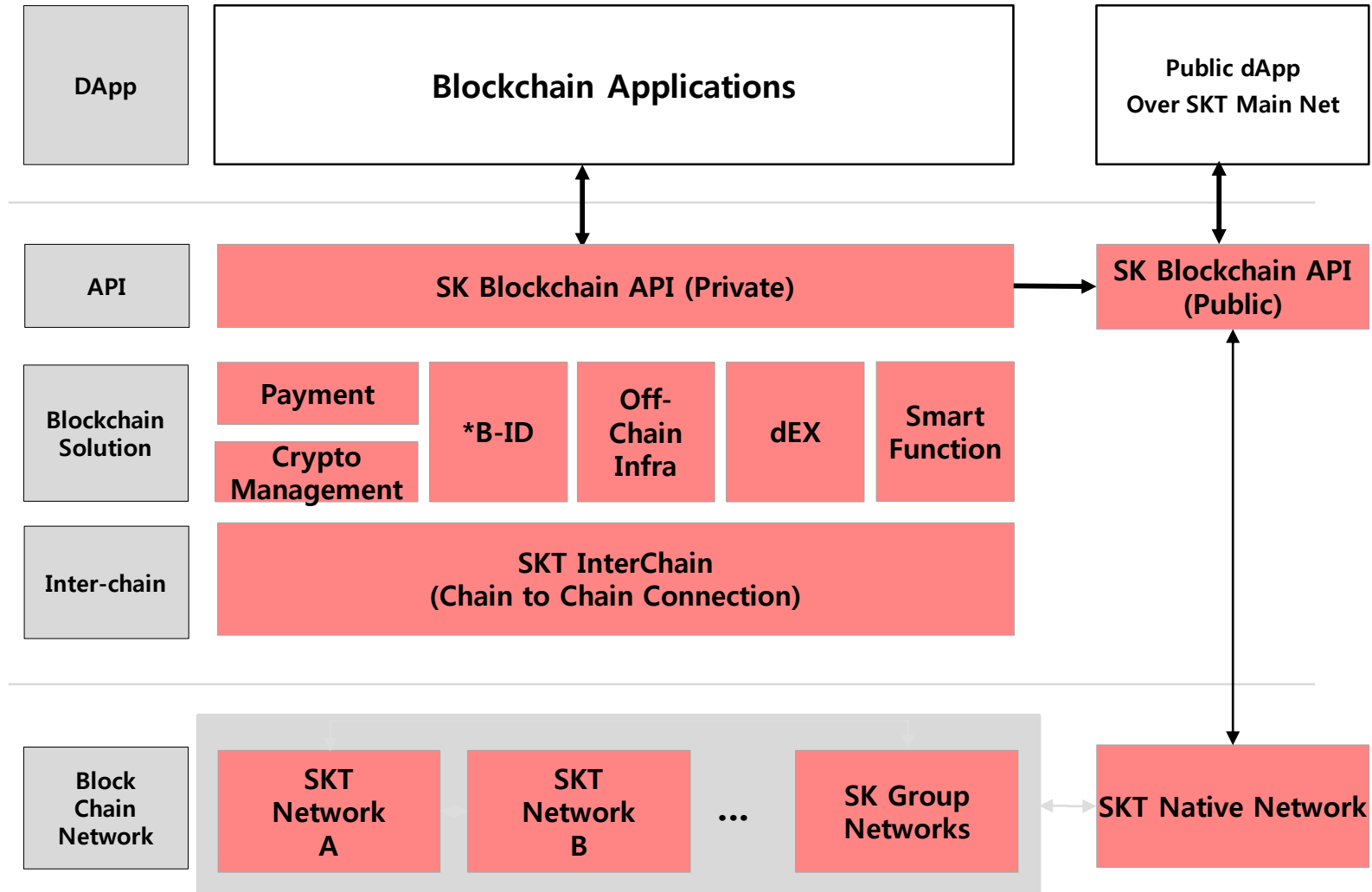
Blockchain Solution

DApp SDK, API, Cloud Blockchain Node
BID, SKT Wallet, Payment,
Off-Chain Infra, Decentralized Exchange Protocol

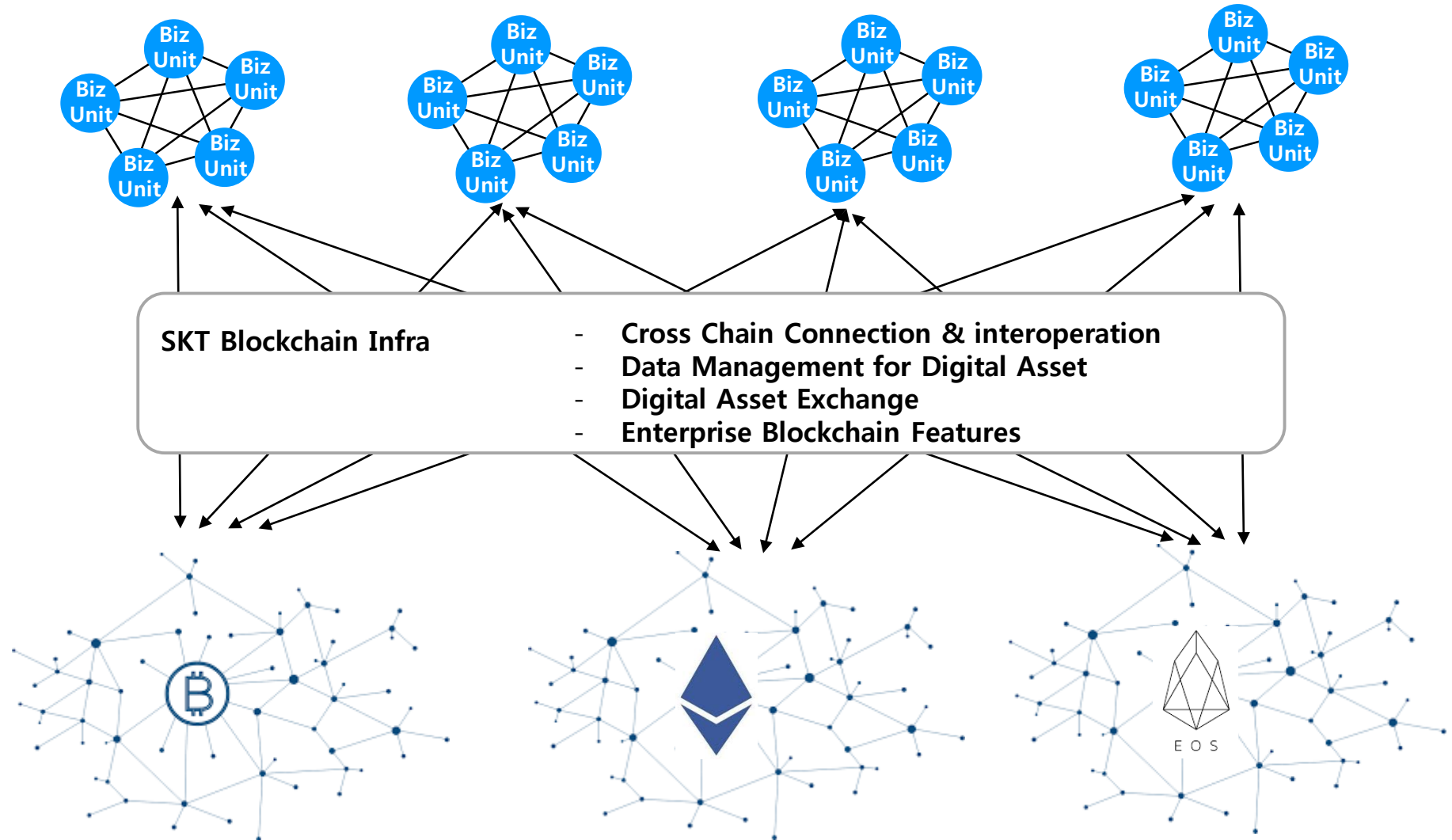
SKT Main Net

Public Blockchain from SK Telecom
Support public DApp development,
Enterprise grade censorship resistance & high performance/efficiency
Delegated Proof of Authority
Social Value Token Economy

SKT Blockchain Platform High Level Architecture

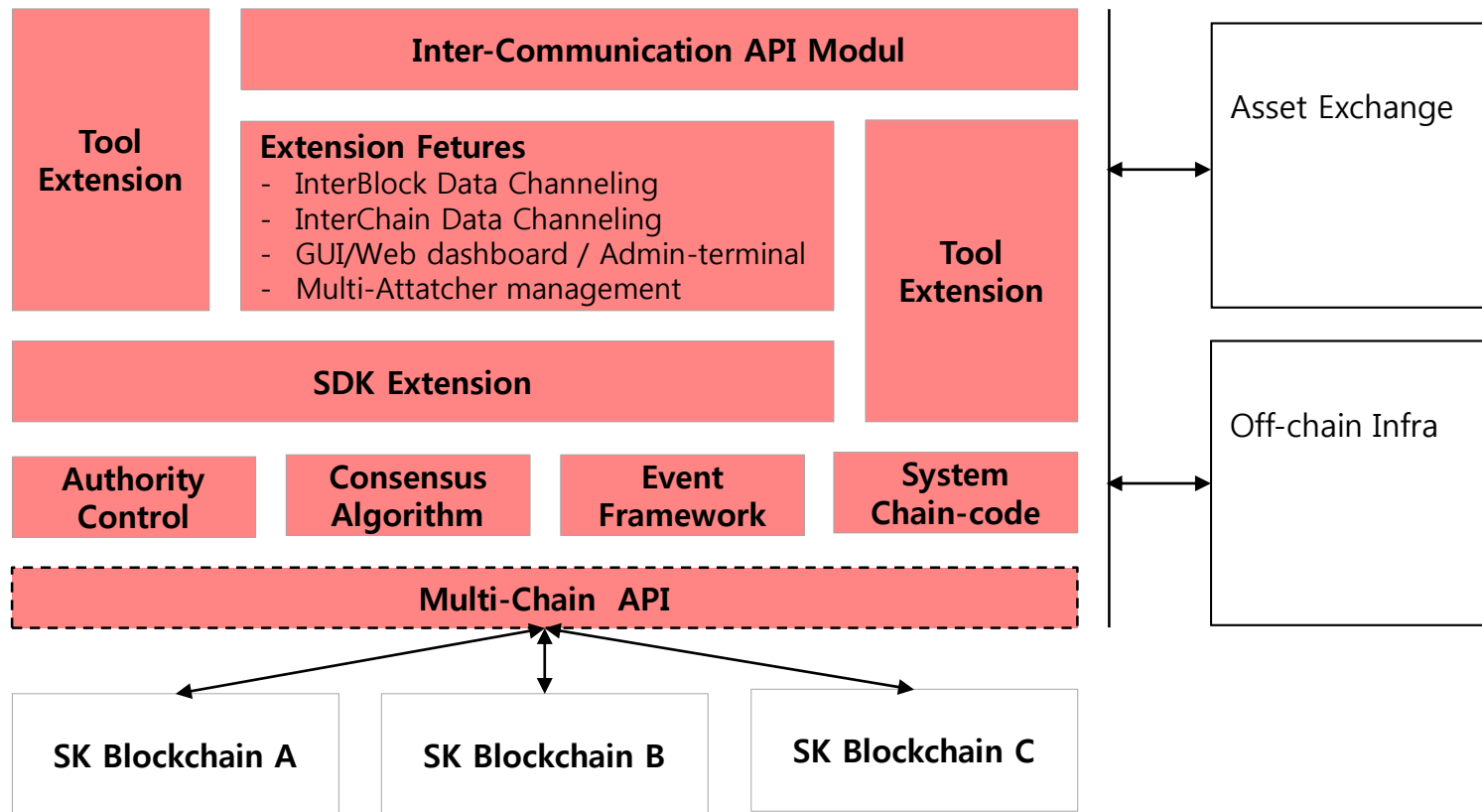


Blockchain Technology with Business Consortium



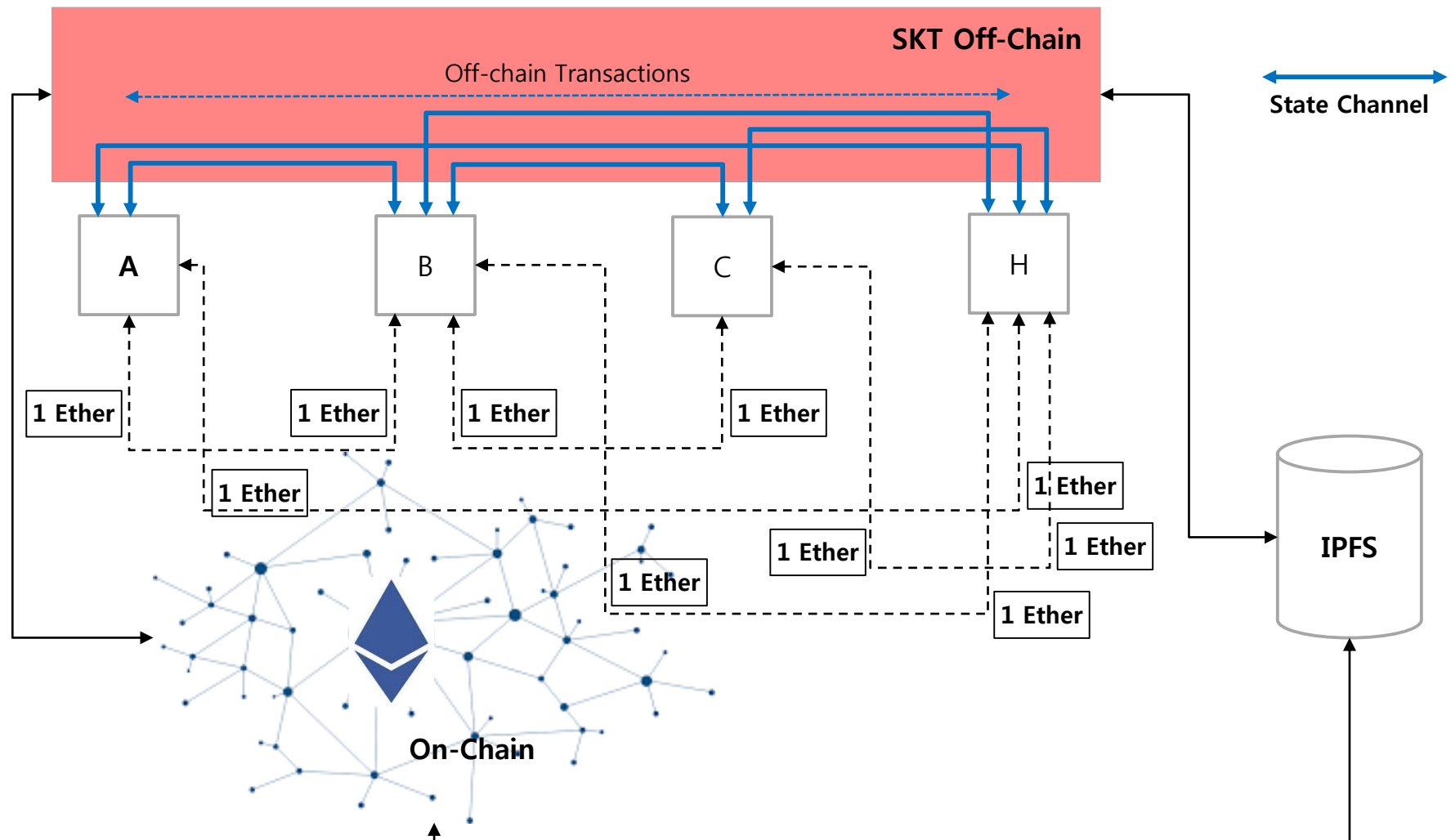
Distributed Trust collaboration for SK Multi-Chain

SKT Multi-Chain Platform supports public/private blockchain systems and is able to connect applications which is running on the different blockchain networks



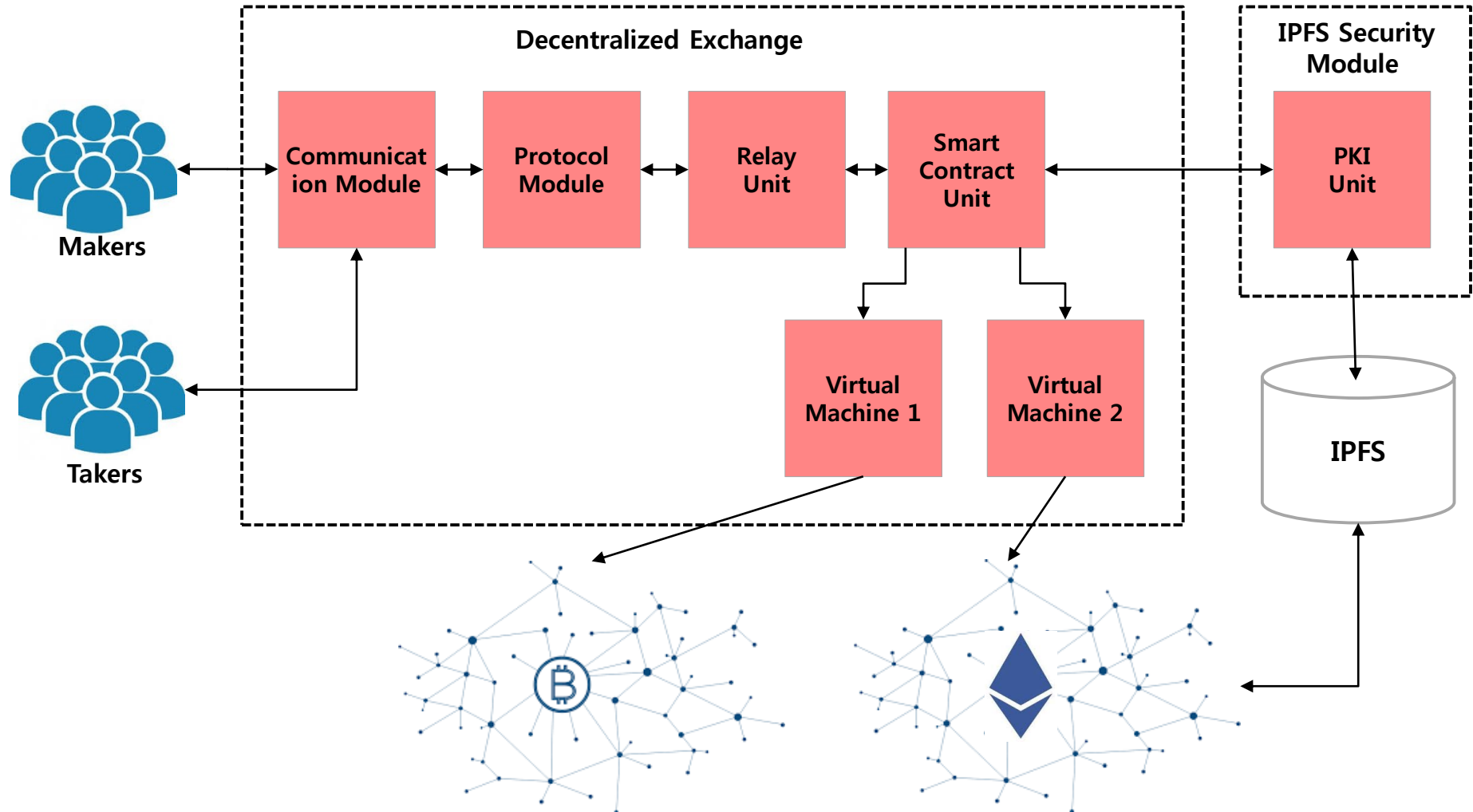
SKT Off-Chain Infrastructure

Off-chain N-party payment channels have been proposed as a solution to scaling both costs and speed

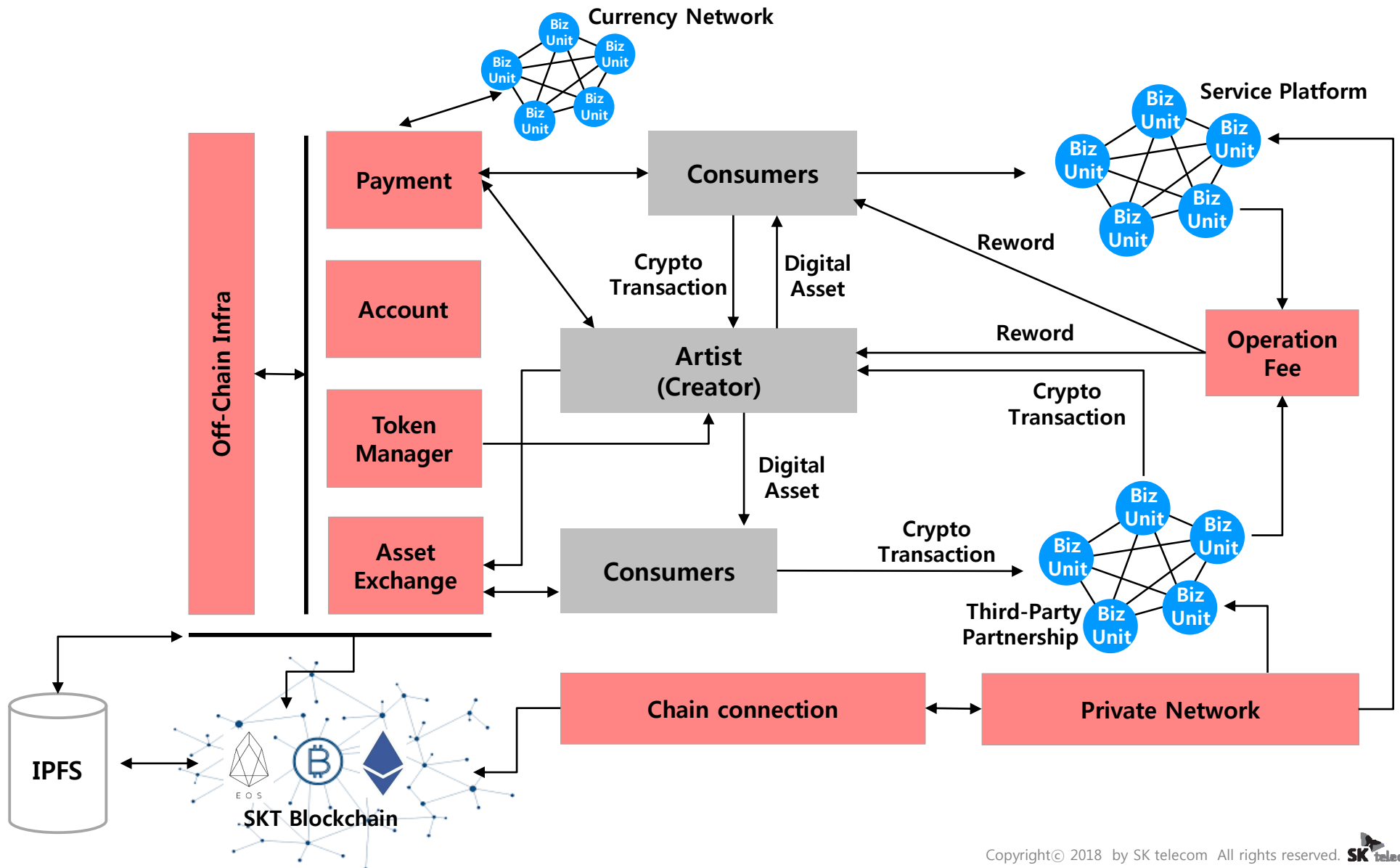


SKT Decentralized Asset Exchange

In the currency/data exchange system all digital asset (with consent of the owner) can be discovered and traded while meeting individual privacy requirements.

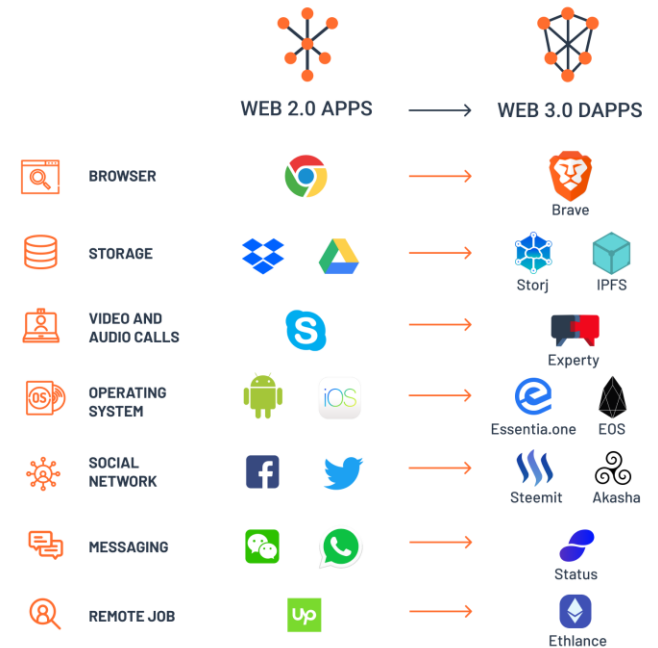
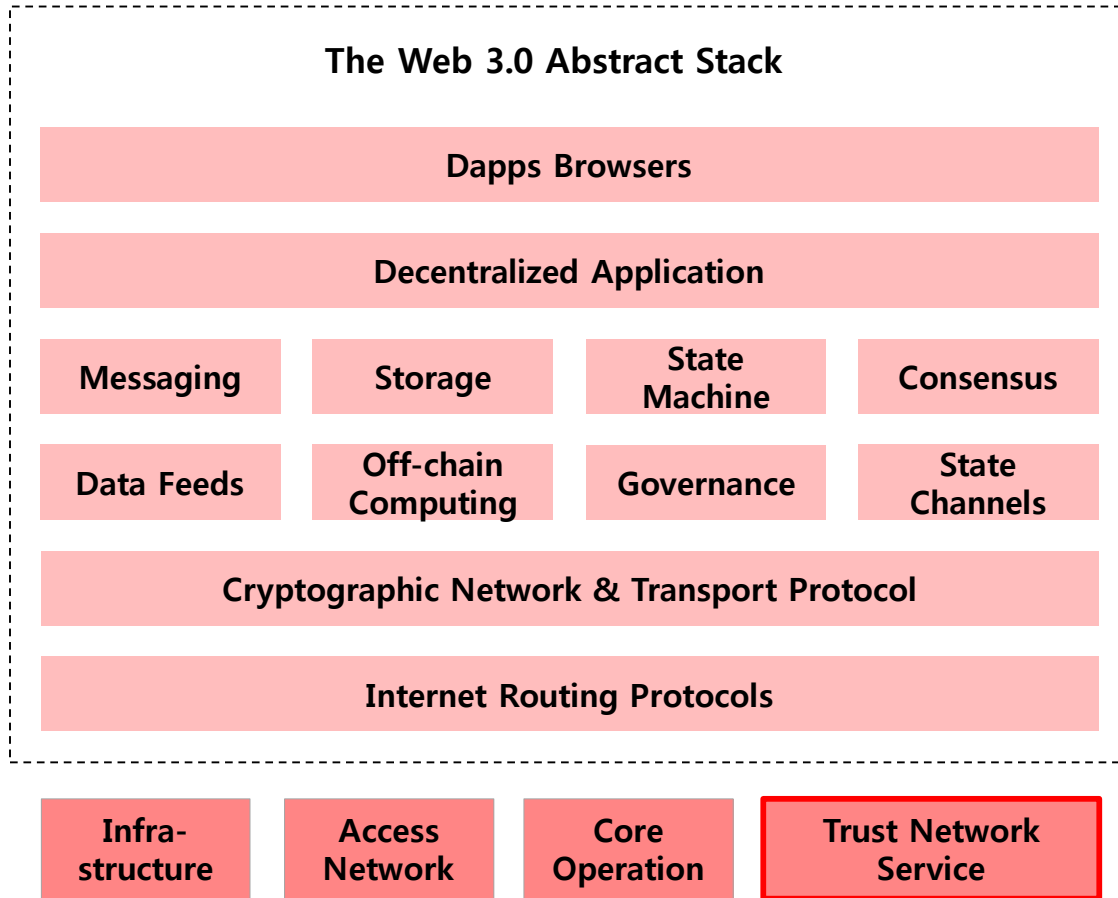


Application Scenario with Creative Asset on the Blockchain Network



Support Web 3.0 on the SKT Main Net

SKT builds the infrastructure for Web 3.0 trust network which is cross-chain, cross-system, cross-industry, cross-application, and cross-device.



Q&A