

2020 SW산업 전망 컨퍼런스

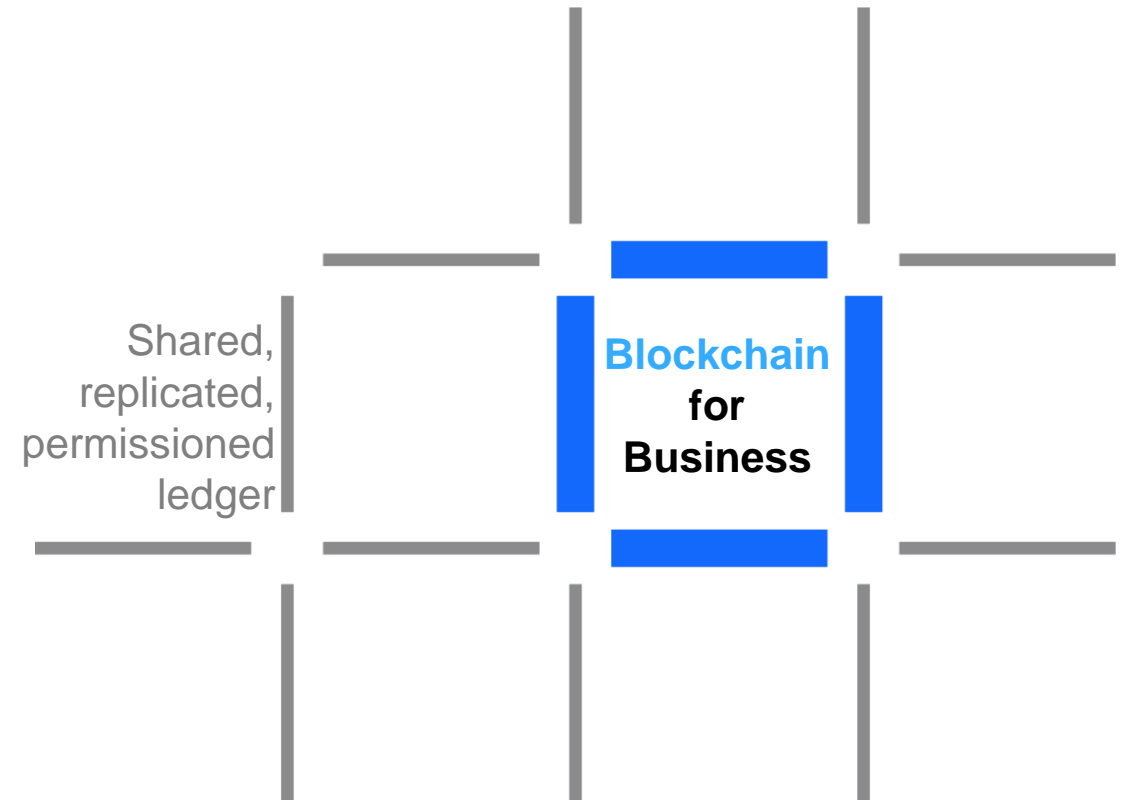


2020년 블록체인의 산업전망 및 산업생태계의 미래

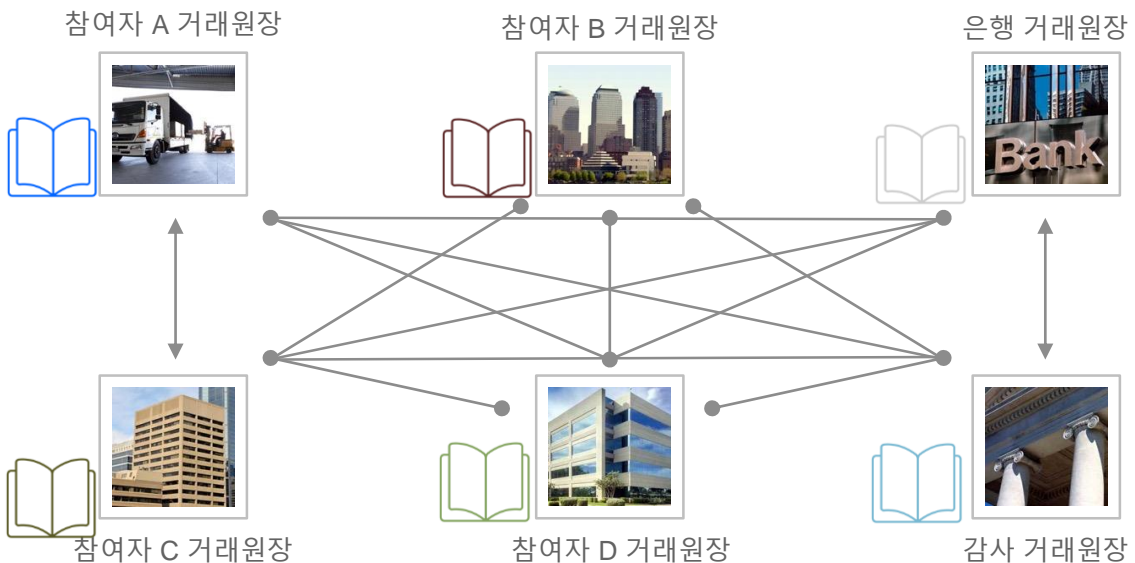
2019. 12. 3

Agenda

1. 블록체인 동향
2. 글로벌 유스케이스
3. 산업생태계의 미래



기존 시스템



블록체인 적용



2개 이상의 참여자가 거래를 처리할때 공급망의 참여자들간의 신뢰문제, 요구사항, 표준 등의 대한 문제로 인해 수동 처리 및 시간이 오래 걸리는 프로세스가 존재함

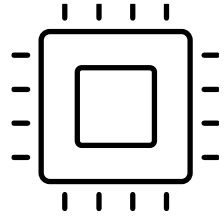
참여자들간의 거래 기록들이 공유되고, 동기화 되고, 보안에 안전한 원장을 유지함

자산의 이력 추적
(Provenance)

거래기록의 위변조의
어려움(Immutability)

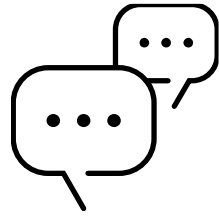
분쟁 및 오류의 최소화
(Consensus)

거래의 최종성 보장
(Finality)



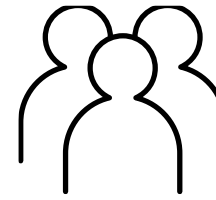
기술

- Bitcoin
- Ethereum
- Hyperledger
- Corda
- Ripple
- BigChainDB
- Quorum
- Stellar
- Libra
- +++



주제

- Shared Ledger & smart contracts
- Public, private
- Permissioned, permission-less
- Tokens and incentive mechanisms
- Identity and Zero Knowledge
- Consensus mechanisms
- On-chain, off-chain
- Systems integration
- Inter-ledgering
- Physical-digital with IOT
- Cryptoanchors



커뮤니티

- Bitcoin
- Ethereum
- Linux Foundation / Hyperledger
- EEA
- ISO/TC 307 – Blockchain & DLT
- IEEE Blockchain
- W3C Blockchain Community
- Accord Project
- Sovrin
- DIF
- TTI

BLOCKCHAIN TRENDS

PAST

PRESENT

FUTURE = HYBRID

PUBLIC

- Bitcoin mania
- Initial Coin Offerings

- Scaling attempts
- Cross Chain

- Internet of Value
- Token markets
- Consolidate networks
- Digital asset interoperability

PRIVATE

- “Blockchain not Bitcoin”
- Experimental
- Few members

- B2B Optimisation
- More members
- Stable Coins
- Founder Led



과거

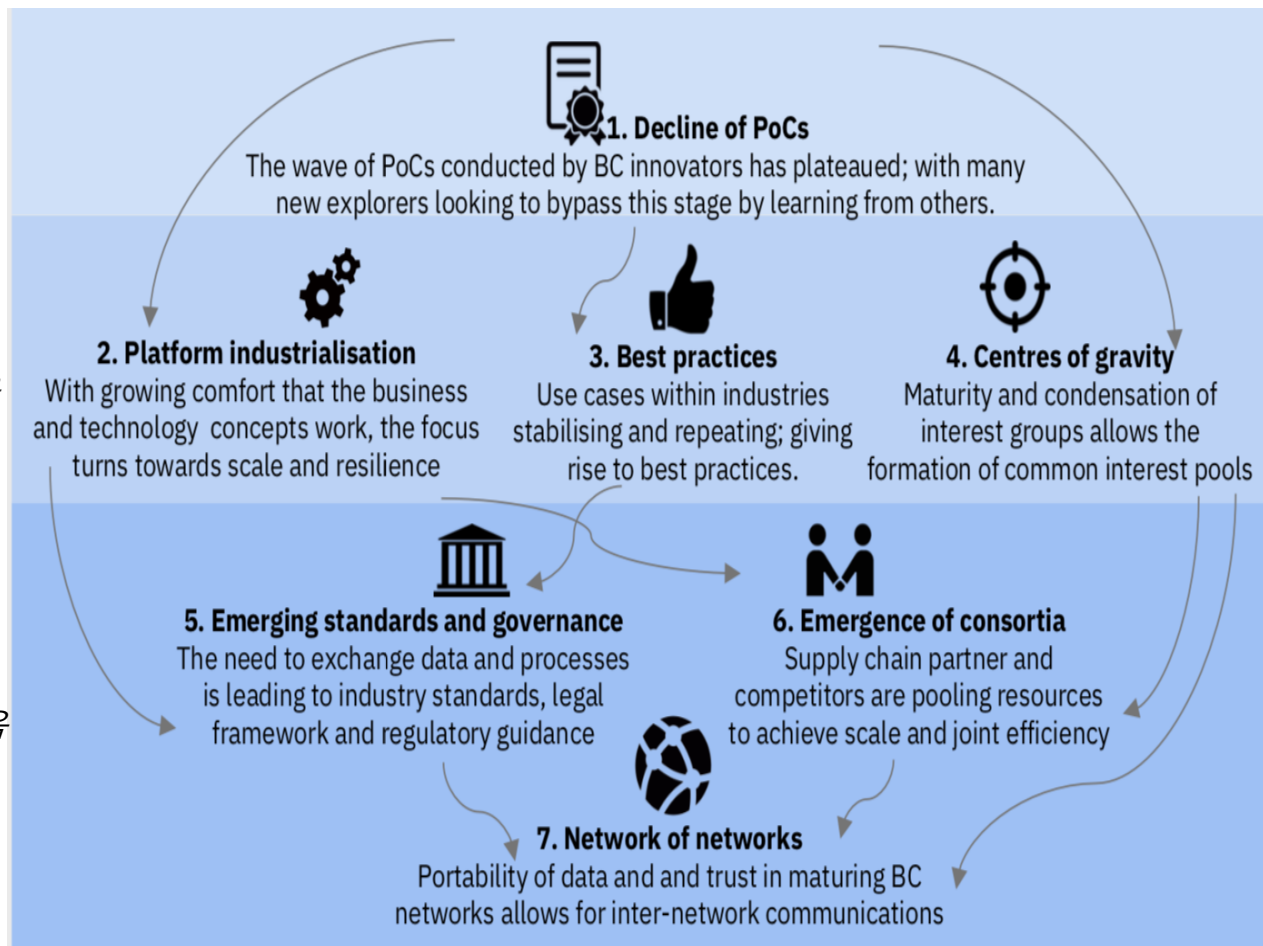
...점점 줄어들음

현재

...진행되고 있음

미래

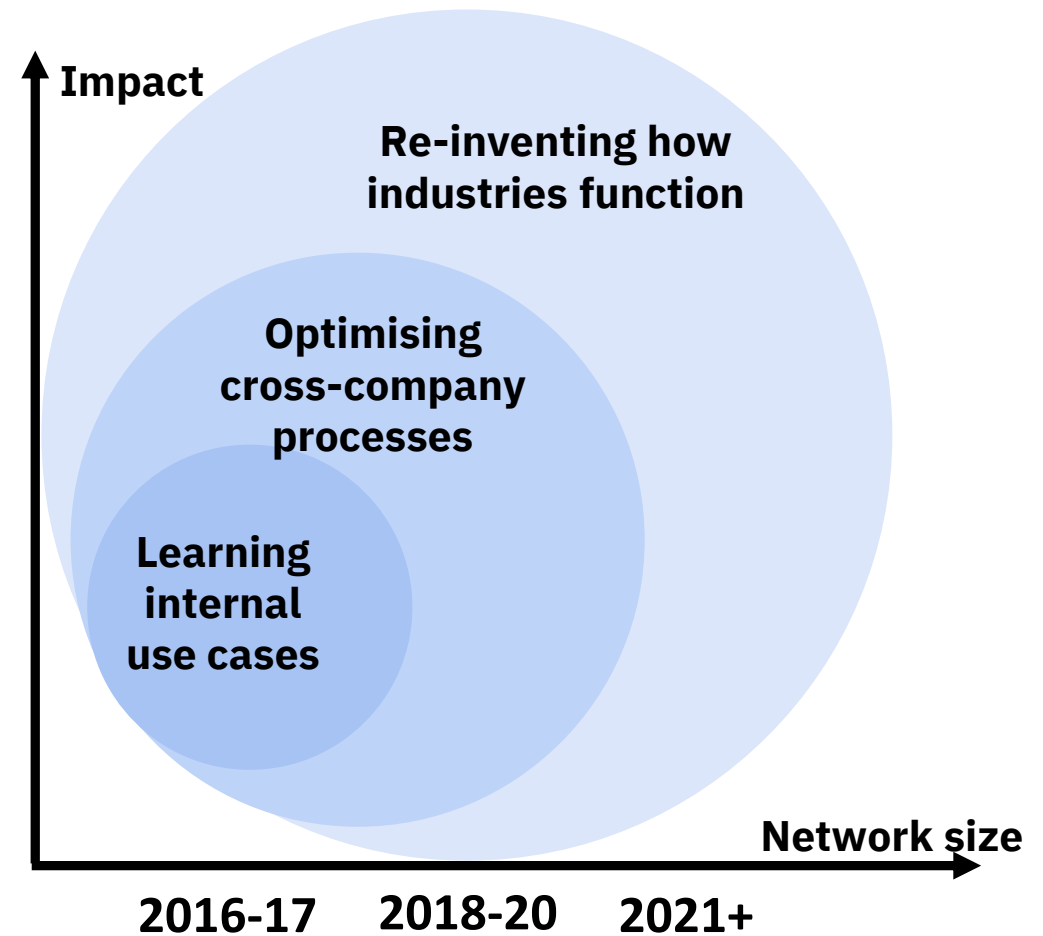
...형성되고 있음



- ✓ 더 이상 실험적인 PoC 프로젝트는 없음
- ✓ 실제 거래를 처리하는 20개 이상의 라이브 네트워크
- ✓ 400개 이상의 블록체인 네트워크 컨소시엄
- ✓ 제 1&2 규모의 회사들의 80%이상은 블록체인 프로젝트에 참여
- ✓ 모든 산업들이 비즈니스 프로세스를 블록체인 기술로 전환하는데 집중
- ✓ 블록체인 플랫폼과 솔루션에 대한 투자 비중이 연평균 성장률 80% 증가
- ✓ 금융서비스 산업이 블록체인 적용을 선도하고 있으며, 텔레콤 및 미디어 산업이 뒤따르고 있음



The blockchain market is moving rapidly from cross-company process **optimisation** to **re-inventing** how industries function



Source: adapted from Nitin Gaur



The basis of competition has gone up a level - **collaborate** with your competitors to form trusted data at the level of a market

- Most large organizations are accustomed to **dictating terms** to their industry partners and others in their ecosystem **rather than collaborating** with them
- Even though competitors in an industry utility network aren't giving away what differentiates them, they often **fear that they might do so**
- This makes **strong governance a make-it-or-break-it attribute** for utility networks to achieve scale



블록체인 비즈니스 솔루션

비즈니스 가치



모든 참여자들이
공정하고 긍정적인
ROI를 얻을 수 있도록
설계

산업 생태계



산업 생태계의 모든
참여자들에게 개방되어
있음

거버넌스 모델

산업계 리더들의
협업으로 구축 및
유지

- 데이터 소유권
- 멤버십
- 신뢰 모델
- 호환성
- 3rd 파티
- 기타

표준 및 호환성



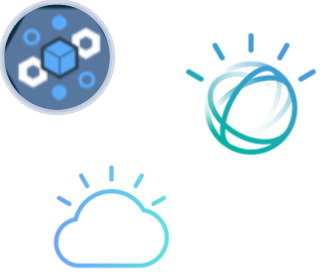
HYPERLEDGER

- 산업표준
- 데이터 관리 시스템
- 오픈 APIs
- 클라우드간 호환
- 현재와 미래의
블록체인 솔루션

기술

혁신적인
엔터프라이즈 급 기술

- 보안 및
개인정보보호
- 가용성 및 신뢰도
- 확장성
- 복원력
- 감사 기능





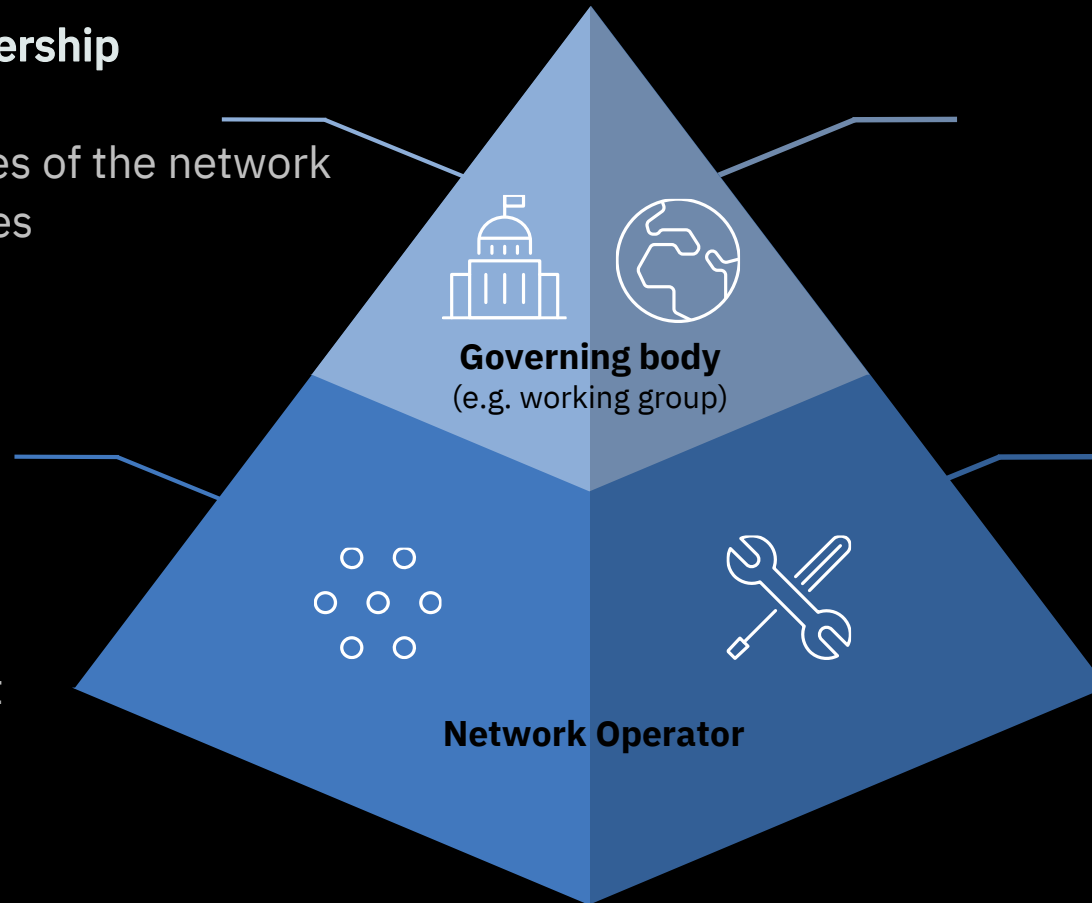
The working group needs an entity that has a responsibility to run and grow the network from a business perspective, create the governance models and define and enforce the network policies.

Manage working group membership and govern the network

- Defines and enforces the rules of the network
- Sets and collects network fees

Run and operate the network, security, performance and capacity management

- Performs technical on-boarding
- Provides operational support and helpdesk



Expand the working group by seeking new global members

- Works with other foreign jurisdiction prospects to expand the network reach

Build future feature updates into the solution on behalf of its members

- Works with members to prioritize solution functionality for future releases
- Works with members to deploy the updated solution

The logo for LYGON, featuring the word "LYGON" in a bold, black, sans-serif font. The letter "O" is replaced by a circular icon composed of four interlocking segments in blue, orange, yellow, and red.

Cycle times from
1 month to 1 day

The logo for VINTURAS, featuring a stylized diamond shape made of four triangles (two blue, two red) to the left of the word "VINTURAS" in a bold, black, sans-serif font. Below "VINTURAS" is the tagline "sharing progress" in a smaller, italicized, black font.

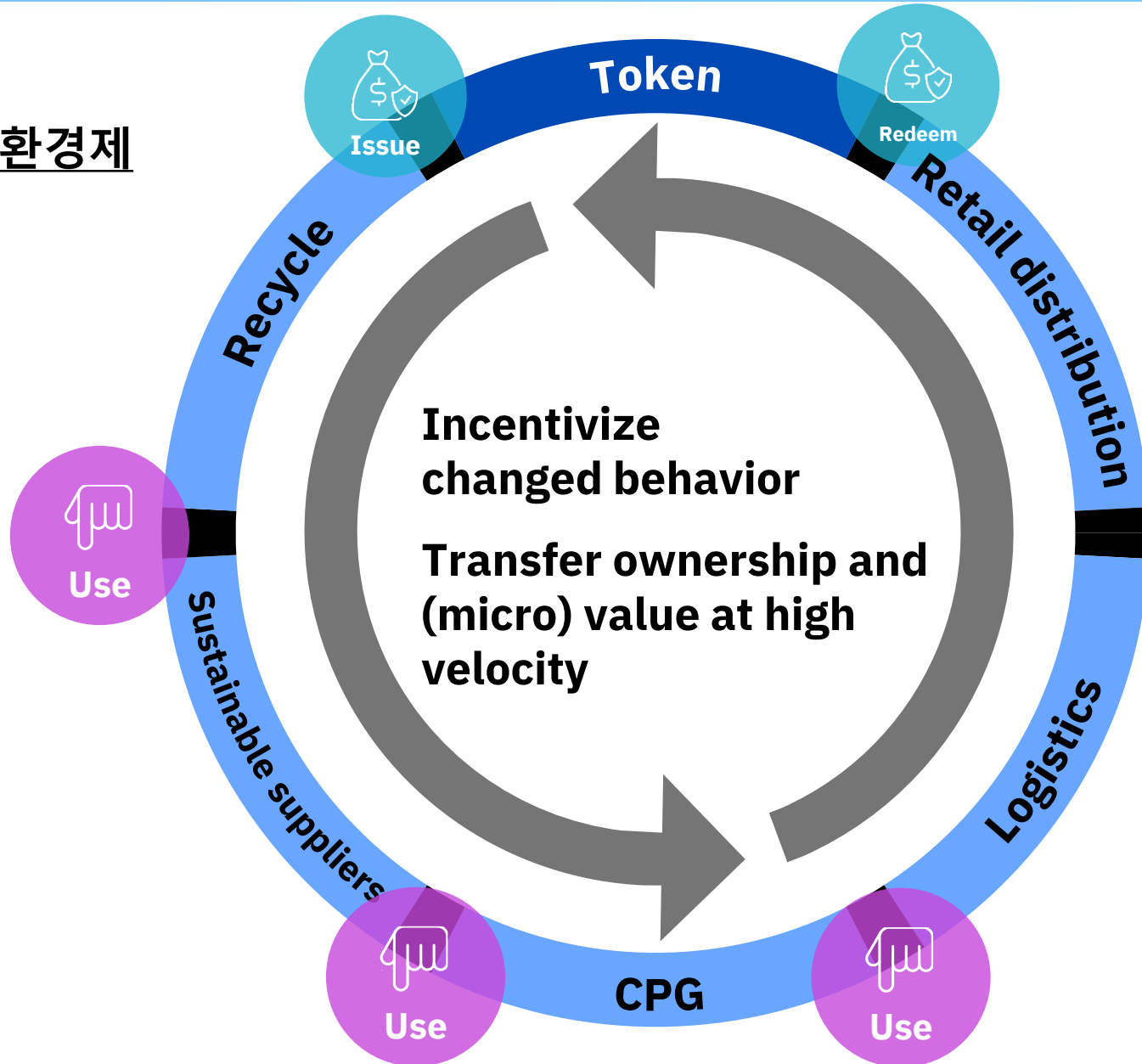
Eliminate fraud in
car remarketing

The logo for TRADE+LENS, featuring the word "TRADE+LENS" in a bold, white, sans-serif font on a black rectangular background. A small orange plus sign is positioned between "TRADE" and "LENS".

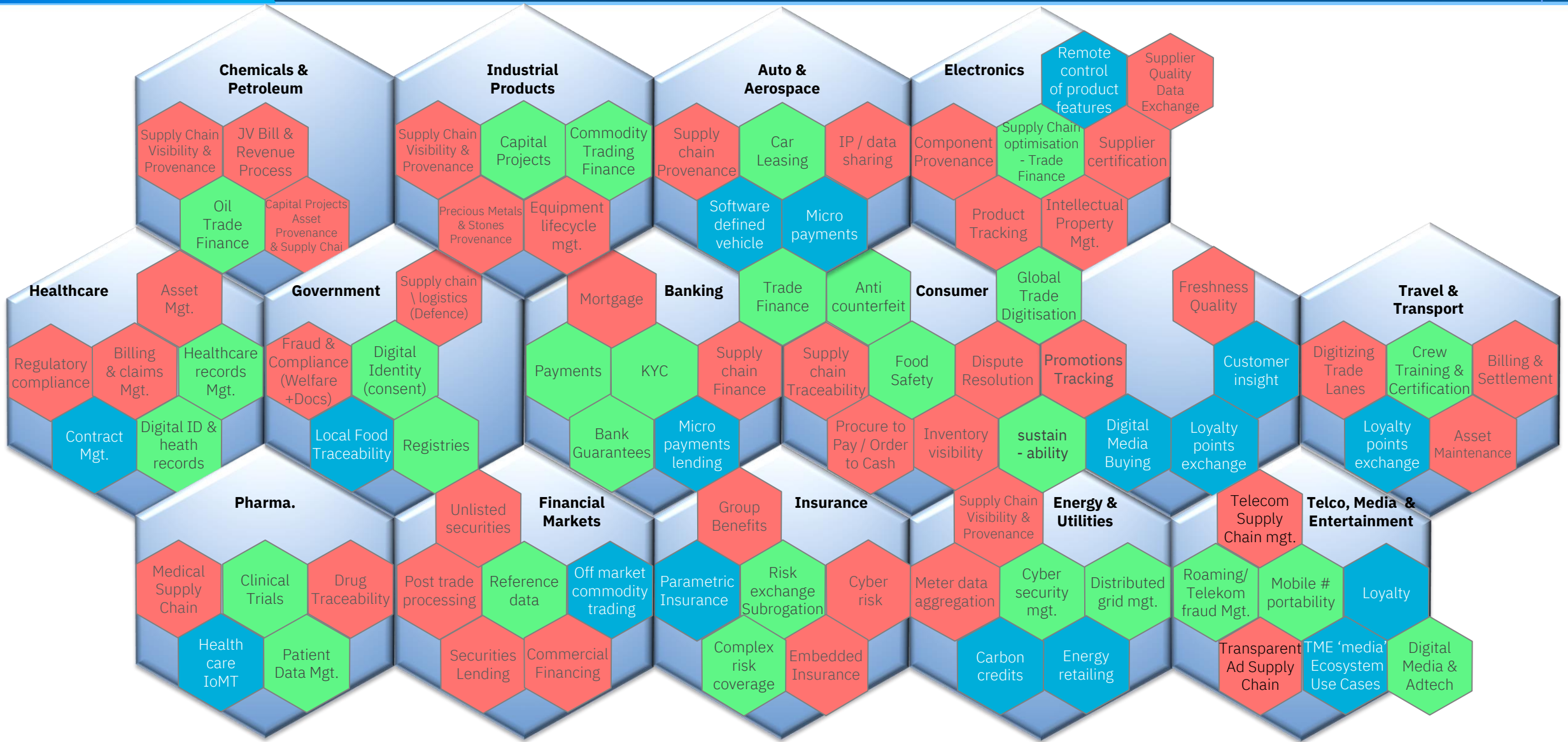
Save importers using Nhava Sheva
up to \$220 million a year



토큰기반의 순환경제



산업별 블록체인 유스케이스

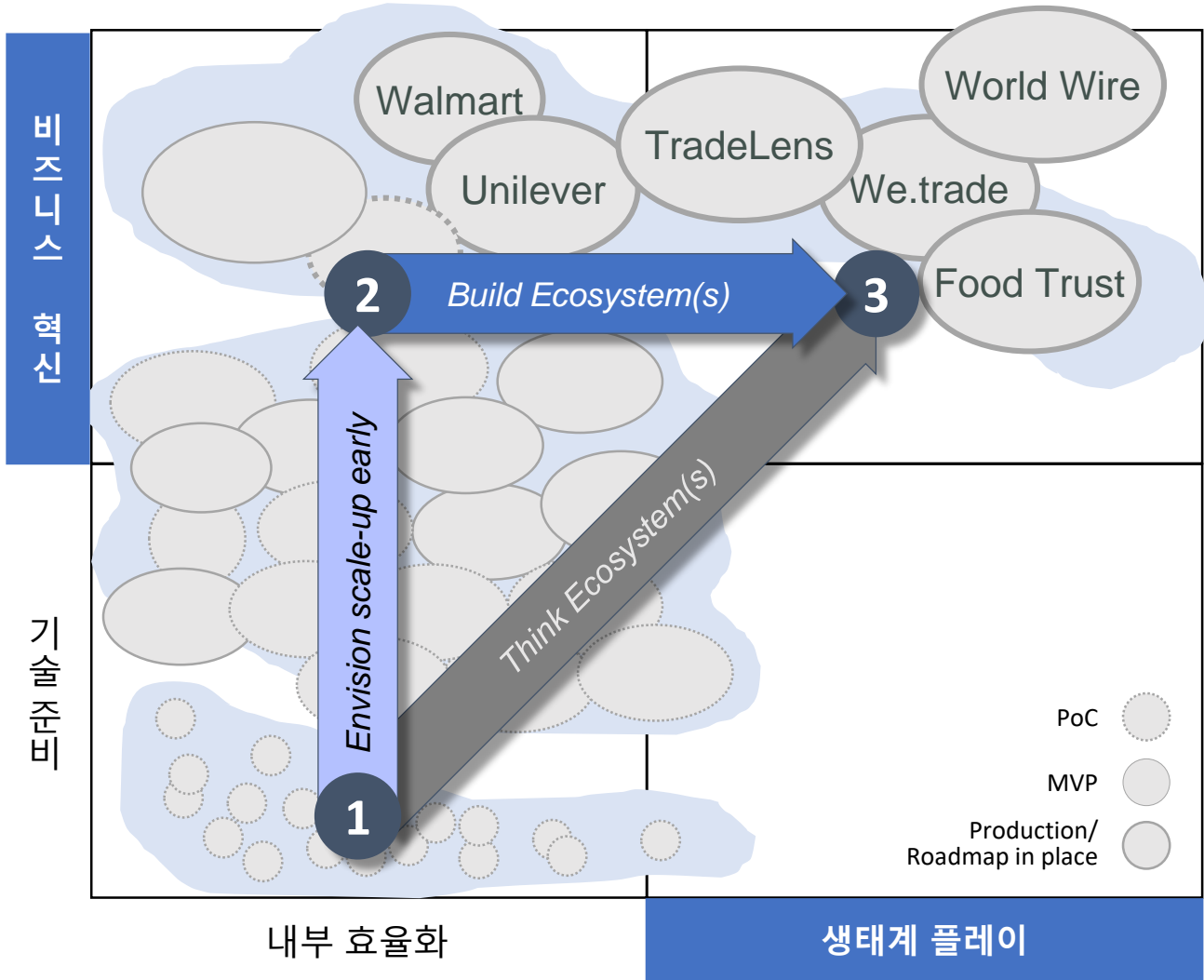


Key ■ Business Differentiation ■ Market Utility ■ New Market Model

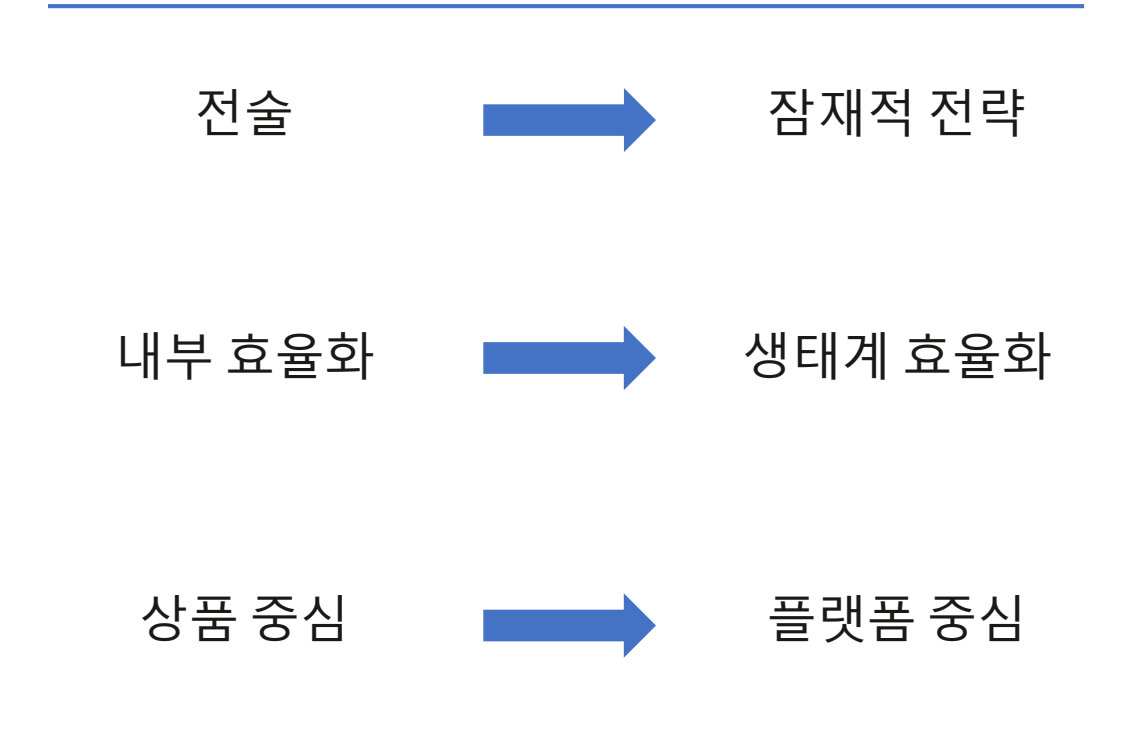




블록체인 프로젝트 사례



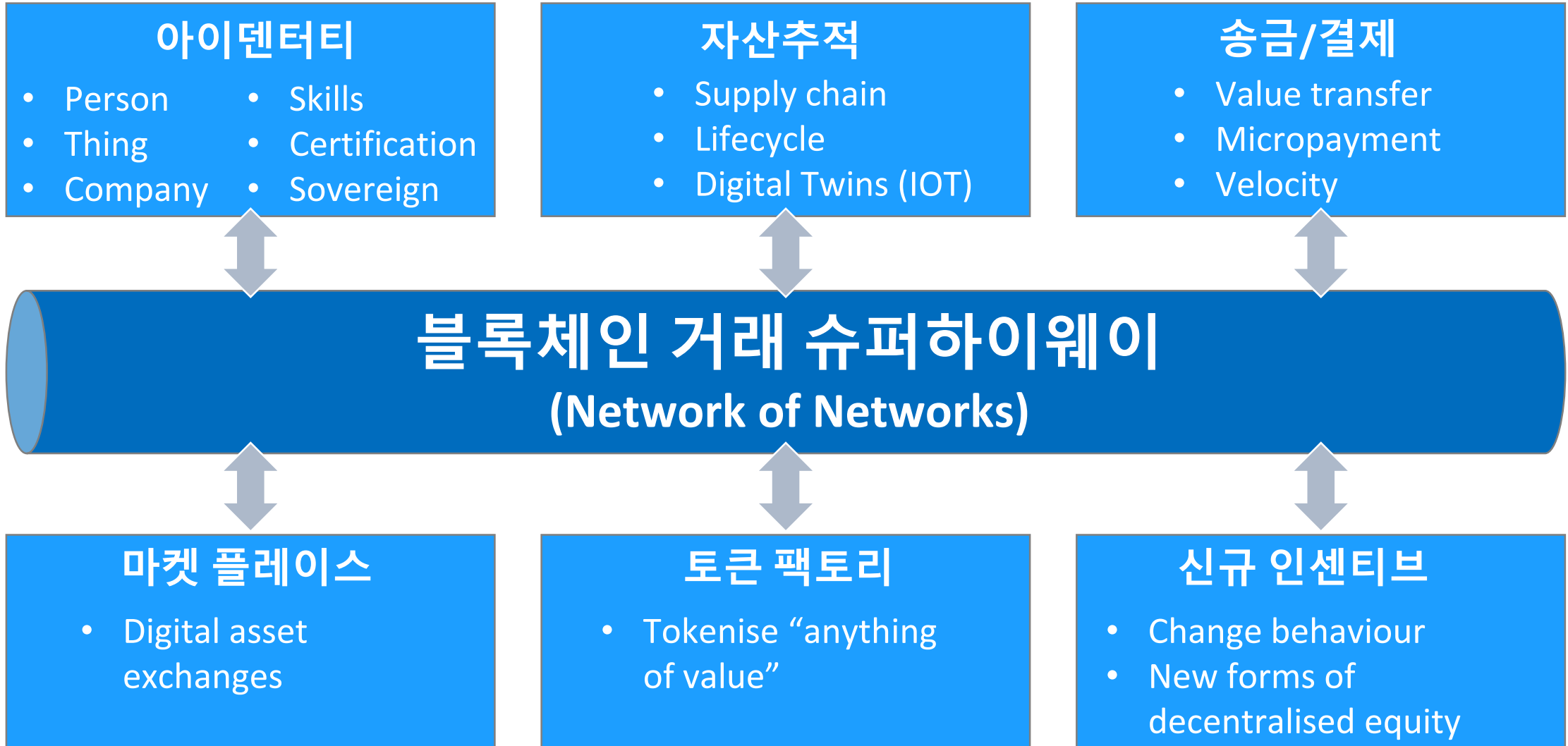
블록체인 접근 방법

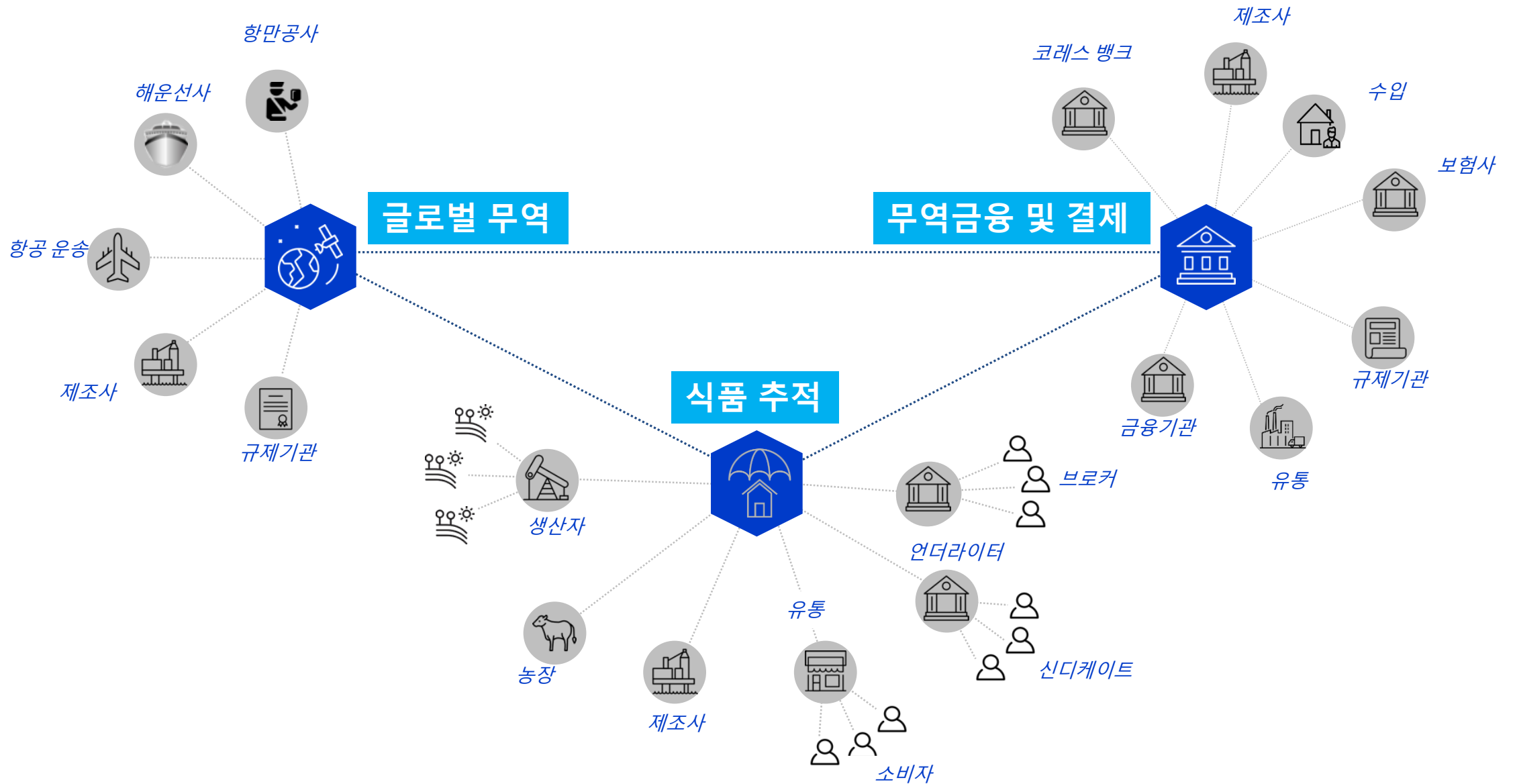


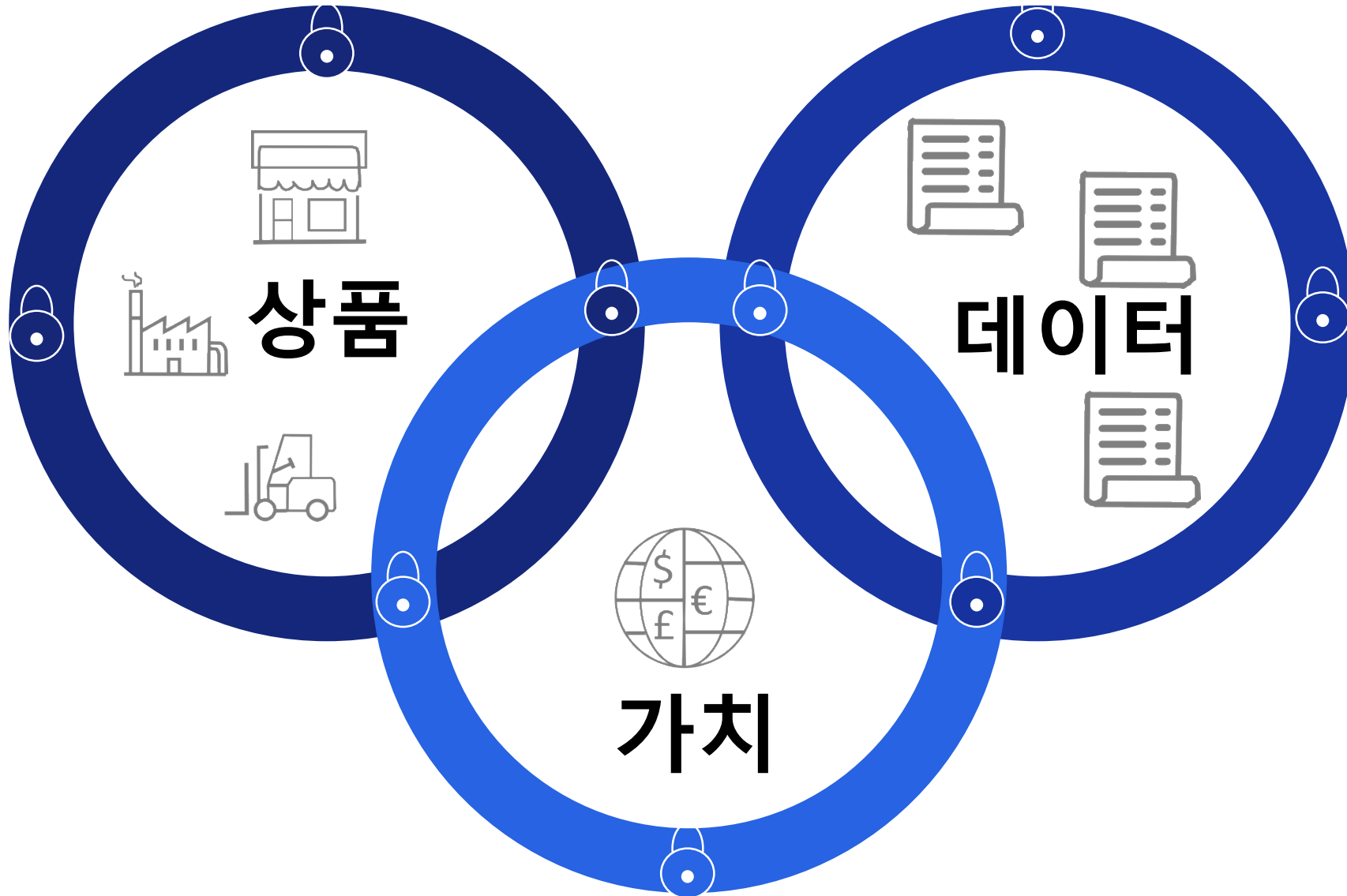
Blockchain related businesses predicted to create \$176bn of value by 2025 **

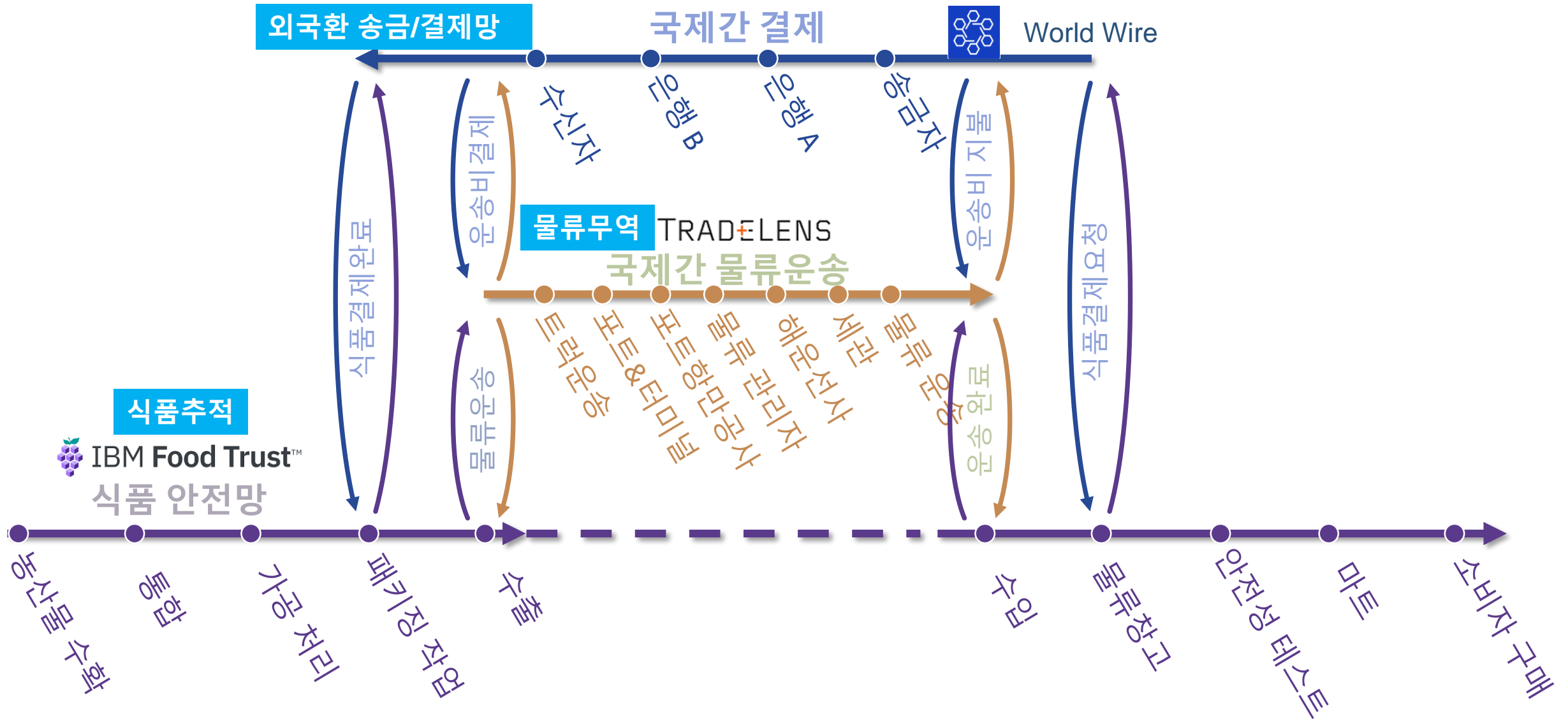
* - IDC, Blockchain Spending Guide, H1 2017

** - Gartner Research











박 세열

- 現 IBM 블록체인 기술총괄(상무)
- 現 이화여자대학교 사이버보안 겸임교수
- 現 The Open Group Distinguished Architect



Mobile: +82-10-4995-7163

E-mail: sypark@kr.ibm.com or
park.seyoul@ewha.ac.kr



Distinguished
Architect