

**Versatile** Blockchain Platform

# Blockchain Reality

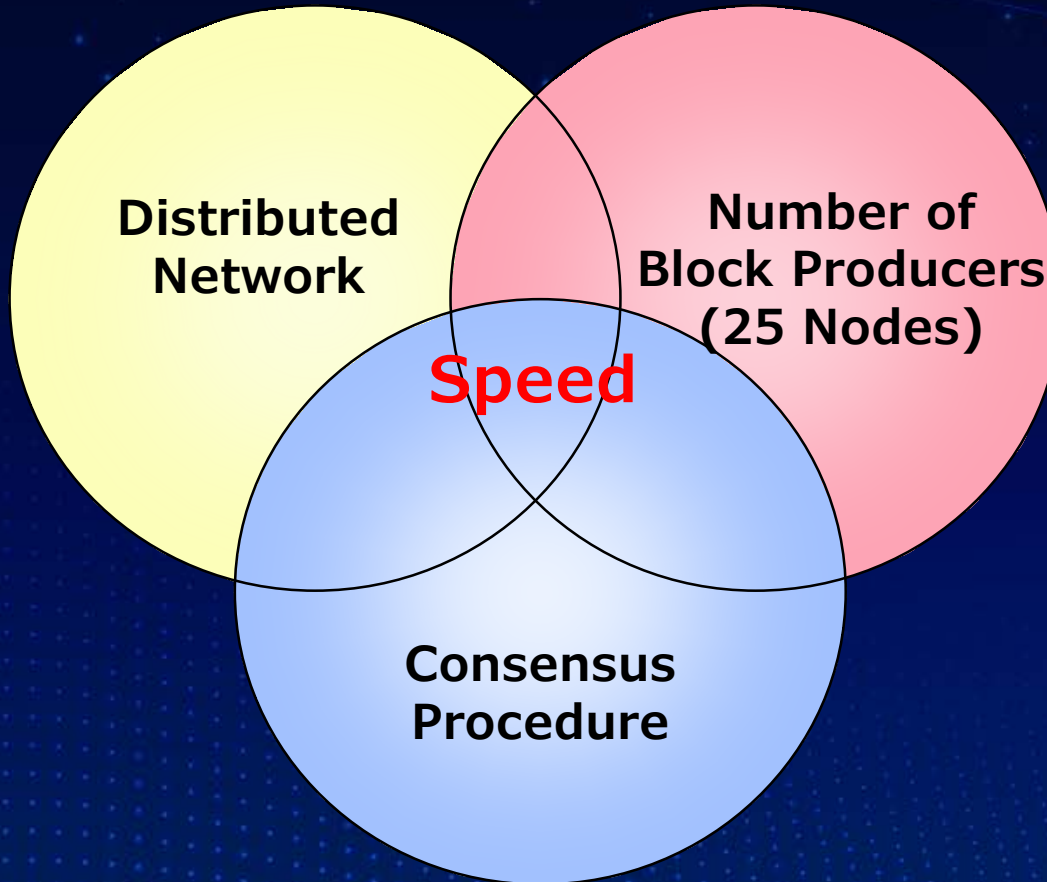
# Challenges to Current Blockchain Ecosystem

1. Slow block finality
2. Fragmentary user experiences
3. Biased token economy
4. Fragile regulatory resistance
5. Ambiguous technology evolution

# Yet Another Blockchain for Blockchain (YABB)

1. One-second block finality
2. Unified user experience network
3. Fair token economy
4. Flexible regulatory resistance
5. Concrete technology roadmap

# 1. One-second Block Finality



네트워크 계층 구조

부트 노드의 역할

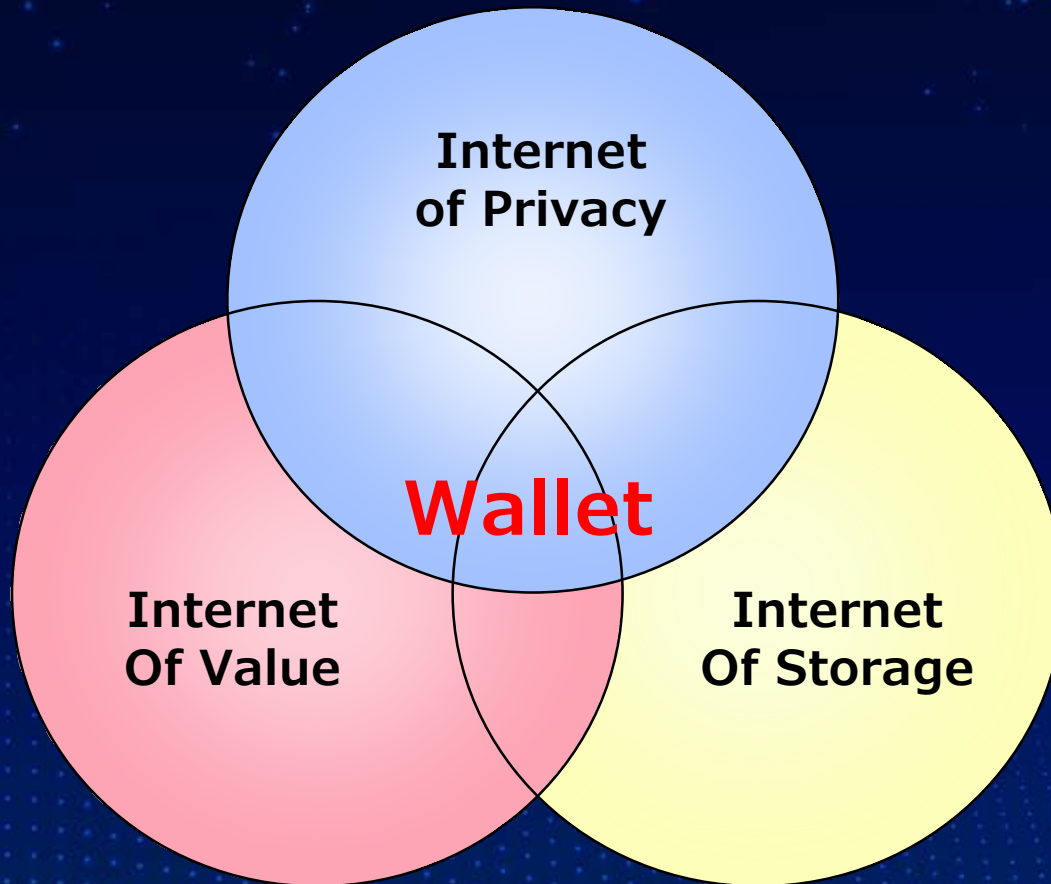
지갑과 노드의 연결 구조

안전한 합의과정

자기 완결적인 합의과정

자동 벤치마킹 테스트

## 2. Unified user experience network



분산 ID

Token

Coupon

Credential(Documents)

Distributed Contents

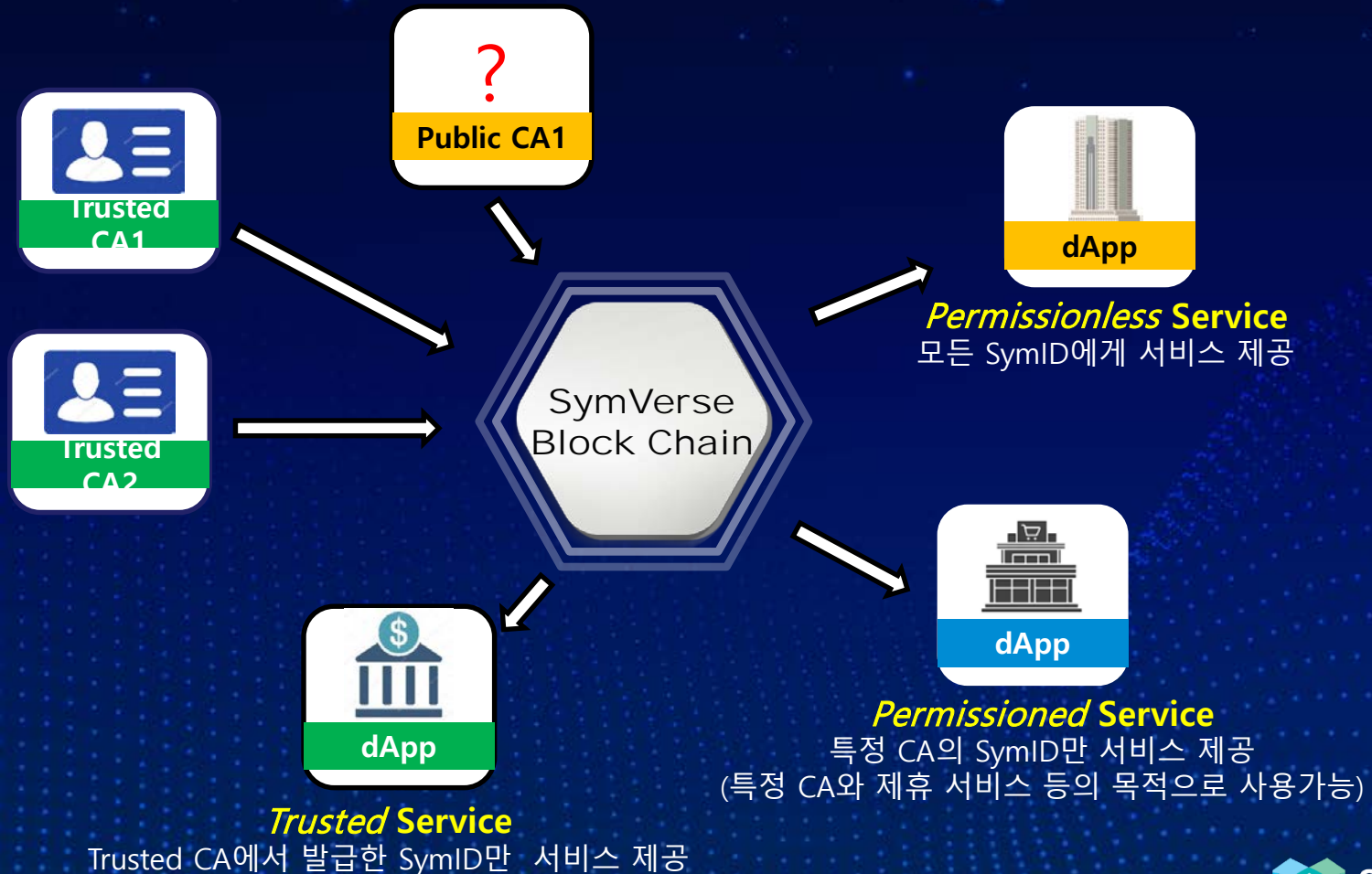
## 2. Unified user experience network

### 분산 ID



## 2. Unified user experience network

### SymID 이용한 다양한 서비스 네트워크



## 2. Unified user experience network

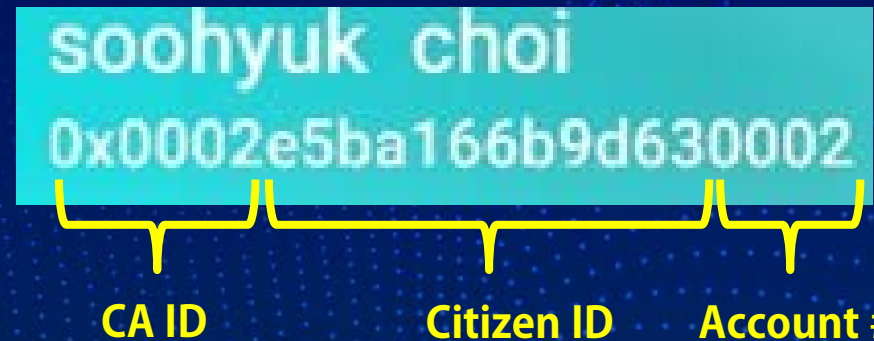
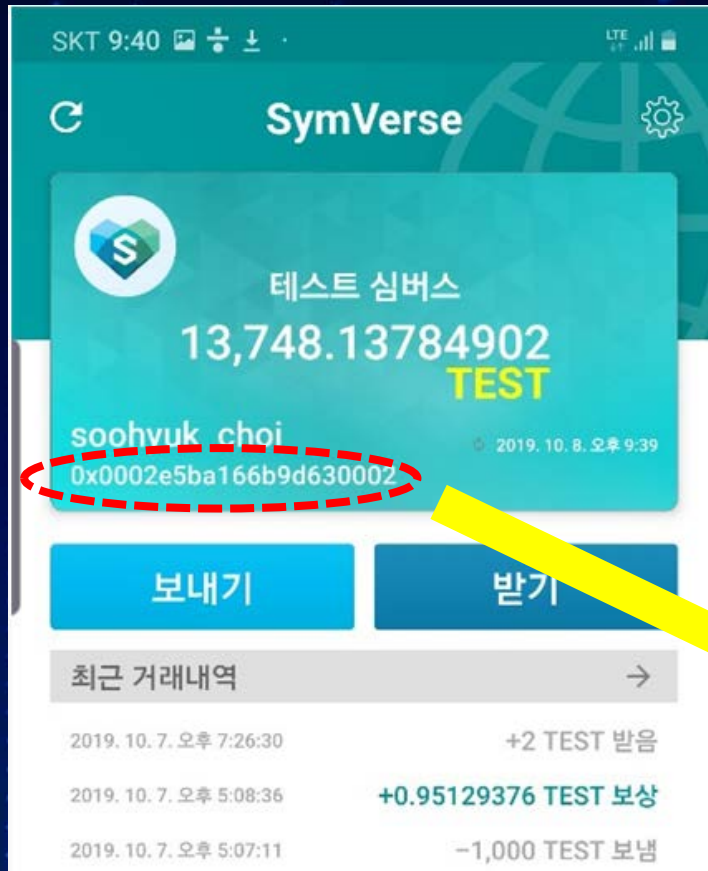
### 세계최초의 분산 ID 기반 블록체인 플랫폼

- 10-byte ID
- ID 당 65536 개의 계정(토큰/쿠폰)
- 계정의 상태 표시
- 역할  
(6만개의 표준화된 사용분야 -과세, 미성년, 해외송금 등)
- 신용도
- 계정의 발급 및 폐기 시한



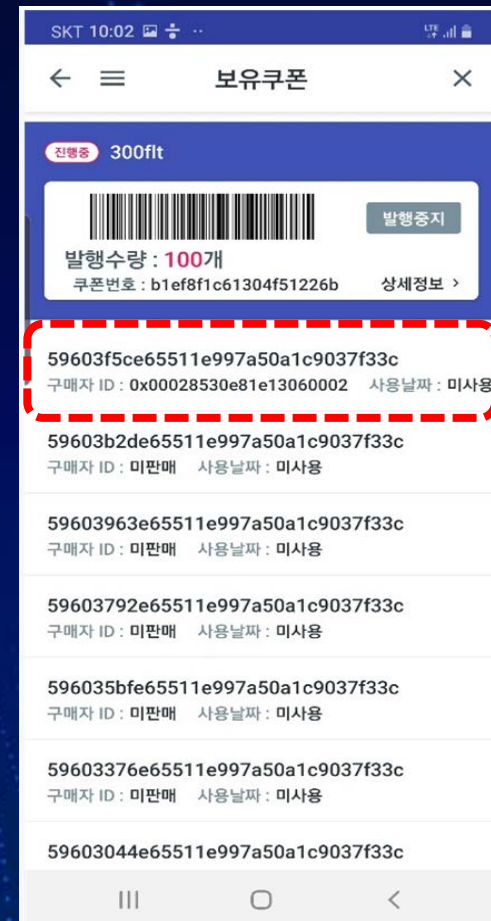
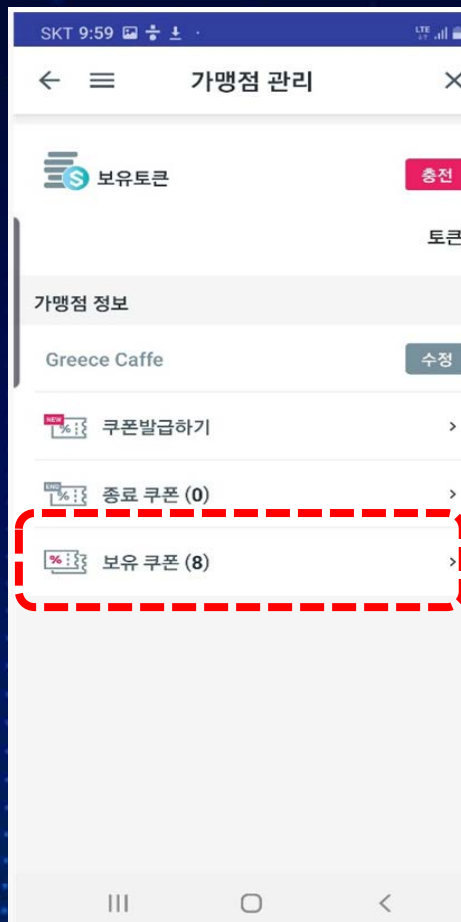
## 2. Unified user experience network

### Unified Token Wallet (SymVerse / ERC / Bitcoin)



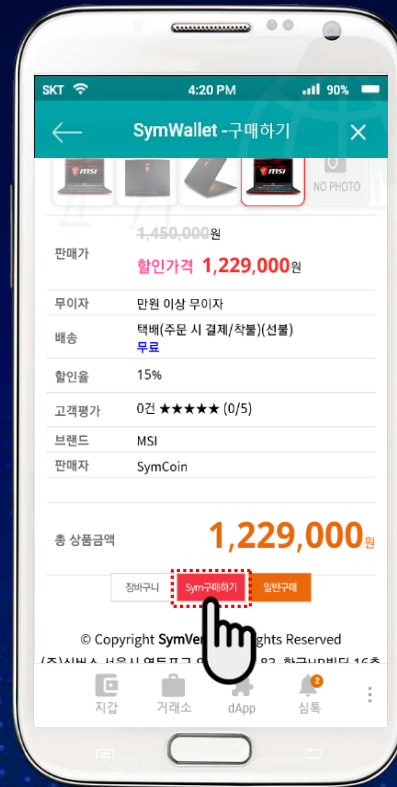
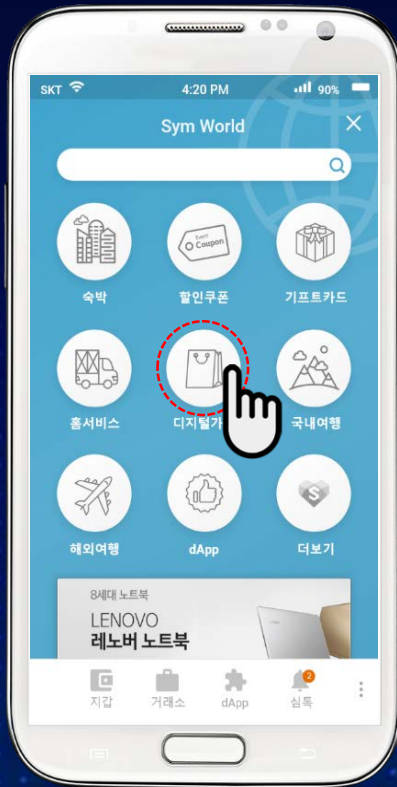
## 2. Unified user experience network

### 블록체인 문외한도 단숨에 만드는 쿠폰/토큰/신원증명



## 2. Unified user experience network

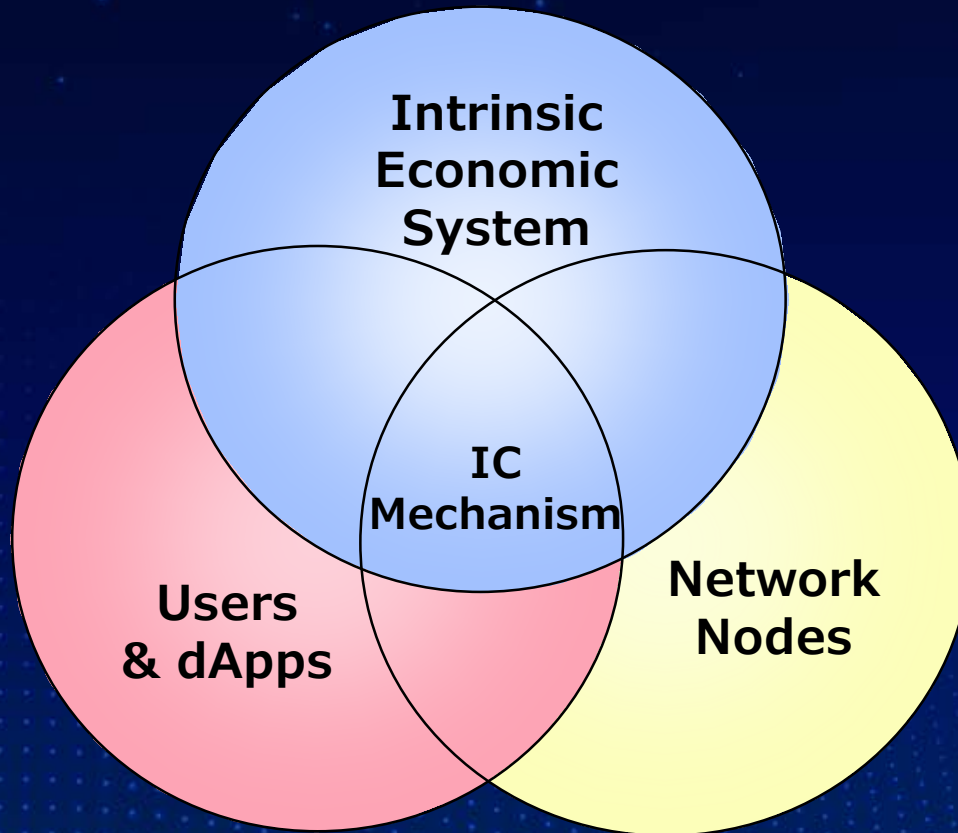
### Small Business / Offline 2 Online Payment Solution



- 카테고리 별 dApp 분류
- 하단 광고
- 카테고리 페이지 (web)
- 상품 리스트
- 상품 검색
- 상품 상세
- 장바구니
- SYM 구매하기 (PG)
- 할인 쿠폰 (SCT API)
- 결제 (SymPay)

dApp 쇼핑에서 원하는 상품이나 앱을 검색하실 수 있습니다.

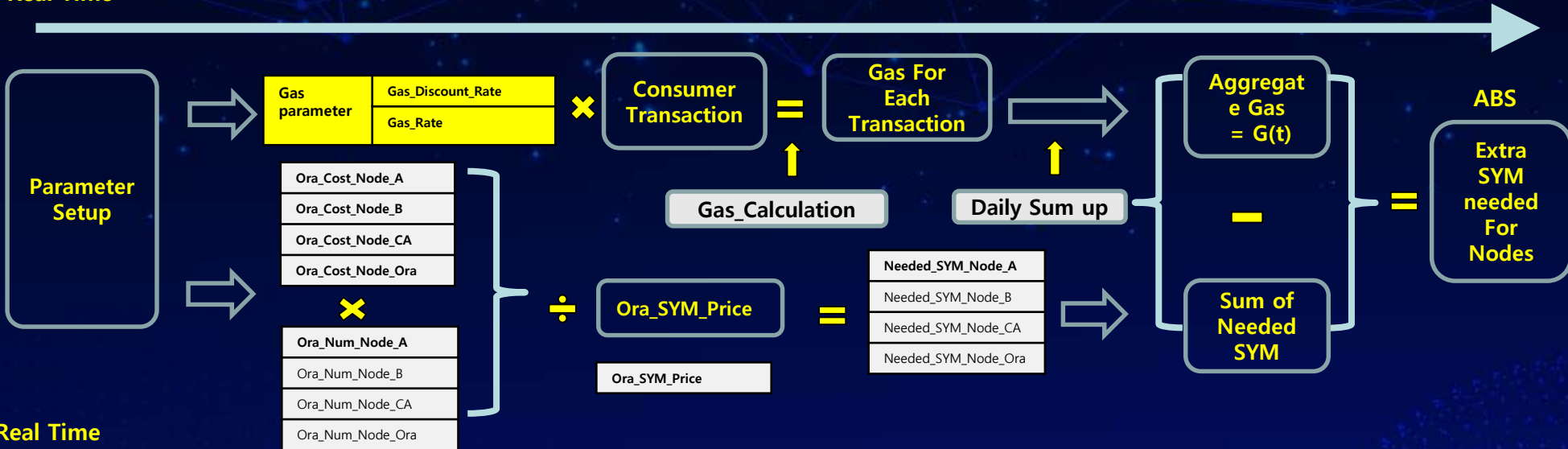
### 3. Fair token economy



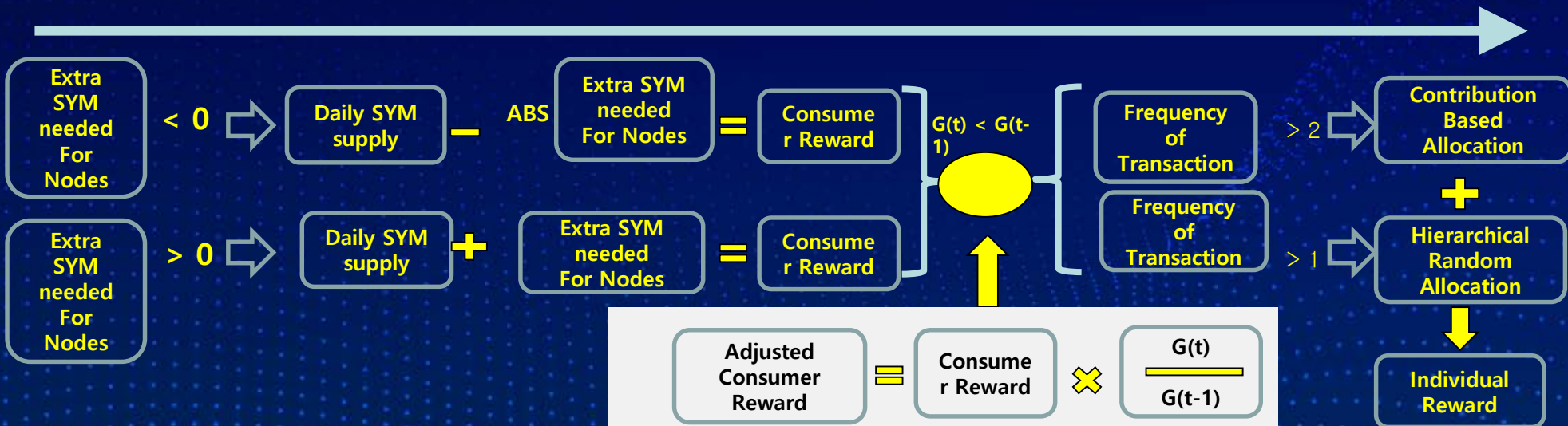
- Incentive Compatible Mechanism
- Gas Aggregator
- Periodic Coin Distributor
- Token Value Stabilizer
- Fair Sharing Scheme
- Stable Gas Oraclizer

# 3. Fair token economy

Real Time



Real Time



# 3. Mature token economy

Title	SymVerse Mechanism - SYM Supply Function – Daily SYM Supply
<p style="font-size: 2em; color: yellow; font-weight: bold;">S(t)</p>	<p>(1)</p> <ul style="list-style-type: none"> <li>• t: Days lapsed after genesis block creation date</li> <li>• M(t) :Total number of SYM supplied at time t = M(t)               <ul style="list-style-type: none"> <li>= Sum of new SYM from t =1 ( genesis block)</li> <li>= Sum of new SYM supplied every day after genesis block</li> </ul> </li> <li>• MM = 1,000,000,000</li> <li>• IEO =900,000,000</li> <li>• S(t) = Upper limit of of Daily SYM supply</li> <li>• CHISQ.DIST = chi-square distribution function probability density function</li> <li>• CHISQ.DIST(time, degree of freedom)</li> </ul> <p>(2)</p> $M(t) = M(t-1) + S(t)$ <p>(3)</p> $S(t) = \{0.04 \cdot \text{CHISQ.DIST}(t/365 \cdot 4, 38) + 0.0005\} \cdot \text{MM} / 365 \cdot 4$ <p>Excel function =((0.04*CHISQ.DIST(t/365*4,38,0)+0.0005)*10000000000)/365*4</p>

# 3. Fair token economy

## Reward Allocation Mechanism

### Producer & Consumer reward allocation by used gas

Condition	Producer	Consumer	Work node
$\text{gas70\%} + \text{supply70\%} \leq \text{cost}$	$\text{gas70\%} + \text{supply70\%}$	supply30%	gas30%
$\text{gas70\%} + \text{supply30\%} \leq \text{cost} < \text{gas70\%} + \text{supply70\%}$	$\frac{\text{cost}}{[\text{gas70\%} + \text{supply } X\%^{1}]}$	supply(100-X)%	gas30%
$\text{gas70\%} \leq \text{cost} < \text{gas70\%} + \text{supply30\%}$	$\text{gas70\%} + \text{supply30\%}$	supply70%	gas30%
$\text{gas70\%} < \text{cost}$	$\text{cost} + \text{supply30\%}$	supply70% + extraGas <sub>2)</sub>	gas30%

1)  $30 < X < 70$

2) Extra Gas =  $\text{gas70\%} - \text{cost}$

# 3. Fair token economy

## Reward Allocation Mechanism



- producer는 최소 supply의 70%를 reward 받음
- producer는 최대 supply의 30% + cost를 reward로 받음
- consumer는 최초 supply의 30%를 reward 받음
- consumer는 최대 supply의 70% + extra gas를 reward로 받음(gas 사용량은 거래가 많아지면 제한없이 커질 수 있으므로 consumer reward는 upper limit 없음)
- work node는 gas 사용량의 30%를 reward 받음



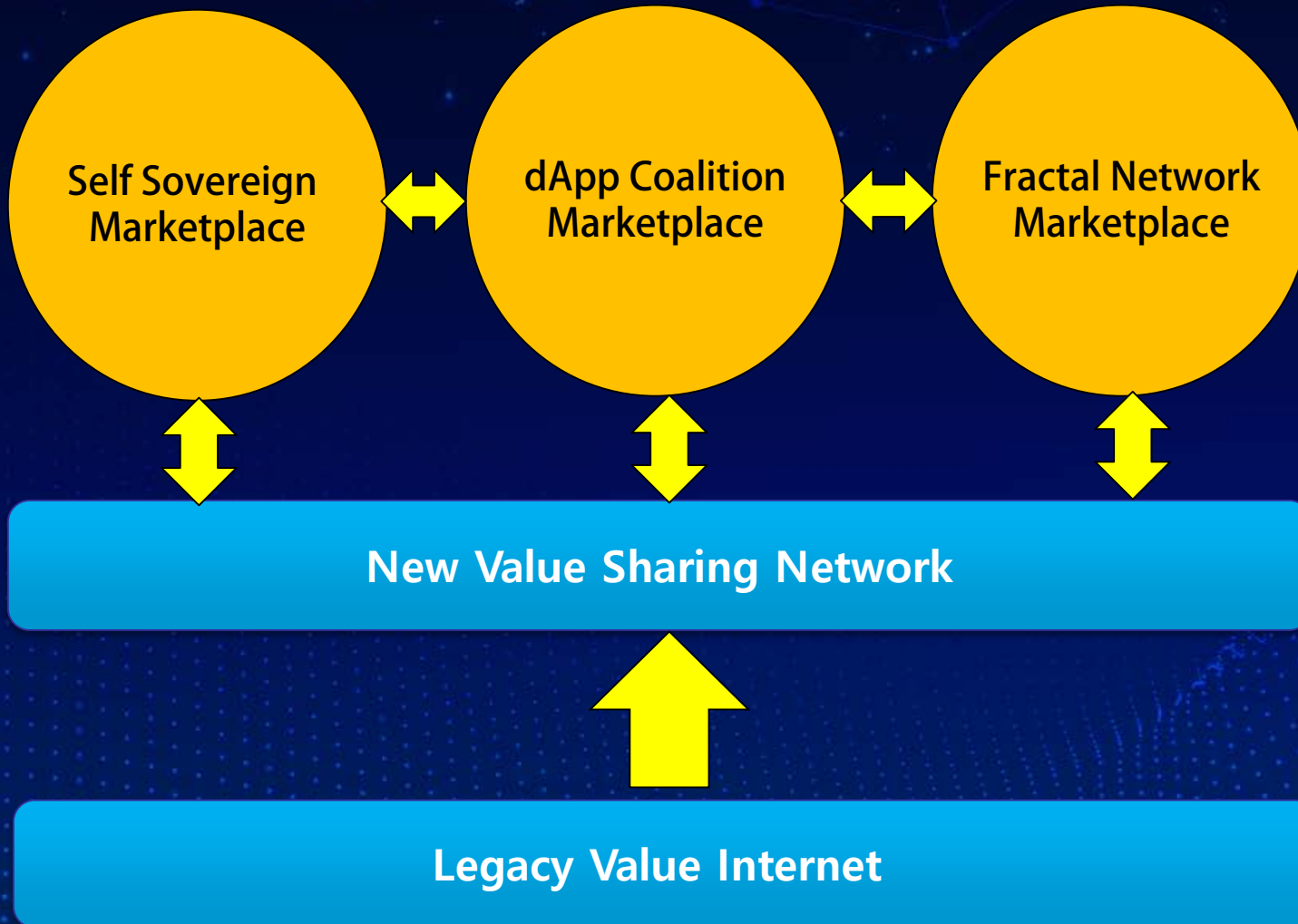
## 4. Flexible regulatory resistance

- **KYC / AML module**
  - **SymID : Role field : AML**
  - **Citizen Alliance Server : KYC**
- **Wallet Diversity for Fintech compliance**

## 5. Concrete technology roadmap

- 메인넷을 단계별로 개발 완성하여 3개의 블록체인플랫폼을 상용화
  - Virtual Chain : Independent CA server with SymVerse
  - Fractal Chain : Separate blockchain with SymID
  - SymChain : 9개의 블록이 동시에 작동되는 버전
- 블록체인별 목표시장의 구분을 통한 생태계 연동 다각화
  - Commercial Chain : Private Chain, Public domain
  - Fractal Chain : Large on chain data and social chains
  - SymChain : small and medium dApps and individuals

# 5. Concrete technology roadmap





SymVerse

B E T T E R W O R L D

감사합니다 (Thank you)