

FAQ 토크박스

질문 답변

연재 강좌

정보 자료



이더리움 주간 뉴스(17.04.23)  
 CoinKorea 캘린더 공유  
 이더리움 데브미팅 14 기록 (4/21)  
 라이스대 비지니스 블록체인 컨퍼런스 시리즈  
 4월 4주차 가상화폐 관련 뉴스입니다.  
 이더리움 네임 서비스(ENS) 재론칭



검색

이더리움 dApp 블록체인 비트코인 Pos Ico ens 코스모스

## 블록체인 2.0 | 라이스대 비지니스 블록체인 컨퍼런스 (4)

작성자 atomrigs (50.♡.129.♡) 17-04-28 05:23 조회 86회 댓글 0건

목록

라이스대에서 있었던 블록체인 컨퍼런스 자료 시리즈입니다.

앞 편들은 다음 링크에서 찾아 보실 수 있습니다.

1편  
<http://www.chaintalk.io/archive/lecture/673>

2편  
<http://www.chaintalk.io/archive/lecture/684>

3편  
<http://www.chaintalk.io/archive/lecture/685>

이번 편에서는 Pokitdok 으로 시작합니다. CTO 인 Ted Tanner 가 발표자로 나왔습니다. 블록체인 기술을 헬스케어 데이터 메니지먼트에 활용한 사례입니다.

<https://pokitdok.com/>



Computing the Contract:

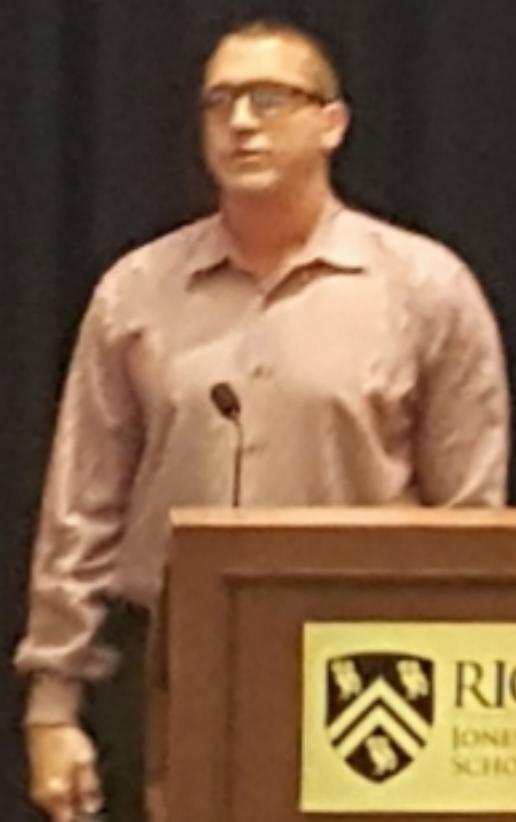
# Why Smart Contracts are the Asset

Ted Tanner, Co-Founder & CTO

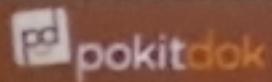
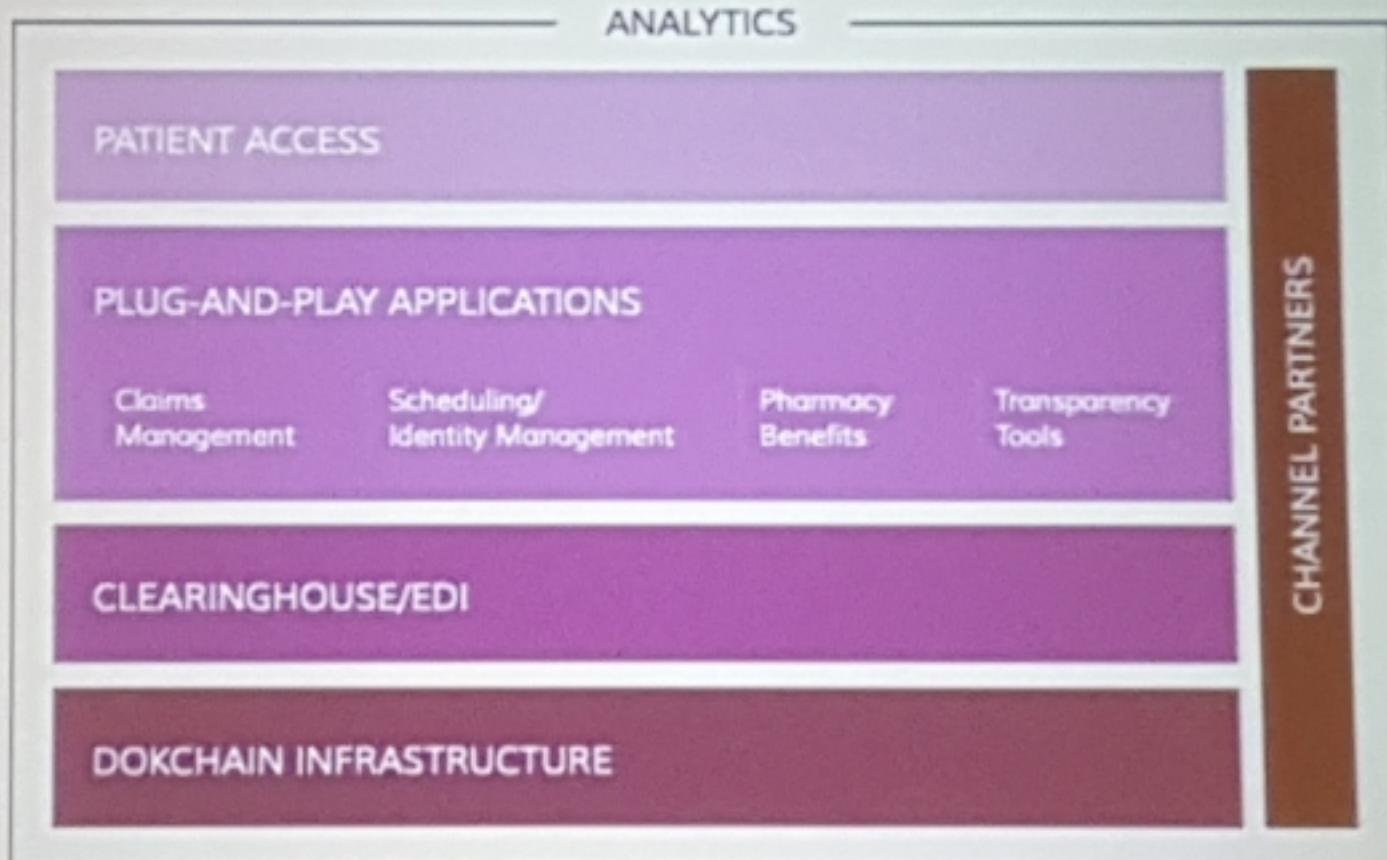
@tctjr

Jones Graduate School of Business at Rice University

*Business and the Blockchain 2017*



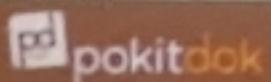
## The PokitDok Platform



Healthcare data is isolated by function:



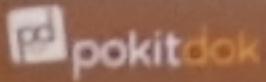
Creating seamless consumer experiences and new business models from these silos is costly and time consuming.



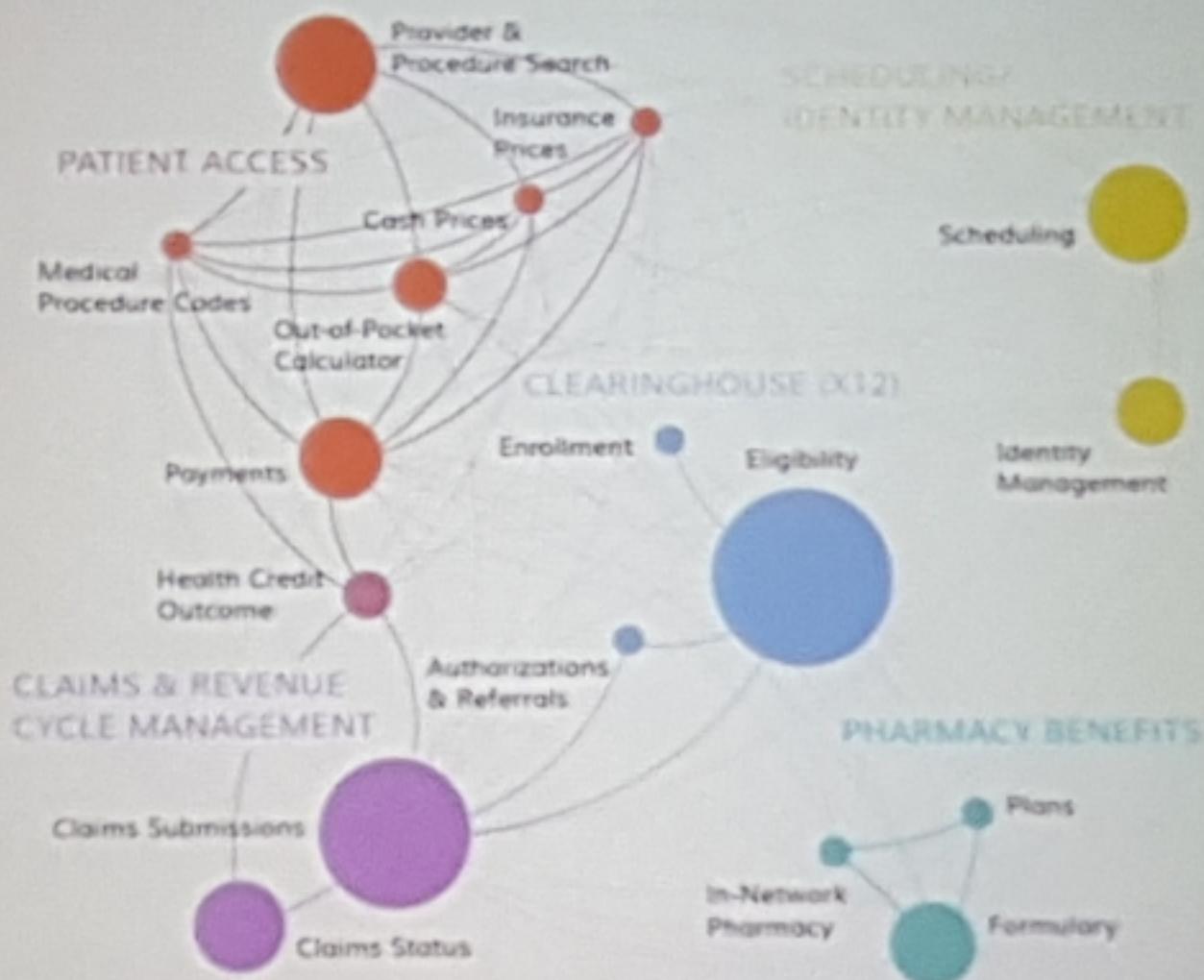
PokitDok frees and connects the data:



Enables developers to quickly and easily integrate healthcare data into any app, website or service.



## Graph Theoretic Platform



## The Rules

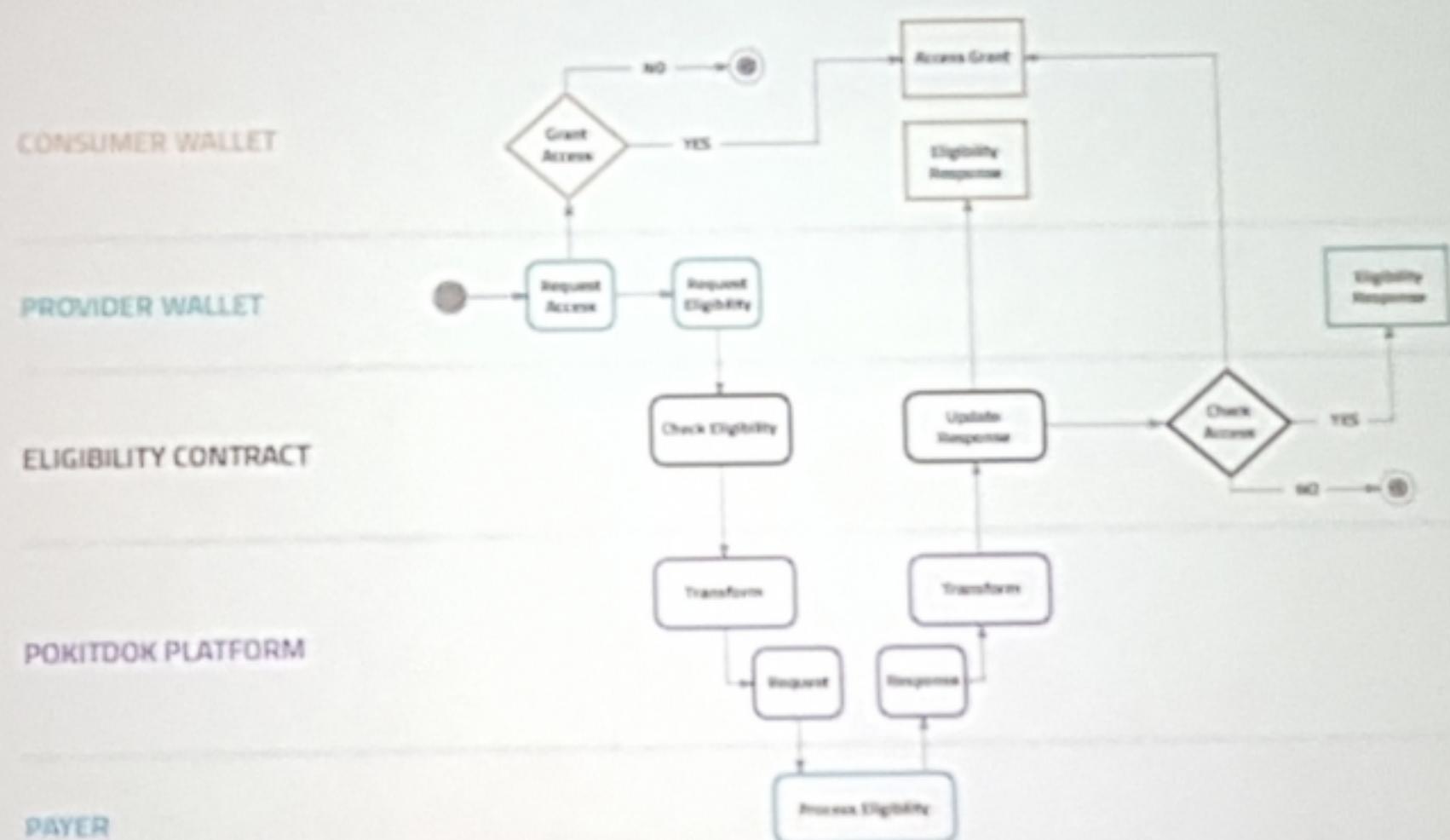
80% of operational rule and rule sets are locked within  
Store Procedures in SQL databases.

## Smart Contract Considerations

- Expressing business logic as computer programs that **self amend**
- Representing the events which trigger **that logic** as messages to the respective programs
- Using **digital signatures** to prove who sent/recv'd the messages
- Connecting and placing the programs, messages and signatures on a blockchain

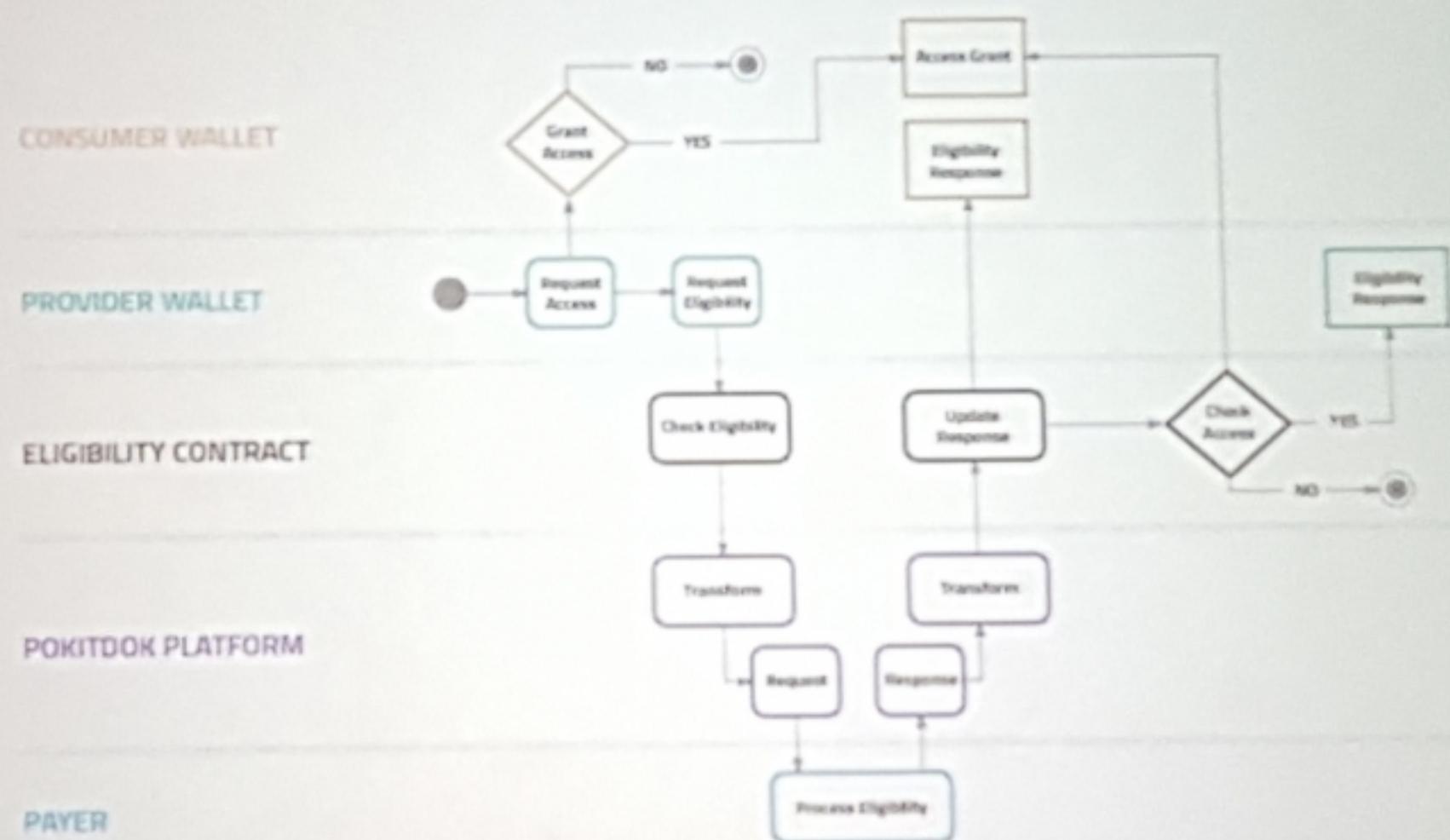
## Next: Patient-Centered Transactions

Smart contracts are a centerpiece



## Next: Patient-Centered Transactions

Smart contracts are a centerpiece



## Agent Based Systems

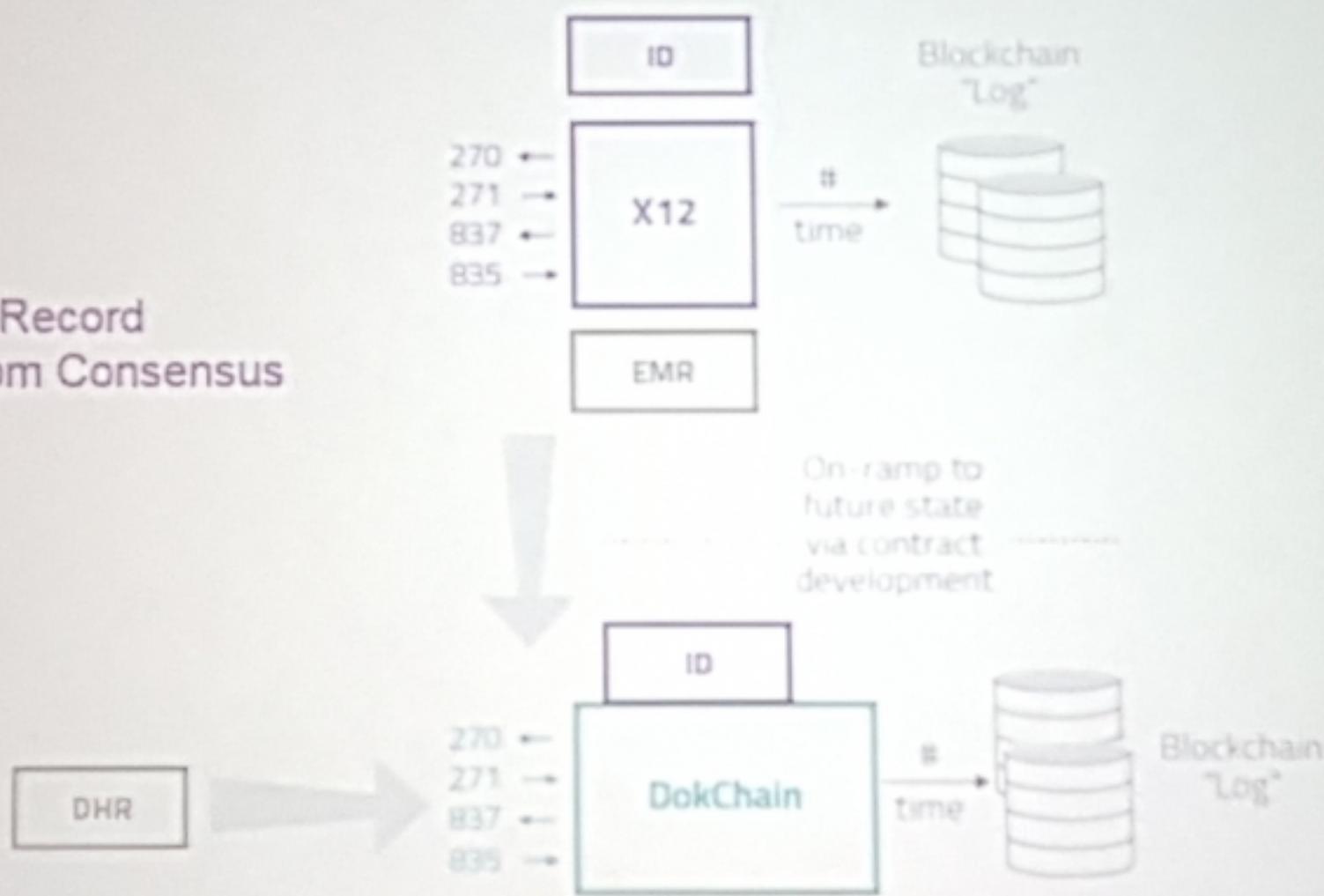
- Agent systems address the effect of rule sets on assets by modeling the population dynamics of different entities.
- Agents represent per asset or per contract behaviors.
- Genetic Programming can be applied to rule sets to derive new optimal models (and utility functions) (e.g. Self Amend).

## Agent Based Systems

- Given we are going to need the contracts to self amend
  - Predisposes us to genetic programming principles
    - Also a vote for non-turing DSLs
- These methods are well known
  - Adds a level of computational complexity
  - Need for computational models to be abstracted

# Smart Contracts and Disintermediation

Digital Health Record  
Assembled from Consensus  
Of ID



의료 관련 솔루션 업체가 하나 더 있었는데요, 이름도 매우 멋집니다. Hashed Health.

Giles Ward 가 발표를 했습니다.



*In 2016 the Americans spent an estimated \$3.3 trillion on health care.*

*It is being projected that we will spend \$4.5 trillion on health care in 2019, and \$5 trillion by 2022.*

*- CMS National Health Expenditure Projections*

## Healthcare & Blockchain



- Healthcare's limiting factor is its closed, controlled operating systems, and a lack of interoperability between entrenched silos and market competitors.
- Healthcare operates under a complex and overlapping regulatory regime.
- 15% of all healthcare expenditures spent on revenue management & processing.\*
- Commercial Plans alone generate 16 billion administrative transactions annually, 20% processed manually.\*
- 4 billion prescriptions annually.\*

\* <http://www.caeh.org/cehs/default/files/explorations/index/report/2015augh-index-report.pdf>  
<http://www.caeh.org/cehs/default/files/explorations/index/report/2015augh-index-report.pdf>  
<http://www.topmeetsinhealthcare.com/challenges/>

## Skeptical entities need a framework

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**Make it simple so smart people can apply the idea**

### OVERVIEW

Hashed Health is a team of healthcare experts introducing real solutions to real healthcare problem



A collaborative healthcare innovation company bringing together leading healthcare enterprises to advance distributed ledger solutions for the unique issues and regulatory regime of the healthcare industry.

Hashed Health leads a technology and vendor neutral forum to identify, research, design and engineer optimal and timely solutions for healthcare end users.

## HASHED HEALTH OVERVIEW



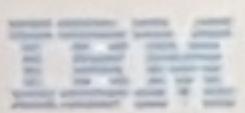
### Business Layer

Healthcare Business /  
Clinical Overlay

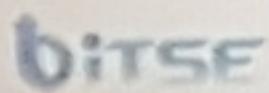
Smart Contracts, Wallets,  
Dapps, Integration

### Blockchain Protocol Layer

Blockchain Consensus  
Blockchain Cryptography &  
Hashing  
Identity Services



HYPERLEDGER PROJECT



ethereum



Hyperledger Quorum

HASHED HEALTH

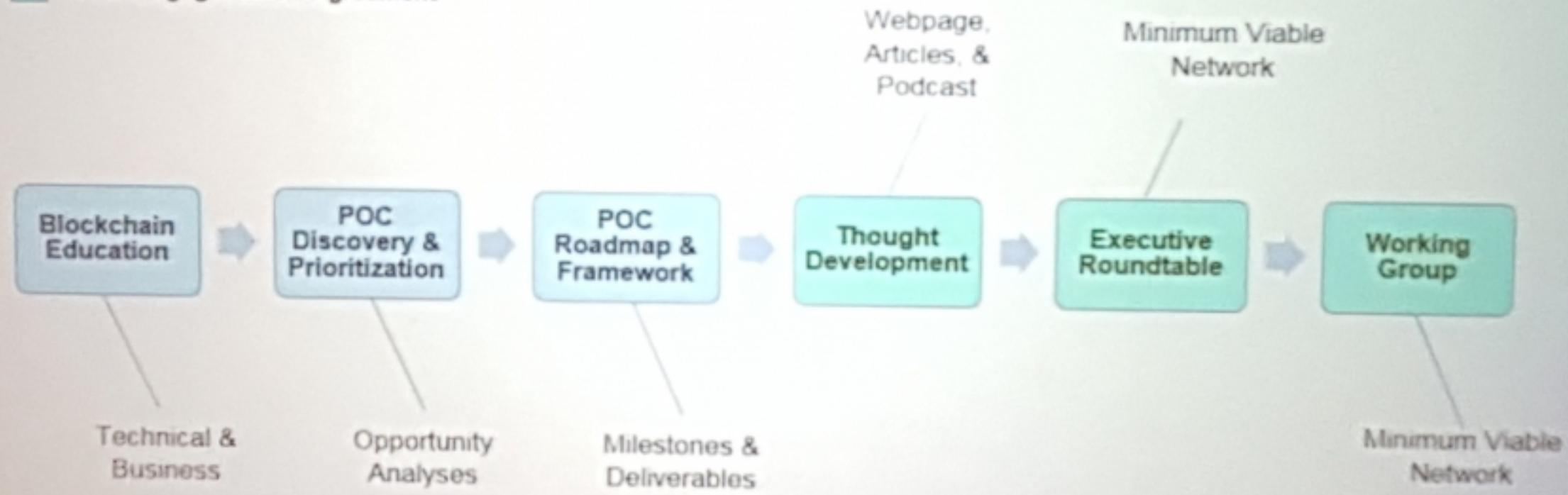
# Product

+

# Network

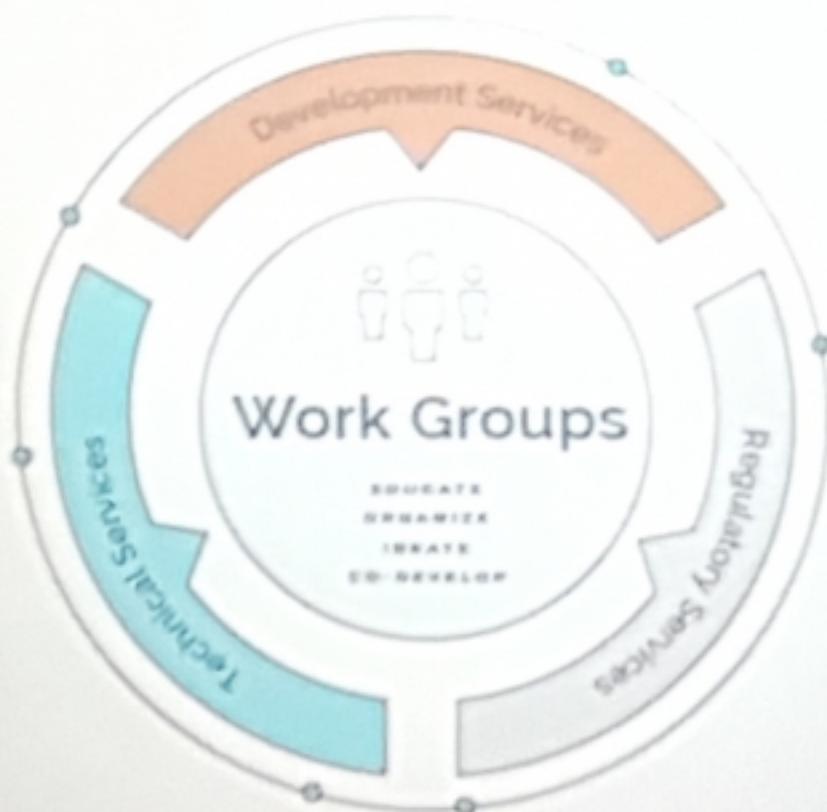


- General Consortium Fee & Agreement
- POC Engagement & Agreement



## HASHED HEALTH OVERVIEW

Hashed Health is a team of healthcare experts introducing real solutions to real healthcare problems.



## Consortium & Work Groups Overview

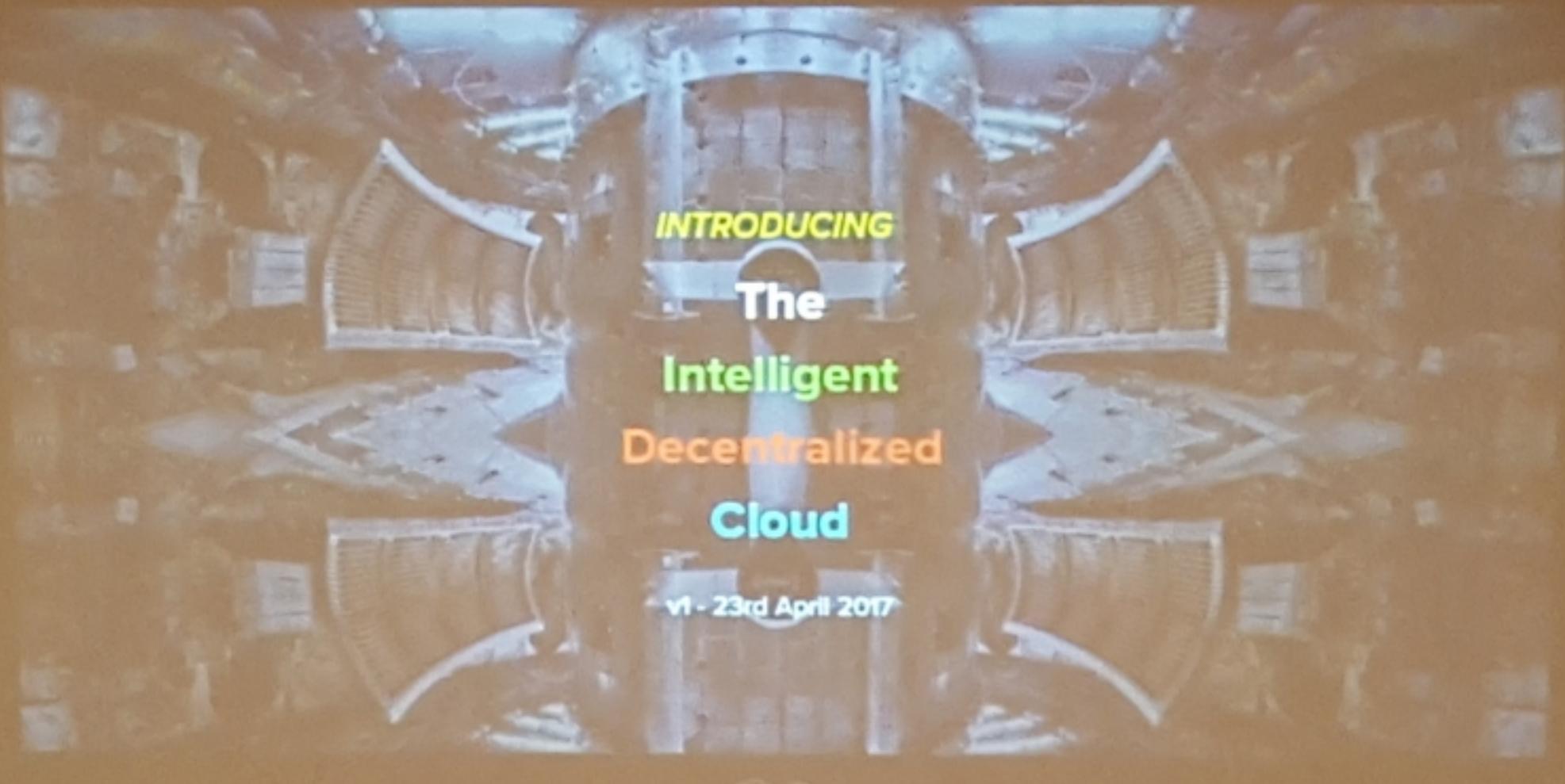
- Low-barrier General Consortium Membership available for education, collaboration & organization of market.
- Member organizations span the healthcare market Providers, Payers, Solutions Providers Supply Chain Revenue Cycle, Pharma, Services & Consulting Academic / Research, Non-profits, Government Regulatory
- Hashed Health convenes Consortium Working Groups to originate / review / co-develop / refine "proof of concept" blockchain designs and commercialization platforms
- Work Group "Proof of Concepts" result in a POC Agreement that defines ongoing commercial relationship with members

↳ [www.consortium.rn](http://www.consortium.rn)

의료분야의 데이터 관리가 매우 뒤쳐진 것은 어느나라나 마찬가지인 것 같습니다. 블럭체인 기술 도입이 가장 큰 성과를 낼 수 있는 분야라는 확신이 들더군요.

다음 소개 할 프로젝은 Dfinity 입니다. 발표자는 Dominic Williams 입니다.





### GENERATION I

2009



Address	Balance	AC Script
0x0C82...	2 BTC	P2H
0xA914...	9.1 BTC	Multisig
...	...	...

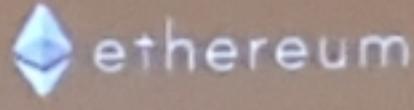
Virtual Ledger

Shared state

Proof-of-Work

### GENERATION II

2015



Virtual Blockchain Computer

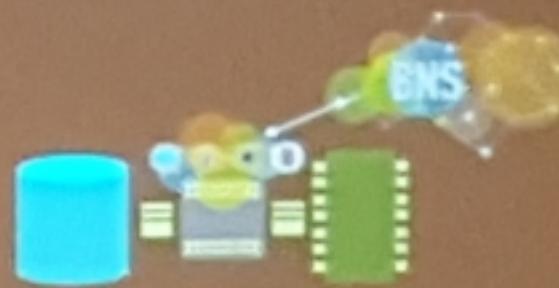
- Install smart contract software
- Create arbitrary systems

GHOST

Casper  
and the GHOST

### GENERATION III

2018



Intelligent Decentralized Cloud

- Algorithmic governance
- VBC is performant
- VBC can scale-out

Threshold Relay, Validation Towers...

### GENERATION III

2018



Intelligent Decentralized Cloud

Algorithmic governance

VBC is performant

VBC can scale-out

### GENERATION IV

2019



Cloud hosts PNI "crypto-flat"

- Piggybacks local flats
- No custodian args
- Dfinance

### GENERATION V

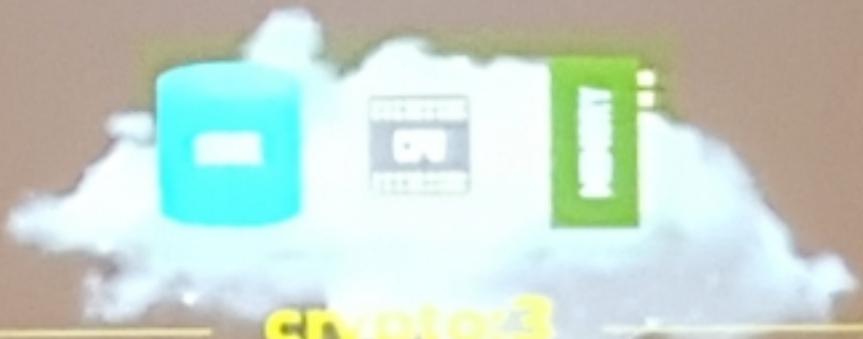
2020

?

Source: DFINITY Foundation Research

## Performant Blockchain Computer

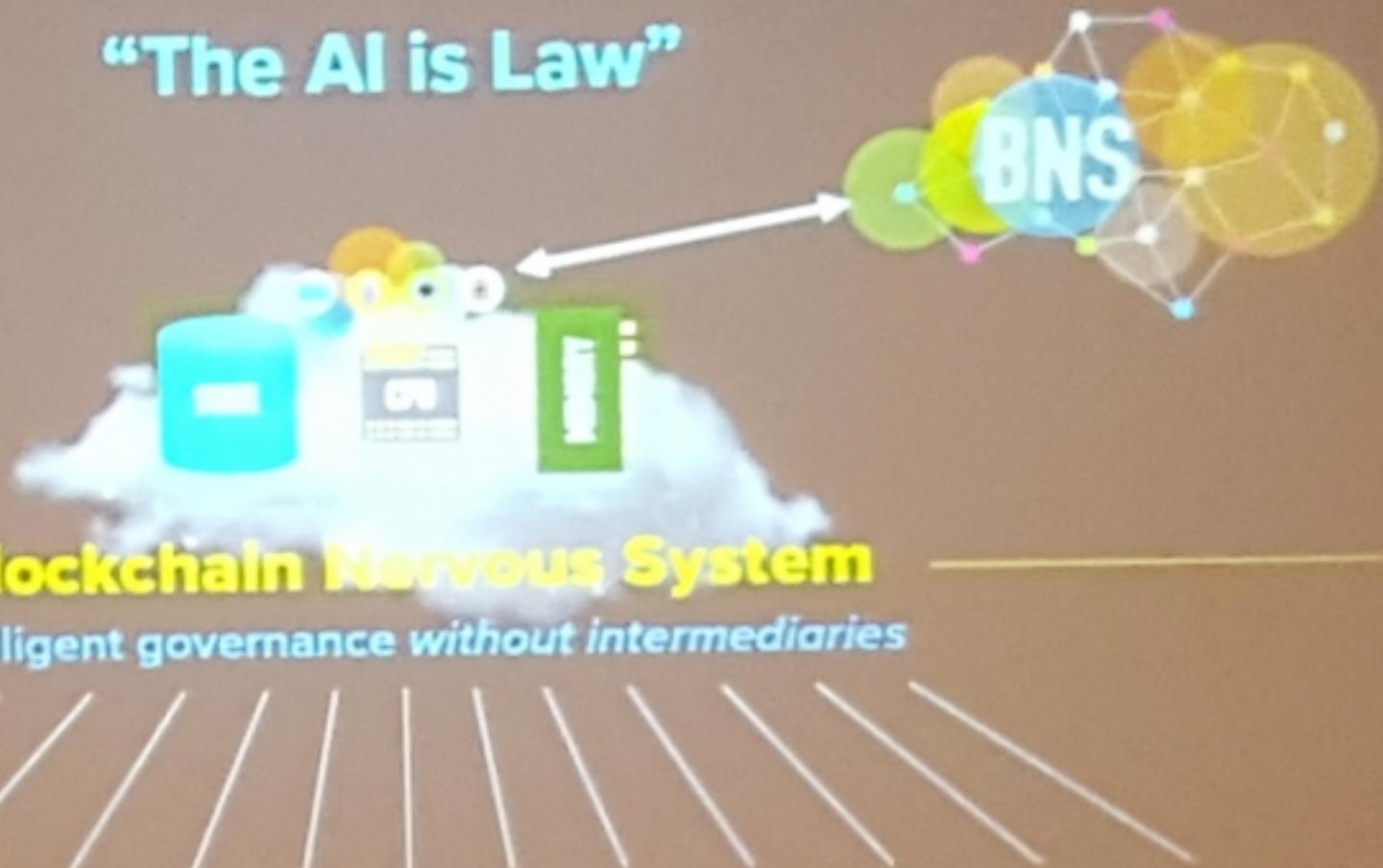
FINALITY 3 - 75s



Threshold Relay: fast consensus + randomness



**“The AI is Law”**



DFINITY

## Project Timeline

Jan 2014 <b>Pebble Project</b> CC for micropayments Custom BFT consensus systems	July 2016 <b>DFINITY Stiftung</b> Incubation by String Labs Organizational build-out	July 2017 <b>Test Network</b> Copper Release beta Seeing is believing!
↓ Jan 2015 <b>DFINITY Project</b> Infinite blockchain computer New idea: apply “randomness”	↓ Feb 2017 <b>Seed Fundraising</b> \$10M new funds for R&D Build research SV & Zurich	↓ August 2017 <b>Main Fundraising</b> Est. 20M CHF cap Then network launch...

DFINITY

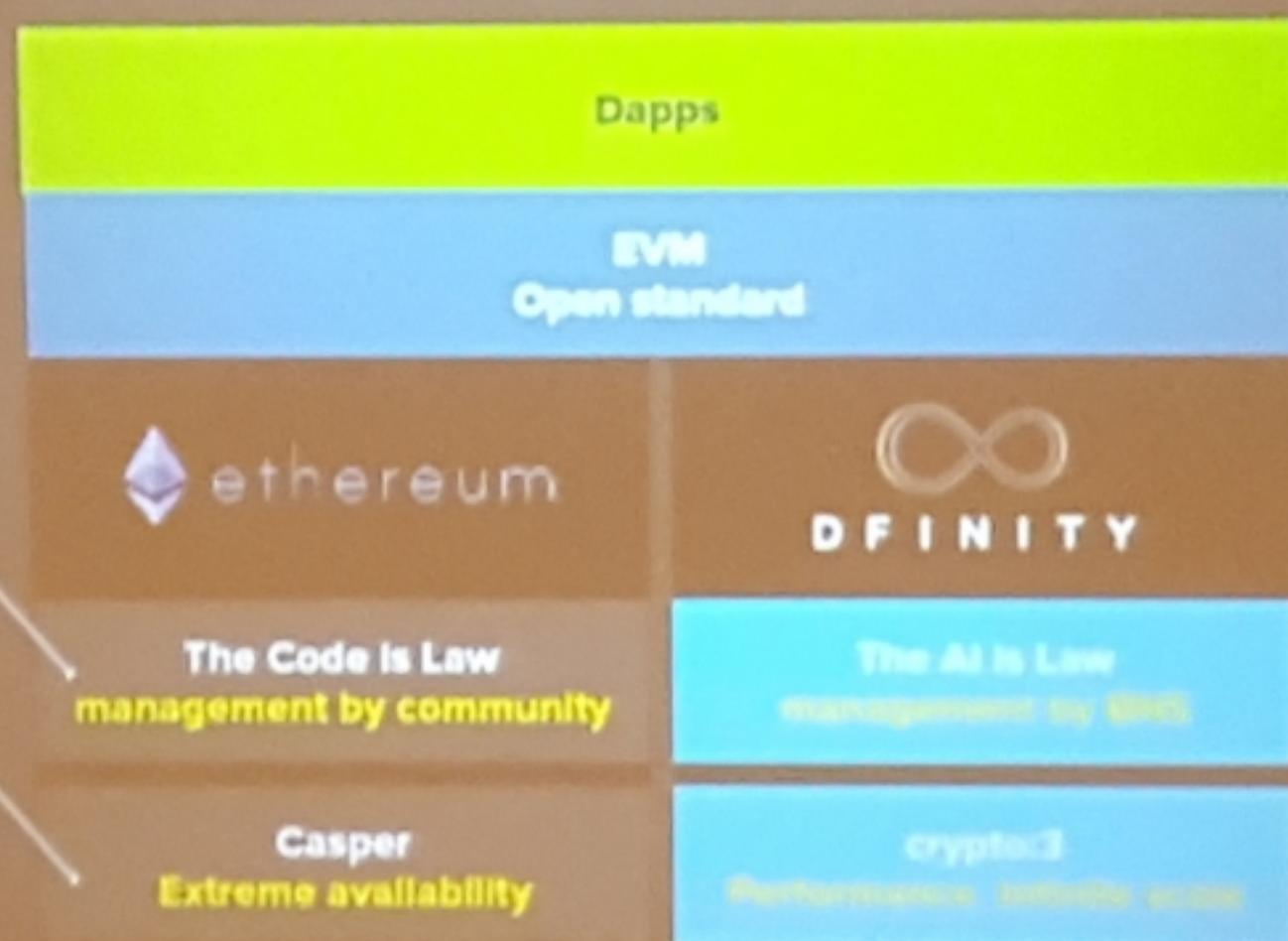
## Broaden stack with sister network



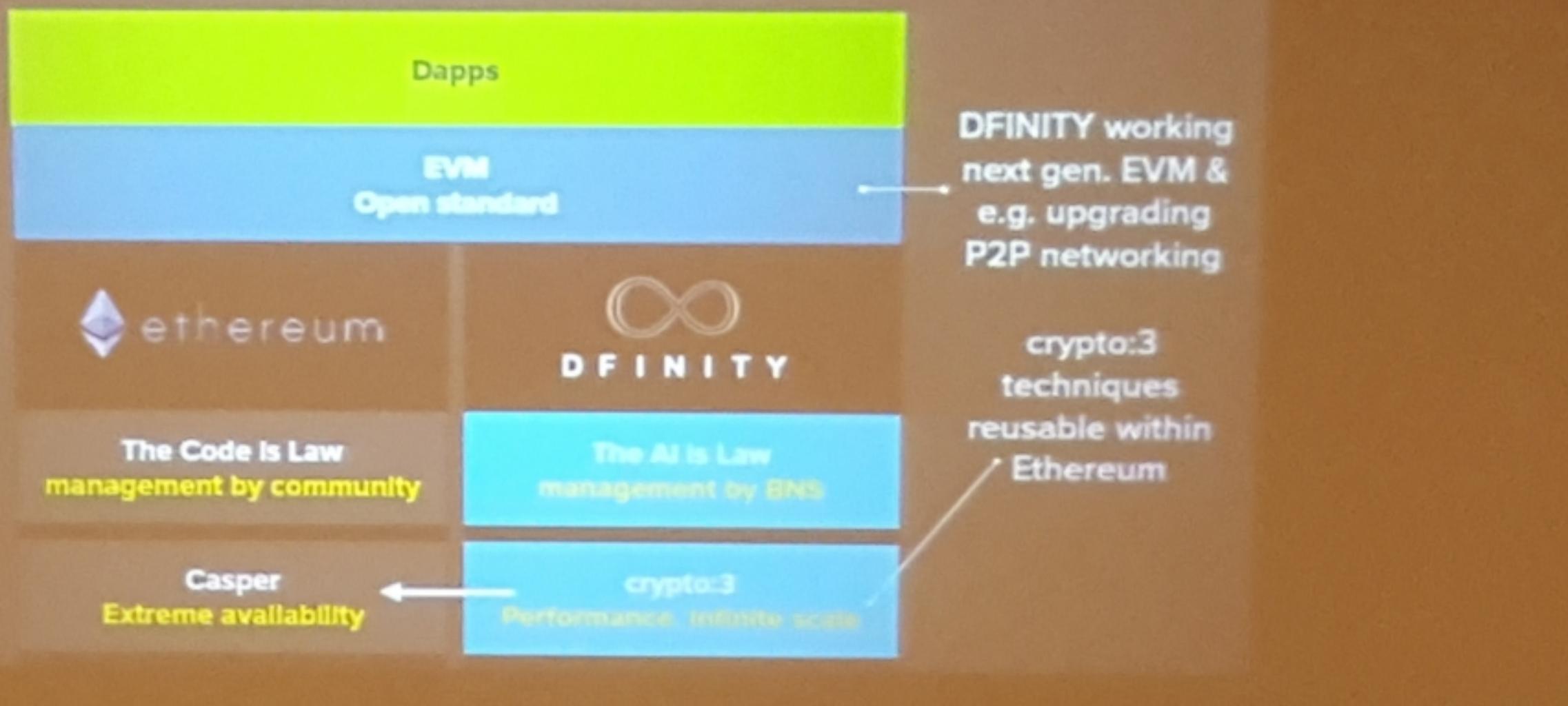
**DRY – extend, do not imitate...**

The Code is Law  
is the preferable  
paradigm for  
many applications

Extreme  
availability  
preferable for  
many fiduciary  
applications



## Benefits of technology sharing



## Decentralize Cloud Mining

Reduce centralization. No pools. Replicate outside of AWS data



String Labs in Palo Alto is working on consumer DFINITY mining & neuron device concepts

## Decentralize Tech Intermediaries

Scale-out capabilities are required for mass market open source businesses

Sharing



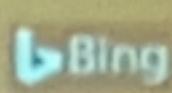
Micro-blogging



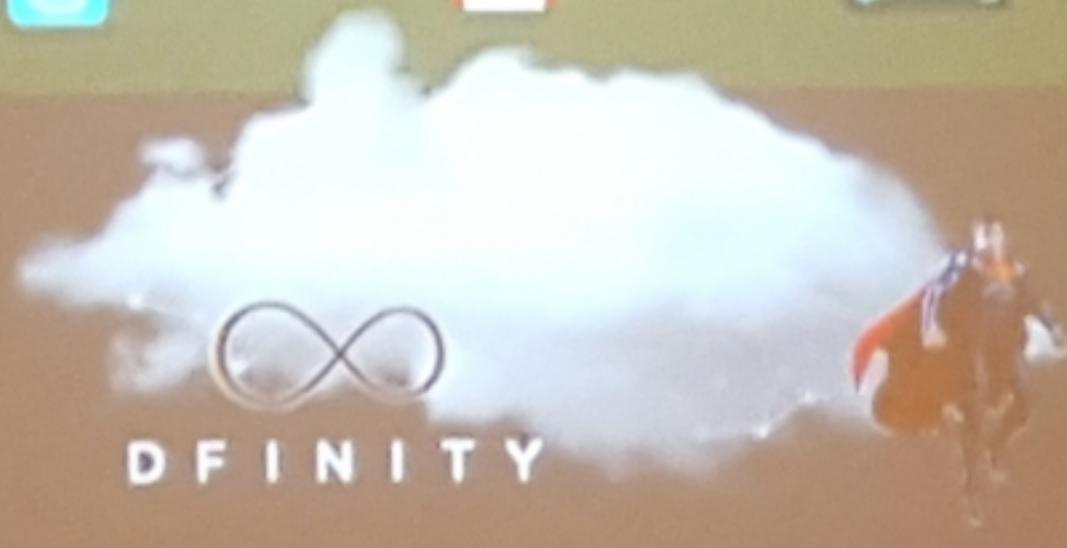
"Email"



Search



Storage



## Decentralize Fundamental Services

Provide special features and functionalities necessary



Decentralized Commercial Banking

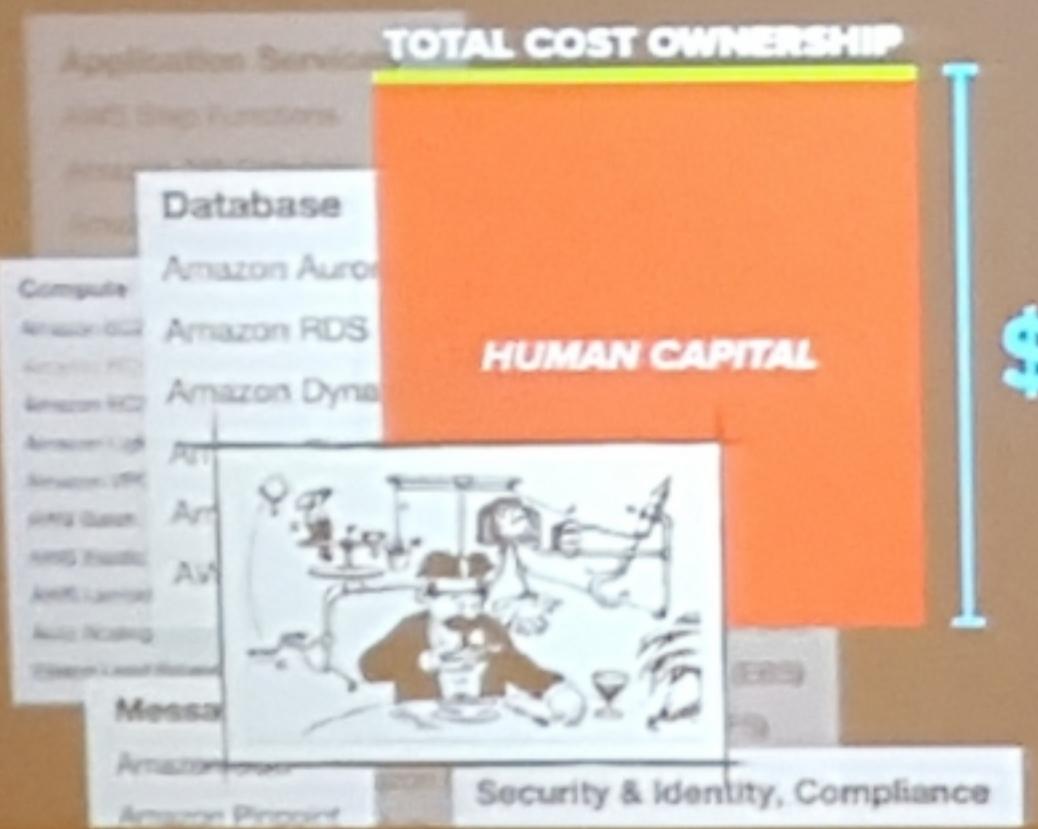
PHI applies unmanipulable randomness  
provided by DFINITY in systems that  
originate from autonomously...



# Kill Enterprise IT Costs

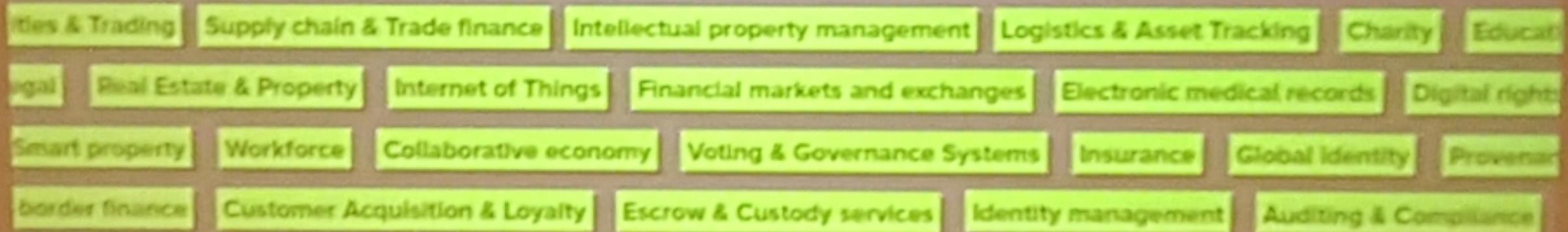
Traditional IT

Decentralized Cloud



## Reimagine Enterprise IT

Blockchain properties make reinvention possible



Autonomous  
systems w/o intermediaries

Unstoppable  
no servers to fail

Verifiable  
know what code you execute

Cyberspace  
no servers so no geography



Tamperproof  
no servers to meddle with

Shareable  
Open code and governance

Simple  
distribution abstracted away

Interoperability  
no server boundaries

무지하게 앰비셔스한 프로젝인데 과연 ....

5편에서 계속됩니다....

 atomrigs 5,283 TALK 2d19FDE5B4Cac4e1AfA54ee749C368C68c18316c

여보슈! 당신의 살림살이도 비참한 모양인데 지금 가는 곳이 어디시우? 쓸데없이 돌아다니지 말고 우리 적당으로 들어와 한 뜻 보는게 어떻겠소?(역사 속의 야담 - 풍류열전)

## 댓글목록

등록된 댓글이 없습니다.

목록

## 연재 강좌

전체	나도dApp개발	블록체인2.0	덕후들의 번역놀이	금마 마이닝	블록체인 메트릭스	로움의 암호화폐	까짓거 한번C	아침커피 컴파입문	기타
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Total 112건 1 페이지

RSS

번호	제목	글쓴이	날짜	조회	추천
공지	블록체인 2.0   라이스대 비지니스 블록체인 컨퍼런스 시리즈 목차 2 	 atomrigs	04-28	208	4
공지	공지   연재 강좌 이용 안내 2 	 CHAIINTALK	03-18	185	2
110	블록체인 2.0   라이스대 비지니스와 블럭체인 컨퍼런스 비디오 모음 1 	 atomrigs	05-03	111	0
109	블록체인 2.0   라이스대 비지니스 블록체인 컨퍼런스 (6) 1 	 atomrigs	04-28	104	0
108	블록체인 2.0   라이스대 비지니스 블록체인 컨퍼런스 (5) 1	 atomrigs	04-28	98	1
열람중	블록체인 2.0   라이스대 비지니스 블록체인 컨퍼런스 (4)	 atomrigs	04-28	86	1
106	블록체인 2.0   라이스대 비지니스 블록체인 컨퍼런스 (3) 	 atomrigs	04-28	114	1
105	블록체인 2.0   라이스대 비지니스 블록체인 컨퍼런스 (2) 	 atomrigs	04-28	204	0
104	블록체인 2.0   라이스대 비지니스 블록체인 컨퍼런스 (1) 10 	 atomrigs	04-27	575	10
103	덕후들의 번역놀이   블록체인덕후들의 프린스턴 블록체인교재 번역놀이 : 1장 (28P 끝 ~ 30P) 1 	진리	04-18	368	1
102	금마 마이닝   바이오스타 TB250-BTC 보드의 특성 4 	 금마	04-07	440	3
101	덕후들의 번역놀이   블록체인덕후들의 프린스턴 블록체인교재 번역놀이 : 1장 (18P-21P) - 완료 	하늘코인	04-02	523	1
100	덕후들의 번역놀이   프린스턴 블록체인 교재 번역 p31-p32 	Culap	04-01	495	1
99	로움의 암호화폐   [특허] 제가 출원한 암호화폐 송금 관련 6 	loum	04-01	620	0
98	로움의 암호화폐   다중 계정 등에 의한 시빌 문제 1 	loum	03-29	359	2
97	로움의 암호화폐   합의 알고리즘에 대한 쉬운 설명 2 	loum	03-29	470	0
96	로움의 암호화폐   Mastering Bitcoin 책 소개 4 	loum	03-29	425	0
95	로움의 암호화폐   이더리움 엘로페이퍼를 잠깐 보고 든 생각.... 	loum	03-29	375	0

1 2 3 4 5 6 맨끝

제목 ▾ 검색