Dimension 101

Introduction:

The project Dimension was initiated through private funding in July 2017 by founder Fernando Liu. The mission of the project is to provide an enterprise-grade blockchain network service that focuses on cross-chain interoperability and privacy protection while solving flexibility, availability, and scalability issues on distributed networks, in order to help businesses achieve better network efficiency and data security.

History：

With the entrance of 2017, there was a sudden bloom of initial coin offerings (ICOs) in which even just a white paper could easily raise a few hundred million dollars. Fernando believed this kind of funding approach would open the project against greater risks legally and financially.

First, the project initiator could do anything with the funds without any monitoring and regulating of the uses, which could lead to major project failures such as developmental delays or missed milestones. Second, one-time full financing would only encourage the project initiator to do less work, or even worse, to grab the money and run. All things considered, Fernando decided to take a conventional step-up approach, through private funding such as angel and seed rounds, to develop project Dimension.

In the meantime, a heated discussion of consensus mechanisms occurred between the legitimacy of proof-of-work and proof-of-stake mechanisms. Fernando concluded that the question should not be focused on the absolute good or bad of a mechanism, but rather the consensus mechanism is ideal for a protocol in a specific scenario.

With this intention and assistance from Alvin Chain, the angel investor of Dimension, Fernando co-ordinated with the Hong Kong-based blockchain research institution ABC Labs, to initiate the research and development phase of Dimension. They directed their focus on multi-consensus applicability, interoperability, and privacy protection. In this case, businesses could adjust and switch different consensus mechanisms according to different business scenarios; meanwhile, the security of transaction data and information privacy could be further enhanced.

With nearly two years of the R&D process, the launch of the Dimension mainnet is finally approaching!

Distribution：

Total Supply： 2,000,000,000 DMCT

Community Reserves: 40%, 800,000,000 DMCT
These tokens will be reserved for future community development, including Dapp incubation, social marketing, offline meetup, and community contributor incentive. The tokens will be fully locked at the project initiation phase, and a certain portion of tokens can be released on an as-needed basis by the future announcement.

Private Sales: 30%, 600,000,000 DMCT
This tokens will be held by the project early financers, including cornerstone institutions and private investors. No public offering were made. There are different lock-up timeframes for different financing rounds, started from the initiation of circulation, and the maximum is up to four years.

Team Allocation: 20%, 400,000,000 DMCT
The tokens will be allocated as incentives for project founders, employees, and advisors, and there will be graded vesting period for 48 months (by month), lock-up period for 6 months, both started from the initiation of circulation, with an additional 18-months cliff vesting period. This means that only team members who have stayed with the project for more than 18 months can receive this incentive.

Foundation Reserves: 10%, 200,000,000 DMCT
The tokens will be reserved for Dimension Foundation's operations, including auditing, consulting, branding, researching, legal and overhead costs. Tokens will be fully

locked at the project initiation phase, and only a certain portion can be released on an as-needed basis by the future announcement.

Moreover, Dimension has both token repurchase/burn model and token re-offering mechanism, which represents a deflating economic model and an incentive mechanism. The token repurchase/burn program each year will be announced with a fair, open and transparent process. The token re-offering amount in a year will be 3% of the total circulating supply, and the distribution is as follows:

Rewards for Nodes: 1% annually
Rewards for Developers: 1.6% annually
Rewards for Governance: 0.4% annually

Features：

Cross-Chain Interoperability: constructing a HUB which interlinked different heterogeneous blockchain networks by relaying cross-chain technologies, this accelerates the implementation of cross-chain interoperability for assets and data among different distributed networks. It also empowers the functionality of on-chain data and information, which extends the boundary of blockchain commercialization.

Privacy Protection: implementing the privacy protection of on-chain data and private data sharing with immutable data ownership, by using innovative technologies such as homomorphic encryption and secure multi-party computing, this further appreciates the values of big data computing and trusted data sharing in distributed networks.

Flexibility: solving the interoperability problem among different consensuses such as PoW, PoS and DPoS by using a self-innovation technology - C.H.A.O.S., which contains three core modules: HPoS, Dynamic Node and ConsensusX, and to execute cross-chain for the compatibility and adaptivity of different business scenarios.

Availability: using the HPoS to ensure high availability and stability of blockchain network and to enhance the efficiency of block production. Meanwhile, the decentralized commerce framework - DeCommerce creates an ease-of-access blockchain solution for corporations, provides a data transmitting and trading platform for specific business models, and solves problems like data breach and privacy leak that businesses encounter all the time.

Scalability: expanding the sidechain structure by using multi-sidechain framework Dimension-X, which deploys tailor-made distributed architectures for some specific business models; consequently, this lowers the time and cost for business' blockchain

development. Further technologies such as layering and sharding will be included to improve massive scalability.

Consensus：

The consensus mechanism of Dimension using is Hybrid PoS (HPoS), and will be implemented in two phases, HPoS-P (PBFT + DPoS) and HPoS-R (RBFT + DPoS). The pros of HPoS are quicker block validation, faster transaction speed, and lower network consumption and operation cost; due to the integration of Byzantine consensus (BFT), this highly increases the stability and security of the network operation.

Incentive Mechanism：

Dimension's incentive system can be divided into the following categories:

Nodes Incentive
Dimension will apply the node incentive mechanism through DPoS. The node service provider can register as a node candidate through the system registration, and then become an active node operator through an open and fair stake voting process, so it can receive node rewards eventually by providing node services such as transaction verification, block production, and network broadcast.

Development Incentive
Dimension is an open source project, and we are committed to building a rich and diversified ecosystem. Through GitHub, a development and collaboration platform, developers can submit their codes or projects associated with Dimension. If their codes or projects are selected, after an audit and review process, the developers will be rewarded.

Governance Incentive (Staking)
Staking in Dimension is through a governance mechanism, which means the token-holders can stake their token by voting on community proposals, such as developing a new function or supporting new-chain interoperability, and receive their token rewards after a specific staking period.

Engagement Incentive
Dimension will carry out marketing campaigns before or after certain major events, such as new exchange listing or main net launch, in order to raise community awareness and engagement. Incentive programs like airdrops, bounties, and

contests will be announced on the official website or other official channels such as Twitter, Facebook, and Medium.

Community Incentive

Dimension will hold various community events, both online and offline, like hashtag campaigns, developer hackathons, and technical forums. The community builders, people who participate and help in these events, will be rewarded through their selfless and voluntary actions. For example, you could get rewards by organizing a local meetup in your city or promoting a new youtube video about Dimension online.

Development Phases：

First Phase: Acies, Q1 2019

General account system built, sidechain Dimension-E completed, testnet 1.0 released, InSight block explorer and Dawn wallet released.

Second Phase: Planum, Q3 2019

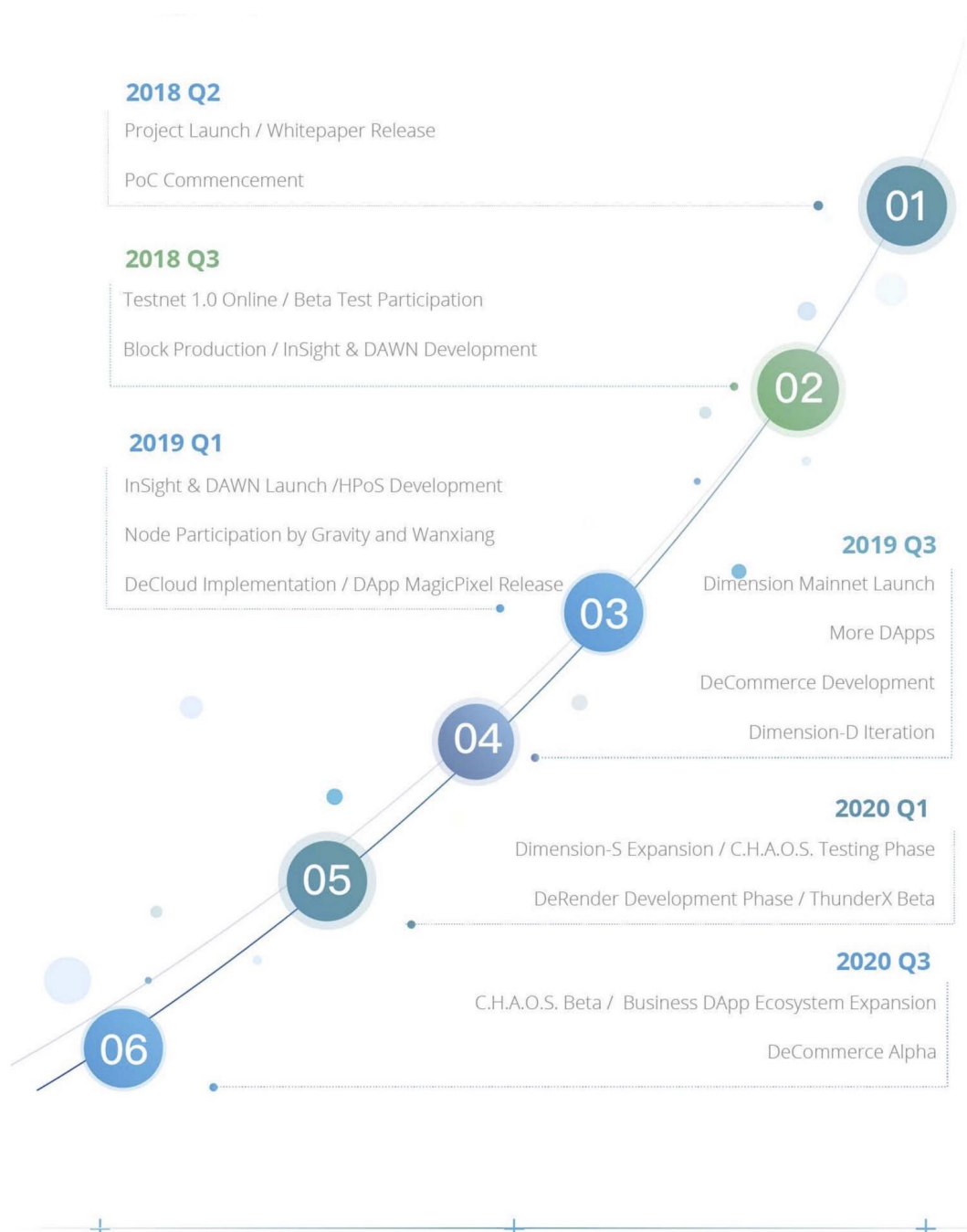Dimension mainnet launch, HPoS, Dynamic Node, DeCloud and other frameworks online, HPoS-P shifts to HPoS-R.

Third Phase: Cybus, Q1 2020

Dimension-S expansion, C.H.A.O.S. and ThunderX beta testing phase.

Fourth Phase: Tesseract, Q3 2020

ThunderX launch - implementation of isomorphic/heterogeneous cross-chain interoperability, DeCommerce beta testing phase.

Roadmap：

2018 Q2

Project Launch / Whitepaper Release

PoC Commencement

01

2018 Q3

Testnet 1.0 Online / Beta Test Participation

Block Production / InSight & DAWN Development

02

2019 Q1

InSight & DAWN Launch /HPoS Development

Node Participation by Gravity and Wanxiang

DeCloud Implementation / DApp MagicPixel Release

2019 Q3

Dimension Mainnet Launch

More DApps

DeCommerce Development

Dimension-D Iteration

03

04

2020 Q1

Dimension-S Expansion / C.H.A.O.S. Testing Phase

DeRender Development Phase / ThunderX Beta

05

2020 Q3

C.H.A.O.S. Beta / Business DApp Ecosystem Expansion

DeCommerce Alpha

06

Team：

Dimension Foundation

Founded by Fernando Liu in Singapore, the core duty of Dimension Foundation is to monitor and manage the development of Dimension with its ecosystem. It's dedicated to promote Dimension blockchain business and assist corporation to integrate business into Dimension network.

Leadership：

Fernando Liu
Founder & CEO

Fernando is the founder & director of Abacus, a clean energy private equity fund, and the former Asia-Pacific Region President of the Wall Street investment fund Barron Partners.

Fernando had participated in investing into more than 50 Chinese public companies, a list including companies such as FSIN, SPU, ONP, and HRBN, and assisted a few of them in their IPO launching on either the NYSE or NASDAQ stock exchanges.

Being a financial libertarian and avid environmentalist, Fernando believes Dimension can strengthen the connection between global corporate financial services and its use will further improve the current manufacturing inefficiency problems in China, achieving a new dimension for various industries.

Alvin Chan
Angel Investor & Consultant

Alvin is a blockchain believer and activist, founder & CEO of Magic Orange, and he also founded a mobile game company I-birdgame Network before. He established an innovative distributed traffic platform - "Xingyou", which has more than 10 million registered users.

He believes that blockchain technology right now is still at infrastructure stage, and the roadmap of Dimension will lead to a future of blockchain commercialization.

Randall Foster
Director of Global R&D

Randall Foster is a 20+ year accomplished entrepreneur, global business builder, sales and operational executive, and startup investor. Foster has founded, grown, advised, and invested in multiple businesses spanning hardware, software, and services, introducing innovations to multiple global markets. Foster is currently President & CEO at Sports Challenge Network.

Oliver Church
Director of Fintech Security

Being a cybersecurity expert, Oliver has worked as a software engineer and security consultant for numerous online payment related technology companies, including Krisfin Software and Jinyang Payment. His expertise shines in the design and maintenance of data security standards and policies along with the enumeration and auditing of security systems on all levels of the OSI model.

Oliver envisions to construct a fully secure and privacy-focused blockchain to diminish the risk of decentralized payment systems.

Applied Blockchain & Crypto Labs (ABC Labs)

Applied Blockchain & Crypto Labs (ABC Labs) is a leading development lab that focuses on researching blockchain technology and building decentralized solution. ABC Labs currently serves as the chief development team for delivering Dimension.

Leadership：

Skep Tsou
Chief Platform Architect

Skep is a veteran in the Chinese blockchain industry and serves as a Technical Consultant for Minsheng Life Insurance's Innovative Blockchain project. With close to 20 years of R&D experience, Skep previously served as the technical director at Shenzhou Tuyi and Shishanggou e-commerce platform and was in charge of program and platform development.

His passion with revolutionary technologies such as Artificial Intelligence, Internet of Things, and Robotics drove his interest into the rapidly growing space of blockchain, which he had participated in several R&Ds of blockchain projects since 2012.

Daniel Wong
Chief Research Officer

Daniel previously worked as the head of Morgan Stanley's ITR ERDWH Big Data project, and has served as the senior strategic and technical consultant at Huawei Shenzhen headquarters. With the accumulation of his decade-long experience in FinTech projects, he single-handedly constructed a multi-national team of developers specializing in business intelligence, big data, and the integration of new and innovative technologies.

Junyi Xie
Cryptography Expert

Junyi has over10 years of experience in cloud computing and distributed systems. He is a former software engineer and technical director in Amazon and Samsung SDS, and he was responsible for the development and maintenance of ACM at AWS cryptography, which commercialized cryptographic tools through AWS cloud computing services for businesses. Moreover, he is also a blockchain evangelist and columnist, and a co-founder of a technical community source project, NPC.

Supporting Institutions:

HashQuark
HashQuark, an associate company of Hashkey Group, is a staking pool institution committed to create a stable and convenient blockchain staking environment. They provide staking services for blockchains built on PoS and DPoS consensus mechanisms. HashQuak currently supports EOS, Cosmos, Qtum, IOST and many other blockchain projects.

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EOS Gravity
EOS Gravity, based in Shanghai, is a blockchain community of over 200,000+ EOS followers worldwide. The community is committed to provide assistance for users interested in blockchain technology, especially with DPoS consensus, and to promote blockchain adoption for general public through in-depth technical analysis and guidance.

ChainPE
ChainPE is a crypto private equity fund in China. The partners of ChainPE are experts from various areas in the blockchain industry, who are successful as entrepreneurs and investors. They are committed to invest and support high potential growth blockchain projects around the world, including VC investment, technology support, and crypto mining service etc. ChainPE's investment portfolio includes VeChain, LeBlock, ZG.com, IRIS and more.

Dimension Summary	
Basic Information	
Ticker Symbol	EON
Project Initiation	July 2017
Consensus	HPoS (BFT and DPoS)
Total Supply	2,000,000,000
Circulated Supply (2019)	Approximately 20% of total supply
Token Policy	Repurchase & burn, re-offering (3% of circulated supply)
Specification	
Block Production Rate	0.5 s
Transaction Irreversible Lifecycle	3 mins
Block Precision	8 decimals
Transaction per Second	6,000 TPS
Network Fault Tolerance	99.9%
Critical Technology	
Cross-Hybrid Automated Operating System (C.H.A.O.S.)	
HPoS	Hybrid PoS, execute by BFT+DPoS and implemented by 2 phases : 1) PBFT+DPoS 2) RBFT+DPoS
ConsensusX	pluggable adaptive middleware, cross-consensus and cross-chain interoperability
Dynamic Node	adjustment mechanism in node quantities (+/-) through voting system, able to switch between permissioned and permissionless chains
Decentralized Commerce Framework - DeCommerce	
DeCloud	decentralized storage system, based on IPFS framework
DeSign	decentralized storage protocol, part of Decloud, advanced version of IPFS
DeRender	decentralized computing framework, with HE & SPMC abilities
DeTrade	decentralized trading platform, provides transaction results without breaching the original data
Multi-Sidechain Framework - Dimension-X	
Dimension-E	suitable for businesses that require virtual assets
Dimension-D	suitable for business that requires data verification
Dimension-S	suitable for businesses that require mapping real-world assets onto the blockchain for trading and storage purpose