DEXiVE

Whitepaper v1.0

November 2019

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Introduction

The future of trading is here with Dexive – the decentralized exchange (DEX). Through the power of blockchain, Dexive will take crypto trading to a whole new level of ease. This will allow users not only to place trades, but also to go through the journey of asset research, discuss with community, target the right price and place automated trades.

Due to the growing popularity of crypto market, more people are now engaging in the trading of the crypto assets. Dexive will become a one window solution for day-to-day trading because It will allow users to research assets on the go, and discuss them with the community. Taking decisions at the right time to buy or sell makes a big difference in overall success as a crypto trader, on Dexive users will be able to set alerts based on technical analysis. Experienced traders will have advanced order types for automated trading.

Dexive is fundamentally different from other DEXs on the market. It is an ecosystem which provides all the tools necessary to make right trading decisions at the right time, through info and news, knowledge sharing, price alerts and advance trading features.

Crypto-Trading

Why crypto-trading?

The first and most famous use case for blockchain technology is Bitcoin. After the success of Bitcoin, many other cryptocurrencies and digital tokens have been developed, all of them based on blockchain technology. Currently, there are over 2,000 listed cryptocurrencies, and the total market capitalization has increased from $147 billion (1 Oct 2017) to $192 billion (27 Nov 2019) (Source: Coinmarketcap). According to a market research report, the global blockchain market is expected to grow from $1.2 billion in 2018 to an astounding $23.3 billion by the year 2023 (Source: Markets and Markets). The decentralized, transparent and digital features of the blockchain have attracted many technologists and innovative minds. That is why there has been a fast increase in the rate of adoption of blockchain technology in multiple industries such as IT and telecommunications, retail and e-commerce, transportation and logistics, real estate, healthcare, life sciences, media, and entertainment, etc.

Cryptocurrencies like Bitcoins are one of the novelties of globalization that have the potential to revolutionize the payment processes and financial transactions. Owing to the decentralization of the cryptocurrencies, they have become an extremely competitive differential for many entities, specifically those who are operating in the international market. Though lack of regulations and volatility might discourage some people from investing in cryptocurrencies, with risk comes opportunities. The limited issuance and increasing demand, supplemented by constant updates in the technology, make them an asset that can potentially generate substantial returns for investors and traders.

Digital exchanges

Digital exchanges are the platforms that enable investors and traders to perform crypto-trading. Digital exchanges provide a platform for peer-to-peer trading that typically offer services by charging a transaction commission or a fixed amount of fee. There are two types of exchanges; centralized (custodial) and decentralized (non-custodial) exchanges.
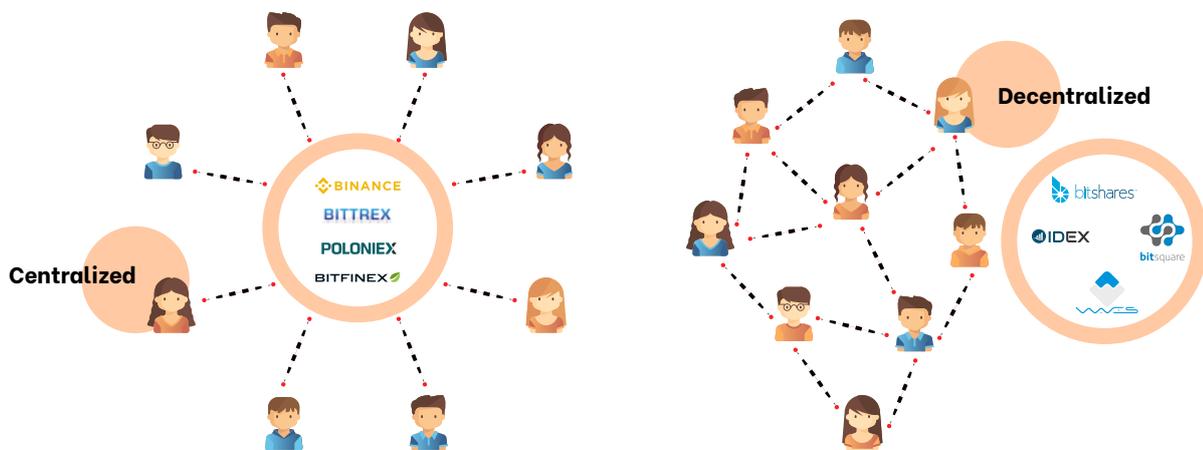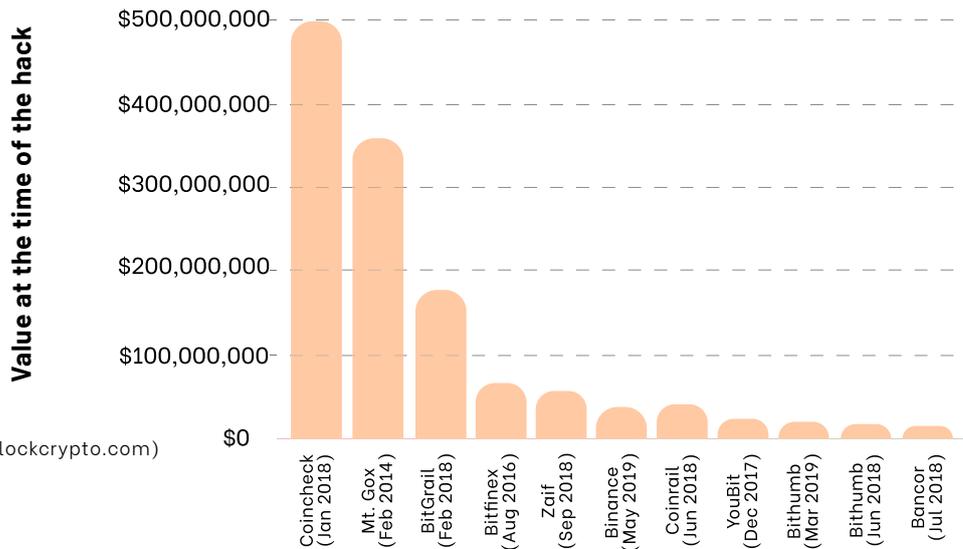

Centralized exchanges

Centralized (custodial) exchanges facilitate the trading of digital assets where intermediaries act as middlemen, trading on their platform in return for fees. Technically, they assume the role of custodians of the users' funds. The majority of trading relating to cryptocurrency is performed through centralized exchanges.

Centralized exchanges usually serve as an initial point of contact for users who are relatively new and interested to trade cryptocurrency. They provide an interface that connects them to cryptocurrency trading as well as the real economy.
The introduction of centralized/custodial exchanges played a pivotal role in making cryptocurrencies such as Bitcoin and Ethereum accessible to people all around the world. However, as the industry of cryptocurrency environment has matured, centralized exchanges face numerous challenges and problems.

Greater security risks

Centralized/custodial trading platforms suffer from constant attempts of hacks, scams, and other malicious activities, which makes them a less attractive option. This presents legitimate concerns, rendering these exchanges as significantly uncertain.

(Source: theblockcrypto.com)

Control of funds

If users hold their crypto on a centralized exchange, they don't actually have direct ownership of the digital assets. This is because the wallet private key is held by the exchange, meaning the user is not in 100% control of the funds held on the exchange. With all data stored in one central structure, these exchanges are a massive target for hackers.

In fact, centralized (custodial) exchanges are based on the I Owe You (IOU) concept, like a bank account, where they are the real holders of digital assets. Users balance is just a number value in their internal system, and the actual tokens are only available when the user withdraws them.

Not anonymous

Users of centralized exchanges are required to comply with KYC (Know Your Customer) regulations; as a result, some of their personal information is collected and processed by the exchange. This factor can also lead to authorities demanding control over user's assets.

Target for regulations

The blockchain market is relatively new and governments are still trying to make rules and regulations relating to this. Therefore, centralized exchanges are vulnerable to the evolving regulation and legislation; meaning user funds held by exchanges are at risk of being under any new rules at any moment.

Single point of failure

Centralized/custodial exchanges store a large number of user funds in their wallets and, due to their centralized architecture, these exchanges can suspend trading due to maintenance and hacking attacks. This can cause loss of user's funds, as well as missed trading opportunities.

Decentralized exchanges

A non-custodial / decentralized exchange (DEX) is a trading platform that enables users to perform peer-to-peer trading of digital assets.

Decentralized exchanges serve as a matching and routing layer for transactions related to trade orders; therefore, they do not store customers' funds or any private information in their system.

Some statistics available for decentralized exchanges are as follows:

Platform	Exchange normalized volume (24hr)	Current Market Cap	12 months high	Blockchain Supported
IDEX	$322,000	$5,500,000	$17,000,000	Ethereum
Waves	$400,000	$80,000,000	$400,000,000	Own Blockchain
Kyber	$750,000	$30,000,000	$77,000,000	NEO
Nash	$3,000	$31,000,000	$92,000,000	NEO, ERC20
Bancor	$888,000	$23,000,000	$82,000,000	NEO, ERC20

(Source: Coinmarketcap)

There are significant advantages to using decentralized exchanges primarily due to its architecture. For instance, the applicable trading fee is considerably low as compared to centralized exchanges. Moreover, decentralized exchanges offer a higher level of privacy as, unlike centralized exchanges, they do not require any personal information and proof of identity in order to start trading on their platform. Additionally, decentralized exchanges provide a greater level of security and transparency, as they do not hold digital assets for users, allowing them to connect directly with each other.

However, decentralized exchanges usually suffer from lack of liquidity, poor user experience, longer trading times and lack of advanced trading features.
Dexive will change all that.

Dexive: Our Solution

The optimal solution to trade cryptocurrencies is an ecosystem which offers all the necessary tools to users, providing easy and advanced trading features. Moreover, the solution must also be able to help new users to learn and research about cryptocurrencies for improved decision making. The truth is that those who begin trading, in general, are at risk of taking decisions based on emotions or crowd following. In order to help new users to understand better the dynamics of trading, an adequate support system is crucial. Centralized/custodial exchanges have done some progress in this regard, but they have the disadvantages explained before.

One of the factors that make trading in general (and crypto-trading in particular) so risky, is that it happens continuously. This requires a constant, real-time monitoring of trends. This is too time consuming for most users, who also lack enough knowledge on how to react to determinate trends. To address this, trading platforms in other areas (like FX or stocks) have developed certain features that, on the one hand, provide constant information to the user regarding relevant events in the market; and on the other hand, take determinate actions on user's behalf when some conditions meet. These features, however, are not developed enough in digital exchanges, let alone in decentralized ones.

Dexive provides advance order types and price alerts based on technical indicators which no other exchange offers at the moment. These order types and the alerts are extremely useful due to the fact that the crypto market is volatile and also because the market is open round the clock. A fully functional smart phone app means that once users set orders and alerts, they don't need to follow the prices closely, but will be instead notified on their phones when the order is executed or the price level reaches.

Dexive is not just any exchange but it is an ecosystem which will become the revolution for the users out there. No matter whether they are expert traders with years of hands-on experience in trading or amateurs who want to profit from trading but afraid to fail because not knowing much about trading. Existing decentralized crypto exchanges have many limitations. Dexive will be an upgraded ecosystem that will give everyone an over the top user experience, with capabilities to take the whole crypto trading experience to the next level.

Dexive is unlike other exchanges in the market. It gives users plenty of more reasons to visit the exchange other than trading. Dexive provides asset information, discussion forum, sharing research via micro blogs, personal notes and the asset news, etc.

Supported blockchains

The Dexive trading platform will initially support Ethereum and NEO. Dexive will be rapidly working on the integration of further blockchains in the future.

Ethereum

Ethereum is the most extended standard for digital tokens. An Ethereum compatible wallet can accept and trade not only ETH, the platform's native currency, but also any digital asset generated
under the ERC standard (which is the case for most of ICOs, STOs and IEOs).

NEO

The NEO blockchain platform is currently the main alternative to Ethereum. While less extended, it has a greater capability to handle transactions: it can process about 10,000 per second, while Ethereum currently supports 15 transactions per second.

Zilliqa

Zilliqa is another public blockchain which surpasses Ethereum in its transaction processing capability, being able to handle over 2,828 transactions per second through a distribution technique called sharding.

EOS

EOS.IO operates as a smart contract platform and decentralized operating system intended for the deployment of industrial-scale decentralized applications through a decentralized autonomous corporation mode. It is not yet as developed as Ethereum or NEO, but its protocol has the potential of handling transactions even faster than NEO and Zilliqa.

Off-chain order matching

Dexive will feature an off-chain order matching engine that will eliminate existing blockchain performance issues by matching orders off-chain. Once the order is matched, it will be settled on-chain.

An order matching engine is the most processing intensive component of a trading platform. Running as a trusted service in a state-of-the-art infrastructure, it will cater for all the complex order types, cross-exchange trading and the third-party software trading through the API in an extremely efficient and secure manner.

The solution will provide an efficiency in order processing which will match centralized/custodial exchanges. This means an experience providing the best of both worlds.

Advanced order types

The most common order types in trading are market and limit orders that let users buy and sell assets at a given price (market price or limit price). Another extremely important basic order type is the stop-loss order which helps traders protect their capital from higher losses when there is a sudden fall in the prices.

Most exchanges in the market only allow basic types of orders. However, Dexive will allow for advanced trading orders, which are a combination of conditional orders and the basic order types.

The order types supported by Dexive will be the following:

Stop Order

On the buy side this order is used to set a target buy price below a certain price. On the sell side this order is used to set a target profit level above a certain price.

Stop Loss

This order is used to buy an asset at the price breakout. It's usually set right above a resistance level in anticipation of the start of an uptrend.

This order is also used to minimize the loss, it's usually set either in relation to the asset buy price (e.g. 5% below the buy price) or right below the historical support level

Trailing buy/sell

This order is used in anticipation of the down-trend reversal. It is set at a percentage above the lowest price as the market goes down the trigger price is calculated based on the lowest price. The buy order is executed above the given price.

On the sell side this order is used to protect the profit. It is set at a percentage below the highest price as the market goes up the trigger price is calculated based on the highest price. The sell order is activated below the given percentage from the highest price

Fill or Kill

This order type is used to buy or sell only if the corresponding maker (buyer/seller) already exists in the order book. If there's no matching order in the book, then the order is immediately cancelled.

Post only

This Post Only order is to ensure that the order is Maker only and not the taker and only pays the maker fee.

Ladder Buy/Sell order

This order type is used to buy or sell in the specified number of chunks with the specified difference in price. Total amount is split into multiple orders at multiple prices based on the input percent or amount.

Bracket

Bracket orders are used to limit loss and lock in a profit by "bracketing" an order with two opposite site orders. A BUY order is bracketed by a take profit order and a low stop loss order.

Bracket order is an example of OSO (order sends order). Bracket order also uses OCO (order cancels order) where either sell order or stop-loss cancels other as only one can be executed.

Fiat gateway

Dexive users will be able to use their fiat currency directly via debit and credit card to avail the investment opportunities.

Cross exchange trading

Dexive will provide users access to assets in other exchanges Within Dexive users will be able to choose an exchange to buy or sell an asset. As the price of an asset across exchanges can be significantly different, with this feature user can use this difference to their advantage. Moreover, this feature will significantly increase liquidity volume for users.

Trading API

Dexive will provide a JSON API to trade assets through a third-party application. The API will provide the caller the ability to place, change and cancel orders. The off-chain order engine will provide high performance response to the API calls. In order to use the API, the JSON calls will have to be signed by the primary key so that it can be made sure that the user making the call on an address that they control.

Alerts

Due to the fact that the crypto market is volatile and crypto trading never stops, it is crucial that users stay up-to-date with the assets they are interested in. That's where Dexive's technical alerts will help users, as they will get notified about price changes, based on technical indicators.

Will be the first decentralized/non-custodial exchange to enable users to set alerts on price actions. This feature will free them from having to keep track of the price consistently and will counter any risks of missing out on trading opportunities. Users will set their price target and will receive alerts when their set target is reached, in terms of the following parameters:

- Price alert
- Moving averages
- MACD
- Volume
- RSI

Users can also set reminders for upcoming events regarding their favourite assets. This means that they won't miss an opportunity because they forgot about important events. This feature will also free users from having to remember important dates.

Asset information

Detailed asset information is an important part of the research for traders. Currently, users have to refer to different web sites for detailed information about assets. On Dexive this information will be available immediately on the platform.

User profile

Since Dexive will not hold any of users' personal data, users will not be required to create profiles to trade. However, profiles will enable users to create their own watch lists, interact with the community, create their notes, share research and create personalized notifications. Even creating a profile will not require personal information, thus guaranteeing anonymity. Moreover, Dexive has a reward scheme to encourage activity on the platform.

Discussion forum

One thing that has been our focus on Dexive development is to consider all types of traders out there. Not everyone is a master of trading and not everyone knows the technical aspects. Therefore, considering the diversity of users, Dexive will also have a discussion forum for each asset. At this discussion forum, users can discuss various aspects of an asset. This will enable them to make better and informed trading decisions.

News

Asset news will be available from multiple sources. it will be downloaded and processed through multiple filters to make sure that users are presented only with the most relevant content from authentic sources.

News feed will also include popular blog posts, articles, popular tweets and results from various different forums and social media.

Microblogs

All users will be welcomed and appreciated to share their knowledge about a crypto asset. Our microblog feature will allow users to acquire the necessary knowledge and stay updated with the progress of an asset. Furthermore, users can also share the microblogs from Dexive to top social media platforms.

Notes

Users will be able to jot down their findings or important notes about an asset on the platform. Which means whenever they come back to the asset they can read their previous notes.

In the blockchain arena, there's no single channel for official news and people spend plenty of time researching and finding useful information about the assets they are interested in. Dexive will provide a feature to save all the hard-gained knowledge about an asset so that users always have their notes ready when they start looking at it next time.

Reward for contribution

The Dexive platform will have a reward program for top contributors on Dexive Connect. The contributors will be chosen based on the level and significance of their activity on the platform. The system will perform a quality check on contributions, before shortlisting users for the reward. The reward will be in the form of DXV tokens.

Architecture

Dexive is based on state of the art serverless architecture. Work is divided into multiple services connected with distributed cache and pub/sub event stream for scalability and fault tolerance. Hot data is stored in distributed cache and cold

data is in database with real time sync enabled. We use relational and non relational database for structured and unstructured data.

Security

Dexive uses layered security model where common security services like authentication, authorization, audit log, key management will be available across the board while multiple private networks with local service and data will ensure data and infrastructure isolation and access restriction.

Data security is paramount for Dexive. Data will be encrypted during transmission as well as at rest.

Scalability

One of the big advantages of serverless computing is scalability, with ability to scale up and down based on demand is one of the core features of our architecture design. Dexive will use multiple load balancers, stateless nodes, scalable storage, distributed queues, pub/sub paradigm and distributed cache to achieve maximum scalability and fault tolerance.
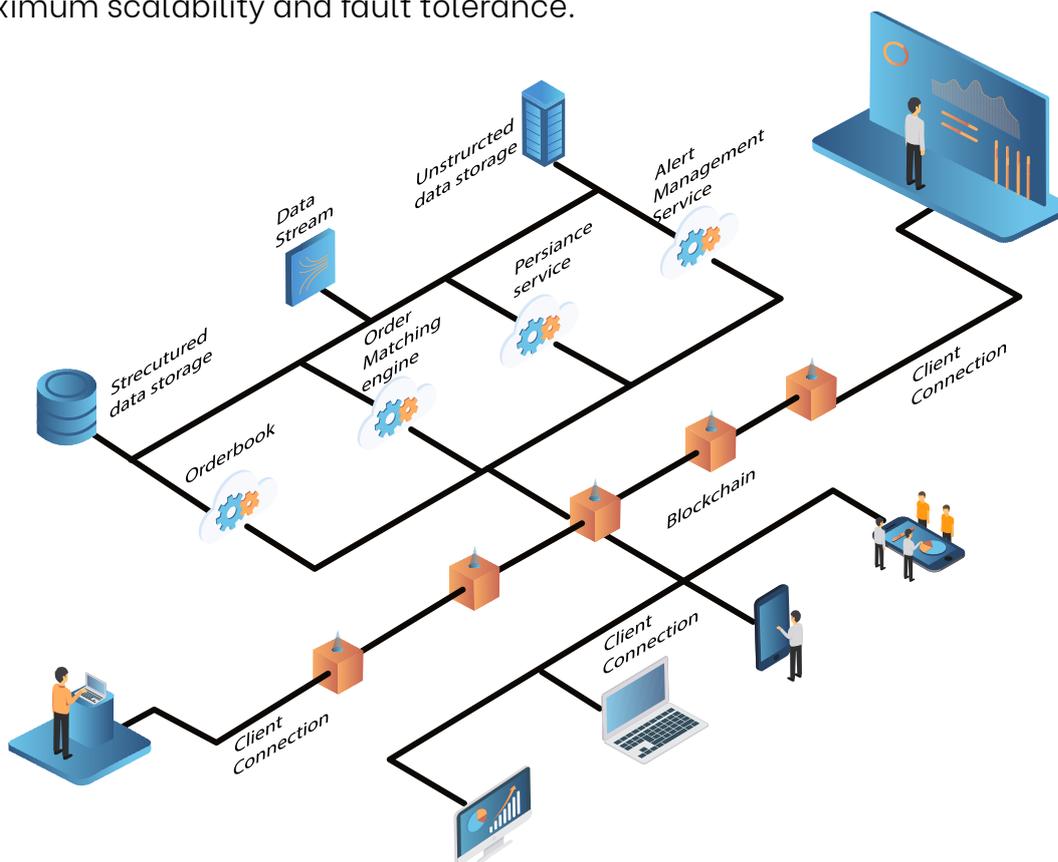
Mobile App

Dexive will have a dedicated application available for mobile users offering all the features as it is on the website with the same intuitive user experience. The full-featured mobile platform equips the user to trade using their mobile device using their user-friendly and advanced trading features.

Dexive mobile app will also allow the user to set trade alerts based on price, dates and technical indicators. This will prevent the need of keeping track of asset prices. Users will also participate in a discussion of their favourite assets and keep up to date with the latest news.

Users will be able to log in to their profile on the Web and the Mobile so that they can maintain a single watchlist and all their social history, alerts and notes.

Initial Exchange Offering (IEO)

This section explains the use, functionality and characteristics of the Dexive token (DXV), a native token issued in for the Dexive ecosystem. Also, it describes the specifications of the initial exchange offering (IEO) to be conducted, a crypto-based fundraising mechanism used for the development and implementation of Dexive decentralized exchange.

The issuance of the DXV token is at the core of Dexive's value proposition, was carefully deliberated by Dexive's founding team, and is grounded on various goals and reasons. This section will describe the rationale behind the issuance of Dexive tokens.

Dexive tokens

Dexive tokens will be utility tokens based on the Ethereum ERC-20 standard. Their basic function will be the mean of payment inside the Dexive platform, and also as a way of creating incentives for users. While Dexive will be a decentralized exchange where many different types of crypto currencies and digital assets shall be available for trading, the DXV token will function as a convenient way of paying internal fees, earning retributions for beneficial behaviour, etc.

The DXV token will be issued in an initial exchange offering (IEO). An IEO is very similar to an initial coin offering (ICO), with the key difference that an IEO is managed from the beginning by a digital asset exchange, with the purpose of providing enhanced credibility before token buyers. The traditional model used in ICOs meant that the project team issued the tokens from an ICO launchpad, conducted the token sale, and then listed the tokens in a digital exchange, so they could be traded. Under the new IEO model, digital tokens are issued from the exchange's own launchpad, the token sale is managed by the exchange and has a guaranteed listing on it after the IEO is completed.

The Ethereum ERC-20 technological standard on which DXV is based, is the most used standard for digital tokens in the crypto-market, and it is acceptable by any Ethereum compatible wallet, which makes it easier to use as a mean of payment for Dexive's trading fees. DXV tokens are a clear case of a utility token. In no way they could be considered as securities, because they will serve only as an internal mean of payment in the Dexive ecosystem, and shall not grant any dividend or voting rights to its holders.

IEO tokenomics

As mentioned, the Dexive token will be issued as an ERC-20 token in an initial exchange offering (IEO). IEOs have become the preferred way of issuing digital tokens, due to the increased confidence and trust that they offer in relation to their more known predecessors: the ICOs. This is due to the fact that, in an IEO, the management of the token issuance, from the setup of an Ethereum smart contract, to the listing of the token, is done by a digital exchange.

The following table shows the general specifications of the IEO token issuance:

Token name	Dexive token
Symbol	DXV
Tech standard	ERC-20
Total supply	800,000,000
IEO sale supply	480,000,000
Standard price	USD 0.01
Soft-cap	USD 500,000
Hard-cap	USD 4,000,000

The total supply of DXV tokens to be generated will be 250 million tokens. Of this total supply, 60% will be available for sale in the IEO throughout all its phases (which will be described later in more detail). The remaining 40% of DVX will be distributed between the founding team, marketing fund, contributors reward program, and advisors & partners.

The following figure shows the specific token distribution:
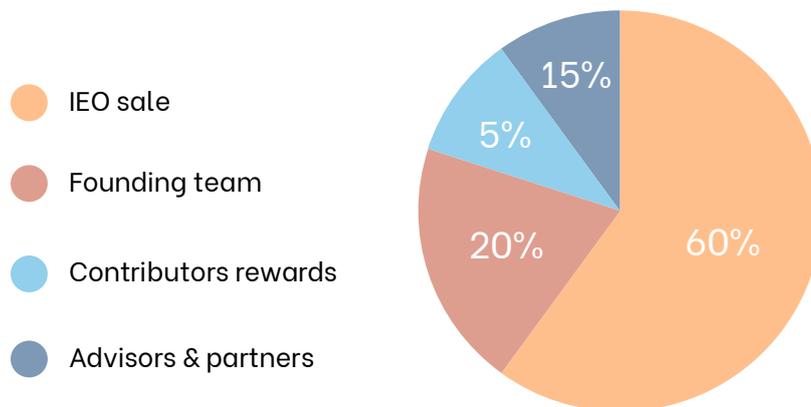
The IEO token sale is comprised of all the tokens that are available for sale throughout the IEO, in all its phases, including the pre-sale.

The tokens assigned to the team and advisors, represent a retribution for the work, effort and knowledge put during the development and implementation of the Dexive decentralized exchange. The distribution of DXV tokens to the founding team will be done under a vesting period of 2 years. Every 6 months after the IEO, 25% of the total distributed to the team will be delivered, until the total amount is completed.

Compensation for advisors and partnerships is also contemplated, and a special fund of 10% of the total supply is kept.

Finally, the contributors' rewards program will create incentives for those who help the Dexive ecosystem.

IEO schedule

The initial exchange offering (IEO) shall be conducted in 2 successive phases, pre-sale and IEO sale.

The following table shows the general schedule of the IEO, including discounts applicable in each phase, price, and duration.

	Discount	Duration	Price
Pre sale 1	25%	1 month	$0.0075
Pre sale 2	15%	1 month	$0.0085
IEO stage 1	10%	1 month	$0.009
IEO stage 2	0%	1 month	$0.01

DXV coins sold during the IEO, will be delivered to its buyers at the end of it.

Use of funds

The funds raised as a result of the sale of DXV coins will be entirely destined to cover the different areas related to the development of the Dexive ecosystem.

The following table presents the planned use of funds, with amounts in USD, based on a scenario where the overall hard-cap is reached. Amounts and percentages can vary according to circumstances.

Develoment of the platform	55%	$2,200,000
Marketing	25%	$1,000,000
Operations	15%	$600,000
Legal expenses & compliance	5%	$200,000
Total	100%	$4,000,000

Team

Furrukh Baig (CEO Founder)

Over 20 year experience in Data science, Business Intelligence, Data mining and Information security. Worked at various enterprises such as AOL, Virgin Media, Cable & Wireless and Willis Tower Watson as providing business intelligence solutions adding business value and providing decision making capabilities to business. Great believer of automation and have enabled businesses automating various business Intelligence processes.

Aleem Sheikh (COO Co-Founder)

Aleem is a passionate software development professional with a Master's degree in computer science and 18 years of experience working in the industry across USA, Asia and Europe. He is now based in London working as a freelance software consultant for the last 12 years.

Aleem is also a proficient stock market and crypto trader. He started trading stocks 10 years ago and later added crypto to his portfolio. He has a deep understanding of the markets and trader communities.

Being a trader and a software professional puts him in a position where he can combine his knowledge and experience in the markets and communities and apply them to build an effective crypto solution.

Team

Faraz Syed (CTO Co-Founder)

An award-winning silicon valley veteran with 20 years of technology experience. He graduated from North Carolina State University with a Master of Science in Computer Engineering. A former HP, HPE and TIBCO technologist, who architected, developed, and supported complex enterprise systems, custom solutions, SaaS, and integration frameworks. His recent accomplishment includes a self-service data integration platform with real-time and batched data distribution using multiple protocols and data formats. This already saved millions of dollars across enterprise and adoption continues to grow. Faraz brings immense technical knowledge, experience, and problem-solving technique into the team and continues to grow as a leader.

Team

Oliver Bell (Adviser)

An serial entrepreneur with experience in starting & running a bunch of successful start ups from the first online Digital currency store for video games to the most recent, XCADEMY which is an E-learning platform for Youtubers which a valuation just over £5m.

Also an early investor in Crypto in 2014 grown a big following of 30k active Crypto investors on his twitter, experience in consulting a number of Blockchain projects with fundraising, exchanges & marketing. Currently an Advisor at Bolt Global.

Disclaimer

This business whitepaper represents work in progress and illustrates the intent of Dexive to develop, launch and market certain products. the implementations of these products are built on new technologies, and it is expected that significant changes will be continually required to meet the evolving requirements of the market's and customer's demands. This business whitepaper does not constitute a prospectus nor offer of any sort and is not intended to constitute an offer or solicitation of securities or any other investment in any jurisdiction.