



CRONOS WORLD

WHITEPAPER

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NOTE: Since Cronos is a newly developed and not much information is known about it, we have also included information about Cronos sidechain developed by Crypto.com in this whitepaper

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- Completion of the campaign
- The expected development of the project

- Execution of the project's vision and strategy
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- You are aware of risks involved in the cryptocurrency industry, and are able to bear potential losses in full

What is Cronos?

Cronos is a **sidechain** to the Crypto.com blockchain.

What is a sidechain? Sidechains are best thought of as separate blockchains attached to the main blockchain. By creating a new blockchain, pegged to the native chain, we can do experimentation, innovation and competition to improve upon the existing protocols.

In order to understand the idea behind Cronos, one needs to have a good understanding of Ethereum and its problems. It is a well-known fact that Ethereum is currently facing scalability issues as more users join the platform and try to send transactions. This has led to high gas prices and long transaction times, which in turn have led many developers to build dapps on other platforms, namely EOS and Tron etc



Cronos allows developers to **port their apps** from the Ethereum network onto the Cronos network. The latter is a blockchain with a native cryptocurrency. As such, it provides a platform for decentralized applications, or dapps.



Cronos sidechain is engineered for **maximum scalability and flexibility**, and marketed as a **Layer-2 solution** that will enable rapid growth in the number of transactions that can be processed.



Cronos allows developers to **port their apps** from the Ethereum network onto the Cronos network. The latter is a blockchain with a native cryptocurrency. As such, it provides a platform for decentralized applications, or dapps.

Cronos was designed with this recent issue in mind. In fact, one can argue that its development started as a way of solving these issues by providing faster processing times and lower fees for both users and developers.

The goal of Cronos is to be a decentralized network capable of running Ethereum Virtual Machine (EVM) applications.

A major benefit of the Cronos network is that you can port your existing Ethereum based decentralized apps (DApps) or smart contracts to it with little or no modifications.

The second advantage Cronos has is its ability to port apps developed on any EVM supported chain onto the Cronos network. This means that you can use this new chain for any app you are running on Ethereum at no cost. All your existing investment in your app does not go down the drain when moving to a new chain



Why Cronos is being developed by Crypto.com?

About Crypto.com: Based in Hong Kong and led by Kris Marszalek. It has been active in the crypto space since 2014 and is behind the Crypto.com brand and the CRO token. It was originally known as Monaco, and it started out as a prepaid card issuer for cryptocurrencies. In 2017 they rebranded to Crypto.com and expanded their scope of operations to include financial services such as loans and investments, cryptocurrency exchanges, and more.

The CRO token is used in this ecosystem, with token-holders receiving a share of the platform's revenue in the form of dividends



The launch of Cronos marks a significant step forward for Crypto.com. The company has been creating a number of new products to advance its goal of making cryptocurrency more accessible to consumers and businesses.



Cronos is another key piece in the jigsaw puzzle that Crypto.com is building as it evolves from a cryptocurrency infrastructure provider into an all-inclusive platform for digital assets, dApps and related services.



The company recently announced the Crypto.com chain, a public blockchain built on its existing CRO token, which will serve as a foundation to develop a broad range of decentralized financial services



With the Cronos sidechain, the team envisions adding value by creating a programmable platform that can seamlessly execute trusted code on top of existing blockchains. This allows for cross-chain applications and **enables interoperability** across different blockchains.



Crypto.com has built a great network, but again has its limitations, as it is a native chain to Crypto.com and has to abide by its protocols and governance mechanisms.



With the development of Cronos, Crypto.com is playing the long term game where it competes with other layer-2 solutions like Solana and Polygon. (or, synergize with them)

Problems facing the market

NETWORK CONGESTION & GAS FEES

Ethereum was conceived as a platform to create decentralized applications.

The Ethereum network hosts a number of applications, or dApps, that were built by third-party developers. There are games like CryptoKitties, collectible cards like Ethermon, social sites like Akasha and Uport, and decentralized exchanges like ForkDelta. All of these are built using smart contracts on the Ethereum blockchain.



However, the current scalability issues prevent developers from building dapps on Ethereum network. A survey of decentralized apps on Ethereum network shows some **90% of the decentralized apps have been found to be slow, expensive and unusable as a result.**

The transaction fees are high, and the gas price required to process the transactions is also high which makes it difficult for developers to create or even use their applications resulting in more or less failure of the projects.

For each dapp created on the Ethereum network, there are 1000s of users that need to purchase ETH tokens in order to use the dapp. This process is time consuming and costly for users.

It's not about the price of ETH, it's about the fact that the number of transactions on the blockchain is increasing

Basically, if you want to send a transaction, you have to spend "gas" which means sending a little ETH along with your transaction. You can spend more ETH if your transaction is bigger or more complicated. This way people who make transactions pay for the system's upkeep instead of everyone paying for it equally.

Ethereum blockchain's **transaction processing capacity is too low for widespread application**. This may be reason enough for you to stay away from Ethereum for now.

INTEROPERABILITY

There are dozens of blockchain platforms out there. If you want to build a decentralized application, which one should you go with? Is it enough to develop on "just" one blockchain, or do you need to develop for all of them?

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What happens if a developer builds a decentralized application on one blockchain and later decides to move it to a different blockchain?

1

Blockchains are platforms for building applications. Most of the blockchain platforms you hear about today are designed to run on a single blockchain.

2

Applications on single blockchain platforms **cannot be interoperable**. This means they cannot take advantage of the features or assets on other blockchains, even if developers wanted to. Nor can they interact with the users of other blockchains in any meaningful way; users on different blockchains will **remain isolated from one another**.

3

And because dApps on a single chain are not interoperable, they will not be able to meaningfully compete with each other. A developer will have to commit to a single chain in order to support an application that uses blockchain-specific features, and this will **limit it to a subset of users**.

This is why most people think of blockchains as being essentially infrastructures for money and payments. By design, all blockchains are bad at everything else

PROOF OF WORK DRAWBACK

The main idea behind the Proof-of-work protocol is to make it costly to produce a proof of misbehavior, and therefore if someone produces such a proof, other nodes will trust it. The cost is supposed to be high enough that it's not worthwhile for anyone who isn't a bad actor to incur it as compensation for misbehavior; but low enough that honest nodes can afford it as a protection against misbehavior.



This mechanism has several drawbacks and here are some of them:

- ➊ **The whole system depends on electricity.** If electricity becomes expensive, PoW will become expensive too. Centralization of mining operations in places with cheap electricity is inevitable. And PoW depends on cheap hardware. If that hardware becomes expensive, PoW will become expensive too. The PoW reward that the miners receive will never be more than what they spend to get it
- ➋ PoW **creates an arms race** between miners and developers of ASICs (application-specific integrated circuits) and GPU farms. That's not only wasteful, it increases the risk of attacks against the network.
- ➌ The system is vulnerable to so-called "**nothing at stake**" problem. If you have a blockchain where 100% of nodes always follow the same chain no matter what, then two competing chains are equally valid - so why would anyone mine on one chain instead of the other? We saw this problem in Ethereum Classic after the DAO hack - miners who didn't support the hard fork simply stopped mining for 3 days until someone managed to buy enough hashing power to finish the hard fork chain first, after which they switched back to it without any problems whatsoever.

In particular, proof-of-work is one of the **most inefficient ways of reaching consensus**

How Cronos solves these

Cronos Chain is proposing an EVM sidechain that integrates the following and each of these comes with their own benefits:



- 1** Speed of Tendermint Core
- 2** The interoperability functions of Cosmos SDK
- 3** Consensus mechanism called Proof-of-authority.

TENDERMINT FOR SPEED

If blockchains are going to be a core part of the global financial system, a big problem has to be solved: how do you make them fast enough? The Bitcoin blockchain can only process about seven transactions per second. Visa, by comparison, is capable of processing 24,000 transactions per second. Cronos chain will be using the Tendermint Core for this reason aspect.

Tendermint Core is a **consensus engine** that powers the applications on top of it. It can be used as a standalone blockchain, or as a **consensus mechanism for other applications**.

The old way of building blockchains is to build them the way Bitcoin and Ethereum do: every computer in the network processes every transaction, and they all keep an identical record of who owns what. This is called "**on-chain**" processing.

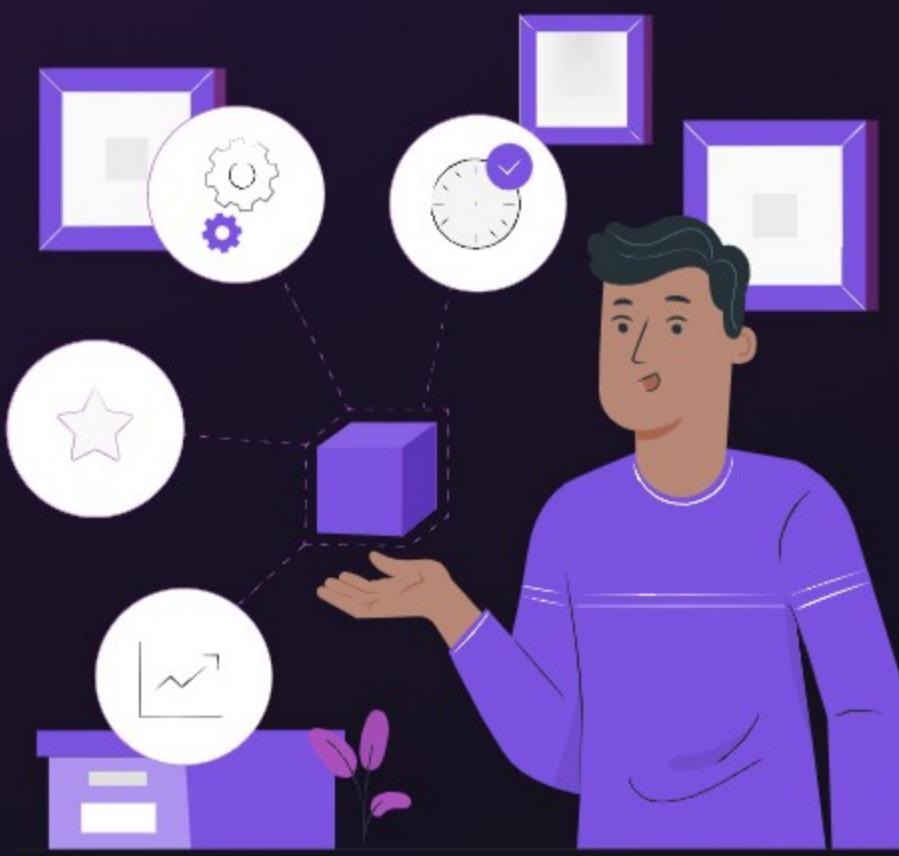
Tendermint's approach is different: there are computers in the network called "validators," and they process transactions, but only some of the time. The rest of the time they are listening to other computers in the network, so that if one computer tries to cheat, the others will detect it. This is called "**off-chain**" processing.

Cronos Chain integrates the speed of Tendermint with a system that allows for an advanced Proof-of-Authority consensus algorithm and dramatically reduce the speed of transactions (more covered in POA section)

Use of IBC & COSMOS SDK

The Inter Blockchain Communication protocol (IBC) is a protocol for **communication between blockchains**.

IBC allows blockchains to transfer messages, assets and data. This makes it possible to move valuable assets from one blockchain to another without having to go through an intermediary or centralized service.



The main features of IBC include

- The ability for a blockchain to transfer a digital asset or token to another blockchain directly
- The ability for a blockchain to send messages to another blockchain.
- The ability for different blockchains to exchange information seamlessly with each other.

- 1 It is designed to connect blockchains that have different governance models, use different cryptographic algorithms, or are at different stages of development. IBC also features extensibility so that it can be used to connect blockchains with other technologies in the future, such as IoT and distributed file systems
- 2 This means that Ethereum can be accessed through Cosmos SDK via Cronos Chain. This allows all of the features of Ethereum to be used on Cronos Chain, meaning that dApps on Ethereum are now accessible on Cronos Chain. **This also means that dApps on other chains can run through Cosmos SDK on top of Cronos Chain!**
- 3 This is one of the reasons why Cosmos is so important. It takes an existing successful blockchain ecosystem, Ethereum, and "connects" it with the not-yet developed but eventual Cronos Chain Blockchain.
- 4 The interoperability of Cosmos SDK is a major reason why Cronos Chain can integrate Ethereum functionality onto itself while at the same time also offering support for other chains to offer their dApp's through their platform.
- 5 The team behind Cronos Chain is hoping to leverage the **interoperability capability of Cosmos SDK** to boost a blockchain platform that could serve Ethereum-based and other EVM-compatible DApps with an ecosystem that's more developed.
- 6 Cosmos SDK will be used not just for token transfers but also for staking and governance. The idea is to have a kind of multi-chain governance model, where one chain could serve as a hub for other blockchains **essentially enabling access to all the blockchains in the ecosystem**

- 7** The utility token will be used within this multi-blockchain ecosystem, similar to how gas is used on the Ethereum platform. Other tokens from other chains will also likely be able to travel into this ecosystem. In addition, there will be side chains that are connected to the main chain by Cosmos SDK for off-chain transactions
- 8** Cronos is banking on Cosmos SDK to serve as a pivot, where Cronos Chain can not only interact with Ethereum and other EVM-compatible chains but also serve as a platform for other emerging chains to deploy their DApps, or vice versa.

PROOF-OF-AUTHORITY (POA)

Cronos chain will be using another consensus mechanism called Proof-of-Authority (PoA)

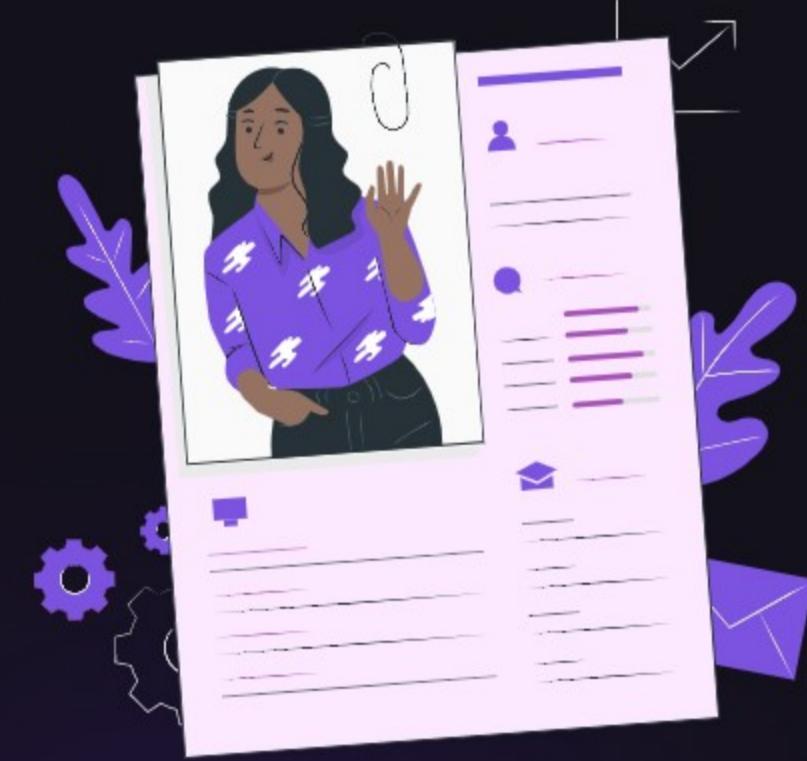
PoW and PoS are both susceptible to problems such as "nothing-at-stake" and "long-range attacks."

The POA consensus is a **hybrid between the Proof-of-Work (PoW) and Proof-of-Stake (PoS)** algorithms. In this new consensus, validators "stake" their tokens to become a node in the network. They must stake a minimum number of tokens to be considered a validator and to participate in the validation process. The more tokens they stake, the higher chance they have of being selected as a leader to validate a block. This process is known as "bonding."

In addition to staking tokens, **validators must also lock up** a minimum number of tokens for a period of time. If at any point, a validator is found to be acting maliciously, their staked and locked up **tokens can be slashed (taken)**.

The nodes that validate blocks are chosen based on the amount staked and the length of time locked up. Validating nodes receive rewards in POA Network Tokens (POAN), which they can use for future transactions or sell on an exchange.

Ongoing maintenance work such as software upgrades, network monitoring and bug fixes are done by separate teams in order to prevent validators from abusing their powers.



Since the validator group is known and auditable, this approach allows for faster transaction times.

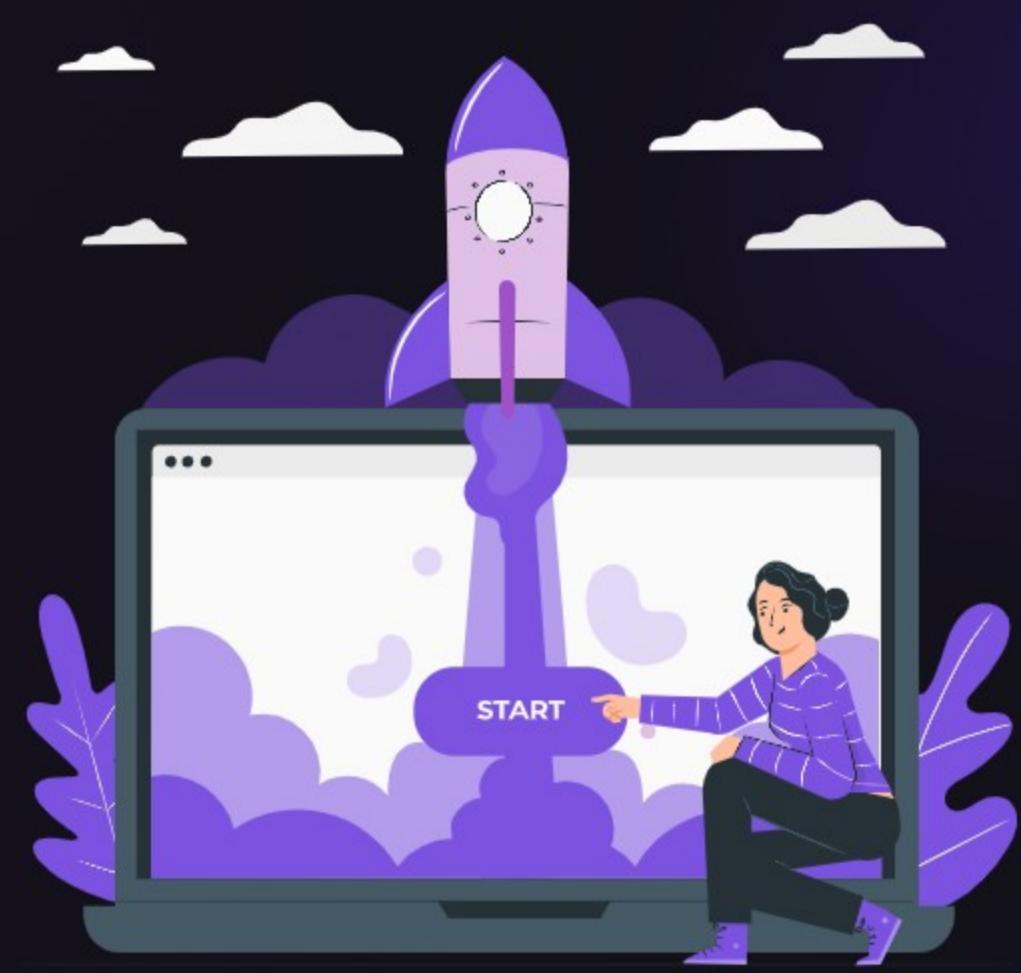
The security of the Cronos Chain is based on the Validator Manager, a system that selects a small number of validators to produce blocks and sign transactions. The Validator Manager uses a variety of strategies to guarantee the security and performance of the network.

Our take on Cronos

Cronos set up a unique chain that is better than what is currently obtainable in the blockchain industry.

In Cronos, we believe that blockchain will have a real, positive impact on the crypto world. We want to be a part of it. We're building something that will ease the transition towards Cronos. We want to spread as much as possible, as quickly as possible.

The main way we contribute at the moment is by creating a platform which has products that are the most widely-used for any blockchain (more about it in the next section)



CRONOS-WORLD VISION:

THE ALL-IN-ONE PLATFORM FOR CRONOS ECOSYSTEM

Cronos-World is one of the first platforms releasing on the Cronos ecosystem. We're working on making **Cronos-World a one-stop destination for all things Cronos.**

Cronos-World will have a series of releases lined up, each aimed to serve a specific purpose on the Cronos blockchain. We hope that our releases contribute towards the adoption of the Cronos chain both by the developers and investors and together contribute towards the betterment of all stakeholders.

To ensure the longevity of the ecosystem, Cronos-World will launch an all-encompassing representation of everything that the Cronos blockchain users will need.

So Cronos-World will consist of

- 1** A Decentralized exchange (DEX) for trading
- 2** A marketplace for NFTs
- 3** A launchpad and incubator for projects that launch on Cronos Chain
- 4** Game-fi for instant play-to-win games (proposed)

Each of these will make up its unique ecosystem. **Cronos-World will act as the parent company of each ecosystem products** and all of these will be available under the same platform, under one roof.

More products will be released under Cronos-World upon community interest in the later stages. But for now, let's have a look at each of the products that will go live soon !



CRONOS-WORLD: DEX

Meet Cronos DEX—a simple, easy to use cryptocurrency exchange.

Cronos DEX, our flagship product, will be the first product on our lineup. It is a cryptocurrency exchange with a focus on simplicity and scalability. It is designed to be fast, safe, and lightweight.

Cronos Chain is working to scale the blockchain technology to handle larger transactions (more about it covered in the Cronos specific section). And to take advantage of this massive opportunity and leverage the massive potential of this scalability and speed that the Cronos chain offers, we are launching Cronos-World DEX, a secure and decentralized exchange built on the Cronos blockchain.

In our competitive trading environment, we want to keep things simple !



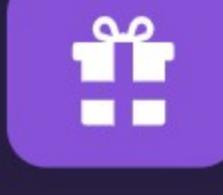
We give you the ability to trade your favorite cryptocurrencies turbo-fast with just a few clicks.
You can trade your favorite cryptocurrencies without unnecessary bells and whistles that will just slow you down.



Cronos World never sleeps. We're awake when you need us, and we've got more than just 24/7 support. Cronos World DEX just keeps getting better. We are always open to critiques, comments, and recommendations. We're determined as ever to keep you coming back with a service built daily on your feedback.



Gas will be charged for every transaction with CRO tokens. CRO tokens are designed to serve as the fuel for Cronos-World platform, and also the Crypto.com chain i.e. the Cronos chain. Cronos Chain will power our DEX since the Crypto.org Chain runs in parallel to Cronos Chain.

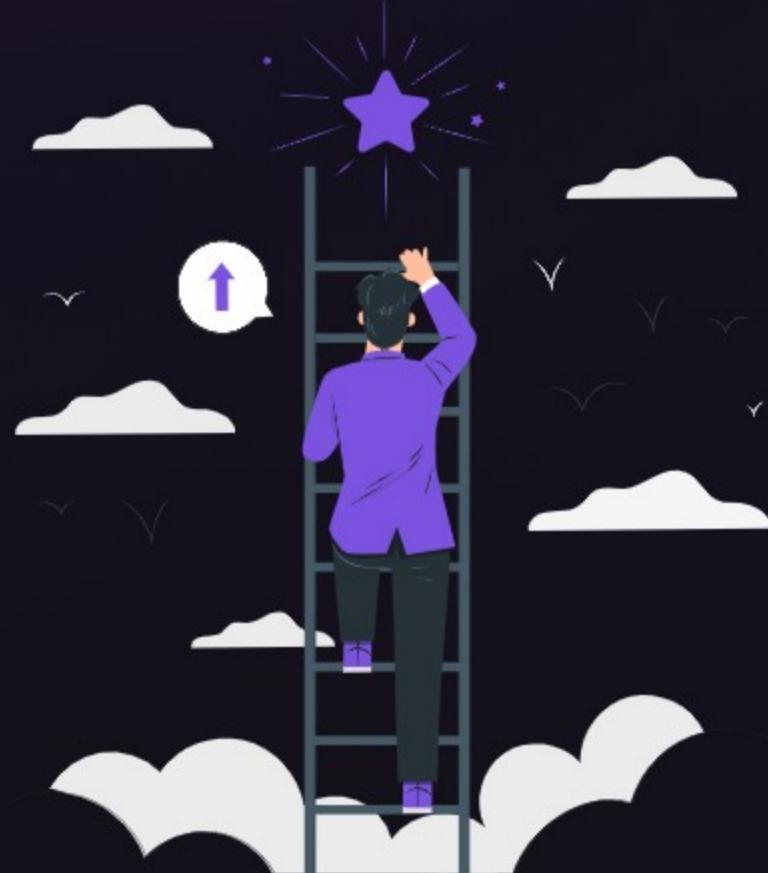
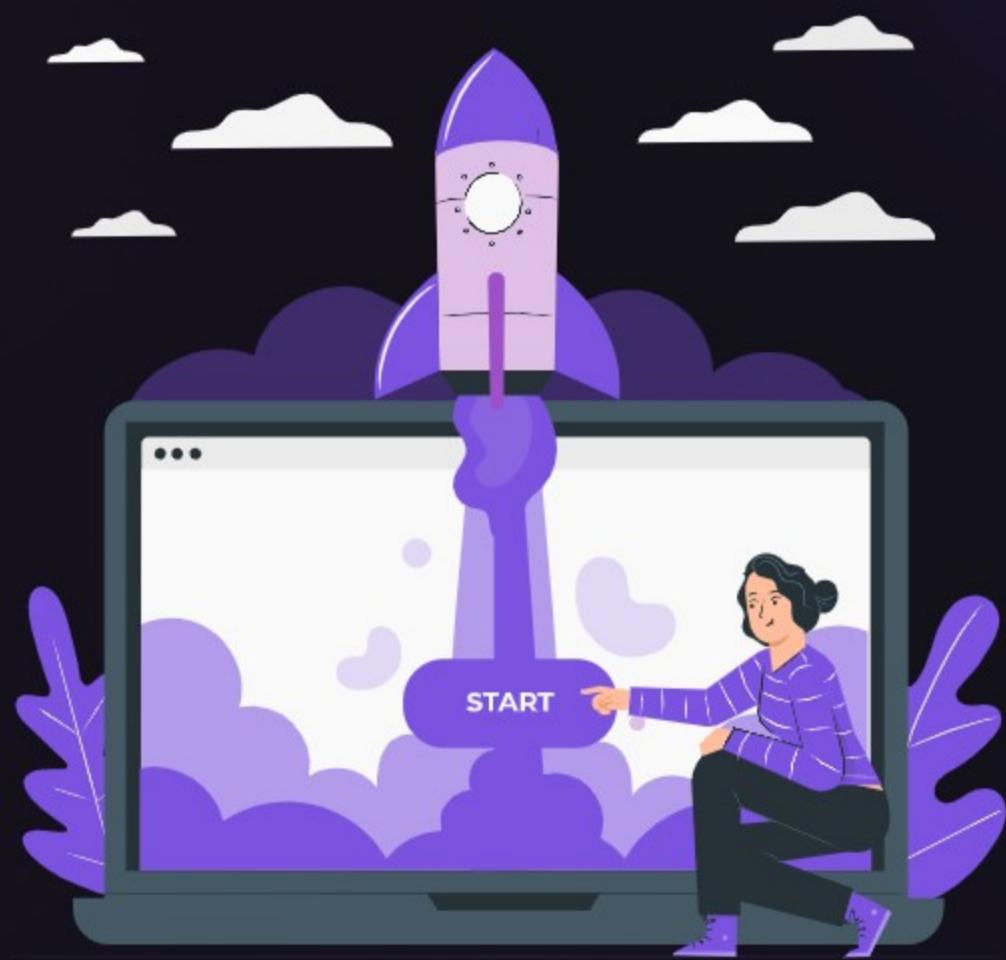


CRO tokens are not just for transaction on the Cronos- World Platform but will also give you access to benefits such as **staking pools and farms for earning rewards**. And, there's a way to earn APY!

CRONOS-WORLD: LAUNCHPAD

The launchpad is an exciting part of the Cronos-World ecosystem.

With crypto.com announcing its financial support for Cronos projects to attract good developers, we will be seeing a plethora of projects coming up on Cronos chain and Cronos-World is awaiting to launch them. The projects being launched on the Cronos sidechain are also in line to benefit from the higher throughput and speed of the sidechain.



Our mission with the Cronos-World launchpad is to enable quality blockchain projects on the Cronos-chain to thrive by providing funding, business development resources, strategy advice, access to tools, technology, and resources in order to enhance their project and will help you get your project off the ground.

1

Cronos-World will also have an incubation center to accelerate blockchain projects. If you're raising money for your business, we are looking to fund you. Our team is also here to provide advice, networking opportunities, and mentorship. Our launchpad gives users a place to discover new and exciting projects and pledge their support.

2

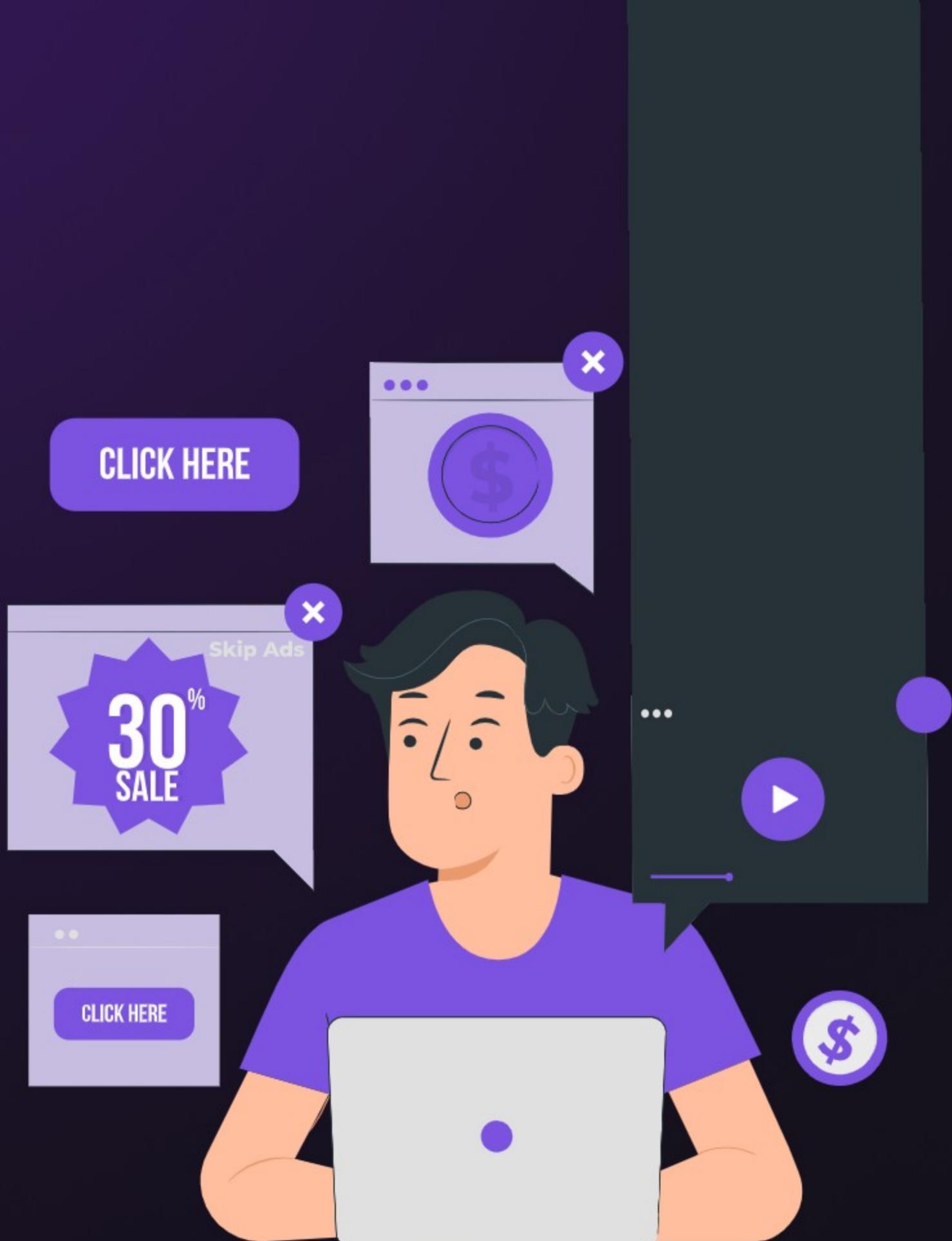
We aggregate, curate, and showcase the best projects and innovations on Cronos chain. LaunchPad makes it easier to discover projects and innovations being built on top of the Cronos chain. It helps you stay informed and educated about all the innovative projects and applications in the CRONOS ecosystem.

3

The Cronos Launchpad is a portal to the most promising projects and innovations built on top of the Cronos chain. The Cronos-World launchpad is designed to provide a one-stop stand for all crypto and blockchain related activities. It provides an environment for successful IDOs, ICOs and IGOs

4

We provide support to Cronos influencers, not just with cross-marketing in our socials but will build a separate platform altogether which you can use to streamline your efforts towards growing an audience. Get in touch with us to apply !



CRONOS-WORLD: NFT MARKETPLACE

NFTs are the future of digital ownership.

NFTs can represent anything, from precious stone to a professional fighter, making them more versatile and exciting to trade

Despite the popularity of NFTs, there are certain challenges that have slowed down their adoption, even among crypto enthusiasts and the main culprit being gas fees

While the Conos network offers a much better alternative to all the existing chains in terms of gas fees, let's see what Cronos-World brings to the table

1

And NFT marketplace for artists and collectors to mint, buy and sell NFTs on the Cronos chain. Since the gas will be charged in CRO tokens, it will be much cheaper, greener and faster compared to the Ethereum network

2

We know how tedious and long the process lasts when an artist decides to build a community around their NFTs. To make this journey easier, we have a private NFT community where artists can all come and share their insights, collaborate, network, and together synergize like $1+1 = 3$

3

CronosWorld will also offer its own NFT collections, all of which will come with added benefits in the CronosWorld ecosystem. These NFTs have to be earned by completing tasks and winning challenges at first

FURTHER DEVELOPMENTS

We are releasing the first 3 products on our platform, but they will soon be followed by more.

At times we will find paths that lead to exciting roads we had not previously seen. With our community we will continue to advance and grow, driving into the future. Our team of veteran cryptocurrency experts will continue to **strategically deploy new products that match the community interest, adding both value and potential for growth.**

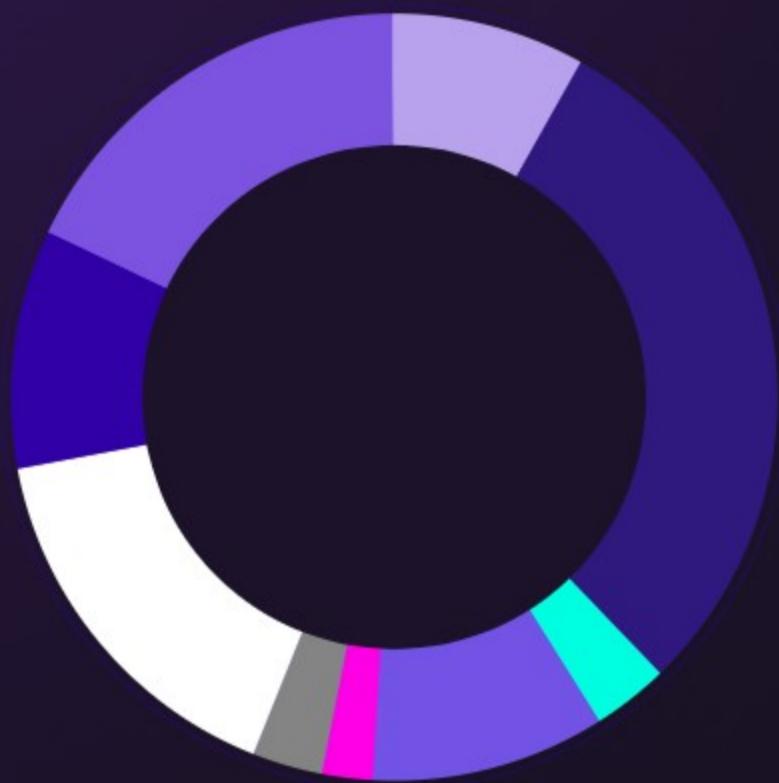


CONCLUSION

Cronos Chain is disrupting and reinventing EVM by providing a chain that integrates Tendermint's core consensus engine and Cosmos SDK. The chain is built on Ethermint

CronosWorld combines the best of all things DeFi and NFTs. With a single, powerful platform we're creating a unique value proposition for the Cronos ecosystem – and one that crypto enthusiasts will love

TOKENOMICS



- Seed Round** 7.5%
- Public Sale** 3.33%
- Reserves** 10%
- Advisors** 2%
- Liquidity** 3%
- Ecosystem/Incentives** 16%
- Private** 30%
- Team** 10%

| | |
|---------------------|---------------|
| TOTAL SUPPLY | 1,000,000,000 |
| Ticket | \$CROWN |

| Account owner | Share(% of total) | Amount in tokens | Price (\$) | Raise (\$) | TGE | Amount in Tokens at TGE |
|---------------|-------------------|------------------|------------|-------------|-----|-------------------------|
| Seed Round | 7.5% | 75,000,000 | \$0.004 | \$ 300,000 | 8% | 6,000,000 |
| Private | 30% | 300,000,000 | \$0.005 | \$1,500,000 | 15% | 45,000,000 |
| Public Sale | 3.33% | 33,333,333 | \$0.006 | \$200,000 | 30% | 10,000,000 |
| Total | | 408,333,333 | | \$2,000,000 | | 61,000,000 |

| Account owner | Share(% of total) | TGE | Cliff | Vesting | Release |
|----------------------|-------------------|-----|-------------------------------------|-----------|-----------------|
| Seed Round | 7.5% | 8% | 3 Month | 8 months | Daily |
| Private | 30% | 15% | 3 Month | 8 months | Daily |
| Public Sale | 3.3% | 30% | 1 Month | 6 months | Daily |
| Team | 10% | 0% | 12 Months | 8 months | Daily |
| Advisors | 2% | 0% | 6 Months | 12 months | Daily |
| Liquidity Provision | 3% | | Strategic Release Per Market Demand | | |
| Ecosystem/Incentives | 16% | 0% | Strategic Release Per Market Demand | | |
| Reserve | 10% | 0% | 6 Month | 12 months | 8.33% per month |
| Marketing | 18% | 0% | 1 Month | 12 months | 8.33% per month |