



# GRAILPAD

WhitePaper



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The premier multi-chain IDO platform. GrailPad empowers launchpad projects to raise liquidity in affair & decentralized manner.

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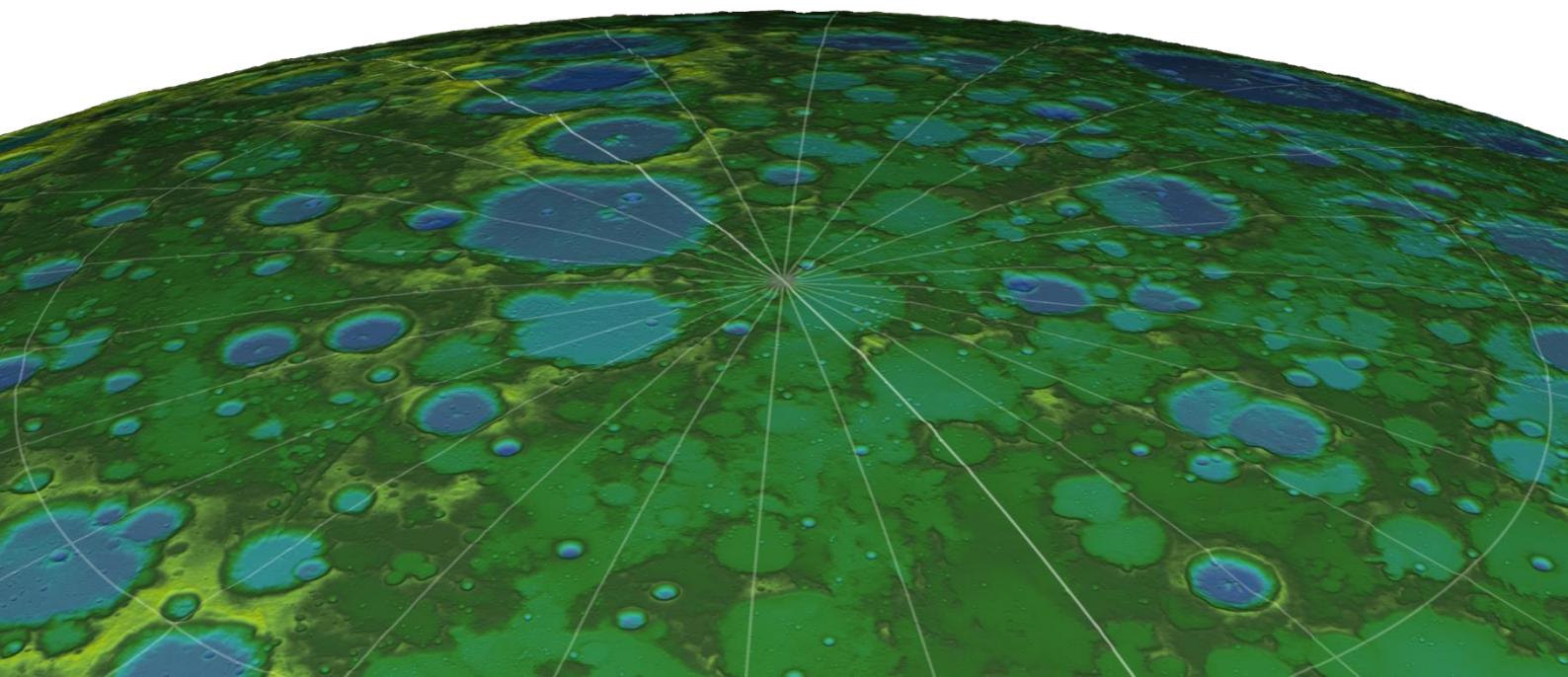
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GRAIL



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## What is GRAIL

The **Gravity Recovery and Interior Laboratory** (GRAIL) was a dual-spacecraft mission that involved placing two identical spacecraft in orbit around the Moon to use high-quality gravitational field mapping to determine its internal structure. The mission was the 11th in NASA's Discovery Program.

The names "Ebb" and "Flow" were given to GRAIL-A and GRAIL-B (launched on 10 September 2011), respectively after a national contest won by the fourth-grade students at Emily Dickinson Elementary School in Bozeman, Montana. As the two spacecraft flew over areas of increasing gravity, the probes moved slightly toward and away from each other, while an instrument measured changes in their relative velocity, providing key information on the Moon's gravitational field. The nominal mission was planned to be three months.

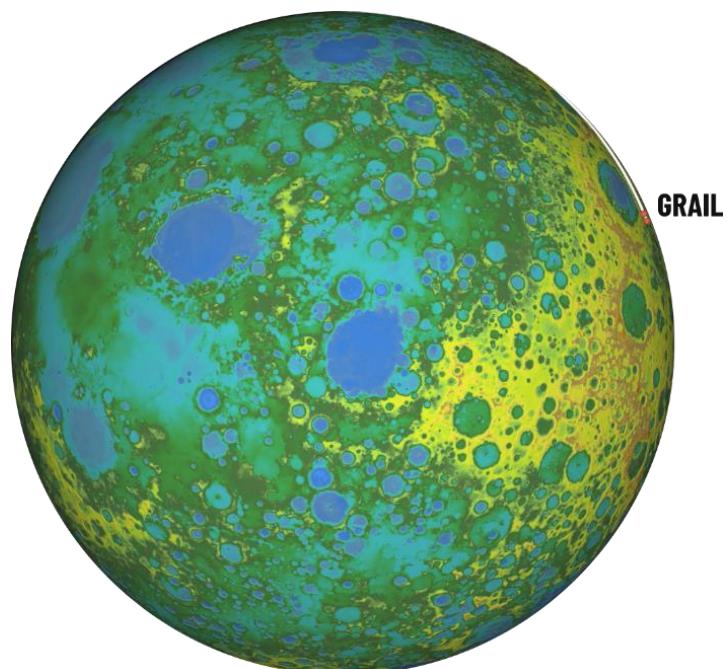
GRAIL made use of a low-energy translunar cruise that involved passing near the Sun-Earth L1 Lagrange point and then heading for a rendezvous with the Moon. The two spacecrafats arrived in lunar orbit about 25 hours apart: Dec. 31, 2011, for Ebb and Jan. 2, 2012, for Flow.

The primary science phase of the two lunar satellites lasted from March 7, 2012, to May 29, 2012. A second science phase, as part of the extended mission, was initiated Aug. 8, 2012.

### So...

The process used for GRAIL was very similar to the one used by GrailPad. GrailPad is a multichain IDO platform, which helps launch and monitors potential future projects by providing people with the opportunity to invest in them.

The explosive growth of the Blockchain industry and the Cryptocurrency market has resulted in unfair fundraising methods by start-ups, sidelining non-elite investors and leaving them exposed to Rug pulls and Crypto Scams, while the industry still battles with scalability, liquidity, and impermanent loss. GrailPad aims to serve as a one-stop accelerator to accelerate the growth of new blockchain projects while exposing investors to fair investment opportunities in verified blockchain projects and an Automated Market Maker to create sufficient liquidity without impermanent loss.



## Why GrailPad

GrailPad is related to the establishment of an international platform that enables every member worldwide to share their innovative and environmentally friendly ideas and projects. The ideas, which are based on the topics of environmental protection and sustainability, are presented on the website of this platform and made available for the fundraising of interested members. With the help of this systematic procurement of resources, such ideas are implemented in real projects that can be supported regardless of location.

The adoption of DeFi (Decentralized Finance) solutions has finally arrived with hugely successful projects like Uniswap and Pancakeswap bringing billions of trading volume to the cryptocurrency market, while taking an increasing market share from the centralized exchanges. This success comes with a number of great challenges, especially in terms of scalability, with Ethereum network fees skyrocketing and slow platform performances, which leaves end-users frustrated. Users are demanding cheap transactions, secure ultra-fast swaps, user-friendly design and the possibility to buy and move assets between blockchains. The future of decentralized finance won't be tied to one chain and interoperability is already becoming the must-have feature of the DeFi future.

GrailPad is a permissionless DEX built for cross-chain token pools and auctions, enabling projects to raise capital on a decentralized and interoperable environment based on its own ecosystem. With GrailPad, decentralized projects will be able to raise and exchange capital cheap and fast. Users will be able to participate in a secure and compliant environment and to use assets that go through our portal in BSC, Polygon, Solana, Ethereum and Avalanche.

Over the last year, decentralized finance (DeFi) solutions have democratized access to various financial instruments for millions of users around the world. Not only have experienced crypto traders been leaving centralized exchanges (CEXs) as a result, but decentralized exchanges (DEXs) have made it possible for a new market of retail investors to enter the cryptocurrency world. These events have been the driving force behind the total value locked (TVL) in DeFi increasing by a magnitude of over 5x in the last six months.



At GrailPad, our mission is to make DeFi accessible and fair for everyone. To do this we have decided to build on our multi-chain platform as it is capable of bridging assets fast and low-cost transactions.

## Issue

Growing inequality between individuals, social classes, countries and economies. The causes are just as global: the fourth industrial revolution, uncontrolled global warming, environmental damage, the rise of authoritarian regimes. All of this drives a wedge between people and, due to global networking, it affects us all. We are driven by the hope that technology and science can help individuals and entire groups out of misery by using the knowledge of their optimal application to increase the potential of each individual. Young people often have good ideas for projects. Often, they are not realized because they either have no one to talk to and do not find supporters, or there is a lack of knowledge of how to turn ideas into real projects. For us, the community is essential in order to be able to develop and implement ideas. It is particularly important to us to spread a mentality that problems can be solved, and that on a global level.

IDOs became the new order as blockchain start-ups raised funds openly and fairly with easy access to liquidity and quick exchange listings for traders. Raven Protocol, a distributed and deep learning protocol on Binance DEX was the first Initial Decentralized Exchange Offering (IDO) raising \$500,000 in less than 1Second on the 17th of June, 2019. The advent of IDOs made it easy for Blockchain start-ups to raise funds but also came with its downside.

**1. Control Issue:** Exchanges are not entirely in the interest of the IDO model hence, give less control over the fundraising to the project owners. This lack of control causes the following problems:

- ◆ The price of the token starts moving high after the very first swap.
- ◆ Only the tech-savvy and quickest investors can invest since it is a first-come, first-serve model, leaving room for Bots to dominate the offerings.
- ◆ Big investors (whales) can buy large quantities of tokens during an offering, which gives them manipulative powers over the token.
- ◆ There is no way to identify investors during IDOs as there is no Know-Your-Client (KYC) registration during the process.

**2. Price Manipulation:** Investors use Bots to manipulate the IDO price by buying large quantities of a token since it uses a first-come, first-serve model. These investors have large quantities of tokens and can manipulate the token price upon listing on an exchange for traders.

**3. Liquidity Scams & Rug pulls:** Investors are left to decide on their own whether to invest in a token project or not. This pressure of quick thinking often leads to wrong decisions, especially for non-crypto investors. Scammers can list their genuine-looking tokens, gain some liquidity and sell off all the tokens, leaving investors with worthless tokens or no liquidity to sell into. Liquidity scams and rug pulls pose a big threat to the cryptocurrency market.

**4. Listing & Liquidity Issues:** Most start-ups who raise little funds find it difficult to list their tokens on high liquidity exchanges due to the high cost of listing hence, face the issue of insufficient liquidity.

## Solution

What is missing in many places is an opportunity to get in touch with other proactive individuals and to work specifically on the implementation of solutions. The university offers the necessary knowledge but not always the necessary environment and tools. This is GrailPad: A platform for the coordination of young people with potential who find creative and well-founded solutions to specific problems and who want to implement them in projects. Implementation:

Creation of an online platform for regional to global coordination. So-called hives (derived from hive minds) should be able to be formed, self-administered from the community, e.g. on rainforest deforestation & climate change, water scarcity, consequences of widely used AI, challenges for modern learning, innovation in the city of the future, etc.

As an organizational form, these hives are geared towards the development of projects: each participant should be able to present their ideas without reservation. Initially online to collect encouragement and feedback and to sharpen the project proposal that might arise from this, similar to a pitch. Research, collaborative analysis of academic articles and books is done. There are no limits to the shape - the decisive factor is the positive atmosphere.

Blockchain is digitalizing and integrating supply chains by connecting business operations and finance at the ecosystem level. The technology has the potential to change the dynamics of system integrations not only for businesses, but for governments and academia as well. Instead of suppliers having to integrate to customized systems in large enterprises and organizations, they can instead interact with standardized apps and tokens on the public blockchain network, protected by privacy technology.

GrailPad will solve these inefficiencies via four (4) ways:

1. A next-generation Accelerator.
2. A multi-chain Launchpad.
3. A multi-chain AMM DEX.
4. A multi-chain Bridge.

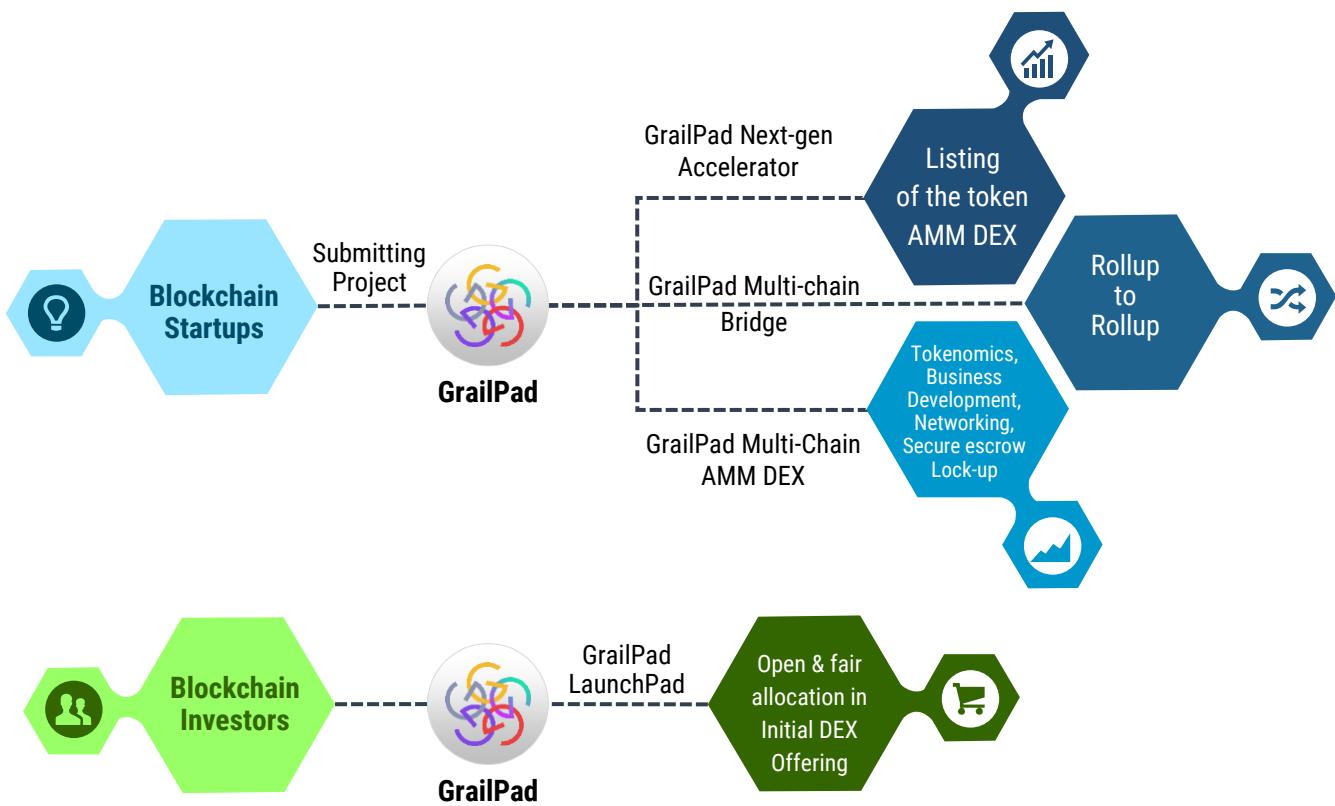
**A Next-generation Accelerator:** GrailPad's next-generation accelerator is a futuristic accelerator that will catalyze innovative and emerging blockchain startups, serving as a one-stop accelerator for accelerating the growth of new blockchain projects. GrailPad accelerator Program includes **tokenomics** (Token distribution, incentivizing positive behavior in the network, and coordinating the Token Generation Event), **Business Development, and Operational Support** (Supporting start-ups in terms of technical developments, marketing, whitepaper development, team mentorship, and more), **Networking and Counsel** (Venture Capital Roadshow, Strategic direction on connecting with influencers, private investors, public raise, exchanges, among others). GrailPad's next-generation accelerator would also aid start-ups in **Creative Direction** (Guidance on website development, graphic design, and marketing materials like staking,

farming, and vesting), **Secure Escrow Lock-up** (Keeping of raised funds in a Secure Escrow via a Custodian Contract. Funds are released only after the project achieves its set milestones).

**A multi-chain IDO Launchpad:** GrailPad's multi-chain IDO launchpad will function as an IDO platform for investors to join exclusive initial decentralized exchange offerings. GrailPad multi-chain launchpad will allow blockchain developers and start-ups to easily launch tokens built on any chain. GrailPad multi-chain launchpad would allow investors to participate in fair, secure, and guaranteed Initial Decentralized Exchange Offerings via its allocation methodology. Investors simply hold a required amount of \$GRAIL tokens and take part in the whitelisting process to be guaranteed an allocation in the IDO.

**A multi-chain AMM DEX:** GrailPad's Multi-chain Automated Market Maker (AMM) Decentralized Exchange is a blockchain-based liquidity protocol that would aggregate liquidity from a wide range of reserves, powering instant and safe token exchange in any decentralized application. GrailPad Multi-chain AMM DEX would provide new and already existing blockchain projects, access to the most liquidity, lowest slippage, best exchange rates across the entire Defi and crypto industry, and also give insurance for its liquidity pool providers. GrailPad Multi-chain AMM DEX is a liquidity infrastructure for the decentralized finance industry, aggregating liquidity from diverse sources into a single liquidity pool, which would be an end-point for automated market-making against a smart contract, providing the best rates for takers such as DApps, Wallets, DEXs, and End-users. This would enable users to perform their asset trades seamlessly on several blockchains from a single interface, in a non-custodial way with full on-chain transparency and instant transactions.

**A multi-chain Bridge:** GrailPad Bridge Tokens are specialized tokens that can be transferred rollup-to-rollup in batches and act as intermediary assets in the GrailPad platform. Each GrailPad Bridge Token represents a deposit in the GrailPad Bridge contract. For example, if 4 ETH are deposited into the GrailPad Bridge contract, 4 GrailPad ETH can be minted from GrailPad Bridge contract. Inversely, a GrailPad Bridge token can be redeemed for its underlying asset, which burns the GrailPad Bridge Token being redeemed.

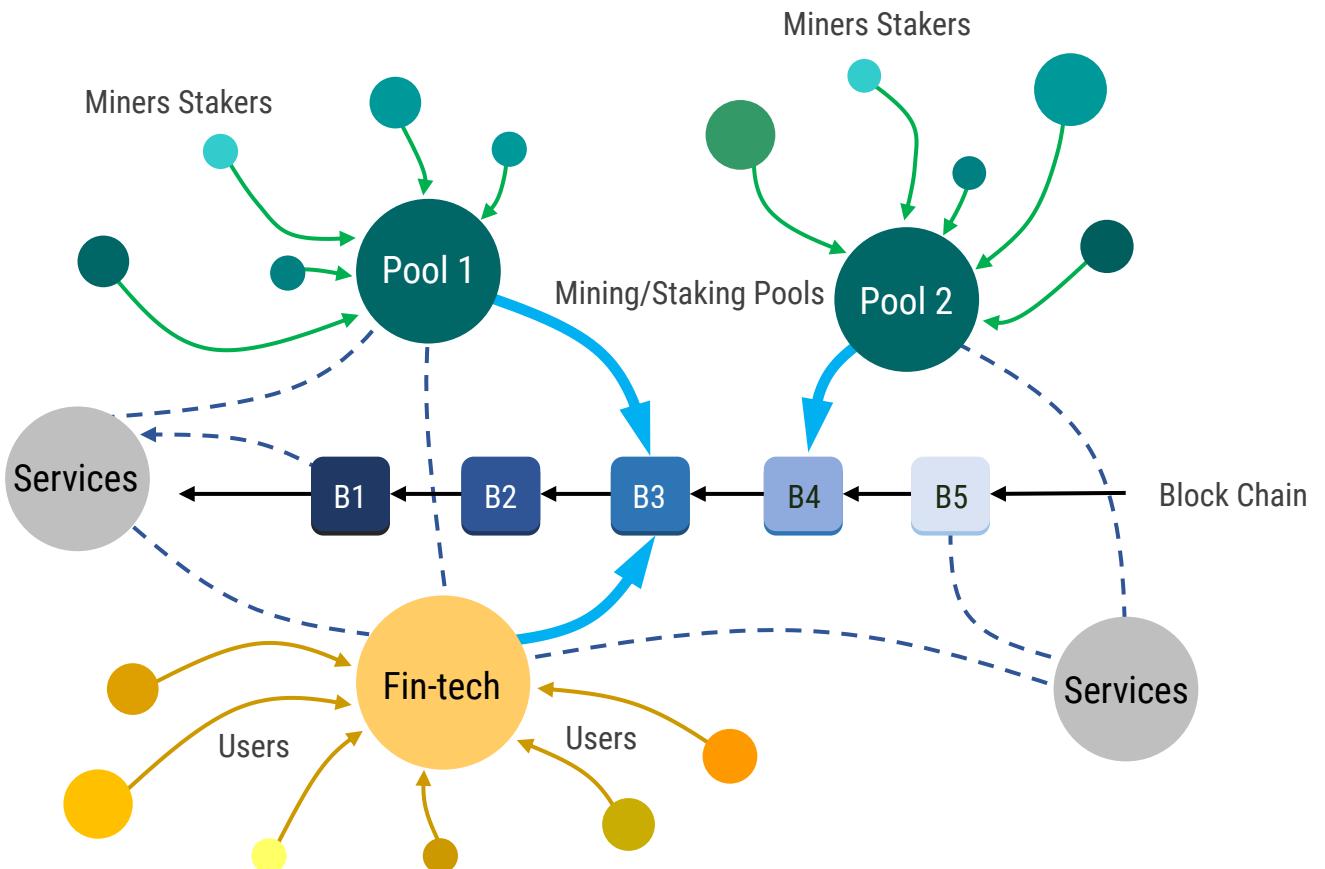


## Staking

GRAIL tokens are lockable for a selectable locktime, with a minimum locktime of 7 days. By locking GRAIL tokens in the staking contract, the user will receive a xGRAIL balance. xGRAIL tokens are not transferrable.

The height of the xGRAIL balance is based on the amount of GRAIL tokens locked, and the time left before the tokens unlock. The xGRAIL balance is linearly decreasing since the time of lock. The GRAIL tokens locked cannot be withdrawn before the locktime has expired. However, it is possible to extend the locktime or increase the amount of staked GRAIL tokens.

xGRAIL token qualifies the user for fee distribution, voting rights and exclusive or early pool access.

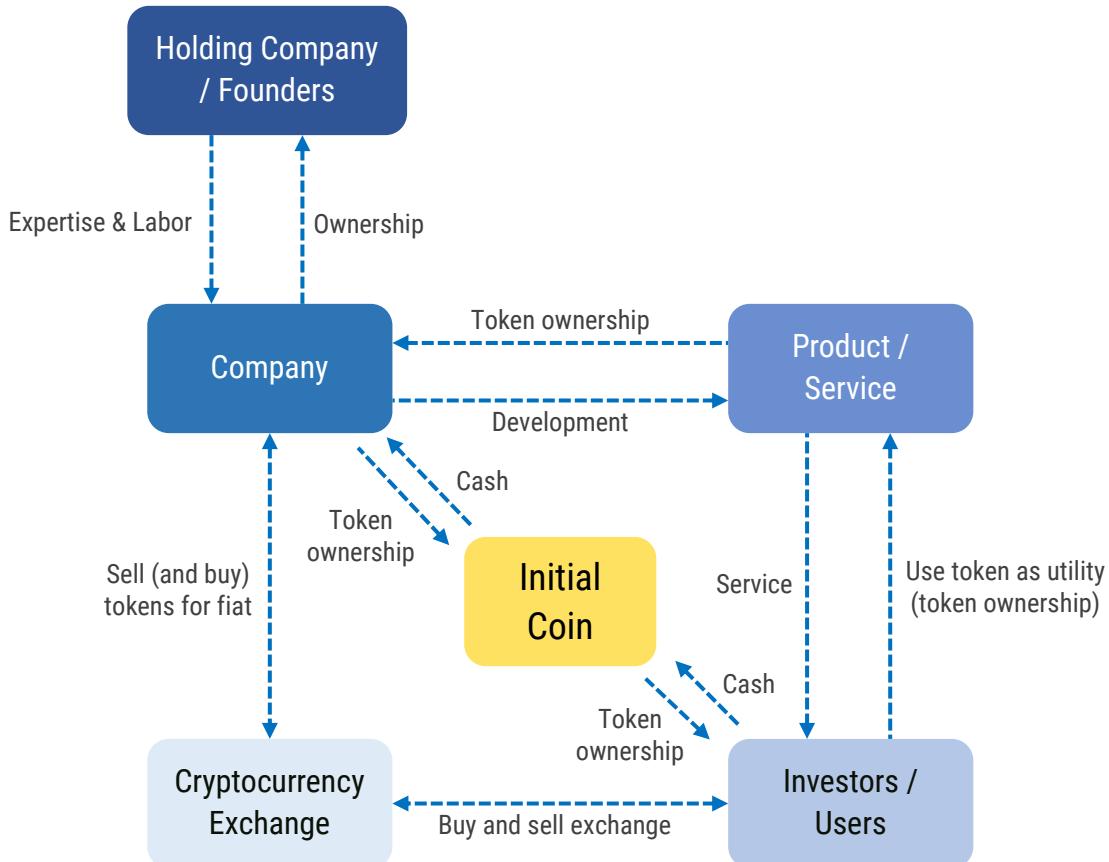


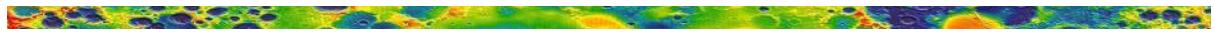
## Pools

The core function of the platform will be GRAIL Pools. On GRAIL Pools, we will provide an easy-to-use UI, where users can set-up their pool with just a few clicks. The team will still manage the front-end, and has the possibility to filter and feature certain pools, but anyone can create a pool on the GRAIL ecosystem and create an own UI to interact with it.

Every pool has a fixed percentage of fees that go to the xGRAIL token holders and to the Governance Treasury. Public pools will first be opened to xGRAIL holders, who get an allocation based on their holding, before opening up to the general public. Pool creators will be incentive to prioritize xGRAIL holders.

Example: Pool X raises 10000 BUSD, selling 1000 DEMO tokens. 2% of 10000 USDC will be distributed to xGRAIL holders and 2% of 1000 DEMO will be put in the Governance Treasury.





## Governance

The first phase of the Governance will be a mix between a centralized solution and blockchain voting. There will be a centralized app, where users can sign with their wallet and cast a vote. The votes will be saved in the database of the application. This can be compared to Snapshot for Ethereum projects. We will slowly convert this to fully decentralized application with on-chain voting.

The reason behind releasing a semi-decentralized solution first, is because we want to capture community engagement as soon as possible. The governance will be in charge of the GrailPad Treasury and market fund. The vote-weight of a user is based on the amount of xGRAIL tokens the user has at the time of casting the vote. Every feature in GrailPad will be shaped based on voting system.

## Bridge

GrailPad Bridge Tokens are specialized tokens that can be transferred rollup-to-rollup in batches and act as intermediary assets in the GrailPad protocol. Each GrailPad Bridge Token represents a deposit in the GrailPad Bridge contract. For example, if 4 ETH are deposited into the GrailPad Bridge contract, 4 GrailPad ETH can be minted from GrailPad Bridge contract. Inversely, a GrailPad Bridge token can be redeemed for its underlying asset, which burns the GrailPad Bridge Token being redeemed. When a GrailPad Bridge Token is transferred from rollup to rollup, it is burned on the origin rollup and minted on the destination rollup. As explained below, these immediate transfers are accomplished by allowing a "Bonder" to front liquidity on the destination in exchange for a small fee. The Bonder's liquidity is returned

When the transfer eventually propagates through platform as part of a larger bundle called a "Transfer Root".

A GrailPad Transfer includes the following information:

- ◆ Destination chain ID - The chain ID of the rollup or layer-1 destination
- ◆ Recipient - The address receiving the Transfer at the destination
- ◆ Amount - The amount of token being transferred

The Transfer may also include additional information for convenience functionality. For example, it may specify a relayer fee to allow a transaction relayer to withdraw the Transfer at its destination on behalf of the user. A future version of the GrailPad Bridge that handles multiple tokens would also require a token identifier to be included in the Transfer data.

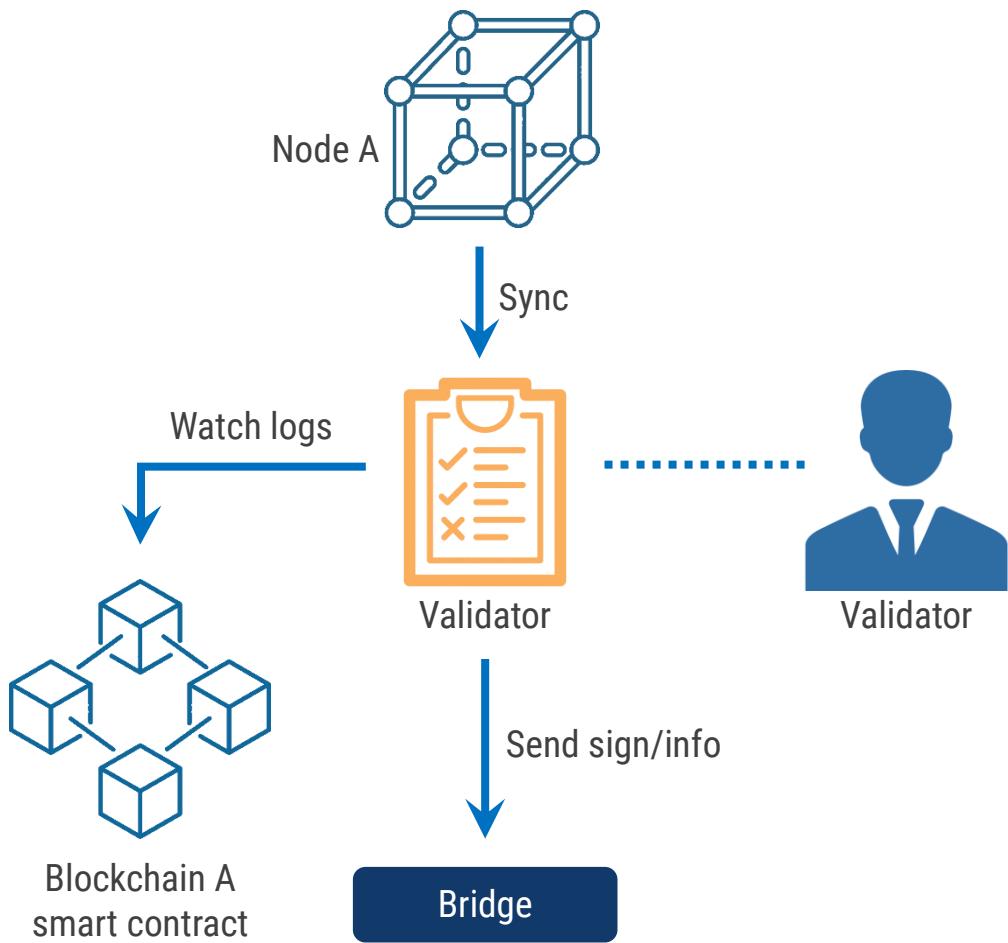
A Transfer Root represents a bundle of Transfers with minimal data. Each Transfer Root is composed of:

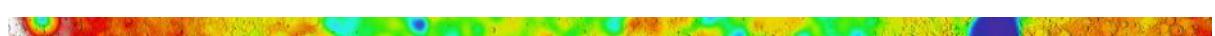
1. A Merkle root of the Transfers
2. An array of each unique destination represented by its chain ID
3. An array of total amounts being sent to each unique destination

A Transfer Root can contain thousands of Transfers yet be accounted for as a single bundle. This alleviates bottleneck and allows a large number of transfers to be passed through layer-1 to their destination rollups in a scalable way. However, propagating a Transfer Root through layer-1 can be a slow process. This is primarily due to the exit time of the rollup that the Transfer Root originated on. In order to fulfill Transfers immediately, an external party can provide up-front liquidity on the destination rollup for a small fee, as described in this next section.

The Bonder can verify that the Transfer was made on its origin rollup by running a verifier node for the rollup. The Bonder can then provide up-front liquidity on the destination rollup in order to fulfill the Transfer immediately. Eventually, when the Transfer has reached its destination, the Bonder's funds are restored.

The Bonder may take a small fee in exchange for locking up liquidity while the Transfer is propagating through the system. The immediate liquidity provided by Transfer Bonds and scalability achieved with Transfer Roots enables GrailPad Bridge Tokens to be quickly and economically moved from rollup to rollup.





# Tokenomics

## Token information

- ◆ **Type:** GrailPad Token on BSC, Polygon, Solana, Ethereum and Avalanche
- ◆ **Ticker:** GRAIL
- ◆ **Total Supply:** 400,000,000 GRAIL (fixed)
- ◆ **Initial Circulating Supply:** 80,000,000 GRAIL
- ◆ **Initial Market Cap:** \$1,430,000 USD
- ◆ **Public Sale Price:** \$0.02 USD

## Token distribution

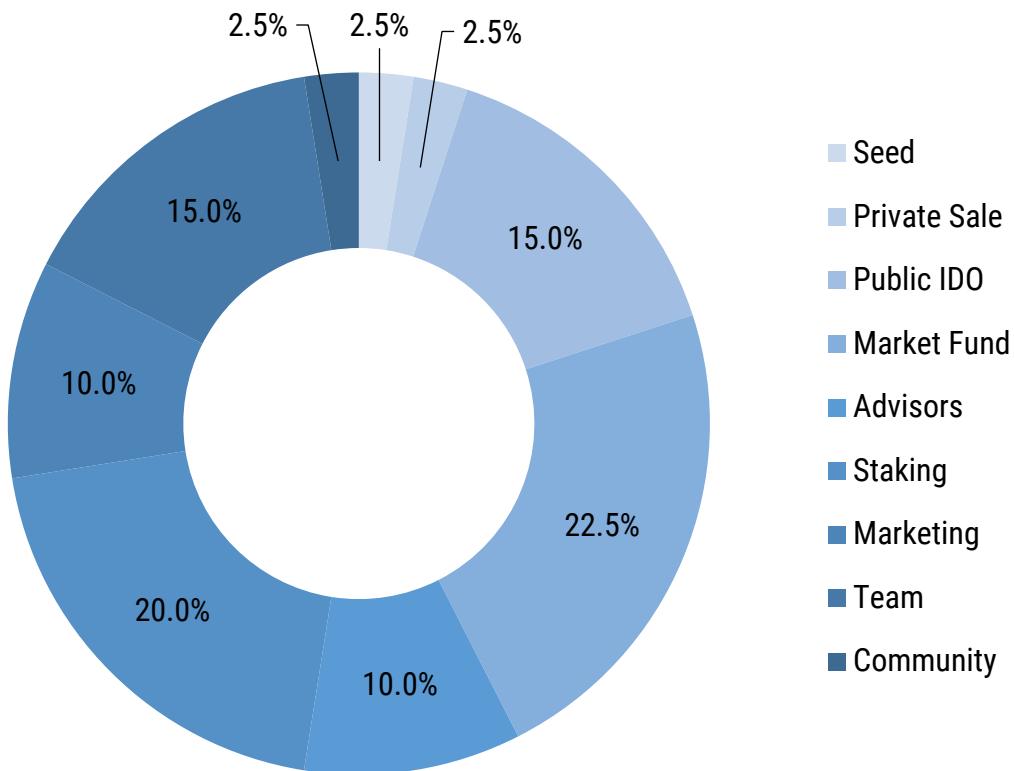
Both our seed and private sale rounds are distributed over many different participants. By distributing our seed, private and public sales we are trying to create the fairest token distribution on launch possible with no single entity holding large quantities of the supply. For preventing the price dumping we dedicate 50% of private sale fund to buyback.

- ◆ 25% of Seed tokens will be unlocked after launch, 20% monthly unlocked after then.
- ◆ 30% of Private sale tokens will be unlocked after launch, 20% monthly unlocked after then.
- ◆ 60% of Public sale tokens will be unlocked after launch, 20% monthly unlocked after then.
- ◆ Market fund tokens will be liquidity provision for listing on exchanges schedule in roadmap.
- ◆ Advisors' tokens will be unlocked 1 year after launch, 10% monthly.
- ◆ Staking tokens will be rewarded over 5 years.
- ◆ Marketing tokens will be unlocked 5% monthly.
- ◆ Team tokens will be unlocked 1 year after launch, 5% monthly unlocked after then.

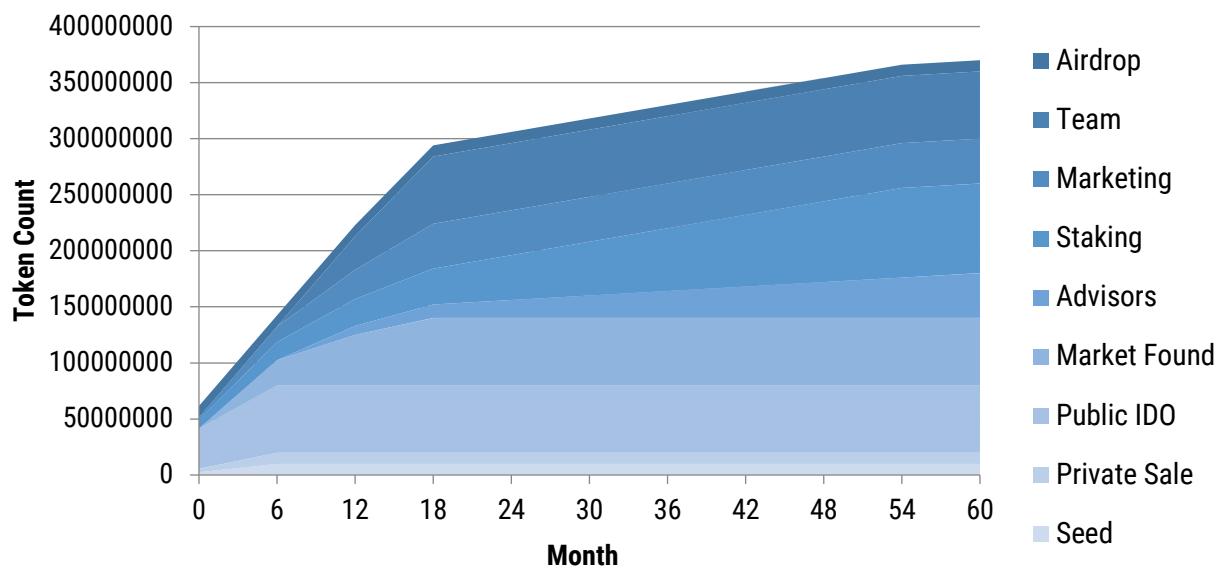
Category	Price	% of Total	Token Count	Fund Raised	Purpose
Seed	0.008-\$	2.5%	10,000,000	80,000\$	25% unlocked 20% monthly unlocked
Private sale	0.015-\$	2.5%	10,000,000	150,000\$	30% unlocked 20% monthly unlocked
Public IDO	0.020-\$	15%	60,000,000	1,200,000\$	60% unlocked 20% monthly unlocked
Market Fund		22.5%	90,000,000		Bridge, CEX and DEX Liquidity Provision
Advisors		10%	40,000,000		1 year locked 5% monthly unlock
Staking		20%	80,000,000		Rewards over 5 years
Marketing		10%	40,000,000		5% monthly
Team		15%	60,000,000		1 year locked 5% monthly unlock
Community		2.5%	10,000,000		Distributed after TGE
Total		100%	400,000,000	1,430,000\$	

- 80 percent of total fund raised will be locked in liquidity for CEX and DEX.

## Token Distribution



## Circulating Supply Over Time





## FAQs?

### **What is the difference between GrailPad and other launchpads?**

Our essential mission is to deploy a multi-chain and fully decentralized platform. We wanted to ensure this platform to be scalable rollup-to-rollup general token bridge with various staking option to participate fund raisings. Even if an ongoing pool opens and you staked grail in an irrelevant chain, you have the chance to participate the IDO.

### **What chains is supported in GrailPad?**

GrailPad is a multi-chain platform. BSC and Polygon will be available in first step and Solana, Ethereum and Avalanche will be available soon.

### **Will there be an airdrop?**

Yes. There would be several airdrop campaigns and will be announced in our official social media channels.

### **When is the grail public token sale?**

It's scheduled for 2021 and the exact time period will be announced.

## RoadMap





GRAILPAD®

