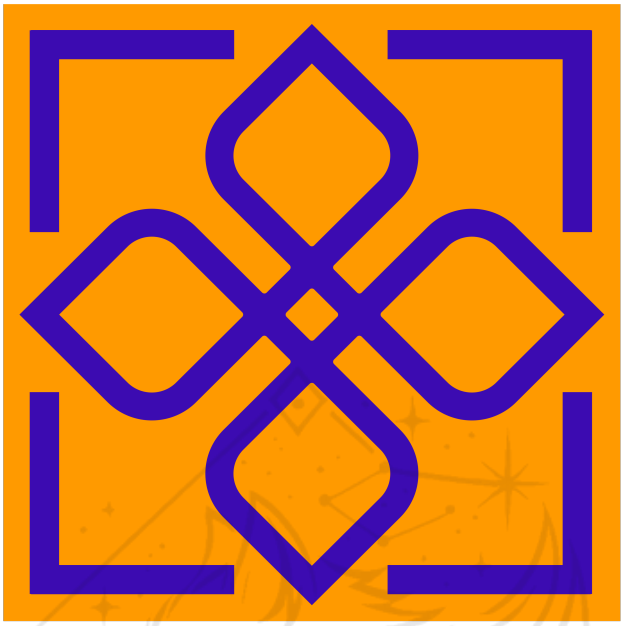


Geode

Setting Humanity Free

CRYP2NOVA

Whitepaper

Update: August 15th, 2025

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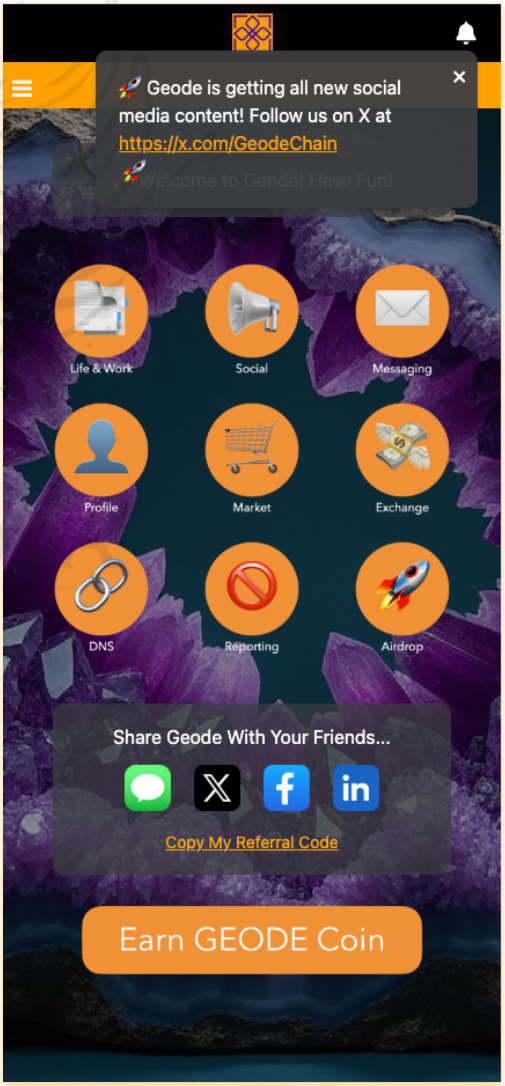
The Problem: Natives & Newcomers Are Frustrated

1. Web2 sites are exploiting their users' time, attention and creativity for profit and users are finally frustrated enough to try something different.
2. Web3 is the answer, but chains and apps are siloed and esoteric.
3. THE RESULT: New users WANT to try web3 but don't know where or how to begin.

The Solution: Geode Blockchain

The Decentralized App Store For The Crypto Curious, and the All-In-One That Blockchain Natives Have Asked For

- Bring all the chains and dapps into one place
  - Make it easy to get started onchain
  - Make it easy find cool dapps to use
  - AI backend drives quality ratings and filters out junk dapps
  - See ratings and reviews from around the internet and do your research
  - Organize your favorites
  - Pay to boost your dapp or chain in the search and recommendation engines (Revenue goes into further development, marketing and coin buybacks)
- Geode native utility dapps give users something useful to try first, before reaching out across chains (native dapps are favored in search results)
- AI User Agents help users onboard, learn, search, and take action
- Independent layer one chain provides autonomy, more community control & regulatory advantages



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Project Architecture...

The Geode Blockchain

The Geode Blockchain is a fully independent layer one chain **built on Substrate, open source, audited, stable and well thought out code that removes a number of vulnerabilities and challenges** seen in previous blockchain architectures. Substrate's creator, Dr. Gavin Wood, was a co-founder of Ethereum and wrote the Solidity smart contract language. He subsequently led a team to develop Substrate to overcome the limitations, challenges and security issues in Ethereum, Solidity, and other predecessor blockchain and smart contract designs. Substrate is a modular system of pallets written in Rust. It offers the **security** of the Rust programming language (no memory leaks!), with the ability to do **forkless upgrades** to the network. You can explore Substrate's GitHub repository at this link.

> *"[Rust] is type safe, memory safe, and free of undefined behaviors. It generates small binaries because it doesn't include extra bloat, like a garbage collector, and advanced optimizations and tree shaking remove dead code. Through compiler flags, Rust can automatically protect against integer overflow." - ink.Substrate.io*

Geode uses Substrate's Kitchen Sink version, using the BABE consensus algorithm and GRANDPA finality. BABE consensus is a **Nominated Proof of Stake (NPoS)** consensus algorithm, while the finality is handled separately through the GRANDPA pallet using a **Byzantine Fault Tolerant (BFT)** algorithm with an important distinction in that the algorithm can finalize several blocks at a time (see more at this Medium article). This ensures one single chain of record upon finality and a robust system to keep bad actors at bay. The baseline substrate code is so well thought out that for the Geode Blockchain, **we left it unchanged, except to reduce transaction fees**.

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Application Specific Smart Contracts

Applications on the Geode Blockchain are deployed as novel smart contracts. Smart contracts are coded in ink!, a smart contract language developed specifically for Substrate blockchains and based in Rust.



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The Geode Native dApp Suite



Life & Work

Register your work history, education, intellectual property and more. Find your next star team member.



Private Messaging

Truly private and ethereal messaging for individuals, groups and newsletter lists.



Marketplace

Buy and sell directly and keep 100% of the profits. Physical and digital products and services.



Social

Classic social experience PLUS advertisers pay you directly to look at ads in your paid feed



Profile

Tell the world what you do and where to find you in the Geode ecosystem



Private Exchange

Craigslist style listings for any kind of non-security crypto



DNS

Register, point and transfer Geode Domain Names



Reporting

See something illegal happening in the Geode ecosystem of apps? Report it!



Surveys

Get paid for your opinion. Run your own surveys. Get results as a CSV file.



Airdrop

Get coin for setting up your account on the native dApp suite and referring friends



Cross-Chain dApp Search

Find dApps across all chains and organize your favorites in one place



My AI User Agent

Make accounts, onboard, learn, and take action across chains and dapps

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The Geode Token - Measuring Productivity, Creativity & Value

Geode's Utility

The Geode token is used to for **governance** and **participation rewards** on the Geode Blockchain and to use its associated **application ecosystem**. These tokens measure:

- **Voting Weight** - governance on the chain uses nominated proof of stake (NPoS) where nominators stake tokens to nominate a given set of validators. If the validator is chosen to create the next block, both the validator and their nominators are rewarded. Likewise, bad actor validators are slashed along with their nominators, allowing the system to naturally isolate and neutralize bad actors and those working against the system.

- **Contribution Value** - Geode users are rewarded for contributing to the community through social posts, onboarding their friends, putting their resume and other data onchain, using the apps, sending in ideas for new apps and features, and otherwise ensuring the vibrancy of the Geode community.

- **Product Value** - In future applications such as selling products, tickets, and NFTs of all kinds, Geode is used to measure and pass product value.

- **Time and Attention** - advertising and marketing professionals can use Geode tokens to reward users for their time and attention directly in Geode Social and Geode Private Messaging,, increasing market interest and improving accuracy through openly declared user interests.

Geode Is A Digital Commodity & US-Based Blockchain Native Asset

The Geode token is NOT a security, or an investment of any kind. We address these issues further in this whitepaper in the section on common issues, but the summary is:

- The team coding the Geode Blockchain and its initial applications were **self-funded**. We make no claim or guarantee of increasing token value and tokens were not offered in exchange for pre-launch investment prior to MainNet launch.

- **New Geode is minted automatically over time on the chain**. If users want to acquire Geode, they must offer their own productivity via an application on the Geode Blockchain, put in effort as a validator or nominator and/or purchase tokens privately from an individual or through a licensed third party exchange. Users should note that third party exchanges may or may not choose to list the Geode token and there is no guarantee of such listing on any exchange.

- The value of the Geode token will NOT be determined by the efforts of any third party, but solely by the productivity, creativity, time and attention (or lack thereof) of the users themselves. The users ARE the governance of the Geode system and wholly responsible for its continued operation. There are no guarantees that the token will ever have any value outside of the Geode application ecosystem.

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- Geode is a fully US based layer one chain and app ecosystem. Laws passed in the United States in 2025 including the Crypto Market Structure Bill (expected September 2025) verify Geode's status as a Digital Commodity and Blockchain Native Asset.

Inflation - How New Tokens Are Minted Each Era

New Geode tokens are minted on the chain, directly to validators, nominators, and the treasury, based on the ideal annual "inflation" percentage of 3% per year. The system automatically mints this percentage of staked token over the course of a year, minting some each era. These tokens are used to reward community members acting as nominators and validators and by the treasury to benefit the chain ecosystem. The inflation percentage is increased or decreased over time automatically to influence an ideal ecosystem-wide staking rate of 50-75%.

Conviction Voting Neutralizes Whale Dominance

The Geode Blockchain is governed by its validators, nominators and users. Referenda and voting takes place on the decentralized interface. All users are staked in order to vote and voting is both stake-weighted and conviction-weighted (so that whales cannot dominate a vote).

Geode uses **Substrate's Time-Locked Conviction Voting** to neutralize founder and whale voting influence. Holding only a small amount of tokens, a user can still have massive influence on a vote by volunteering to lock up their tokens for a longer period of time, as a show of how deeply they are convicted to their vote. That measure of conviction multiplies their voting power. **Using Conviction Voting allows one or more smaller-staked users to overpower the votes of any one or more whales**.

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History & Roadmap

February 26, 2022	Geode, the project, began
February 14, 2023	Geode MainNet went live 🧡
February 2024	Geode released its first beta set of decentralized apps
February 2025	Geode dApp suite completed deployment of production versions of its first 10 decentralized apps for the Geode Native dApp Suite
March 2025	Geode opened the doors to the public and let the community in. New logos and branding adopted by the community. Marketing and Messaging experiments began.
2025 Q3	Deploy beta versions of Cross-Chain dApp Search & AI User Agents AI user agents: educate and onboard
2025 Q4	First exchange listing anticipated Cross-Chain dApp Search: continued improvements
2026 Q1	AI user agents: take action across the Geode Native dApp Suite Cross-Chain dApp Search: continued improvements
2027 Q2	Goal: 6 Million Users AI user agents: take action across chains Cross-Chain dApp Search: continued improvements

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Leadership & Operations

Sparticle Concepts LLC (Operating Company)

Sparticle Concepts LLC consists of just two people with a **combined 5 technical degrees and 70+ years of industry experience**. With experience comes two critical things: **expertise and patience**.



Dr. Kathryn Messegee, PhD (Founder)

- Founder, Management, Partnerships, Chain & dApp Development
- PhD, Mathematics
- Former DARPA PM, DOD & NASA
- 32 Years Experience In Technology Prototyping, Program Design and Management
- Government Outreach @ State & National Level

Dr. Kathryn Messegee, known as Guru Kathryn, is an American-born humanitarian, advisor, author, composer and artist with more than 32 years of industry experience in technology prototyping. Her summer job at 16 was doing scientific research at NASA. Before her 25th birthday she earned her Ph.D in Mathematics (Specialty: Nonmonotonic Reasoning) and was speaking to conferences on human reasoning and how to make the infinite finite. A hyper-polymath, her career has enjoyed a ride through six different industries (including at tour as DARPA PM) where she gathered the expertise and the patience to undertake a project as big and as important as Geode Blockchain. She has published 17 books, hundreds of articles and papers, dozens of unique art pieces and released 6 albums.



Mr. Thomas R Messegee (Co-Founder)

- Co-Founder, UI Development
- Veteran: US Navy Nuclear Power Program
- Former DOD PM (Intelligence Satellites)
- MS, Electrical Engineering
- 42 Years Experience In Technology Prototyping, Design, Launch and Operation

Mr Thomas (Tom) Messegee, is an American-born engineer, scientist and language enthusiast. He began his career in the Navy's Nuclear Power program, undertook critical technical missions on our nations submarines, and enjoyed a total 42 years of experience in the Defense industry. He has worked with technical program development and deployment from under water to on orbit in aspects from software to hardware systems alike. Complex, and novel technology developments in highly regulated and consensus oriented environments were the norm as he saw projects from design to launch and operation. He offers consulting to commercial satellite companies and commercial blockchain projects.

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The Geode Foundation (501c3 Public Charity)



Our foundation is dedicated to fostering economic opportunity and community development through the promotion of decentralized applications (dApps), decentralized autonomous organizations (DAOs), and other on-chain activities. By increasing innovation, awareness, and access to these transformative technologies, we aim to create more active, connected, and economically empowered communities.

Timeline: The foundation began operations in 2025, initially focusing on community engagement, educational programs, and grant-making. Over time, we plan to scale up activities based on funding availability and community needs.

Where We Work: Our efforts will primarily be focused on global initiatives, with an emphasis on communities that stand to benefit the most from decentralized applications. We will support both online and in-person initiatives to maximize reach and impact.

How We Achieve Our Mission: We will work through a combination of grant-making, awareness initiatives, community programs, and partnerships with other mission-aligned organizations.

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KYC/AML and Regulatory Compliance

While the nature of Geode's applications does not currently require KYC/AML plans and reporting, we feel the need to put in place certain protections for our users and for those who may build applications on the Geode Blockchain over time.

Suspicious Activity Monitoring & Reporting

As we recognize that applications such as Geode Social and Geode Marketplace offer the potential for illegal activity, money laundering and terrorist financing, and as we have no interest in allowing such activity to prevent or muddy the innovative and creative activities of legitimate users, we will be instituting suspicious activity monitoring and reporting processes and procedures anyway from day one to protect our users. Features, including Geode's Suspicious Activity Reporting App, within the front end allow users to spot suspicious activity, and to investigate and report that activity to authorities when evidence of illegal activity comes to light. As Geode is a public blockchain, the community (and law enforcement agencies worldwide) have full visibility into every transaction on the chain and tools to investigate the sources of suspicious activity.

Regulatory Compliance

We are cognizant of the quickly changing landscape of the blockchain and cryptocurrency regulatory environment in the United States and worldwide. Understanding that state, federal and international laws change often, we keep a close eye on any of the following relevant to Cryptocurrency, Blockchain NFTs and other aspects relevant to Geode's Community:

- State legislation under consideration and/or recently passed
- US Federal legislation under consideration and/or recently passed
- International regulatory changes or changes under consideration
- Actions or statements by the SEC, CFTC, FinCEN and other relevant entities

Geode is and will continue to be fully compliant with applicable US laws and regulations.

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Important Legal Notices

This whitepaper is intended for general informational purposes only and does not constitute a prospectus, an offer document, an offer of securities, a solicitation for investment, or any offer to sell any product, item or asset (whether digital or otherwise). The information herein above may not be exhaustive and does not imply any contractual relationship. There is no assurance as to the accuracy or completeness of such information and no representation, or warranty is provided as to the accuracy or completeness of such information. Where this whitepaper includes information that has been obtained from third party sources, Sparticle Concepts LLC and the Geode team have not independently verified the accuracy or completion of such information.

Nothing contained in this whitepaper is or may be relied upon as a promise, representation or undertaking as to the future performance of the Geode Blockchain, its associated interfaces and application ecosystem.

Nothing in this whitepaper constitutes legal, business, financial or tax advice. Please consult your own professional advisors in those areas. Neither Sparticle Concepts LLC, nor any of the project team members who have contributed to the Geode Blockchain platform or BlockAndPurpose.com nor any other service provider involved in those projects, shall be liable for any kind of damage or loss, direct or indirect, whatsoever in connection with this whitepaper, or any other materials published by Sparticle Concepts LLC and its affiliates.

By accessing this whitepaper, or any part thereof, you represent and warrant as follows:

1. You acknowledge, understand and agree that the Geode token may have no value, there is no guarantee or representation of value or liquidity for Geode, and Geode token is not for speculative investment;

2. None of Sparticle Concepts LLC, its affiliates, and/or Geode team members shall be responsible for or liable for the value of Geode tokens, the transferability and/or liquidity of Geode tokens and/or the availability of any market for Geode tokens through third parties or otherwise;

3. In any decision to purchase any Geode tokens from a qualified exchange, you have not relied on any statement set out in this whitepaper;

4. The information set out in this whitepaper is for community discussion only and is not legally binding;

5. In the event of conflict or ambiguity between the English language version and translated versions of this whitepaper, the English language version shall prevail. You acknowledge that you have read and understood the English language version of this whitepaper; and

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