OVERVIEW
Algorand is an open source permissionless public blockchain based on a pure proof-of-stake consensus protocol—the first of its kind to support the scale, open participation, and transaction finality for billions of users. Backed by a sustainable business and a renowned team of experts, Algorand overcomes the decentralization, security, and scalability barriers that have undermined mainstream blockchain adoption until now. After years of uncertainty and unfulfilled promises, Algorand is making the borderless economy possible by setting the standard for blockchain.

TEAM
The Algorand protocol was designed by cryptography pioneer and MIT professor Silvio Micali along with a team of world-class scientists. Silvio is the co-inventor of probabilistic encryption, zero-knowledge proofs, verifiable random functions, and many other protocols that are the foundations of modern cryptography. He is the recipient of the Turing Award, Gödel Prize, and RSA Prize.

Today, the Algorand team blends technical mastery and professional stability to ensure a sustainable platform. The team consists of internationally recognized researchers, mathematicians, cryptographers, and economists along with proven business leaders from global technology companies—all dedicated to fulfilling the promise of blockchain technology. The team is committed to building an inclusive ecosystem where everyone can harness the potential of an equitable and truly borderless economy.

TECHNOLOGY
In a market full of promise, Algorand delivers credibility and defines the standard for blockchain. Algorand’s breakthrough innovation solves for decentralization, security, and scalability, meaning businesses are no longer constrained by immature blockchain technology or previously intractable technical barriers. Organizations can now focus on the development of real solutions that unlock the potential of a decentralized digital economy.

Algorand uses a pure proof-of-stake consensus protocol built on Byzantine agreement. This means the system can achieve consensus without a central authority and tolerate malicious users as long as a supermajority of the stake is in non-malicious hands. Users’ influence on the choice of a new block is proportional to their stake (number of algos) in the system. Users are randomly and secretly selected to both propose blocks and vote on block proposals. All online users have the chance to be selected to propose and to vote. The likelihood that a user will be chosen is directly proportional to its stake.

Algorand is the first blockchain to provide full and immediate transaction finality with no forking, delivering real-time transactional integrity for organizations building on the Algorand platform. With blocks finalized in seconds, Algorand’s transaction throughput velocity is on par with large payment and financial networks, all securely scalable to billions of transactions.
The highest level of security is an absolute necessity for a public blockchain in which all participants can safely transact, hold high-value assets, and build trusted enterprise applications. Algorand maintains security against attacks at both the consensus protocol level and the network level—all while safeguarding individual user accounts.

**PARTICIPATION**

Algorand is an inclusive and transparent system in which anyone can build prosperity through decentralized applications and projects, no matter where they are. The platform gives developers, enterprises, universities, and investors opportunities to participate in trusted, credible blockchain development. Algorand serves as the foundation for innovative projects across all industries—from finance to real estate to healthcare.

Algorand’s open source implementation makes it simple and fast for developers to build on blockchain. Our developer enablement program encompasses comprehensive developer resources and collaboration tools. Java, JavaScript (node.js and browser) and Go SDKs, along with REST APIs, allow developers to build on Algorand in their preferred programming languages. They can easily get up and running writing applications on Algorand and quickly integrate with applications in common languages.

**ROADMAP**

The future is ever-evolving, and so is Algorand. Continuing to raise the standard for blockchain today and tomorrow, several advancements to the foundational Algorand public blockchain are planned:

- **VAULT** is a blockchain compression technology that allows new users to immediately join and participate in the Algorand network without a burdensome download, allowing for efficient onboarding, chain growth, and info retrieval.

- **PIXEL** is a new digital signature scheme built for proof-of-stake systems that reduces space requirements through committee member signature aggregation while maintaining forward-security through key rotation.

- **SELF-VALIDATING TRANSACTIONS** allow for the separation of consensus and storage to enhance the efficiency and logical structure of the Algorand blockchain. This technical advancement provides speed, light incentives, sustainable rewards, and more.

- **ATOMIC² SWAPS™** leverage Algorand’s instant transaction finality and implement same-chain swaps of assets, without any type of time-or hash-locks, in a single transaction. This allows for instantaneous single transactions, removes the need for time locks, and advances the technology to next generation trading as it should be.

- **POST-AND-SALE TRADE TECHNOLOGY** will allow any seller to post assets for sale, at a given price, which eliminates ambiguity, “double trades,” and customer acquisition costs.

- **SMART² CONTRACTS™** leverage Algorand’s consensus mechanism to offer faster and cheaper forms of smart contracts that require minimal resources, maintain the same high security standards, and drive towards next-generation processing as it should be.
JOIN OUR COMMUNITY
Get involved in the community to network, be inspired by other like-minded innovators, take action in the blockchain space, and be a part of our collective future success. Join the evolution at community.algorand.org.

BECOME A LEADER IN THE BORDERLESS ECONOMY
community.algorand.org/ambassadors

This is an opportunity for anyone who:
• Wishes to expand their network in the blockchain community
• Wants to gain exposure and recognition in the blockchain space
• Is passionate about Algorand, permissionless blockchain networks, and financial autonomy
• Is motivated and willing to help build and support the borderless economy for the common good

Benefits of Participating
• Network with top leaders in the blockchain space, not only in your area but across the globe.
• Join a discourse channel of several hundred technologists and creatives building the Algorand ecosystem.
• Gain a broader understanding of blockchain: its current situation, its shortfalls and its potential to transform the economy.
• Gain recognition and exposure in the blockchain space – all your content and events will have our name and backing.
• Get invited to all of our events. Have a central role in the evolution of blockchain towards the borderless economy.

CAREERS
Why Join Algorand?
• Disruptive Technology
• Visionary Leadership
• Collegial and Collaborative Culture
• Transformative Industry
• Global Impact

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