Staking, governance, & supply

Proof-of-stake on Celestia

Celestia is a proof-of-stake blockchain based on CometBFT and the Cosmos SDK. Celestia supports in-protocol delegation and will start with an initial validator set of 100.

Staking TIA as a validator or delegator enables you to earn staking rewards from the network. Validators charge a fee to delegators which gives them a percentage of staking rewards.

Learn how proof of stake works on Cosmos SDK chains like Celestia.

Consensus mechanism Proof-of-stake Blockchain framework Cosmos SDK Validator set size 100 Delegation support Yes Learn how to stake on your own at the community dashboards.

Inflation

TIA inflation starts at 8% annually and decreases by 10% every year until it reaches the long term issuance rate of 1.5%. Exact annual inflation rates can be found in the diagram below.

The annual provisions for inflation are calculated based on the total supply of TIA at the beginning of each year. To calculate how many TIA to issue per block, Celestia uses the block timestamp rather than the block height since the time between blocks can vary and cause actual issuance to be higher than the target.

For an in-depth understanding, refer to ADR019 .

Decentralised governance

Network parameters

TIA holders (not just stakers) can propose and vote on governance proposals to change a subset of network parameters. To learn more, see a complete list of both the changeable and non-changeable parameters and their values. Additionally, learn how to submit and vote on governance proposals .

Community pool

Starting at genesis, Celestia's community pool receives 2% of all Celestia block rewards. TIA stakers may vote to fund ecosystem initiatives as in many other Cosmos SDK chains.

Learn how to submit a governance proposal to spend community pool funds.

TIA allocation at genesis

Celestia will have a total supply of 1,000,000,000 TIA at genesis, split across five categories described in the chart and table below.

Category Description % Public Allocation Genesis Drop and Incentivized Testnet: 7.4% Future initiatives: 12.6% 20% R&D & Ecosystem Tokens allocated to the Celestia Foundation and core devs for research, development, and ecosystem initiatives including: - Protocol maintenance and development - Programs for rollup developers, infrastructure, and node operators 26.8% Early Backers: Series A&B Early supporters of Celestia 19.7% Early Backers: Seed Early supporters of Celestia 15.9% Initial Core Contributors Members of Celestia Labs, the first core contributor to Celestia 17.6%

Unlocks

Celestia's 1 billion TIA supply at genesis will be subject to several different unlock schedules. All tokens, locked or unlocked, may be staked, but staking rewards are unlocked upon receipt and will add to the circulating supply.

Circulating supply is defined as the amount of TIA tokens in general circulation without onchain transfer restrictions.

Available supply is defined as the amount of TIA tokens that are either part of the circulating supply or are unlocked but subject to some form of governance to determine when the tokens are allocated. This includes the unlocked portion of the R&D & Ecosystem tokens and the tokens set aside for future initiatives.

The definitions for circulating and available supply were adapted from Optimism's definitions .

Unlock schedule by category is described in the table below.

Category Unlock Schedule Public Allocation Fully unlocked at launch. R&D & Ecosystem 25% unlocked at launch. Remaining 75% unlocks continuously from year 1 to year 4. Initial Core Contributors 33% unlocked at year 1. Remaining 67% unlocks continuously from year 1 to year 3. Early Backers: Seed 33% unlocked at year 1. Remaining 67% unlocks continuously from year 1 to year 2. Early Backers: Series A&B 33% unlocked at year 1. Remaining 67% unlocks continuously from year 1 to year 2. [][[Edit this page on GitHub] Last updated: Previous page Paying for blobspace Next page How to stake TIA []