

# CELESTIA

TIA

A RESEARCH BY ROSA CAPITAL



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Our content today is  
divided into seven parts.  
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with examples.

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# INTRODUCTION



# Introduction

Celestia adalah jaringan ketersediaan data modular yang berskala aman sesuai jumlah pengguna, sehingga memudahkan siapa saja untuk meluncurkan blockchain mereka sendiri.



# TEAM



# Team



## **Mustafa Al-Bassam**

CEO, Celestia Labs

.....  
PhD in blockchain scaling at UCL,  
Co-founder of Chainspace  
(acquired by Facebook)



## **Ismail Khoffi**

CTO, Celestia Labs

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Former senior engineer at  
Tendermint and Interchain  
Foundation



## **John Adler**

CRO, Celestia Labs

.....  
Creator of Optimistic Rollups,  
previously scalability researcher at  
ConsenSys



## **Nick White**

COO, Celestia Labs

.....  
Co-founder of Harmony, BS & MS  
from Stanford

For a complete list of the team, please check:

<https://celestia.org/team/>

# HOW IT WORKS



Celestia adalah blockchain minimal yang hanya memesan dan menerbitkan transaksi dan tidak mengeksekusinya. Dengan memisahkan lapisan konsensus dan eksekusi aplikasi, Celestia memodulasi tumpukan teknologi blockchain dan membuka kemungkinan baru untuk pembuat aplikasi terdesentralisasi

## Traditional monolithic architecture

- Developers can only use programming languages supported by chain's execution environment
- All applications run on the same process (the world computer model), with shared gas resources
- Smart contracts cannot be updated without a hard fork

## Celestia-enabled modular architecture

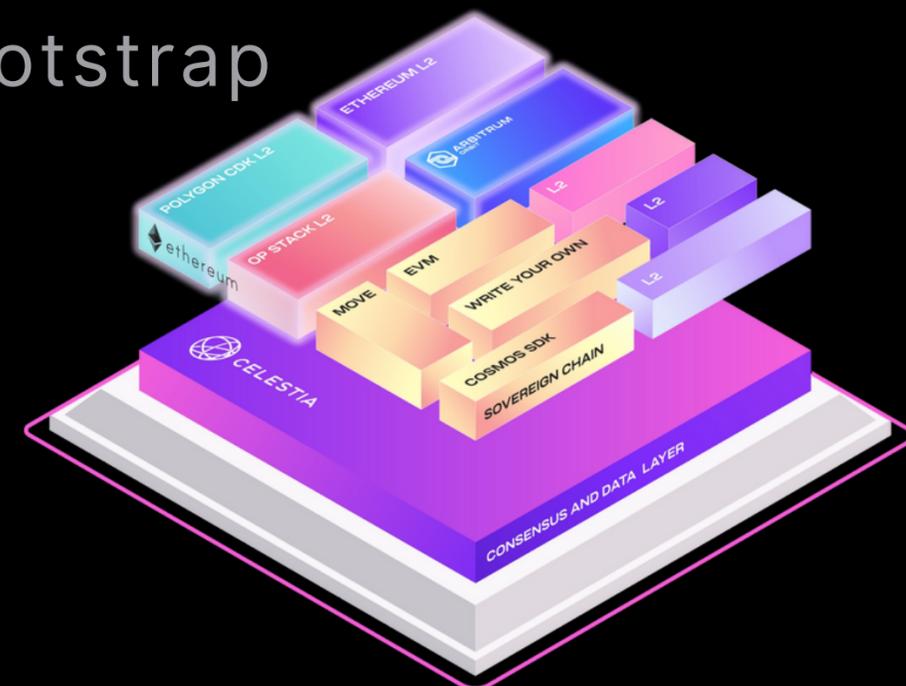
- Developers can effortlessly define their own virtual execution environments; similar to virtual machines
- Each application gets its own sovereign execution space, while inheriting the security of Celestia's consensus
- Applications can be updated without main chain hard forks

# ADVANTAGES



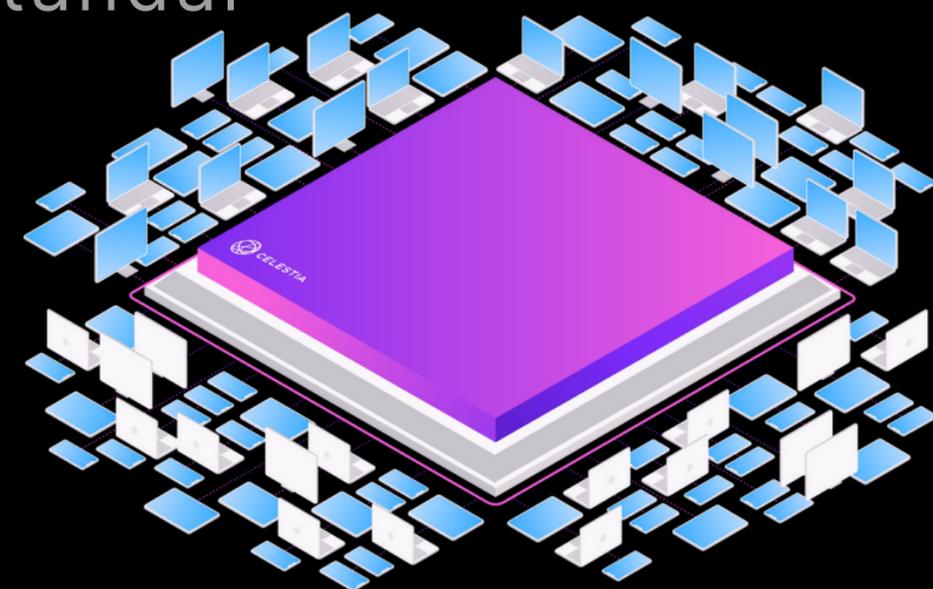
# blockchain semudah kontrak pintar

Celestia memberikan konsensus dan keamanan sesuai permintaan. memungkinkan siapa pun untuk menerapkan blockchain tanpa biaya tambahan untuk melakukan bootstrap pada jaringan konsensus baru.



# Interoperabilitas yang aman untuk semua rantai Celestia

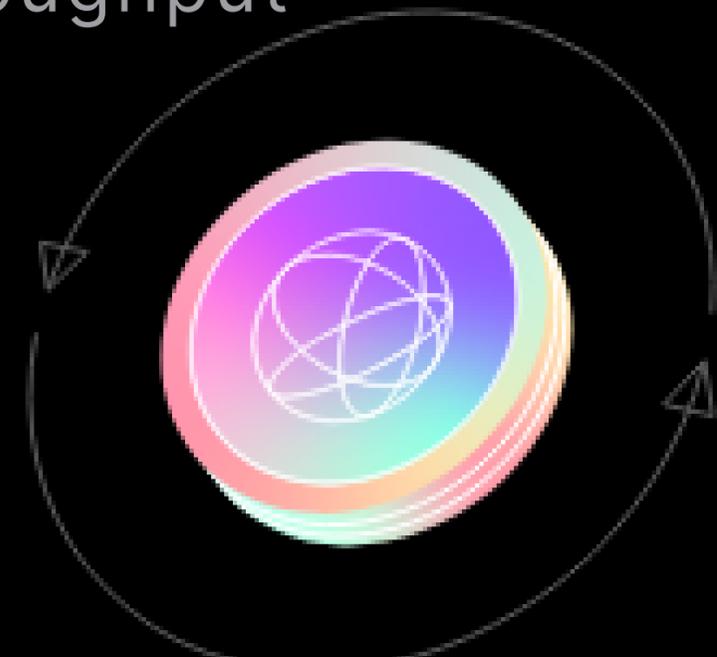
Blockchain yang dibangun di atas Celestia tidak bergantung pada asumsi mayoritas yang jujur untuk validitas negara, yang berarti bahwa mereka dapat berinteroperasi dengan standar keamanan tertinggi.



# Penskalaan menjadi sederhana dengan pengambilan sampel ketersediaan data

Karena Celestia tidak memvalidasi transaksi, throughputnya tidak terhambat oleh eksekusi negara seperti blockchain tradisional.

Berkat properti pengambilan sampel ketersediaan data, throughput Celestia meningkat seiring dengan jumlah pengguna



# Pilih lingkungan eksekusi Anda sendiri

Karena Celestia tidak menerapkan logika eksekusi apa pun, pengembang bebas menentukan lingkungannya sendiri. Celestia akan mendukung semua jenis rollup, tetapi kami awalnya fokus pada EVM dan Cosmos SDK



# INVESTORS



## INVESTORS



DIVERGENCE



INVESTORS

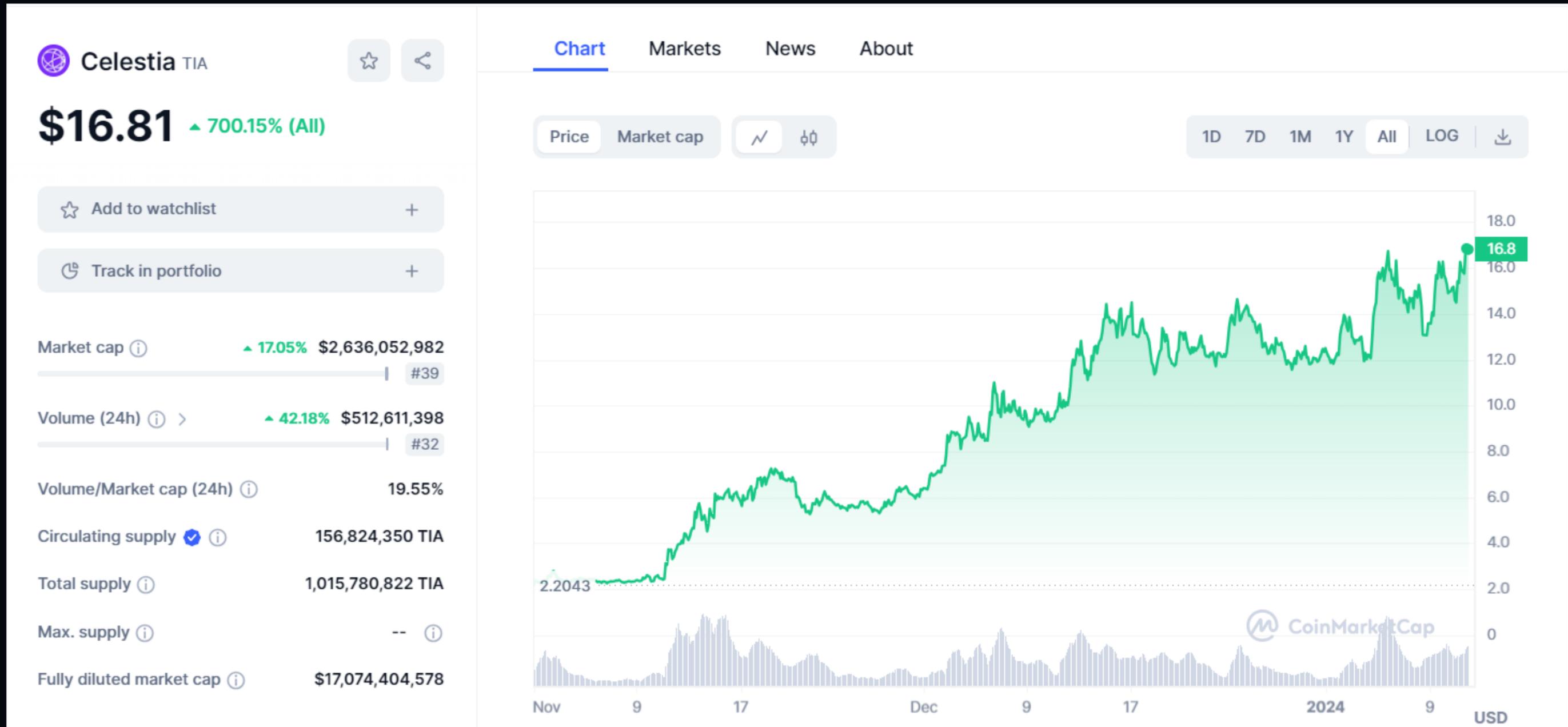


# TOKENOMICS



# TIA

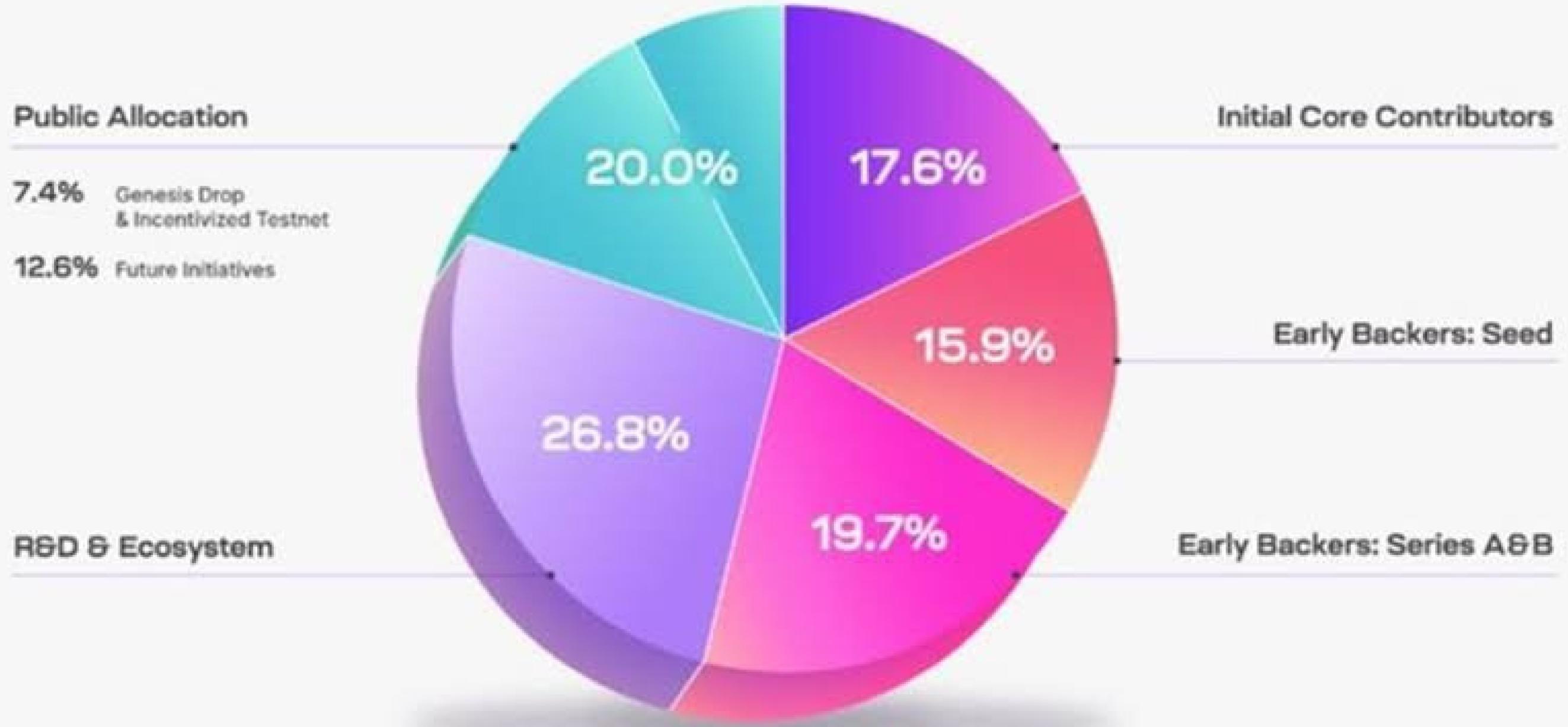
Tokenomics



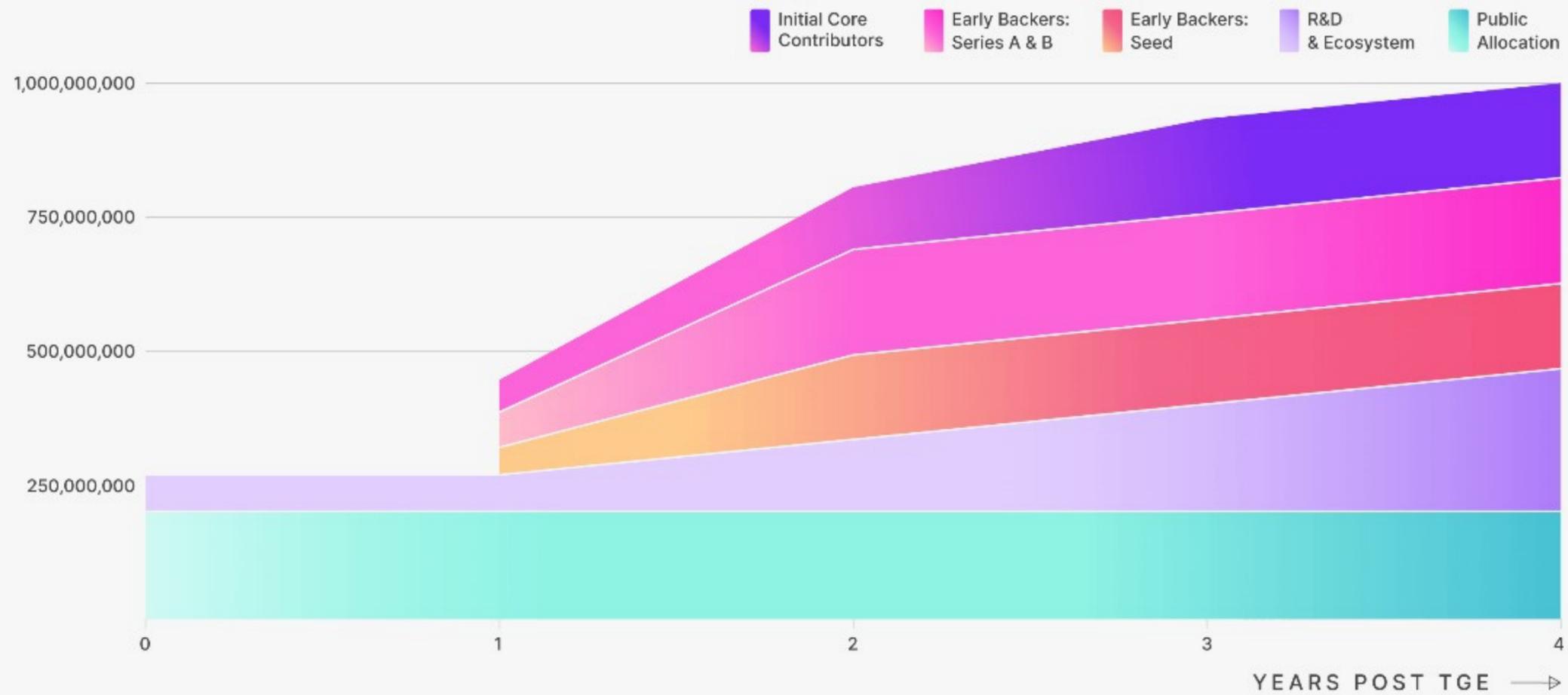
Source: CoinMarketCap

# TIA

Tokenomics



## TIA Available Supply



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.

# 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.

# Whitepaper

For further indepth information about Celestia please check their  
whitepaper at the link below.

<https://arxiv.org/pdf/1905.09274.pdf>

# SUMMARY

Celestia (TIA) is the first modular blockchain network that enables anyone to easily deploy their own blockchain with minimal overhead. Celestia scales by rethinking blockchain architecture from the ground up. It is a minimal blockchain that decouples execution from consensus by introducing a new primitive, data availability sampling. Since Celestia does not impose any execution or settlement constraints, developers are free to define their own execution and settlement environments. This unlocks new, unrealized possibilities for builders and developers.

Celestia is a departure from the status quo of monolithic blockchains. Monolithic blockchains face scaling difficulties because they perform all core functions of a blockchain such as processing transactions, ensuring that transactions are correct, and getting network nodes to agree on both the validity and ordering of transactions. Modular blockchains introduced the notion of decoupling consensus from the execution of transactions, thus achieving greater scalability without loss of security or decentralisation.

A modular approach to blockchains opens up a world of new possibilities. Experimentation becomes much easier as new application specific or general purpose blockchains can deploy to Celestia and immediately inherit security from Celestia's validator set. Modular blockchains enable control over the rules of an application through sovereignty because developers can make alterations to the tech stack without permission from outside applications.



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# THANK YOU

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