





Investment Thesis

Celestia TIA

Token type	Native Token
GCCS Classification	App-specific Blockchain, Infrastructure, Native Currency
Price	\$18.78
Category	Data Availability

Key Figures

13-Week Range	~\$2 - ~\$20
Market Rank	#33
Market Capitalization	\$2.84 billion
Volume (24h)	\$117,301,192
Circulating Supply	162,522,979
Max. Supply	No Hard Cap
ATH	\$20.16
ATH Date	January 15, 2024
Staking Yield (Annualized)	14.71%
# of Networks Integrating Celest	ia +50

Source: CoinGecko, Celestia Data as of February 7, 2024

Overview

Celestia is a **Data Availability (DA)** protocol, a new approach for scaling blockchains. For context, most blockchains are monolithic by nature, meaning that a single network handles all four core functions: **execution**, **settlement**, **consensus**, **and data availability**. However, this setup inevitably faces the blockchain trilemma, wherein achieving **scalability**, **decentralization**, **and security** often requires prioritizing two at the expense of the third. Enter modular networks, a subset of blockchains that disentangle these core functions into distinct layers. To simplify, consider the analogy of a single road versus a well-planned highway system. **Monolithic** networks are akin to single roads, where increased traffic worsens congestion. Conversely, **modular** networks resemble a well-designed highway system with lanes serving specific purposes such as heavy cargo transport, long-distance travel, or commuting. This modularity enables efficient traffic management, preventing congestion as different types of traffic are accommodated seamlessly.

Celestia focuses on Data Availability. Put simply it ensures that blockchain data is reliably stored and accessible to all parties that want to verify the integrity of a given network. Celestia's business model consists of charging a fee to scaling solutions for posting data on its platform, and its pivotal innovation lies in what's called as Data Availability Sampling (DAS). A technology that empowers light nodes to verify data integrity without downloading the entire blockchain history. Instead, block data is segmented into smaller portions, and these fragments are sampled in succession, gradually increasing confidence in the data's availability. This advancement allows for accommodating larger block sizes without inflating verification costs, which is crucial for promoting decentralization due to the minimal resource requirements. As a result, Ethereum scaling solutions can save up to 99% by submitting data to Celestia rather than storing it directly on the Ethereum blockchain, reserving Ethereum solely for settlement purposes.

- Celestia was founded in 2019 under the name LazyLedger, led by co-founder Mustafa Al-Bassam, former Tendermint engineer Ismail Khoffi, John Adler, and Nick White
- In June 2021, Lazy Ledger was rebranded to Celestia, coinciding with an MVP network that featured Data Availability Sampling Light Clients.
- In December 2021, Celestia's testnet went live.
- In October 2023, the network was deployed on mainnet accompanied by an airdrop after three years of development.

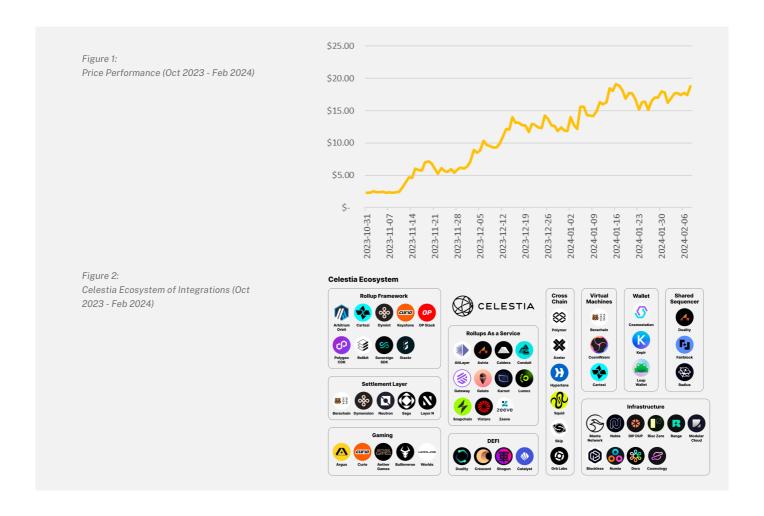
Key takeaways

- Celestia is a data availability protocol that helps scale smart contract platforms like Ethereum and scaling solutions like Arbitrum and Optimism.
- Its purpose is to separate the key four functions of a monolithic blockchain, thus allowing networks to become scalable without sacrificing their security or decentralization.
- A simple analogy for Celestia would be to compare single-lane roads and highways. Monolithic blockchains are like a single congested road, while modular blockchain functions akin to a well-organized highway system, efficiently accommodating diverse and higher traffic needs.
- TIA, the native token of Celestia, serves as a gas currency for developers to
 facilitate data availability (BlobSpace) transactions, acts as a governance token,
 and can be staked to validate Celestia's security.

Risk factors

- Technology risk: Modularity is a novel approach for scaling that hasn't been battle-tested yet, so its durability remains to be seen under real-world conditions.
- Market Risk: Celestia's pioneering modular scaling approach stirred considerable market excitement, bolstered further by allowing users to earn airdrops via TIA staking from networks that integrated its DA solution. However, this early hype potentially inflated the network's valuation, leaving its token vulnerable to significant medium-term downturns
- Competition Risk: Celestia faces competition from emerging protocols like EigenDA, NearDA, Topia, and Avail. The rapid adoption of data-sharding approaches by Ethereum could also reduce Celestia's necessity over the medium term (2-3 years in the best case scenario).
- Regulatory Risk: the legal status of scaling solution tokens isn't clear yet.





Disclaimer

This document is not an offer to sell or a solicitation of an offer to buy or subscribe for securities of 21Shares AG. Neither this document nor anything contained herein shall form the basis of, or be relied upon in connection with, any offer or commitment whatsoever in any jurisdiction. This document and the information contained herein are not for distribution in or into (directly or indirectly) the United States, Canada, Australia or Japan or any other jurisdiction in which the distribution or release would be unlawful. This document does not constitute an offer of securities for sale in or into the United States, Canada, Australia or Japan. The securities of 21Shares AG to which these materials relate have not been and will not be registered under the United States Securities Act of 1933, as amended (the "Securities Act"), and may not be offered or sold in the United States absent registration or an applicable exemption from, or in a transaction not subject to, the registration requirements of the Securities Act. There will not be a public offering of securities in the United States. This document is only being distributed to and is only directed at: (i) to investment professionals falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (the "Order"); or (ii) high net worth entities, and other persons to whom it may lawfully be communicated, falling within Article 49(2)(a) to (d) of the Order (all such persons together being referred to as "relevant persons"); or (iv) persons who fall within Article 43(2) of the Order, including existing members and creditors of the Company or (v) any other persons to whom this document can be lawfully distributed in circumstances where section 21(1) of the FSMA does not apply. The securities are only available to, and any invitation, offer or agreement to subscribe, purchase or otherwise acquire such securities will be engaged in only with, relevant persons. Any person who is not a relevant person should not act or rely on this document or any of its contents. In any EEA Member State (other than the Austria, Belgium, Croatia, Denmark, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Liechtenstein, Luxembourg. Malta. The Netherlands, Norway, Poland, Romania, Slovakia, Spain and Sweden) that has implemented the Prospectus Regulation (EU) 2017/1129, together with any applicable implementing measures in any Member State, the "Prospectus Regulation") this communication is only addressed to and is only directed at qualified investors in that Member State within the meaning of the Prospectus Regulation. Exclusively for potential investors in Austria, Belgium, Croatia, Denmark, Finland, France, Germany, Great Britain, Hungary, Ireland, Italy, Liechtenstein, Luxembourg, Malta, The Netherlands, Norway, Poland, Romania, Slovakia, Spain and Sweden the 2021 Base Prospectus (EU) is made available on the Issuer's website under www.21Shares.com. The approval of the 2021 Base Prospectus (EU) should not be understood as an endorsement by the SFSA of the securities offered or admitted to trading on a regulated market. Eligible potential investors should read the 2021 Base Prospectus (EU) and the relevant Final Terms before making an investment decision in order to understand the potential risks associated with the decision to invest in the securities. You are about to purchase a product that is not simple and may be difficult to understand. This document constitutes advertisement within the meaning of the Swiss Financial Services Act (the "FinSA") and not a prospectus. In accordance with article 109 of the Swiss Financial Services Ordinance, the Base Prospectus dated 12 November 2021, as supplemented from time to time and the final terms for any product issued have been prepared in compliance with articles 652a and 1156 of the Swiss Code of Obligations, as such articles were in effect immediately prior to the entry into effect of the FinSA, and the Listing Rules of the SIX Swiss Exchange in their version in force as of January 1, 2020. Consequently, the Prospectus has not been and will not be reviewed or approved by a Swiss review body pursuant to article 51 of the FinSA, and does not comply with the disclosure requirements applicable to a prospectus approved by such a review body under the FinSA