

AstroNet (ASTN) — Whitepaper

1. Introduction

AstroNet is a decentralized protocol providing universal access to real-time and historical data from space missions, satellites, and research programs. By leveraging blockchain technology, AstroNet ensures transparent, immutable, and permissionless access to space data for developers, scientists, and the public.

2. Problem Statement

Space agencies and research institutions generate vast amounts of valuable data, but much of it is inaccessible due to siloed storage, legacy systems, licensing restrictions, or a lack of global indexing. This leads to wasted scientific potential and limits innovation.

3. Our Vision

AstroNet aims to unlock space data through a decentralized, token-governed infrastructure, turning public mission datasets into a universally accessible digital commons.

4. Solution Overview

AstroNet introduces a blockchain-powered platform that:

- Indexes and mirrors mission data in real-time.
- Makes datasets searchable, stakable, and forkable.
- Rewards contributors for maintaining data feeds and node infrastructure.

5. Token Overview (ASTN)

ASTN is the native utility and governance token that powers the AstroNet ecosystem.

Use Cases:

- **Access Control:** Stake ASTN to unlock large datasets.
- **Governance:** Vote on protocol upgrades, indexing priorities, and access rules.
- **Rewards:** Earn ASTN by operating validators, curating datasets, or contributing research.

Tokenomics:

Allocation	Percent	Description
Ecosystem & Staking	40%	Incentives for validators & users
Core Team	20%	Founders and developers
Strategic Partners	15%	Collaborations and integrations
Public Sale	10%	Initial token distribution
Treasury	10%	Protocol reserves and bounties
Advisors	5%	Scientific and technical advisors

6. Architecture

AstroNet consists of three layers:

1. **Data Mirror Layer:** Decentralized storage of verified space mission data via IPFS and partners.
2. **Indexing Protocol:** Smart contracts index datasets using content-addressing.
3. **Explorer & API:** Web interface and open GraphQL API for querying datasets.

7. Governance

AstroNet will transition into a full DAO (Decentralized Autonomous Organization) by 2026. Until then, governance proposals will be managed by a multisig treasury overseen by early validators and core contributors.

8. Roadmap

Quarter		Milestone Description
Q1	2025	Genesis Launch — Token deployment, NASA data integration, validator alpha
Q1	2025	Staking & Community — Open staking pools, governance MVP
Q2	2025	Research Integration — SDK, research portal, academic partners
Q2	2025	Public Launch — Website, whitepaper, global promotion, token listing
2026		Full DAO transition and global indexing framework

9. Legal Disclaimer

AstroNet (ASTN) is not an investment vehicle. Nothing in this whitepaper constitutes financial advice. Participation is at your own risk. The team makes no guarantees regarding price, success, or utility.

10. Inspired By

AstroNet is inspired by the transparency and open data policies of:

- NASA (National Aeronautics and Space Administration)
- ESA (European Space Agency)
- NOAA (National Oceanic and Atmospheric Administration)
- National Geographic Open Data

11. Contact & Links

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