Part 1 – Foundation

The Autonolas Protocol is a collection of smart contracts that implements a mechanism to coordinate, secure, and manage software code on a public blockchain, and provides incentives to developers proportionally to their relative contribution to the growth of the Autonolas ecosystem. The protocol is built with the Open Autonomy framework in mind as the primary framework for realising autonomous services, alternative frameworks can also be used.

The Autonolas Protocol is currently deployed on several blockchains, and the DAO may decide to deploy on more blockchains in the future.

Services/Features (in short)

Features:
+Autonomous services that run continuously and take actions independently.
+Capability to interact with external systems outside of blockchains.
+Supports running complex logic and modular applications.
+Crypto-native, decentralized, trust-minimized, transparent, and robust.
+ Off-chain services secured by blockchain.
Services:
 +Provides an open-source software stack for building autonomous services.
+ On-chain protocol to secure and incentivize the creation of services, deployed across major smart-contract blockchains.
+Tokenomics to attract capital and developers, creating a growth loop for autonomous applications.
+Composability for integrating multiple agents and components, leading to exponential application possibilities.

Why Autonolas?
Autonolas combines cutting-edge technologies with practical solutions to current challenges in decentralised systems:

+Advanced Tech Stack: It uses Byzantine fault-tolerant engines like Tendermint for high security and reliability, making autonomous systems more resilient.

+ Multi-Agent Systems (MAS): Autonolas leverages decades of MAS research, enabling decentralised, scalable, and robust systems where agents interact directly without intermediaries.

+ Composability: Its flexible stack allows developers to build complex, customizable applications by combining different components easily.

+Solves DAO and Multi-Chain Issues: Autonolas improves DAO scalability and simplifies multi-chain integration, addressing technical challenges faced by decentralised projects.

+Open-Source and Incentivized: It encourages community participation, innovation, and growth by being open-source and offering incentives for developers and capital to fuel its ecosystem.

Features (in depth)

+Autonomous Services that Run Continuously:
   - These services work on their own without needing you to constantly check or manage them. Once they're up and running, they keep doing their job without needing a human to step in, allowing you to focus on other things.

+Self-Executing and Action-Taking Services:
   - The services don't just wait around for instructions; they can make decisions and act on their own. They follow their own rules to get things done, freeing you from having to manually intervene.

+interaction with the World Beyond Blockchains:
   - Autonolas services can connect with and gather information from systems and services outside of blockchains. This means they can make smarter decisions by accessing real-world data and not just what's on the blockchain.

+Supports Complex Logic:
   - These services can handle complicated tasks. They aren't limited to simple, straightforward processes. They can think through more complex problems and take multiple steps to solve them.

+ Modular Architecture:
   - Autonolas services are built in pieces or modules, which means you can easily add, remove, or replace parts of the system. This makes the services flexible and easier to customise based on your needs.

+Crypto-Native and Decentralised:
   - These services operate in a way that doesn't require middlemen or centralised control. They are designed to be open and transparent, so you can trust them without needing to rely on any one organisation to manage or control everything.

+Off-Chain Services Secured by Blockchain:
   - The heavy lifting is done off the blockchain to keep things efficient, but the important parts are still tied to the blockchain for security. This makes the services faster and less expensive while still being trustworthy and transparent.

Part 2 - Team

Nothing found on the team or the investors or partnerships on cryptorank, chainbroker and many tools used. Will update this once I find more.

Part 3 - On-chain stats (token)

Last updated 01/10/2024
https://etherscan.io/token/0x0001a500a6b18995b03f44bb040a5ffc28e45cb0

Part 4 - Tokenomics

Basic token stats:

Max Supply:INFINITE.
Market Cap: $57,175,554
MC/FDV: 0.09
Circulating Supply:45,955,551
Total Supply: 539,113,050
Categories: AI, AI AGENTS.

Tokenomics goals and information
The utility of OLAS provides access to the core functions of the network.
Code, bond, operate and lock OLAS to contribute to shaping the network.

For token inflation model Initial Cap and Inflation Rate: The total number of OLAS tokens is capped at 1 billion for the first 10 years. After this period, the annual inflation rate is limited to a maximum of 2%.

Supply distribution

Token Supply

TOTAL SUPPLY
539 132 578
Verify ↗

CIRCULATING SUPPLY
45 975 078
Verify ↗

TOTAL SUPPLY DISTRIBUTION

● veOLAS (vote escrow) 0×7e01		240 025 183
● DAO Treasury 0×3C1f		100 000 000
● buOLAS 0xb09C		81 269 195
● Valory (core contributor) 0×87cc		71 863 120
● Circulating supply		45 975 078

Incentives

+Incentives for Developers:

  - Developers can stake agents or components by minting them as NFTs on-chain.

  - Service owners use these staked agents/components to build services and mint them within the Autonolas Protocol.

  - Services can receive ETH donations, and a portion of these donations is distributed to staked agents/components based on their contribution.

  - Developers can earn additional ETH rewards if they are whitelisted by locking a certain amount of OLAS tokens (veOLAS), with OLAS inflation adding to their rewards.

+Incentives for Bonders:

- Users can deposit LP-pair assets into the Autonolas smart contract and receive OLAS tokens at a discounted rate after a vesting period.

- The interest rate and discount factor are adjusted based on the potential code production in the ecosystem, encouraging bonding when the ecosystem is growing.

Token Allocation

Current Usage

What are newly minted tokens used for right now?

CURRENT EPOCH

16

Verify ↗

Tokens are distributed to builders, operators and bonders each epoch. Epochs run roughly once a month.

PER EPOCH DISTRIBUTION

4% of the new tokens are earmarked for **Builders**

46% of the new tokens are earmarked for **Bonders**

50% of the new tokens are earmarked for **Operators**

Verify ↗

DAO members can vote to update how newly minted tokens are distributed.

Part 5 - Pumpamentals/Qualitative

Socials
25.1K Followers on X
Little interactions on their tweets

218 followers on their youtube channel
Team is consistently posting videos but there's little to no engagement.

Discord:4920 total members, only 600 that are active.
Not that much activity on their discord server.

Narrative

Autonolas' core narrative centres on agents, which are autonomous entities that interact directly and work together without intermediaries. These agents enhance decentralisation, scalability, and resilience by operating independently within the system. By using insights from Multi-Agent Systems (MAS), Autonolas enables these agents to create powerful, adaptable, and trust-minimised autonomous applications.

Competitors

Autonolas vs Fetch.ai:

+Focus: Fetch.ai automates single-agent tasks like booking or business finding, aiming for efficiency in Web 3.0 automation. Autonolas, on the other hand, focuses on co-ownership of autonomous agent services, specifically helping DAOs manage complex off-chain operations.

+Scale: Fetch.ai is more about automating tasks with individual agents, while Autonolas is geared towards larger, multi-agent systems.

+Use Case: Fetch.ai's applications are narrower, while Autonolas supports broader, decentralized services.

Autonolas vs Bittensor (TAO):

+Purpose: Bittensor seeks to democratize AI by decentralizing control over AI models, especially through the TAO network on Polkadot. Autonolas focuses more on enabling AI-powered services for DAOs and is blockchain-agnostic.

+Network: Bittensor operates within Polkadot as a parachain, whereas Autonolas supports multi-chain environments and doesn't restrict itself to a specific blockchain.

+AI Models: Bittensor has a large network of AI models, whereas Autonolas integrates a variety of AI services but isn't solely focused on AI model scale.

Autonolas vs Morpheus Network:

+Launch: Morpheus is newer to the market, launching in early 2024, with a focus on decentralized rewards and contributors. Autonolas has a more mature ecosystem with more development activity.

+Tokenomics: Morpheus incentivizes contributors through its $MOR token for various roles like capital providers, coders, and compute providers, while Autonolas offers a more established staking and donation reward model for developers and agents.

+Development: Autonolas leads in terms of GitHub activity, indicating deeper development compared to Morpheus, which is still gaining traction.

Autonolas vs Olympus DAO:

+Bonding Mechanism: Olympus DAO's bonding mechanism has faced challenges in long-term sustainability, relying on a buy-back mechanism. Autonolas improves on this with a more innovative approach that ties capital bonding to the growth and usefulness of the code in its ecosystem. It uses on-chain metrics and production functions to dynamically adjust bonding based on potential code output, making the system more adaptable and robust.

+Reversibility: While Olympus allows for bond reversals (buy-back mechanisms), Autonolas' bonding is not directly reversible, ensuring more stability and alignment with long-term ecosystem growth.

+Token Price Stability: Autonolas' approach aims to stabilize the OLAS token price by aligning the interests of token holders with real ecosystem growth, whereas Olympus DAO has faced issues with sustaining token price stability over time.

Roadmap

+   **15 august 2023 TRIPLE LOCK:**This workstream implements Triple Lock, an upgrade to the protocol that improves bonding, dev rewards, and staking.
+   **13 October 2023 build-A-PoSe:** This workstream implements Build-A-PoSe, a structured programme operated by the DAO to consistently deliver new Olas-owned services.
+   **18 December 2023 enhancing protocol security:** This proposal reviews Autonolas's DAO progressive security improvements and suggests further improvements to better manage emergency governance situations.
+   **17 March 2024 Building the Engine for the Autonomous Agent Economy:**This proposal suggests implementing Olas Staking, a mechanism empowering diverse users, including individuals, groups, companies, and DAOs, to create autonomous agent economies.

Exchange Listing:
COINEX EXCHANGE.
BITGET EXCHANGE.
BINGX EXCHANGE.

Security and Audits
AUDIT LINK ON GITHUB: https://github.com/code-423n4/2023-12-autonolas

Part 6 - Pro vs Cons and Final Thoughts

Pros

+Decentralised and Autonomous: Autonolas uses multi-agent systems (MAS) for full decentralisation, eliminating intermediaries and increasing system resilience.

+High Scalability: The composable architecture allows for flexible and scalable applications that can grow without hitting performance bottlenecks.

+Secure and Trust-Minimised: Byzantine fault-tolerant consensus engines like Tendermint provide robust security, ensuring systems remain reliable even in the face of failures
.

+Solves DAO and Multi-Chain Challenges: Autonolas enhances DAO scalability and simplifies integration across multiple blockchains, addressing real-world limitations.

+Open-Source and Incentivized: Being open-source fosters innovation and community participation, while incentivizing developers and capital to build within the ecosystem.

Cons

+Complexity: The advanced technology stack and use of MAS may require a steep learning curve for developers unfamiliar with these concepts.

+Development Maturity: As a newer platform, Autonolas might need time to gain widespread adoption and build out its developer community.

Why now?

The timing is perfect for Autonolas because the landscape of decentralised systems and blockchain technology is rapidly evolving. With the rise of DAOs and the increasing complexity of multi-chain ecosystems, there's a pressing need for scalable, autonomous solutions that can handle this growth. Current systems struggle with scalability and integration, but Autonolas' composable, decentralised architecture solves these challenges. Additionally, advances in consensus engines like Tendermint and untapped insights from Multi-Agent Systems (MAS) research make it possible to build more robust and autonomous

applications than ever before. As the demand for decentralised, autonomous services grows, Autonolas is uniquely positioned to meet these needs.

As you can see below the autonolas ecosystem surged in september, services went up to 825 with 37 agents and 225 components now active.

As well as the total number of services agents and components overtime is increasing overtime.

Refer to https://dune.com/adrian0x/autonolas-ecosystem-activity
Overall the ecosystem activity is good.
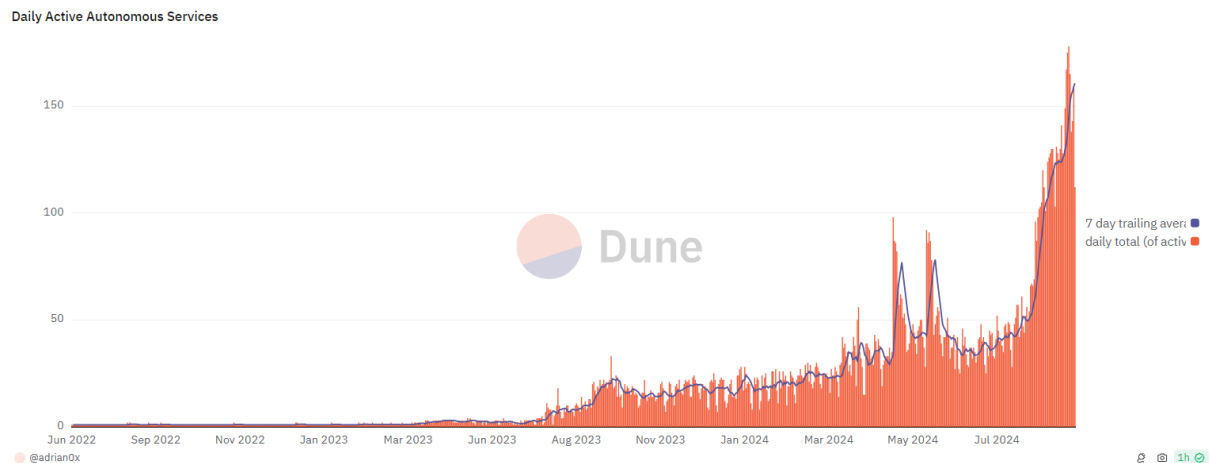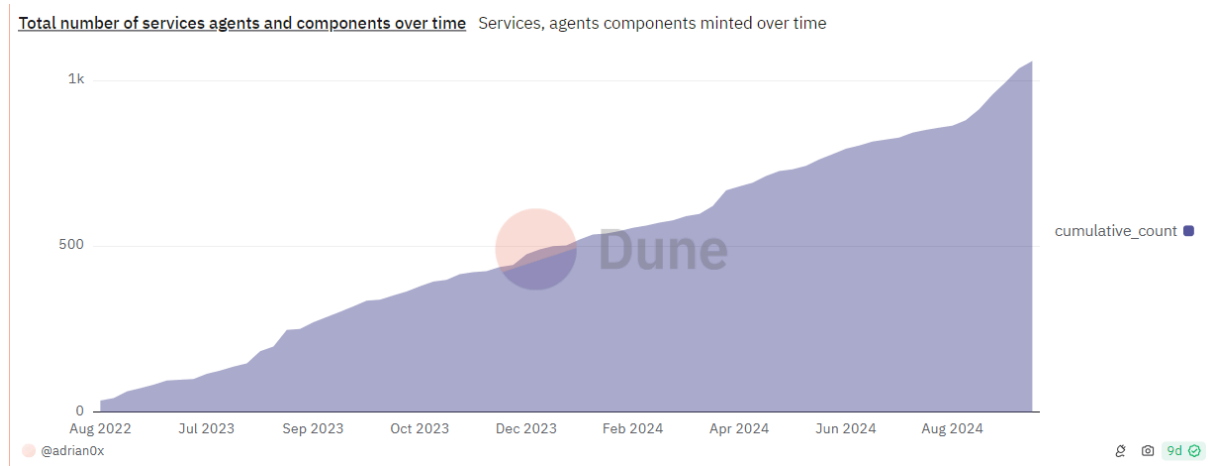
Final thoughts
The utility is good
Very inactive community through all socials.
Project growing which is good.

Links

X - https://x.com/autonolas
Website - https://olas.network/
Discord -https://discord.com/invite/BQzYqhjGjQ
youtube -https://www.youtube.com/@autonolas
Coingecko - https://www.coingecko.com/en/coins/autonolas
Coinmarketcap -https://coinmarketcap.com/currencies/autonolas/
Coindar - https://coindar.org/en/coin/autonolas
Dune - https://dune.com/adrian0x/autonolas-ecosystem-activity