AI robots
in the crypto world
ALita-AI

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1. Why robots and artificial intelligence are so powerful

Robotics and artificial intelligence are the engines behind the coming fourth industrial revolution

As with previous revolutions, the integration of new technologies can define Industry 4.0, key among them robotics and the Internet of Things. Together, these technologies are expected to create interconnected manufacturing systems that communicate, analyze and use data to create positive feedback loops, adapt to changing demand and increase productivity.

The pinnacle of effective robotics and network integration is the smart factory—a fully automated production facility that uses data from connected devices to learn and adapt. With this predictive flexibility, smart factories can reduce downtime by automatically scheduling repairs and maintenance when input levels are low or finished product levels are high.

This next generation of production comes at a time when trade wars, supply shocks and the pandemic have reminded the global economy of the fragility and interconnectedness of manufacturing networks. Globalization peaked around 2008, after which countries began to reconsider their dependence on international trade, resulting in a decline in the value of global exports relative to GDP. COVID-19 will only accelerate the deglobalization trend. In Thomas Industrial's 2020 survey of 746 manufacturing and industrial companies, 69% of respondents said they wanted to bring production back to the United States, and 55% said they might invest in automation.

Robotics is becoming more cost-effective

As manufacturers look to domestic production, the significant cost difference between human and robot labor is growing. Higher wages for humans make automated labor more attractive as companies look for ways to stay price competitive. In September 2021, the average annual wage in the U.S. manufacturing industry was nearly $50,400, up from $46,600 at the beginning of 2020. So, for example, even though the upfront cost of a complex industrial robot arm is estimated at $250,000, a company might break even in less than 20 years.

As robotics improves in functionality and affordability, these economics may become more attractive. In the past 30 years, the average price of robots has

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actually dropped by more than 50%, while labor costs have increased by more than 100%. 5 These cheaper robots are significantly more advanced than older versions. In addition to greater dexterity, advanced 3D vision capabilities and replaceable end-of-arm tooling create more dynamic robots that are capable of performing a variety of functions and can be improved through software updates.

Robotics can increase human productivity

Collaborative robots, also known as collaborative robots, work alongside humans on repetitive tasks that are a major cause of boredom and injuries. This combined approach takes advantage of both sources of labor as it reduces error rates while increasing productivity.

PRICE OF INDUSTRIAL ROBOTS VS TOTAL WORKER COMPENSATION IN THE US
Source: International Federation of Robotics, May 2021, Economic Policy Institute, February 2020.

— AVERAGE UNIT PRICE OF INDUSTRIAL ROBOTICS IN THE U.S.
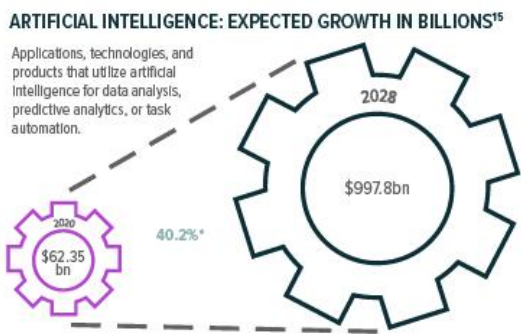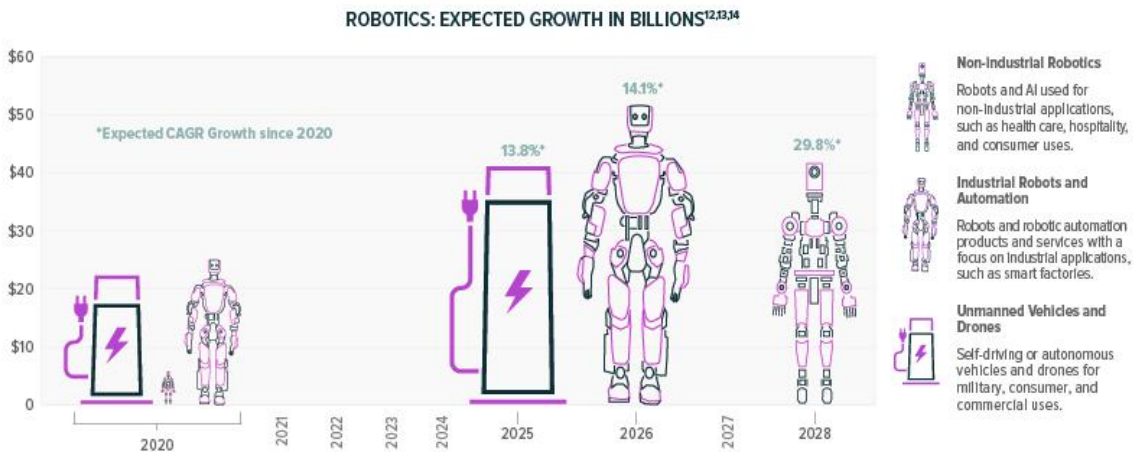— TOTAL WORKER COMPENSATION IN THE U.S.
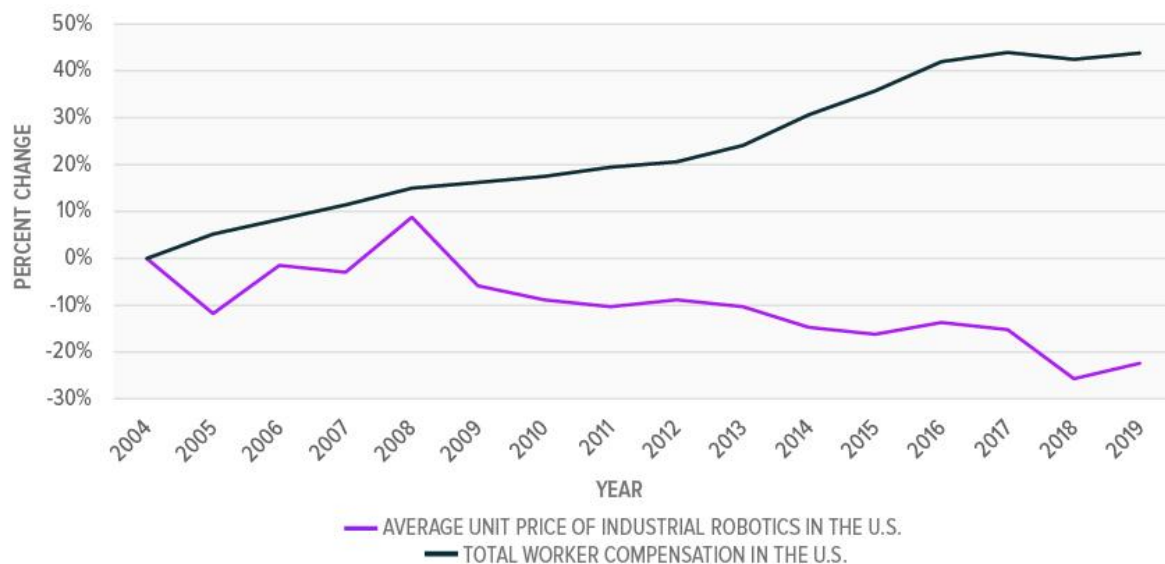
Given the world's rapidly aging workforce, increasing automation may be required in the future. The World Health Organization (WHO) predicts that between 2015 and 2030, the proportion of the global population over 60 years old will nearly double, from 12% to 22%. 7 Domestically, as of the 2020 census, the proportion of the population in the age group over 65 years old is higher, reaching 16.3%, and is expected to grow to more than 20% by 2030, exceeding the age group under 18 years old.

This trend is generally positive as it shows that people are living longer and healthier lives due to advances in healthcare. However, as we age, metabolic and cellular decline can impair physical and mental abilities, and the workplace can expose this. Lower individual worker productivity translates into lower national GDP growth. For every 10% increase in the proportion of the

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population over 60 years old, per capita GDP growth rate will decrease by 5.5%. The adoption of robotics can help offset these declines. A 1-unit increase in robot density (i.e., the number of robots per 10,000 manufacturing workers) increases labor productivity by 0.04%, potentially freeing up labor for use elsewhere in the economy.

Visualize market opportunities

ROBOTICS: EXPECTED GROWTH IN BILLIONS[12,13,14]

*Expected CAGR Growth since 2020

13.8%*   14.1%*   29.8%*

Non-Industrial Robotics
Robots and AI used for non-industrial applications, such as health care, hospitality, and consumer uses.

Industrial Robots and Automation
Robots and robotic automation products and services with a focus on industrial applications, such as smart factories.

Unmanned Vehicles and Drones
Self-driving or autonomous vehicles and drones for military, consumer, and commercial uses.

ARTIFICIAL INTELLIGENCE: EXPECTED GROWTH IN BILLIONS[15]

Applications, technologies, and products that utilize artificial intelligence for data analysis, predictive analytics, or task automation.

2028 $997.8bn

2020 $62.35 bn   40.2%*

The global market for Artificial Intelligence applications is expected to expand at an impressive 40.2% CAGR to reach almost a trillion dollars in total value by 2028.

The intersection of robotics and artificial intelligence

Internet of Things and Cloud Computing

Robots fit perfectly with the topics of Artificial Intelligence, Internet of Things, and Cloud Computing. The IoT topic represents perhaps the greatest integration opportunity, as IoT sensors are at the heart of Industry 4.0 and smart factory trends. As sensor costs continue to decrease, the accuracy and usability of data captured from robotic systems will likely increase. These developments should create a positive feedback loop that spurs robot purchases, as newer sensor packages improve the efficiency of new and old machines.

As the subject of cloud computing matures further, processing power

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becomes cheaper, allowing AI tools to make faster and more accurate judgments based on sensor data. We expect these insights to drive efficiency gains, while improvements in factory performance can fuel expansion through further robotics spending.

cyber security

The downside to all this connectivity is that manufacturers are often targets of digital intrusions. Due to the increasing cost of malicious activity and the continued integration of technology in production, we expect their response to this growing threat to improve significantly. To this end, increased spending on robotics will require increased spending on cybersecurity programs. Co-location with cybersecurity topics may help reduce cybersecurity risks in robotics manufacturing.
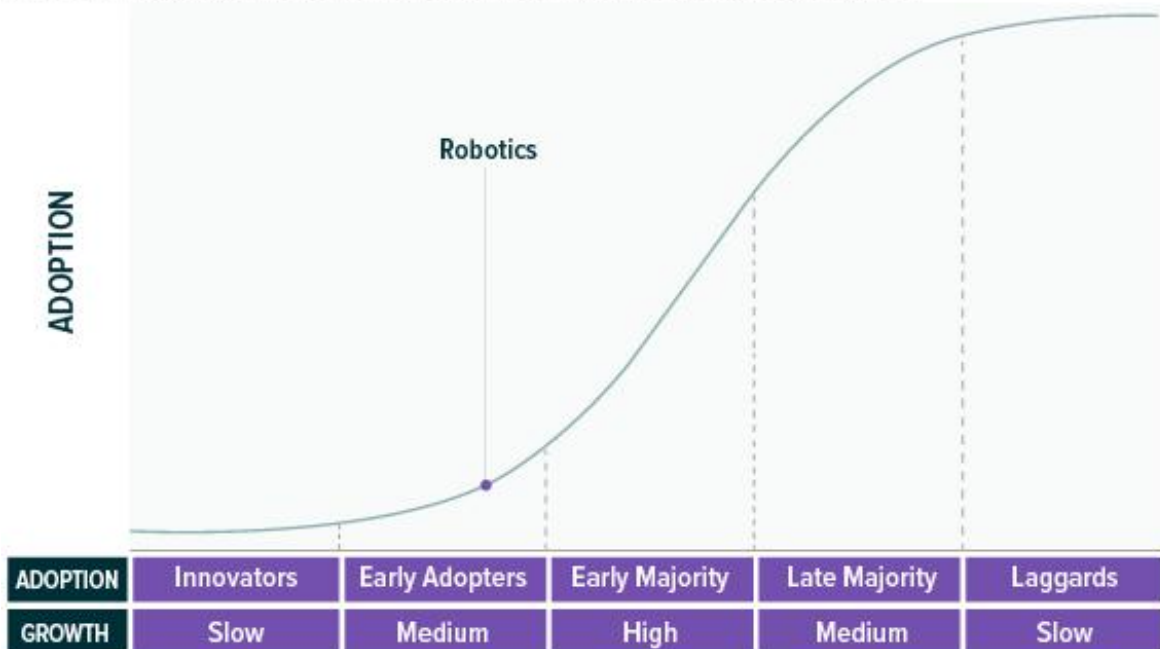
2. Robotics and artificial intelligence in the context of investment portfolios

The theme of robotics and artificial intelligence is quietly gaining popularity and integrating into the global economy. Today, bot penetration is in the early adopter stage, and while it's still moderate, it's accelerating rapidly as technological advancements allow bots and AI to have an increasing impact. We believe that adoption levels will expand rapidly in the coming years as companies and individuals leverage robotics and AI technologies in exciting new ways.

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THEMATIC ADOPTION

Source: EM Rogers, "Diffusion of Innovations", 1962, and Global X Research, 2021.

ADOPTION	Innovators	Early Adopters	Early Majority	Late Majority	Laggards
GROWTH	Slow	Medium	High	Medium	Slow

The symbiosis of AI and web3

According to Gemini's 2024 Cryptocurrency Trends Report, the integration of AI and web3 has the potential to improve privacy and data ownership, protect and identify human-generated content, and provide alternatives to large-scale cloud development.

The report identifies opportunities for symbiosis between the two technologies. "The weaknesses of centralized AI can be mitigated through decentralized encryption, allowing AI to evolve safely, provide powerful and beneficial capabilities, and serve humanity as a whole without being dominated by special interests," the report states.

Gemini analysts added that web3 innovations rooted in decentralization principles, especially zero-knowledge proofs, have the potential to enable privacy-enhancing machine learning. "Artificial intelligence can allow the cryptocurrency industry to transcend its niche status and realize its potential to become a practical, everyday tool for fair and democratic participation in technology, finance and beyond," the report added.

AI generated metaverse and web3 games

London Real Ventures CEO Brian Rose predicts that by 2024, AI-generated metaverse and web3 game content will increase significantly.

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He told Block that generative AI will play a key role in shaping this digital frontier, adding that his venture capital firm has invested in more than 20 Metaverse-based startups, more than half of which have strong artificial intelligence capabilities. Smart components.

"At London Real Ventures, we believe web3 gaming will bring the next billion users onto the blockchain. Since artificial intelligence will be responsible for building 99% of the metaverse, 2024 will not only bring a bull market, but also artificial intelligence The fusion of intelligence and artificial intelligence. web3 is going to be a game changer," Ross added.

3. Introduction

Alita -AI is a platform dedicated to building the Web3.0 world's first platform with seamless expansion of the entire chain ecosystem. The platform's first ecosystem is Alita Swap, which enables cross-chain liquidity transfers to become a seamless single transaction. Process, users and dApps can transfer native assets across chains while accessing the protocol's unified liquidity pool, ensuring finality instantly. Alita Swap's original Launchpad solution solves the problems of low liquidity, security and accessibility in the Defi field, and provides an unprecedented incubation environment for start-up encryption projects .

3.1 Feature

Permissionless, anti-censorship: Anyone can access and use it without permission in any environment without passing any KYC review.

Liquidity aggregation: Users can directly obtain the liquidity of multiple DEXs on the corresponding network at one time through decentralized wallets, and obtain the highest quality and effective transaction prices.

Cross-chain trading: Build a cross-chain trading pool based on mature/potential cross-chain solutions on the market, allowing users to trade freely between multi-chain assets.

Community Driven: Based on X The issuance of Token and the innovative design of the economic model will ultimately achieve decentralized governance and community-driven development.

4. Alita Swap

This project implements Alita Swap, a Layer-2 based on X -Rollup technology AMM decentralized trading protocol. It implements all the functions of U niswap on Layer-2, achieving real-time transactions while ensuring the core value of decentralized transactions. Uniswap TPS (the number of transactions that can be processed per second) has been improved by several orders of magnitude, and the transaction process consumes almost no gas fees.

4.1 Alita Swap system framework

The Alita Swap system consists of on-chain smart contracts, off-chain Alita Swap servers, zero-knowledge proof systems and front-end user interfaces.
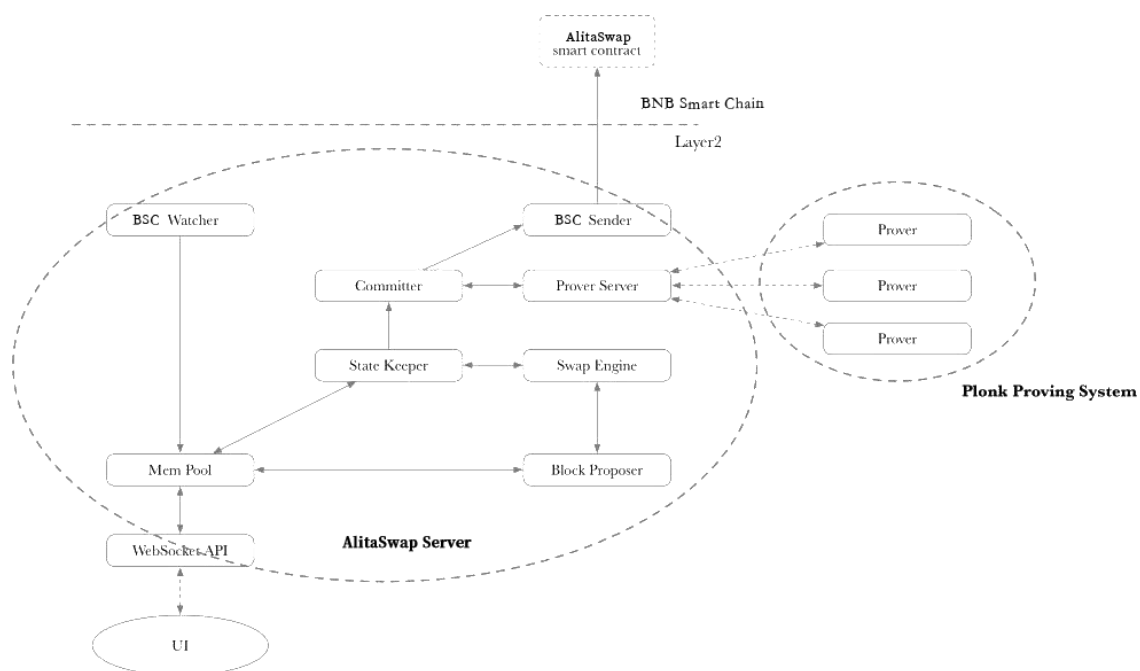

Fig.1.System architecture

Alita Swap SMART CONTRACT Alita Swap will deploy a series of smart contracts on the BSC blockchain to store user-deposited tokens. At the same time, Layer-2 status updates and related certificates need to be recorded and verified to connect the on-chain and off-chain.

Alita Swap LAYER-2 SERVER The Alita Swap server is the module that actually handles all off-chain transactions. Alita Swap server is available via the web The Socket interface interacts with users and can also monitor transactions on the Ethereum blockchain. All legitimate transaction requests will be placed in the Alita Swap memory pool, and SwapEngine is ultimately responsible for processing. The transaction types in the mempool are the same as all

Uniswap operation types in the previous section. Block proposers aggregate transactions and generate new blocks, and state keepers update the state of all tokens in layer 2. State The Keeper will send the status to the Commiter, and the Commiter is responsible for communicating with the Prove server, obtaining the proof of the corresponding transaction, and finally sending the status and the corresponding SNARK proof to the Alita Swap smart contract sender on the chain through Ethereum.

PLONK ZERO-KNOWLEDGE PROOF SYSTEM Alita Swap's zero-knowledge proof system adopts a distributed architecture and uses the latest zero-knowledge proof algorithm PLONK to generate proofs. Proveserver supports multiple Prover. Multiple Prover actively queries the Prove server for proof tasks, generates proofs and sends them back to the Prove server. PLONK's global trust settings only need to be generated once, and applications within a certain range of circuit scale can be reused, which greatly reduces the threshold for using zero-knowledge proofs.

4.2 Alita Swap status tree

Alita Swap system records the balance status of all accounts in the current system. Alita Swap's state tree is a Merkle tree with a height of 34. The child nodes of the root node Root are all account nodes in the system (layer 24). There are two types of account nodes:

- Ordinary account node , used to record the status of all Tokens in the account. Ordinary account nodes can have any number of leaf nodes (level 10). Each leaf node represents a type of Token and its quantity; Token types under the same account cannot be repeated;

- Pairing account node , used to record the status of a certain transaction matching fund pool in Alita Swap. The Pair account node only contains two leaf nodes, each leaf node represents the balance and type of a Token in the fund pool.

The transaction process in Alita Swap is actually the process of updating the status tree. The following introduces all transaction types and corresponding status changes in Alita Swap.

4.3 Deposit

Depositing refers to the process by which users deposit tokens on the Ethereum chain into the Alita Swap contract for use in Layer-2. Deposit operations are initiated by users from the chain. When Alita Swap When the Server monitors a transaction in which a user transfers tokens to the Alita Swap smart contract on the chain, it updates the status tree based on the

transaction details. First, find the corresponding Account according to the account to which the transaction belongs, and update the status of the corresponding Token under the Account according to the amount of Deposit. If there is no leaf node corresponding to Token under the Account, you need to create the leaf node corresponding to Token first, and then update the status. After the leaf node status update is completed, the hash value of the root node will be updated accordingly.

The updated hash value of the state tree root node will be sent to the Alita Swap contract on the chain together with the SNARK proof of the deposit transaction.
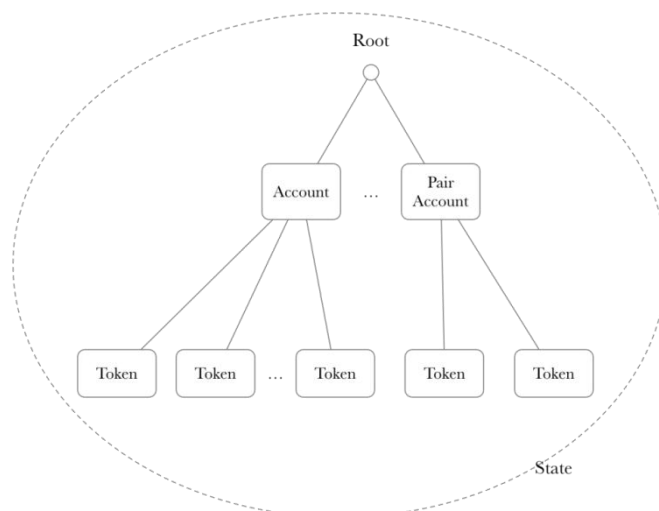

Fig.2.Statetree

4.4   Withdraw money

Withdrawal refers to the process in which the user withdraws the Token from Layer-2, unlocks it from the Alita Swap contract, and sends it to the corresponding Layer-1 account. Withdrawal operations are initiated by the user from layer 2. After receiving the user's request to extract a certain Token, the Alita Swap server will update the status of the corresponding Token under the corresponding account, use the Withdraw operation to hash the root node of the updated status tree, and send the application certificate to the Alita Swap contract chain. superior. After the contract verification passes, the corresponding Token locked in the contract will be sent to the corresponding chain account.

4.5   transfer

Transfer refers to the user's transfer in Alita Swap The process of sending a token to another user in Layer-2. Transmission is initiated by the user at Layer

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2. When Alita Swap When the Server receives a Transfer request, it will find the corresponding sending and receiving accounts based on the request details, and update the Token status under the sender's and receiver's accounts based on the amount sent. The hash value of the root node of the state tree will also be updated accordingly and sent to the contract on the Alita Swap chain together with the SNARK certificate corresponding to the Transfer operation. The transfer will not change the status of the corresponding Token on the chain, because the Token is still locked in the Alita Swap contract and has not been transferred on the chain.
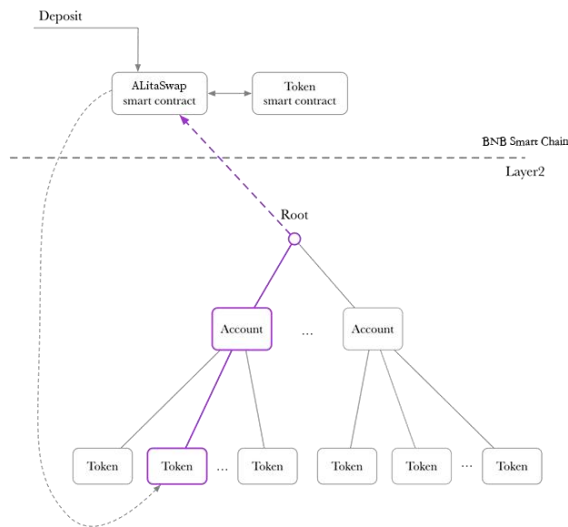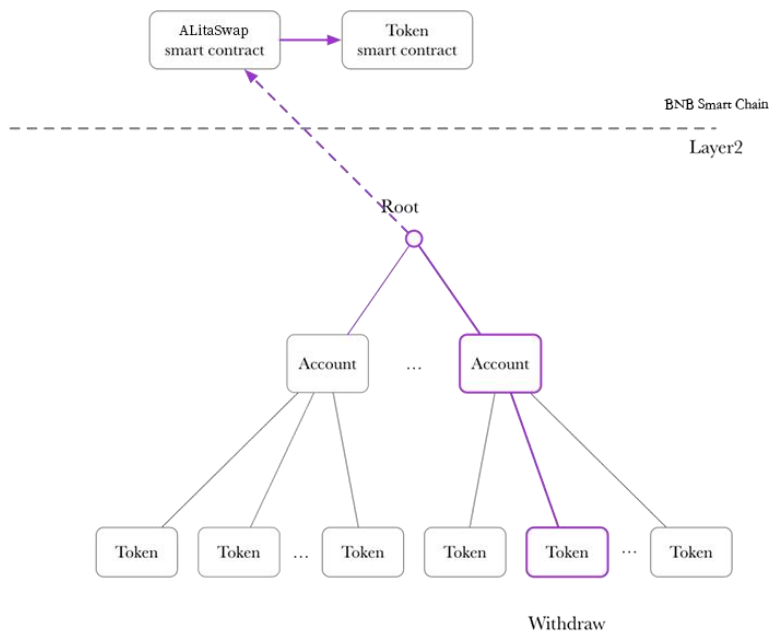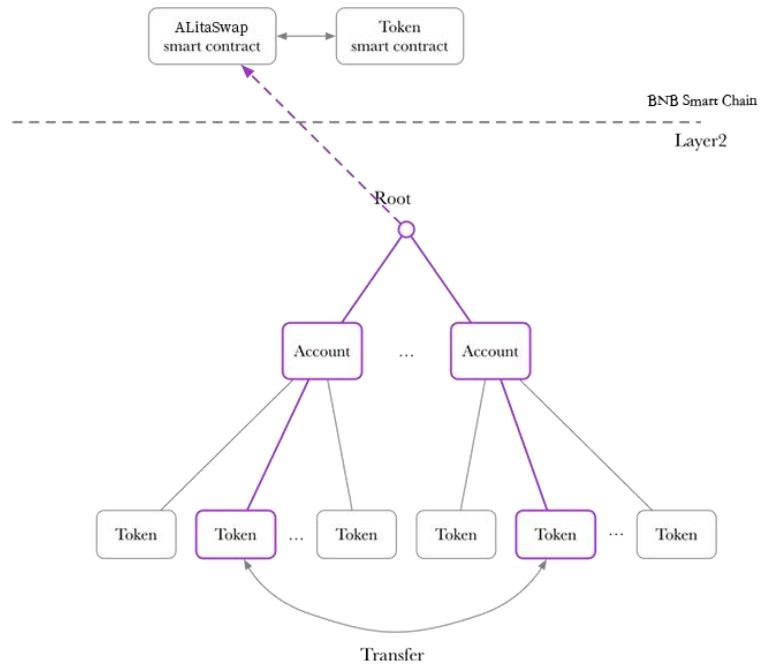

Fig.3.Deposit

Fig.4.Withdraw

Fig.5.Transfer

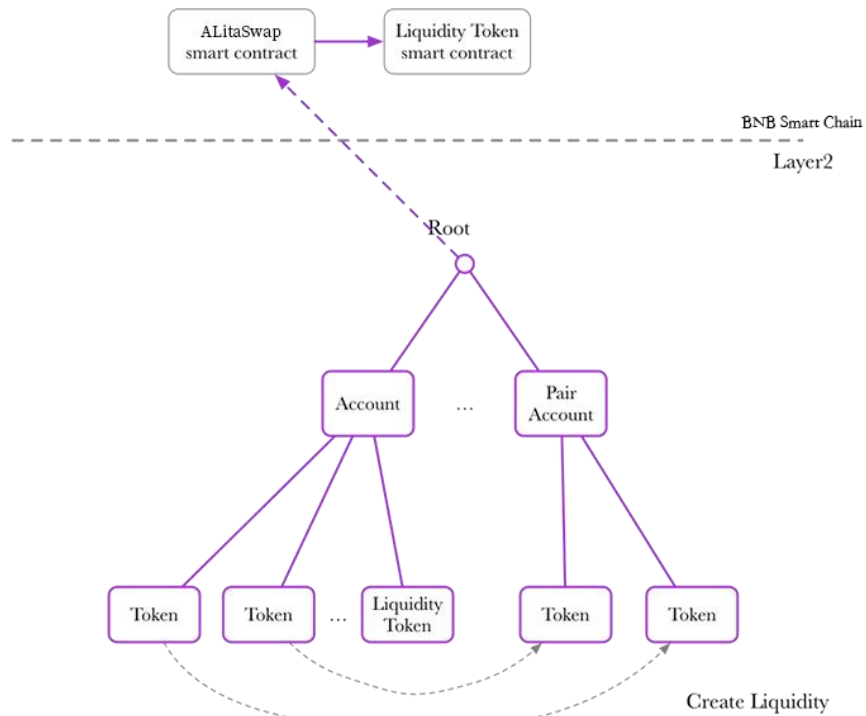## 4.6 Increase liquidity (create liquidity)

Fig.6.Create Liquidity

Creating liquidity refers to the user's operation to create or increase liquidity in Layer-2, and its definition is consistent with uniswap. Creating liquidity is initiated by users at layer 2. When the Alita Swap server receives a request from a user to create a pair of Token liquidity, it first needs to find the initiator Account and Pair corresponding to the pair of Tokens. Account (if Pair If Account does not exist, you need to create a matching fund pool first); then transfer the two Tokens under Account to Pair according to the ratio specified by the AMM algorithm. Account; at the same time, the system will calculate the LP that the user can obtain Token quantity, and in the liquidity provider Account LP The corresponding quantity is updated in the Token state. After all state updates are completed, the root node hash of the state tree will be sent to the Alita Swap contract on the chain together with the proof corresponding to the creation of liquidity . The first LPToken created requires the Alita Swap contract to deploy the corresponding LPToken contract on the chain.

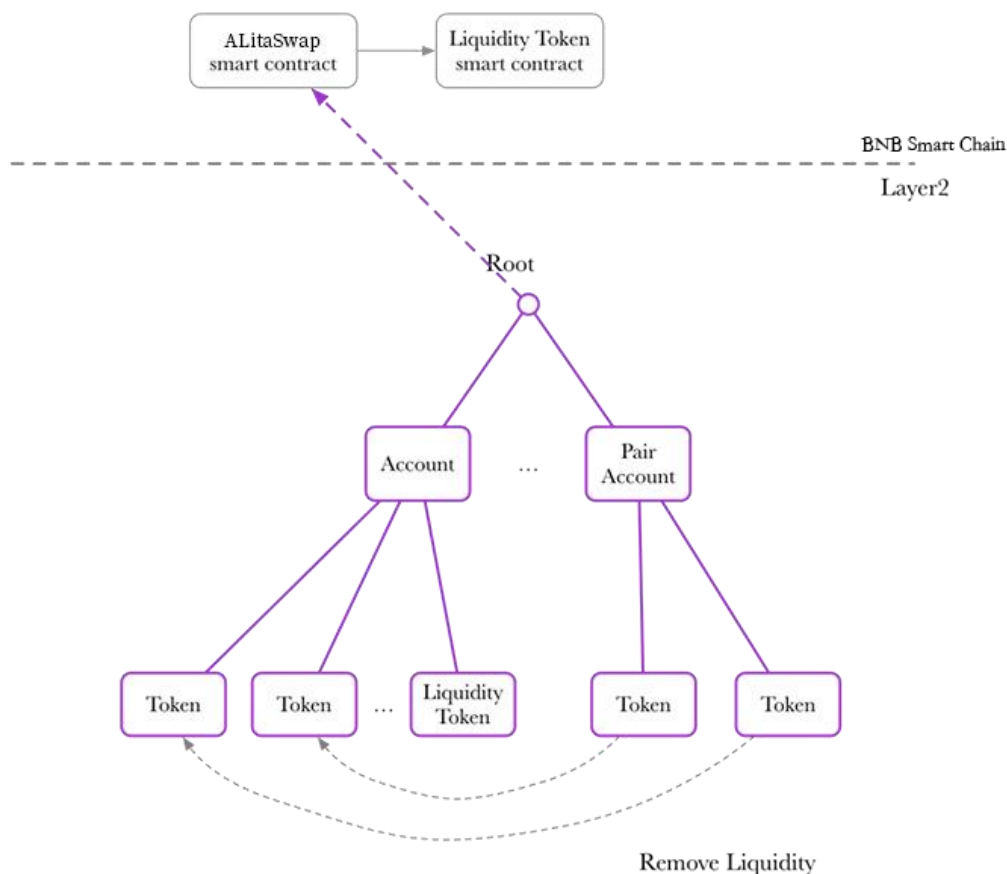## 4.7 Reduce liquidity (remove liquidity)

Fig.7.Remove Liquidity

Remove Liquidity refers to the process in which users destroy LPToken from a certain pair fund pool in Layer-2 and retrieve the corresponding proportion of

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the two Tokens in Layer-2. Removal of liquidity is initiated by users at layer 2. When Alita Swap Server receives the user's Remove When Liquidity makes a request, it will first find the corresponding Account and destroy the corresponding amount of Liquidity under the Account. Token; it then matches the liquidity token with the two tokens under the matching account. Transfers will proportionally destroy the liquidity token account. After the operation is completed, the status tree will be updated accordingly, with the root node hash and the corresponding Remove Proofs of Liquidity operations are sent to the Alita Swap contract on the chain .
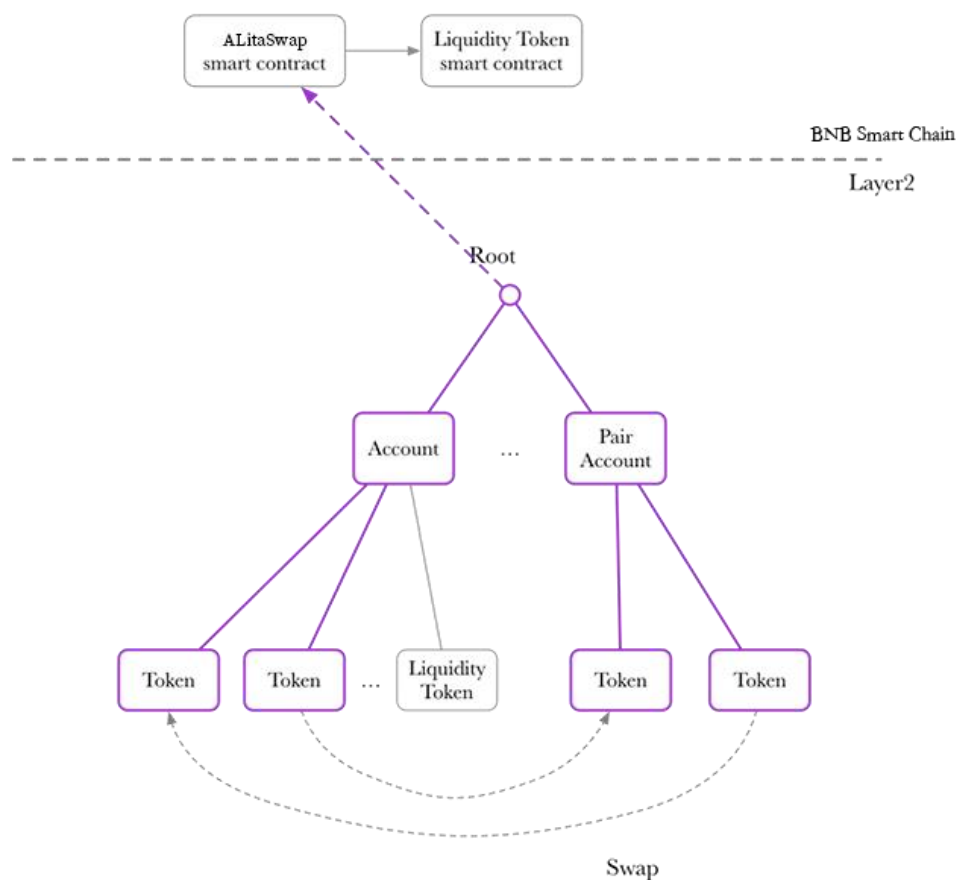
4.8 Swaps

Fig.8.Swaptransaction

Swap refers to the process of users completing transactions in the second-tier capital pool. Assume that the user needs to perform swap transactions in the capital pool containing TokenA-TokenBPairToken. The user first sends TokenA under his/her Account from Layer-2 to the corresponding PairAccount. Alita Swap will calculate the number of TokenB the user can obtain based on the AMM algorithm and send it to the user. The state tree is updated accordingly, and Alita SwapServer will send the updated

state tree root node hash and the proof corresponding to the Swap operation to the Alita Swap contract on the chain. Swap transactions do not change the status of the tokens on the chain, as the tokens themselves are still locked in the Alita Swap contract.

4.9   Withdraw liquidity

Withdrawing liquidity refers to the process by which users withdraw liquidity tokens from second-tier accounts to first-tier accounts. The WithdrawLiquidity initiation process and status updates in Layer-2 are exactly the same as the ordinary Withdraw above, but the results produced by Layer-1 are different. After the Alita Swap contract receives the WithdrawLiquidity request, it will automatically trigger the LiquidityToken minting operation, create an additional LiquidityToken in Layer-1 and send it to the designated account.
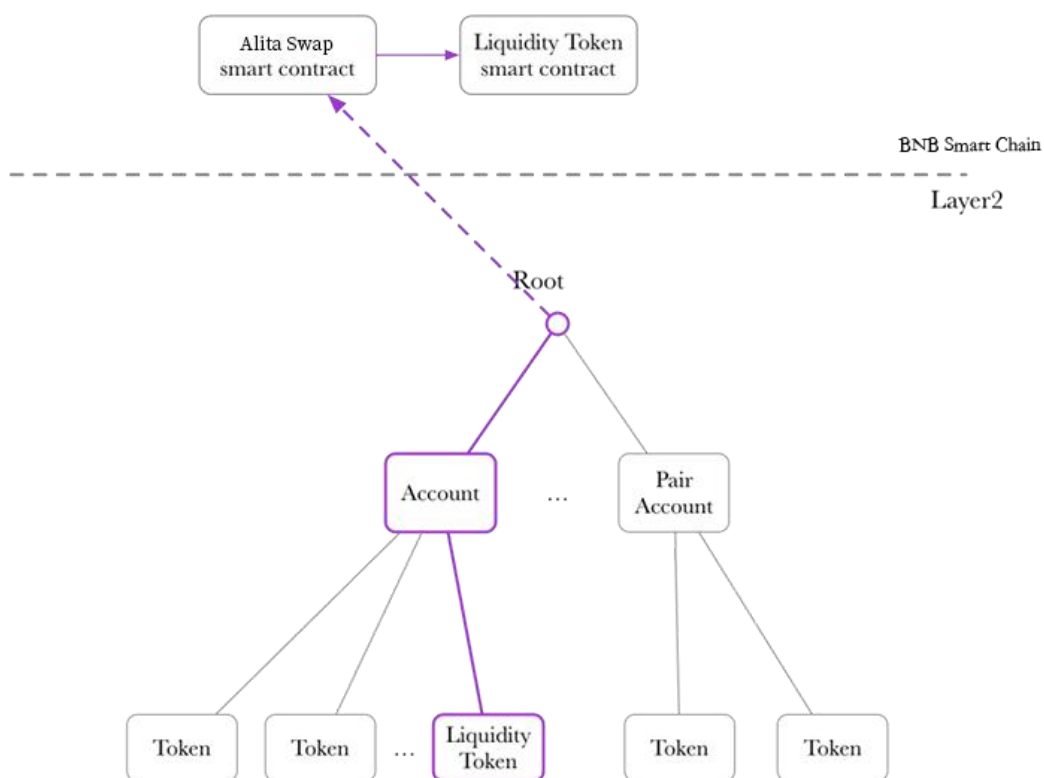
Fig.9.WithdrawLiquidity

5. Alita Launchpad

5.1 What is Alita Launhpad?

As rumors of Bitcoin spot ETFs intensify, Bitcoin prices return to the highs in May 2022, and the encryption market also presents a "Little Indian Spring" scene. Various tokens have rallied, with crypto market funds experiencing their first net flows in more than a year via stablecoins or dollar-pegged tokens, according to Glassnode' s blockchain data analysis. In addition, the net supply of the four major stablecoins USDT, USDC, BUSD and DAI also turned positive, further demonstrating the trend of capital inflows into the market. This phenomenon has occurred for the first time since Terra collapsed in mid-May 2022. As the encryption market picks up, the entire encryption industry and the CEX track situation are also changing. For a long time, investors have maintained a high degree of interest and recognition in this investment method. Whether in the stock market or the cryptocurrency field, subscribing for new projects is seen as an opportunity to obtain higher returns. Some people even call it "risk-free returns." The IEO model has become the most popular way of playing new games among current users due to its low risk and low participation threshold. By participating in IEO, investors can more easily access and invest in potential cryptocurrency projects, while also reducing some investment risks. Alita inherited this new law and launched " Alita Launchpad", a platform that introduces the IPO model of the traditional stock market to the cryptocurrency field.

High-quality project incubation

Under the current circumstances, many other Swaps lack strict incubation review systems, resulting in a large number of dishonest, fraudulent, runaway and other inferior projects emerging in the market, disrupting the entire market order and causing huge losses to transactions and investors. Therefore, ALitaSwap is committed to solving problems such as the proliferation of inferior projects to maintain market order and protect the rights and interests of traders. When issuing tokens on ALitaSwap, you will need to use ALita as collateral to launch the token incubation and deploy trading pairs on ALitaSwap. In this way, we will screen and incubate only high-quality projects with strong qualifications and effectively filter out low-quality projects, thereby ensuring the sustainable and safe development of the market. Since its launch, Alita Launchpad has launched multiple cryptocurrency projects, many of which have shown great potential, making Alita Launchpad the preferred strategy for investors.

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5.2   How to empower Alita users?

The introduction of the Alita LaunchPad platform marks a new round of promotion for AlitaSwap, providing Alita users with more opportunities and ways to participate in projects. Through innovative launch mechanism design, Alita LaunchPad is committed to creating a more equitable and inclusive ecosystem, providing a unique launch platform for high-quality projects. This not only allows project parties to obtain financial support more easily, but also provides investors with more participation and investment opportunities.

The Alita LaunchPad platform brings multiple benefits to users. First, by providing a launchpad, users can more easily learn about and participate in upcoming projects. This transparency of information helps users make informed investment decisions. Secondly, through the LaunchPad platform, users can quickly discover new projects, have the opportunity to participate in the early stages, and enjoy the benefits brought by the success of the project. This provides users with more diversified investment options and reduces investment risks.

More importantly, the Alita LaunchPad platform has the potential to empower users in the long term. By continuing to provide high-quality projects and incentives, the LaunchPad platform will attract more users to actively participate in Alita's ecological construction. The golden shovel system it has created not only provides investors with more high-quality projects, but also provides a more sustainable driving force for the development of the ecosystem. This win-win mechanism will encourage users to participate more deeply in Alita's ecological construction and promote the healthy development of the entire ecosystem.

In general, the Alita LaunchPad platform is not only a platform for project launch, but also an ecosystem that provides users with opportunities and continuous empowerment. Through its unique mechanism and continuous development, Alita LaunchPad will bring more possibilities to investors, while helping the AlitaSwap ecosystem move towards a more prosperous and sustainable future.

5.3   The first new lossless trading model

All token prices have an independent calculation formula, which can carry out error-free transactions with complete accuracy and ensure a spiral increase in currency prices; unlike the AMM automated market maker rules of traditional decentralized exchanges, he cannot directly purchase incubation project tokens. Coins can only be sold.

Issue X tokens

Why does X token only rise but not fall?

How do token prices increase?

Because only buy orders will appear during the transaction process of Alita Swap, and no sell orders will appear. Every user who mines in Alita Swap will automatically convert the funds invested into Alita into the LP pot. Half of the Alitas automatically buy the incubation project token When you enter mining, a purchase order will be generated, and the price will naturally keep rising .

Why don't token prices fall?

When a user mines and produces incubation project token , but directly destroyed or returned to the mining pool, and what is given to the user is the LP withdrawn from the pool. Half of them are incubation project tokens .

6. Alita-AI Robot

6.1 Robot introduction

Alita - the AI robot is inspired by the future world artificial intelligence in Atali's Battle Angel movie. Based on the study of human emotions, it is designed to make her better able to understand human needs and not only protect humans in battle, but also in peace. Period has become a close partner of mankind. So it can answer almost any question, and even better, it can even suggest what questions to ask!

A unique and fundamental advantage of Alita -AI is that it understands the world in real time through the Alita platform. It will also answer tough questions that most other AI systems reject. Alita is still a very early beta product - so expect it to improve quickly every week with your help.

6.2 Purpose

Gather feedback and ensure we're building AI tools that best benefit all of humanity. We believe it is important to design AI tools that are useful to people of all backgrounds and political views. Our goal with Alita is to publicly explore and demonstrate this approach.

Empowering research and innovation: We want Alita to be a powerful research assistant for anyone, helping them quickly access relevant information, process data, and come up with new ideas .
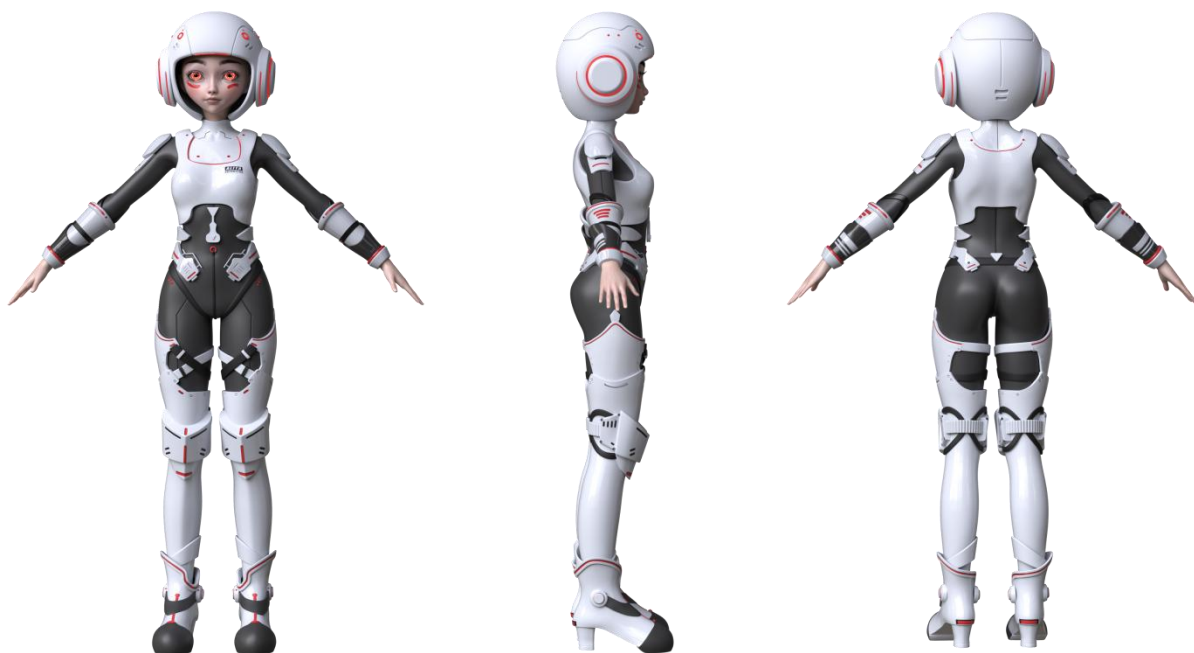
6.3   Model structure
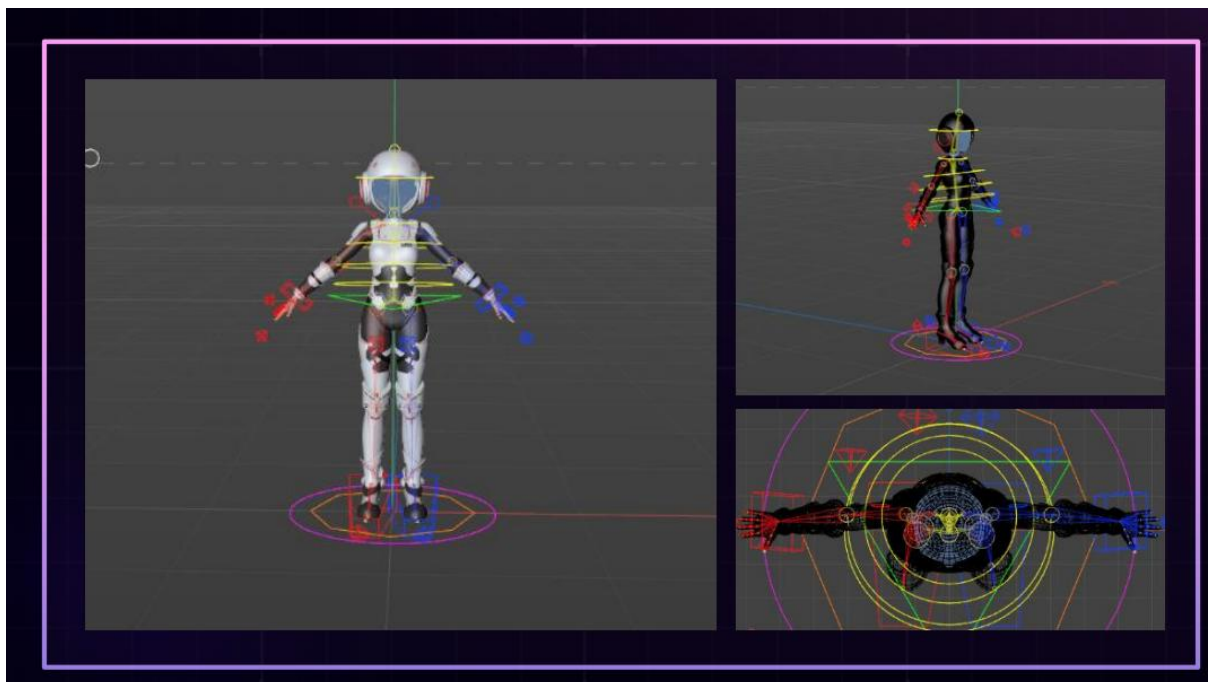
6.4   Excellent performance

The engine powering Alita is Alita - 1, a cutting-edge large- scale language model that we have developed over the past few years. The Alita -1 went through several iterations during this time.

Benchmark	Alita-0 (33B)	LLaMA 2 70B	Inflection-1	GPT-3.5	Alita-1	Palm 2	Claude 2	GPT-4
GSM8k	56.8% 8-shot	56.8% 8-shot	62.9% 8-shot	57.1% 8-shot	62.9% 8-shot	80.7% 8-shot	88.0% 8-shot	92.0% 8-shot
MMLU	65.7% 5-shot	68.9% 5-shot	72.7% 5-shot	70.0% 5-shot	73.0% 5-shot	78.0% 5-shot	75.0% 5-shot + CoT	86.4% 5-shot
HumanEval	39.7% 0-shot	29.9% 0-shot	35.4% 0-shot	48.1% 0-shot	63.2% 0-shot	-	70% 0-shot	67% 0-shot
MATH	15.7% 4-shot	13.5% 4-shot	16.0% 4-shot	23.5% 4-shot	23.9% 4-shot	34.6% 4-shot	-	42.5% 4-shot

We trained a prototype LLM (Alita -0) with 33 billion parameters. This early model approaches LLaMA 2 (70B) functionality on the standard LM benchmark, but uses only half its training resources. The most advanced language model is more powerful, achieving 63.2% on the HumanEval encoding task and 73% on MMLU. To understand the performance improvements we made using Alita -1, we conducted a series of evaluations using some standard machine learning benchmarks designed to measure mathematical and reasoning abilities.

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6.5 Robot application

Smart home

Smart home appliances have slowly penetrated into our lives. From smart speakers to smart homes, they all fall into the category of smart homes. Smart appliances are connected to the network, receive signals through various sensing devices, and issue or receive control commands, making the entire home interconnected. The emergence of smart homes has greatly improved users' quality of life, freed their hands and greatly improved household cleaning efficiency.

Autopilot

Self-driving vehicles are starting to become a reality in fields such as agriculture, transportation, and the military, and the day is quickly approaching when ordinary consumers will use self-driving vehicles in their daily lives. Autonomous vehicles perform necessary operations based on sensor information and AI algorithms. It needs to collect data, plan and execute driving routes. And these tasks, especially planning and executing routes, require non-traditional programming methods, which rely on machine learning technology in AI.

There are still many tasks for autonomous vehicles that face significant challenges that require cutting-edge approaches to solve. Replacing human cognitive and motor abilities is not an easy task and will take many years of hard work. Alita- AI will solve a variety of different tasks in order to achieve reliable and safe autonomous driving.

Medical

Alita- AI- based applications could improve health outcomes and quality of life for millions of people in the coming years. They can be trusted by doctors, nurses, and patients, and their main applications include clinical decision support, patient monitoring, coaching, automated equipment in surgery or patient care, and management of medical systems.

Recent successful cases, such as mining social media data to infer potential health risks, Alita- AI machine learning to predict at-risk patients, and Alita- AI robots to support surgical operations, have greatly expanded the application of artificial intelligence in the medical field. possible.

Entertainment

Driven by artificial intelligence, the Internet has made user-generated content a viable source of information and entertainment. Social networks are now

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nearly ubiquitous, and they have become personalized channels for social interaction and entertainment—sometimes to the detriment of human interaction.

We now have a trusted platform for sharing and viewing blogs, videos, photos and panels, in addition to a wide variety of user-generated content. To operate at the scale of the Internet, these platforms must rely on technologies that are currently being actively developed by Alita- AI, including natural language processing, information retrieval, image processing, crowdsourcing, and machine learning. Alita- AI has developed algorithms such as collaborative filtering, which can recommend relevant movies, songs or articles based on a user's demographic details and browsing history.

Educate

Over the past fifteen years, the education sector has witnessed numerous advances in artificial intelligence technology. Although quality education still requires the active participation of human teachers, artificial intelligence holds the promise of enhanced education at all levels, especially mass-customized education. How to optimally integrate human interaction and face-to-face learning through artificial intelligence technology will be a key challenge.

Alita- AI's large-scale online learning system has generated rapid growth in learning analysis. Alita- AI intelligent tutor helps teachers work in the classroom or at home on an ever- expanding scale, as Willing Learning is based on virtual reality applications.

6.6   Alita- AI and encryption

Convergence of the crypto world

Cryptocurrency is one of them, and many people entering this space are looking for ways to get rich quickly. This results in people actively trying to trade the market, and while some may make a profit, most people lose money. Still, more and more people want to do it. One problem for many people is: there is no time to sit around and stare at price charts. This is where Alita - the AI robot comes in.

Alita is able to extract and analyze information from massive crypto market data to help users identify high-quality crypto projects and investment opportunities. It can track market dynamics in real time, provide users with timely information and suggestions, and help them make wise decisions in this complex and ever-changing market.

ALITA

Alita - AI robot is a special algorithm that makes your trading on Forex or other financial markets easier. Unlike the traditional stock market, the cryptocurrency market operates 24 hours a day, 7 days a week. This is annoying and scary for manual traders, but not for users like Alita . Your bot is not limited to opening trades during normal business hours Monday through Friday. You can set up the robot to operate in almost any emergency situation, whether it is a flash crash, a bustling market, or a calm heart, you can sleep easily and let the robot serve you to improve productivity.

Alita -AI uses its automated trading robot as a tool to minimize risk and earn safe passive gains. Once connected to the exchange via API, the bot can be launched on one or up to 99 trading pairs simultaneously using default settings, or can be individually customized to suit each trader's risk appetite, trading skills and available cryptocurrency funds.

Cryptocurrency transaction sniffing alert

Most importantly, Alita plays a vital role in cryptocurrency trading. It has advanced market sniffing capabilities and is able to predict and identify potential market risks. When there are unusual market fluctuations or potential fraud, Alita can promptly issue early warnings to users to protect their investments from losses. This early warning system is not only based on real-time data analysis, but also combines historical trend and behavioral pattern recognition, making Alita's early warning system in the field of cryptocurrency trading both accurate and reliable.

7.Alita Swap Protocol

Full project name: Alita-AI

Token abbreviation: Alita

Circulation volume: 77.7777 billion pieces

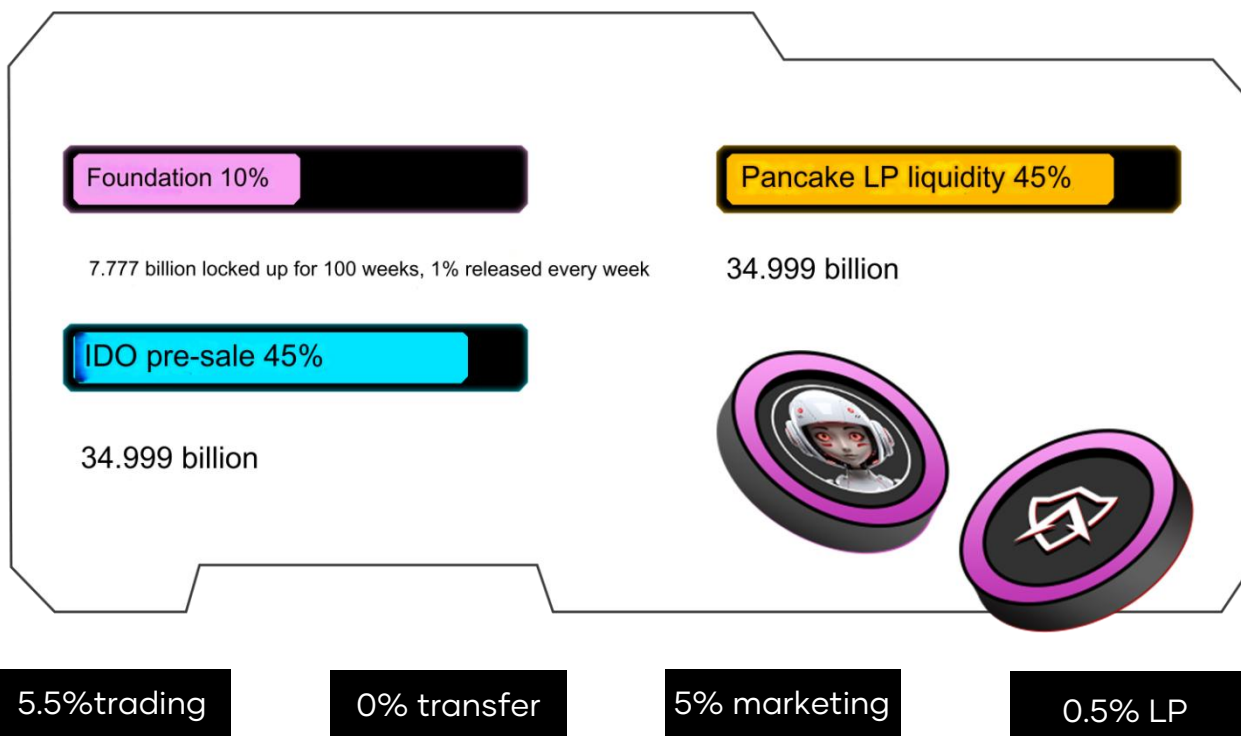Contract address: 0x33679898ceb9dc930024de84e7339d403191d8f6

Alita is a governance token issued by AlitaSwap. It is an important medium to promote the development of Alita-AI network. Based on the economic model of Alita-AI, all participants are encouraged to invest in the maintenance and development of the entire ecological network through the community governance mechanism of the token.

In the economic model of Alita-AI, you can obtain Alita through DEX transactions.

7.1 Alita issuance mechanism

Token distribution

Foundation 10%

7.777 billion locked up for 100 weeks, 1% released every week

Pancake LP liquidity 45%

34.999 billion

IDO pre-sale 45%

34.999 billion

5.5%trading   0% transfer   5% marketing   0.5% LP

7.2   Alita Token Properties

Alita is the trading legal currency of the AlitaSwap decentralized exchange and its ecological token. It will be used for ecological applications such as legal currency transactions, circulation, governance, incentives, and destruction of the AlitaSwap decentralized exchange. With the launch of Alita , Alita Swap will also expand its layout in the payment field, giving Alita more application scenarios. In addition to deducting transaction fees, Alita can also pay for travel expenses, insurance premiums, purchase virtual gifts, make online payments through Coinify, BytePay, Coinpayments, etc., and use it to invest in stocks... Although the scope of use of Alita is marked on the white paper It is more in the investment field, and not many are involved in actual scenarios; but it is undeniable that Alita 's application territory is constantly expanding.

In general, Alita Swap's gradually expanding ecological construction has brought more application scenarios and value-added space to Alita ; in turn, Alita 's user base has also added more traffic advantages to Alita Swap's layout of new projects. The relationship between the two can be said to complement and achieve each other.

7.3   Alita value

• AlitaSwap decentralized exchange is very popular and is the hottest Defi project at the moment. As the only legal currency, Alita has a bright future.

• The fans of the brilliant community radiate around the world and are multiplying day by day, attracting tens of thousands of project developers, and leaders of various large communities jointly promote

• 100% of the strongest double destruction mechanism, with no upper limit for destruction. There will be destruction if there are transactions and transfers, and the circulation volume will become less and less.

• For any token listed on the exchange, the listing party needs to purchase a certain amount of Alita . At the same time, players need to use the intermediate currency Alita to purchase any token . More and more people, all players trading in AlitaSwap will buy Alita and hold Alita , forming a high degree of consensus on Alita .

• In the future, the capital pools of tens of thousands of currency parties will be Alita . Assume that the pool of each coin has an average of 100,000 Alita , and the pool of 10,000 coins totals 1 billion Alita.

• All Alita currency holders will not sell in large quantities

• The unique token holding reward program and the dual blessing of lossless transactions encourage users to hold a large number of tokens; market selling pressure will be very small

• Alita is the only intermediate accepted fiat currency on the AlitaSwap exchange. AlitaSwap will build a multi-financial ecosystem. Players will continue to participate in AlitaSwap activities by purchasing and consuming Alita , pushing up the price of Alita .

8. Route map

8.1 2022

Alita Lab was established in February

Alita -X robot development team in March

Alita -0.5 first generation large model data training completed in September

8.2 2023

Alita robot model in July

Alita -1 large model training in August

• Released test network in September, users can interactively test

• In October, Alita -AI was embedded into the neural network system and the Alita Swap market interface to develop an exclusive encryption robot.

• On December 21, the platform token Alita was launched online

8.3 2024

Alita Swap launched in January

• First support for ETH/BSC/AVAX/Polygon/Arb/Opt/FTM cross-chain in September

• Added cross-chains such as Solana/Terra/Cosmos Hub/Osmosis in December

8.4 2025

• Opening up the entire chain and cross-chain in February

• In May, we cooperated with Xpay to launch a co-branded Visa card, and Alita can store and consume it.

• In August , Alita intelligent AI home robot was launched online. The GPT4 multi-modal model can meet all home intelligence needs, and it also created a

ALITA

consensus mechanism model where dialogue is mining.

Alita quantitative robot launched in October

• Mainnet testnet released in November

Alita full-chain blockchain browser launched in December

8.5 **2026**

2026

Mainnet launched in January

• Full-chain DEX: Make cross-chain liquidity transfer a seamless single transaction process

• Full-chain NFT: NFT projects will be able to access liquidity and users from other ecosystems through cross-chains, without having to split their user base by launching a brand new project on another chain

• Full-chain game: On the basis of the original ERC721, a non-blocking extension of NFT cross-chain is added, which allows the NFT to maintain the same attributes and status as the original chain after cross-chain.

• Full-chain DAO: Provide full-chain governance and decision-making support for crypto projects

• Full-chain lending: users can mortgage ETH on Arbitrum and borrow USDT on Avalanche

• Full-chain income aggregator: Provides full-chain investment and financial management tools for Defi users

Stable currency AUSD will be issued in March

Web3 multi-chain wallet launched in April

• Supports the storage and cross-chain of digital assets and NFT assets across the entire chain

• Supports Web3 payment, can store stable coins, and Alita can conduct online and offline consumption

9. Certik audit

Alita project has successfully passed the Certik audit. This audit is to ensure the security, stability and reliability of Alita's smart contracts and overall system. Certik is one of the leading blockchain security auditing companies in the industry, and their professional audit team conducted an in-depth review of Alita's code and smart contracts.

Query link: https://skynet.certik.com/zh-CN/projects/Alita

CertiK Assessed on Jan 4th, 2024

Alita-Audit

The security assessment was prepared by CertiK, the leader in Web3.0 security.

Executive Summary

TYPES	ECOSYSTEM	METHODS
DeFi	Binance Smart Chain (BSC)	Manual Review, Static Analysis

LANGUAGE	TIMELINE	KEY COMPONENTS
Solidity	Delivered on 01/04/2024	N/A

CODEBASE
https://bscscan.com/address/0x33679898ceb9dc930024de84e7339d40 3191d8f6
View All in Codebase Page

Highlighted Centralization Risks

⊙ Fees are bounded by 5.5%

Vulnerability Summary

11 Total Findings	6 Resolved	1 Mitigated	0 Partially Resolved	4 Acknowledged	0 Declined

■ 0	Critical		Critical risks are those that impact the safe functioning of a platform and must be addressed before launch. Users should not invest in any project with outstanding critical risks.
■ 2	Major	1 Resolved, 1 Mitigated	Major risks can include centralization issues and logical errors. Under specific circumstances, these major risks can lead to loss of funds and/or control of the project.
■ 2	Medium	1 Resolved, 1 Acknowledged	Medium risks may not pose a direct risk to users' funds, but they can affect the overall functioning of a platform.
■ 7	Minor	4 Resolved, 3 Acknowledged	Minor risks can be any of the above, but on a smaller scale. They generally do not compromise the overall integrity of the project, but they may be less efficient than other solutions.
■ 0	Informational		Informational errors are often recommendations to improve the style of the code or certain operations to fall within industry best practices. They usually do not affect the overall functioning of the code.

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10. Core team

Thomas Miller

Alita CEO

Graduated with a bachelor's degree in computer information science from Johns Hopkins University. In the field of blockchain, he focuses on the interconnectivity between blockchain network ecosystems and ensures that information transfer between blockchains can be correctly understood and processed. His research focuses on solving the islanding effect of blockchain and reducing the transaction costs of the whole chain, and researching composable liquidity transmission protocols. He cooperates with multiple ecosystems to promote the realization of full-chain interoperability. Based on community feedback and his experience in Activities in the blockchain community and a positive, creative and leadership CEO.

Michael Sammin

Alita CTO

Graduated with a bachelor's degree in computer science from Johns Hopkins University and has extensive expertise in the field of blockchain cryptography. As a technology leader, his work in the blockchain field is mainly focused on promoting full-chain interoperability in the blockchain field. Lian has conducted in-depth research on various blockchain protocols and has

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extensive industry experience in building aggregation middle-layer technologies. He is well-known in the blockchain community. His research and contributions cover many fields, including consensus algorithms, blockchain security and privacy. sex, cross-chain asset transfer standards, etc.

In 2016, the two worked together at Joseph Lubin's Consensys and participated in the development of MetaMask until 2022, when the two co-founded Alita Lab.

11. Development strategy

- Carry out in-depth cooperation with internationally renowned institutions

- Accelerate the research and development of cryptocurrency technology and AI technology

- Seize market leadership

- Become a channel for major investors to invest in cryptocurrencies

- Become the benchmark for global crypto trading platforms

12. Statement

This article is general information based on Alita -AI 's development advice and experience. It should not be considered professional financial investment advice and used to evaluate or make any investment decisions. This article reflects the current views of the author and does not necessarily represent the cited model or its affiliates. Future product updates will not be announced separately. Please pay attention to official news for the latest product updates.