

HALO COIN

GAME – NFT – DEX – METAVERSE

WHITEPAPER : VERSION 1.0



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INTRODUCTION

MULTIPLAYER NFT GAME

HALO is a real-time multiplayer PVP arena NFT game developed in Unreal Engine and on the Binance network. Players engage in fierce multi-realm battles in an expansive Sci-Fi futuristic game world. HALO is an all-out battle of skill where the best players are in constant battle for resources, territories, and world domination. Every player will have the unique opportunity to protect his realm and gain tremendous rewards in the process. Only the strongest will crown the leader boards. HALO is currently under development for PC, iOS and Android with cross-platform multiplayer.

AMALGAM

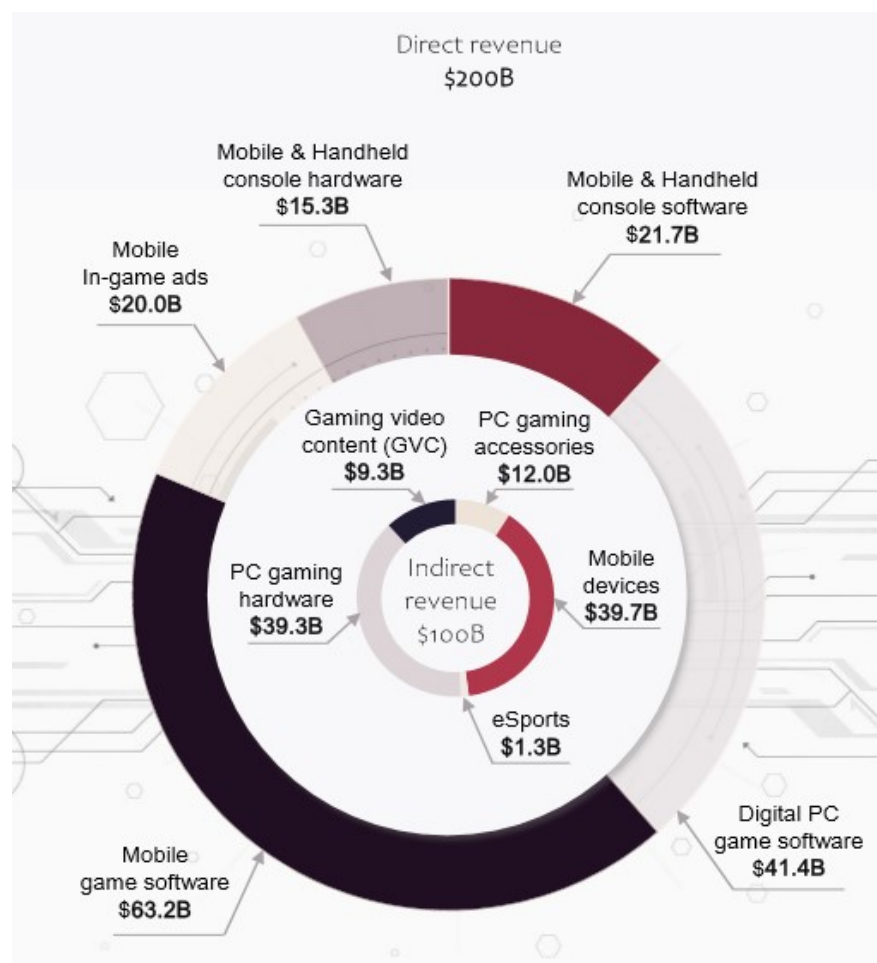
HALO is an amalgam between a traditional PVP gaming experience and some of the best features of the blockchain world, like in-game platform decentralized governance elements (DAO/DAC), NFTs, and some DeFi characteristics. All participants will be able to win prizes and stake them in a decentralized blockchain environment. HALO is a gaming platform and ecosystem with deflationary token mechanics that integrates staking elements with classic game play, allowing users to achieve better rewards by increasing their in-game skill and experience levels.

MULTI-BLOCKCHAIN METaverse

HALO aims to build a long-term, stable, and constantly evolving game environment and token economy. Our endgame is the creation of a multi-blockchain Sci-Fi futuristic Metaverse without boundaries and borders where developers, investors and players can all contribute together to the creation of additional layers, features, modes and content, and explore the endless opportunities of human imagination.

MARKET INDUSTRY RESEARCH GAMING INDUSTRY

The gaming industry is constantly increasing its presence and audience across the world. For the past several years revenue from the gaming industry has surpassed both the movie and music industries combined. Players are spending more hours engaged in playing games, strong communities are being created, and the limits of this exponential growth remain uncharted with no signs of it slowing down. According to the latest global Video Game Consumer Segmentation report from DFC Intelligence, more than 3 billion people across the globe are playing games. This represents about 40% of the world population. Such massive adoption continues to bring tremendous growth to the video gaming industry which according to the newest Accenture report (NUSE: ACN NEW YORK; Apr. 29, 2021.) now exceeds \$300 Billion - much higher than previously estimated by experts. This growth is only increasing during the COVID-19 pandemic.



MARKET INDUSTRY RESEARCH

MARKET EXPANSION : Such ongoing market expansion constantly boosts revenue and provides security for the many businesses within the ecosystem, including developers, distributors, content creators, game platforms and investors.

1600% IN A YEAR'S TIME : Crypto currencies, DEFI and NFT on the other hand, continue to be the most hyped and constantly evolving investment opportunities for investors across the globe nowadays. The crypto market was able to bounce back from \$150 billion in March 2020 up to more than \$2.5 trillion; achieving more than 1600% growth in only a year's time.

149x GROWTH IN 2 YEARS : In early 2019 there was only \$1 billion locked in the DEFI economy projects followed by \$2 billion in early 2020. According to CoinMarketCap in May 2021 there are more than 149 times more money locked in the ecosystem, creating additional income, in only two years time, with total market cap reaching approximately \$150 billion. (05.21.2021 Coingecko)

69.3 MILLION FOR AN NFT : The NFT market is growing exponentially. Its market capitalization in 2018 was \$40 million and CryptoPunks were claimable for free. Currently, only the top 4 NFT crypto companies - Theta, Chiliz, Decentraland and Enjin are worth more than \$12 billion altogether.

WHY HALO IS NEEDED

HIGH-OCTANE GAMEPLAY : A thrilling and engaging PVP game play experience through diverse and intense game modes with fast-paced combat and short match duration that keeps the adrenaline high, and the fun guaranteed.

DEFI-INSPIRED INCENTIVES : Amalgam between some DEFI elements and gaming, using additional incentives and rewards with staking mechanics for both token holders and players.

NFT : Increased demand for NFT-based projects and games. NFTs can enable gamers to truly own in game items and transfer their collectibles from one game to the other.

BINANCE : Block chain integration that provides super fast and cost effective marketplace transactions on the Binance Network.

DAO : Eventually a DAO governance model will be integrated to allow gamers to propose and participate in in-game competitions, new game modes, extra rewards and to feel making an impact over the decentralized game progress.

DEFLATIONARY MANAGEMENT : Ability to implement and manage deflationary mechanics such as token burns to stabilize the in game economy, new gaming content and reaching new players.

HALO is positioned on the constantly growing chain of CRYPTO-GAMING-DEFI-NFT and our team is committed to the implementation of the best practices from all the Metaverses.

GAMEPLAY

PVP AND PVE : Step into the stunning world of HALO and immerse yourself into a PvP and PvE experience like no other. One in which only your skill can determine the outcome of the battle.

VARIETY : HALO lets you fight friends and enemies across an engaging array of game modes and maps, always keeping you on the edge of your seat.

FEATURING:

- Cross-platform Multiplayer
- Free To Play and Play to Earn
- Easy to use Crafting system
- Skill-based Game play
- NFT P2P Market

SHOW THEM WHAT YOU'RE MADE OF : At the start of every match, HALO randomly cycles through a pool of level objectives. changing them on the fly. As a player, you need to be prepared to instantly adapt to whatever the game throws at you.

SHORTPLAY SESSIONS : Life is short and we don't expect you to take 30 minutes out of your day to complete a single match. Our frantic battles last 10 minutes or less, allowing you to enjoy a quick and exciting round, whenever and wherever you want

POWERED BY UNREAL ENGINE

THE MOST POWERFUL REAL-TIME 3D CREATION PLATFORM

UNREAL ENGINE5 : The HALO team is committed to keeping our development on the cutting edge of available game engine technologies, taking advantage of all the powerful tools it brings to the table:

CHAOS : Physics Engine capable of achieving cinematic-quality levels of destruction in real-time.

NIAGARA : State-Of-The-Art Particle System allowing simulations with millions of particles

NANITE : Virtualized micro polygon geometry system that allows film-quality assets to run at real-time frame rate.

LUMEN : Fully dynamic global illumination solution for realistic dynamic lighting.



BUILT ON BINANCE NETWORK

HALO COIN (HALO) is the utility token powering the HALO game platform and ecosystem.

DEX : HALO will eventually list the HALO COIN (HALO) token on own and third party DEX, because it is a fully functional decentralized exchange with trustless cross-chain trading and that provides additional advantages, vastly superior to its competitors:

SPEED : Sub-second trading and settlement.

LOW COST : Lower transaction costs than any other DEX

HALO SECURE DATA STORAGE : Each player will be able to access his dedicated data storage with blazing fast speeds, an incredible throughput, with backups taken every seconds.

HALO USER-FRIENDLY MARKETPLACE WITH IN-GAME PAYMENTS

METHODS : Easy to use and pre-built payment methods and checkout flows will be implemented for selling in game items for HALO COIN (HALO) tokens.

HALO will need to leverage information about the players, their in-game preferences and their desires for further game development directions. Such information will help HALO team to analyze the quantitative data more easily and be able provide better gaming experience and incentives to participants in the ecosystem. No personal user data will ever be collected by HALO and the platform will adhere to a strict International and GDPR Privacy Policy that users will have to specifically approve.

HALO ECONOMY

HALO TOKEN – HALO COIN (HALO)

The HALO COIN (HALO) token is the core utility token of the HALO game platform and ecosystem at large.

- In order to facilitate a future and sustainable DAO design 10,000,000,000 HALO COIN (HALO) fixed supply tokens are created to eventually achieve an effective game platform decentralized governance model, fully built on the Binance network.
- The HALO COIN (HALO) token will be a strictly utility token with in-game, staking for stability and reward, elements of yield farming, game platform governance voting and internal medium of exchange use cases.
- A medium for Buying/Selling HALO NFTs – initially character skins upon the platform launch (with further future steps to include: in game items, pets and most importantly – in-game virtual land plots).
- Token burns as needed to stabilize the in-game economy from the in game marketplace fees and tournament buy-in fees.
- The only medium to buy access and tickets for tournaments and duels
- A chance for each player – either free-to-play or play-to-earn to receive rewards in tokens and NFTs. HALO COIN (HALO) token holders will have a higher chance at skin/item loot drops.
- As a Reward for the World Championships – or other tournaments that will eventually be organized.

HALO ECONOMY

HALO TOKEN – HALO COIN (HALO)

- When PvE modes are implemented, players will be able to select a game mode with severe difficulty to which they would be able to join only by either risking their equipment or tokens. But if they win they will receive higher rewards
- As a medium to participate in hardcore farming or duels during which also fees will be collected
- To reward with constant incentives and bonuses streamers, most active players etc.
-
- To use as a medium of exchange for NFT trading and minting
- To purchase Deflationary NFT Land Plots

STAKING FOR STABILITY : The HALO ecosystem provides different reward mechanics for gamers and token holders. We will implement a sophisticated system based on some DeFi principles like: staking for Liquidity Provision, NFTs, HALO token staking for stability purposes, game platform Governance through a DAO/DAC-like software interface NFT staking will provide randomized rewards for its holders on a monthly basis, expressed in HALO COIN (HALO) tokens, other types of NFTs, arena tickets, tournament tickets and so much more. HALO COIN (HALO) token holders will have the ability to provide liquidity and stability to the internal economics and be rewarded with additional tokens.

DAO GOVERNANCE : In later phases of development, we will introduce some forms of game/platform DAO Governance mechanics and provide additional incentives for our active community to receive rewards and develop the project and game to new heights

TOKEN STABILIZATION MECHANICS

To protect the token from excess volatility, we are going to implement several stabilization mechanics :

- Token burns
- Reinvestment of the Team's profits in HALO for 2 years period
- Repurchase tokens on the secondary market on a regular basis to show commitment and full accountability towards our community
- Social media awareness campaign to grow and diversify our community of enthusiasts and active gamers
- Strong Strategic Partnerships - TBA
- Regular online and Live E-sports World Championships

DAO-POWERED METAVERSE

After HALO launches, additional Avatar, Armors, Tribes, Champions, Maps, and Game modes will be continuously developed.

Our goal is to expand those realms and transform the HALO Metaverse into a War of DAO Sci-Fi Medieval Worlds. Players and token holders will have the ability to vote and partially govern the game development and ecosystem increasing its decentralization and add additionally desired features.

A creation of multi-blockchain world where new developers and entities can contribute to the ecosystem progress and implement sophisticated game modes and features. New lands and worlds will be created which will be the syncing link of expansion

GAME AND PLATFORM DEVELOPMENT

Revenues generated during the first two years of HALO are going to be fully used to grow the HALO ecosystem. The HALO COIN (HALO) token is the core pillar towards our in game economy. To stabilize it, several constantly improvable deflationary mechanisms are going to be implemented during the development and maintenance of the project.

STAKING FEES : 100% goes to project development and improvements.

NFT LAND SALES + NFT ITEM SALES : goes to project development and improvements.

FEES FROM MARKETPLACE TRADES : 40% project development; 30% token burn; 30% Live and online tournament funds + mining rewards.

PROFITS FROM NFT WARS TOURNAMENTS AND BATTLES : 40% project development; 30% token burn; 30% Live and online tournament funds + mining rewards.

ANY ADDITIONAL OR 3RD PARTY REVENUE : the team is obliged to repurchase tokens, burn minted ones or reinvest in the HALO ecosystem.





HALO COIN

Smart Contract Review

Deliverable: Smart Contract Audit Report
Security Report April 2022

Disclaimer

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Overview

Background

HALO COIN requested that HireCA perform an Extensive Smart Contract audit of their Smart Contract.

Project Dates

The following is the project schedule for this review and report:

April 11 : Smart Contract Review Completed (*Completed*)

April 11 : Delivery of Smart Contract Audit Report (*Completed*)

Review Team

The following HireCA team member participated in this review:

- Abhishek Mishra, Security Researcher and Engineer

Coverage

Target Specification and Revision

For this audit, we performed research, investigation, and review of the smart contract of HALO COIN.


The following documentation repositories were considered in-scope for the review:

HALO COIN Project:

EXPLORER LINK

<https://bscscan.com/token/0x1894251aEBCfF227133575eD3069Be9670E25dB0>

Base Info

Token Name	HALO COIN
Symbol	HALO
Chain	 BSC Mainnet
Contract Address	0x1894251aEBCfF227133575eD3069Be9670E25dB0
Supply	1000000000
Decimal	9
Burn	0.00%
Owner address	0x591f27bcd4ea358e86a355c91e0454c67e0a80e1
Creator address	0x591f27bcd4ea358e86a355c91e0454c67e0a80e1
Is open source?	✔ Is open source

Risk analysis

Buy tax	0%
Sell tax	0%
Is honeypot?	✔ Security
Can edit tax?	✔ Security
Is anti whale?	✔ Security
Can take back ownership?	✔ Security
Is blacklisted?	✔ Security
Is whitelisted?	✔ Security
Is mintable?	✔ Security
Is proxy contract?	✔ Security
Can transfer pausable?	✔ Security

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We believe that people have a fundamental need to security and that the use of secure solutions enables every person to more freely use the Internet and every other connected technology. We aim to provide security consulting service to help others make their solutions more resistant to unauthorized access to data & inadvertent manipulation of the system. We support teams from the design phase through the production to launch and surely after.

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Although we are a small team, we surely believe that we can have a momentous impact on the world by being translucent and open about the work we do.

For more information about our security consulting, please mail us at hi@hireca.com