

SENTIENT CHAIN



NIPOPOW SIDECCHAIN DEVELOPED FOR BLOCKCHAIN GAMING

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CURRENT PROBLEMS WITH BLOCKCHAIN GAMING

- Currently There Is No GameFi Specific DEX & Blockchain For P2E That Incentives Game Developers and Gamers
- Two Major Obstacles In Blockchain Gaming:
 - 1) Running A Full Client Node On A Small Device
 - 2) Circumventing Companies Like Apple Who Actively Disparage/Ban Blockchain Games From Their App Store
- Centralized Game Companies Like Stream Take ~ 30% of Game Revenue
 - Sentient Chain Will Implement A Nominal 5% Game Revenue Fee For Game Client Development & Indie Game Support

P2E GAMING MARKET ANALYSIS

- Global P2E NFT game market size is projected to reach \$3.6 billion by 2028
 - Increased \$755 million in 2021, at a CAGR of 21.3% during 2022-2028
- Sky Mavis is the largest producers of P2E NFT games worldwide
 - Market share of roughly 35%
- North America holds about 35% of global market share
 - Followed by Europe with about 30%
- RPG segment holds the main share at roughly 35%
 - The computer segment accounts for about 60% of the total global share

P2E GAMING MARKET ANALYSIS

Figure. 1: Worldwide Google searches for “NFT”, “Play-to-earn” and “Metaverse”. An index equal to 100 indicates the maximum popularity during the analysed period.

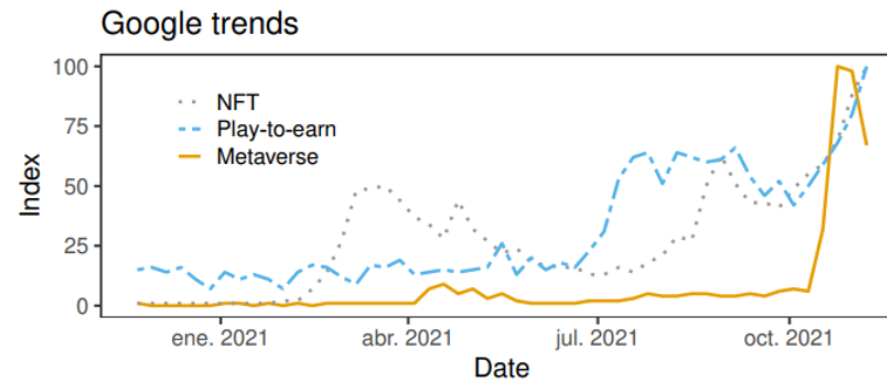


Figure. 2: Number of tokens created over time: a) Play-to-earn, b) Metaverse, c) Metaverse & Play-to-earn.

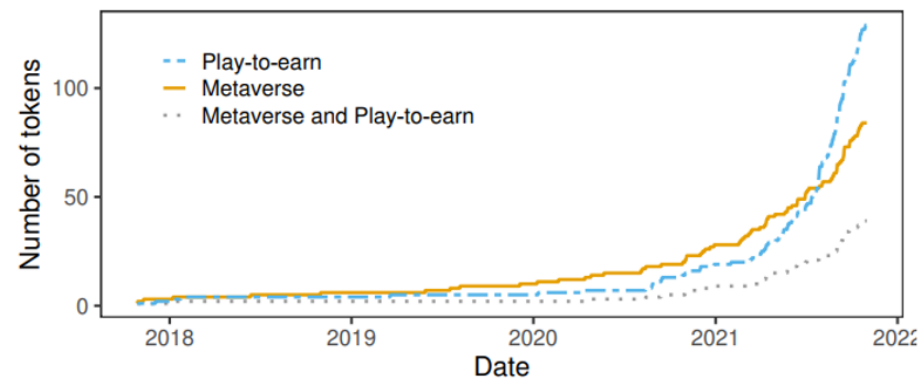
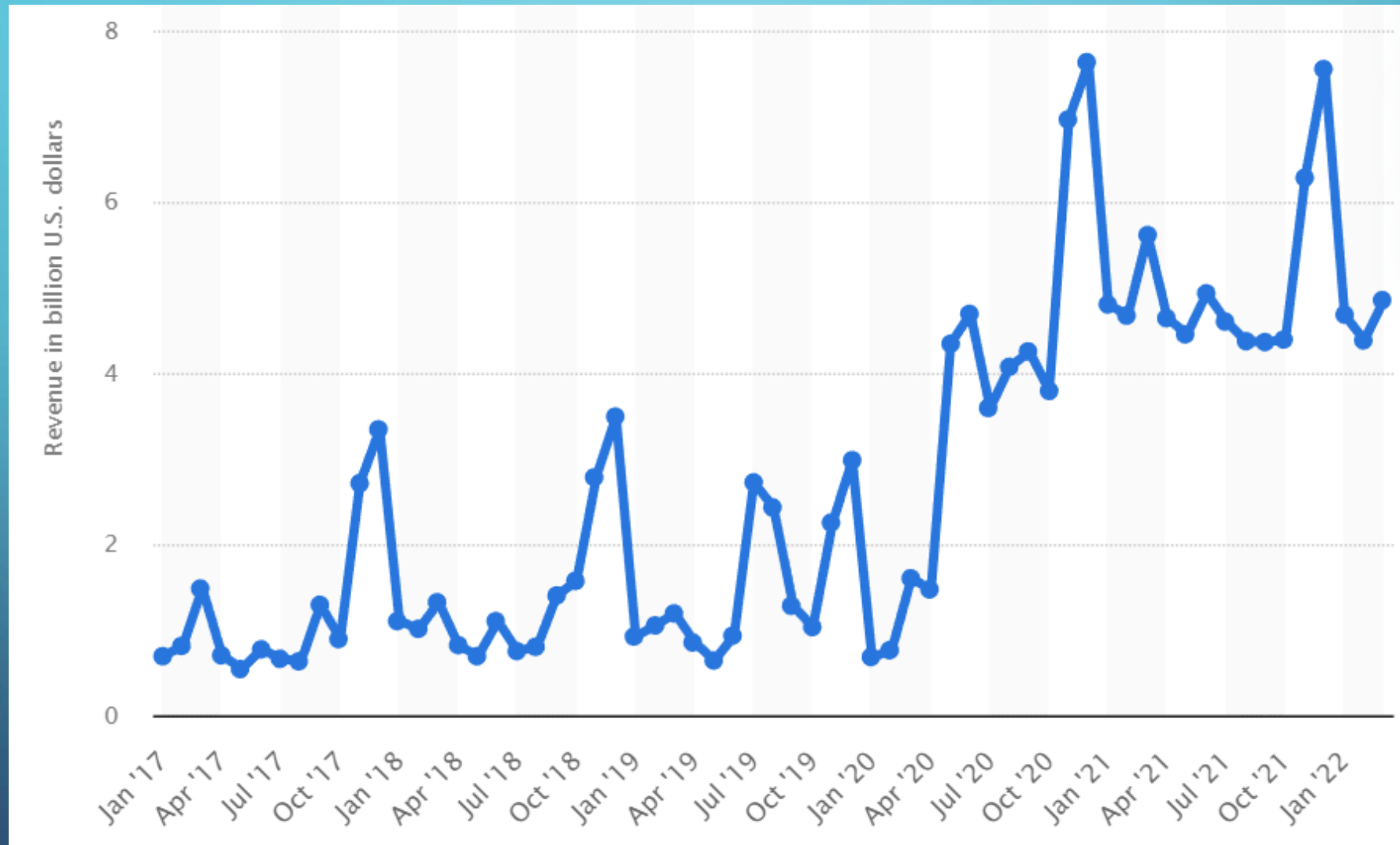


Figure 1, 2. These figures are from research conducted by David Vidal-Tomas, Department of Economics, Spain.

RETAIL REVENUE U.S. VIDEO GAME INDUSTRY JAN 2017 - MAR 2022



DEVELOPMENT OF A NIPPOW P2E SIDECHAIN TO ERGO

- Utilize NIPoPoW To Reduce The DAG Size Requirement
- Optimize Difficulty Parameter Reducing Hardware Requirement
- Lower The Barrier of Entry By Implementing Full Clients On Raspberry Pi 4 Nodes
- Develop P2E Game Client That Runs As A Full Node
 - Incentive For Running Full Node
 - Increases Decentralization, Security & Scalability
 - Can Be Run By An Average Computer or Raspberry Pi 4B 4GB



PORTABLE GAMING CONSOLES/NODES PROTOTYPES



**4" Prototype Blockchain Gaming
Portable Console & Node**

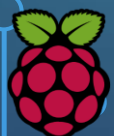


**7" Prototype Blockchain Gaming
Portable Console & Node**

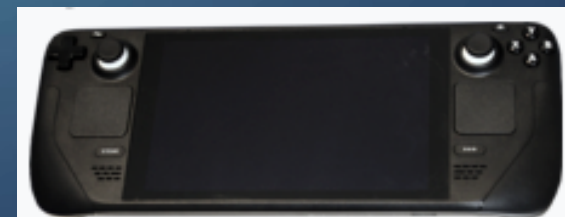
Prototypes Were Comparable To The Nintendo Switch

DEVICE COMPARISON

Device (Release Date)	RPI 4 Model B (20190624)	Nintendo Switch (2017)	Steam Deck (20220225)
CPU	1.5 GHz Quad-Core	ARM4 1.02 GHz	Zen 2 4-core 8-thread 2.4-3.5 GHz
Memory	4GB-3200	4GB-1600 MHz	16GB 5500 MT/s
Storage	microSD 32GB	microSD 32GB-64GB	64GB-512GB
Display	7-inch	6.2-inch	7-inch @60Hz
Graphics	Broadcom Video Core V1 500MHz	256 Maxwell-base CUDA core @ 307.2- 768MHz	AMD RDNA 2 w/ 8CUs 1.0-1.6 GHz
OS	Raspberry Pi OS/ Linux	Nintendo Switch OS	Steam OS 3.0
Price	\$155	\$300	\$400-\$650



RaspberryPi



MAGNUM OPUS

K-12 EDUCATIONAL GAMES

6

Journal of Educational Computing Research 0(0)

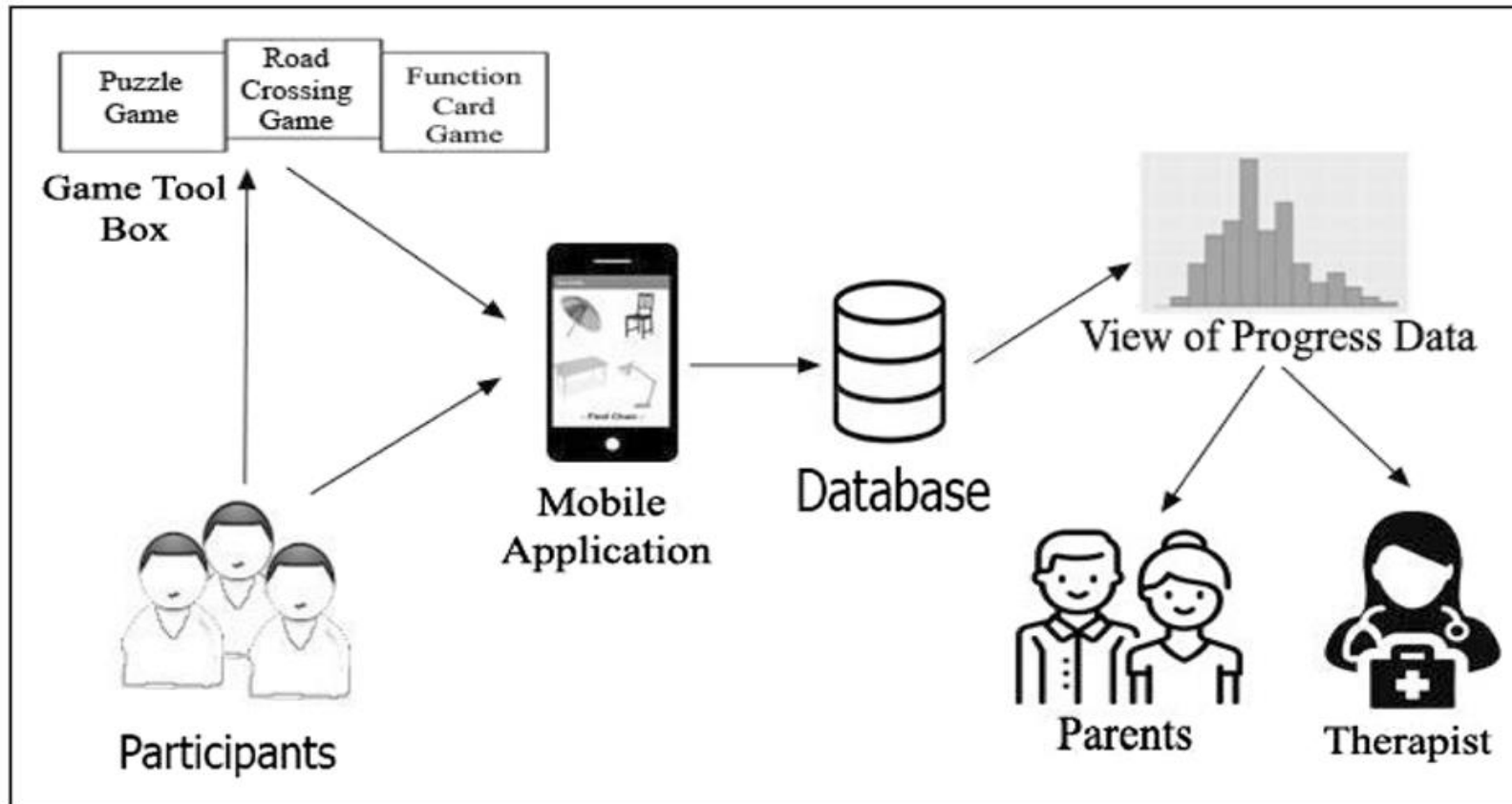


Figure 1. Conceptual design of the proposed gaming tool.

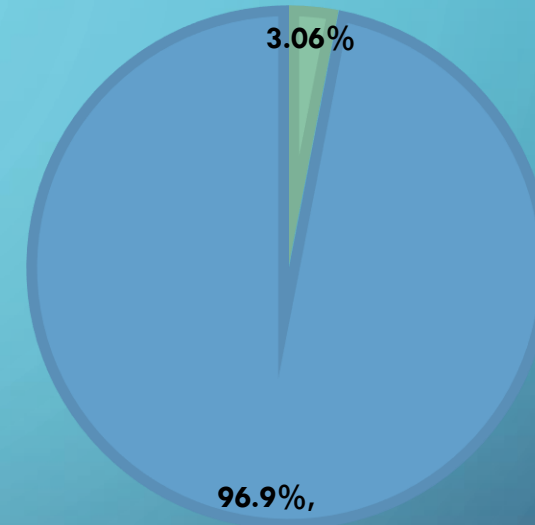


TOKENOMICS

- Fair Launch No PreMine
- Max Supply = 568.9 Million \$SENT
- Two Blocks Produced Per Minute
- Dual Minalable With \$ERG
- One Epoch (2 Years)
 - 4.1 \$SENT Block Reward Decrease Each Epoch
 - 45.1 \$SENT Block Reward
 - 41 \$SENT to Miner Reward & 4.1 \$SENT to Foundation's Treasury
 - 0.01 \$SENT Fixed Transaction Fee

MINING REWARD DISTRIBUTION

Foundation Treasury Miner Rewards





The chart displays the distribution of SENT tokens over a 24-year period. The Y-axis represents the amount in SENT tokens, ranging from 0 to 1,000,000,000. The X-axis represents the number of years (2 to 24). The legend indicates three categories: Foundation Treasury (green), SENT Miner Rewards (blue), and Total SENT Reward (purple).

YEARS	Foundation Treasury	SENT Miner Rewards	Total SENT Reward
2	85,000,000	860,000,000	945,000,000
4	55,000,000	805,000,000	860,000,000
6	30,000,000	745,000,000	775,000,000
8	0	685,000,000	685,000,000
10	0	600,000,000	600,000,000
12	0	515,000,000	515,000,000
14	0	430,000,000	430,000,000
16	0	345,000,000	345,000,000
18	0	260,000,000	260,000,000
20	0	175,000,000	175,000,000
22	0	85,000,000	85,000,000
24	0	0	0

[illegible]

IN DEPTH MINING DISTRIBUTION

Years	Foundation Treasury	SENT Miner Rewards	Total SENT Reward	Total Blocks 2 years	SENT per Block Miners	SENT per Block Foundation	Total SENT per Bock	Decrease SENT per Epoch
2	8619840	86198400	94818240	2102400	41	4.1	45.1	4.1
4	5775292.8	80423107.2	86198400	2102400	38.253	2.747	41	4.1
6	2930745.6	74647814.4	77578560	2102400	35.506	1.394	36.9	4.1
8	86198.4	68872521.6	68958720	2102400	32.759	0.041	32.8	4.1
10	0	60338880	60338880	2102400	28.7	0	28.7	4.1
12	0	51719040	51719040	2102400	24.6	0	24.6	4.1
14	0	43099200	43099200	2102400	20.5	0	20.5	4.1
16	0	34479360	34479360	2102400	16.4	0	16.4	4.1
18	0	25859520	25859520	2102400	12.3	0	12.3	4.1
20	0	17239680	17239680	2102400	8.2	0	8.2	4.1
22	0	8619840	8619840	2102400	4.1	0	4.1	4.1
24	0	0	0	2102400	0	0	0	4.1
Total	17412076.8	551497363.2	568909440	25228800				

Total Supply 568.9M SENT Distributed Over 24 Years

Foundation Treasury Receives 17.4M SENT Total All Within The First 8 Years (4 Epochs)

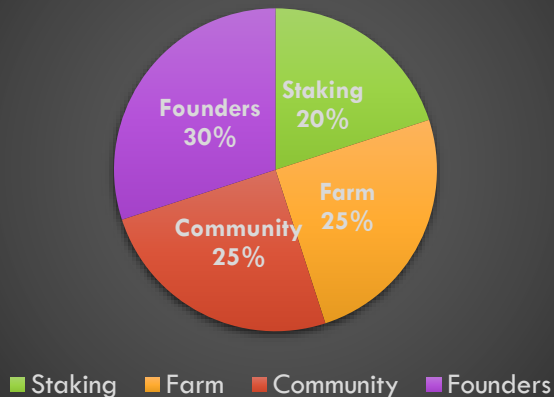
Miner Rewards Are Distributed Over 24 Years (12 Epochs) Totaling 551.5M SENT

FOUNDATION TREASURY BREAKDOWN

Foundation Treasury Receives 17.4M SENT Total All Within The First 8 Years (4 Epochs)

2 Year Per Epoch	Total (100%)	Staking (20%)	Farm (25%)	Community Fund (25%)	Founders (30%)
Epoch I	8619840	1723968	2154960	2154960	2844547.2
Epoch II	5775292.8	1155058.56	1443823.2	1443823.2	1905846.624
Epoch III	2930745.6	586149.12	732686.4	732686.4	967146.048
Epoch IV	86198.4	17239.68	21549.6	21549.6	28445.472

Treasury Epoch Distribution



P2E GAMING DEX - SENTIENT SWAP

- GameFi Specific DEX With A Flat Rate 0.3% Transaction Fee
 - 0.2% Goes To Liquidity Pool (LP) Providers
 - 0.05% Goes To DEX Development
 - 0.05% Goes To A Community Fund Which Will Be Used To Launch Community Initiatives
 - Voted On By The Community
- Uniswap V2 Based AMM With The Focus On Development Of A Novel Approach To Concentrated Deep Liquidity
- Liquidity Pools For Game Tokens
 - **No Bot Facilitated Off Chain** Arbitraging LP Rewards
 - Liquidity Locked For 24hrs In Order To Mitigate Volatility

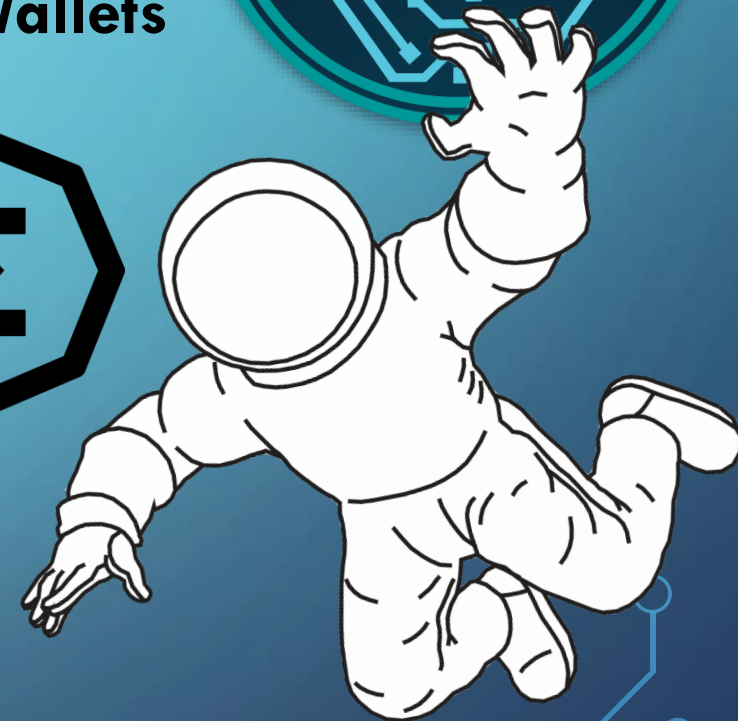
P2E GAMING DEX - STAKING

- Sentient LP Farms
 - LP Tokens Generated With \$ERG, \$SENT or \$SigUSD Can Be Staked To Earn \$SENT In Addition To Their LP Rewards
- P2E Games Vetted & Voted By The Community Will Be Eligible For IDO
 - IDO Tokens Are Purchased With \$SENT & Will Have Exclusive LP Rewards
- 30 Day Fixed Rate Staking For \$sigUSD, \$ERG and \$SENT
 - Early Withdrawal Fee of 2.99% From The Deposited Amount Plus Any Acquired Rewards.
 - This Early Withdrawal Fee Will Go To The Community Fund

ROAD MAP

- 1) Run Testnet Transaction On Sentient Chain With Established Master Node
- 2) Mine Testnet \$SENT Evaluate Compatibility With Ergo Wallets
- 3) Officially Launch Testnet
- 4) Test Dual Mining With \$ERG
- 5) Establish Mining Pool With Ergo Community
- 6) Launch Mainnet
- 7) Implement Game Client/Full Node For PC
- 8) Deploy DEX & Associated Contracts On Testnet

“Disclaimer: Road Map Is Subject To Change”



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