

Helium (HNT)



The People's Network

Analysts: Will Mahar, Aidan Potts and McCall Delaney

Roadmap

- 1. Introduction
- 2. Network
- 3. Miners
- 4. Features and Applications
- 5. Stats
- 6. Recommendation



Helium Intro and History

- Founded in 2013 by Shawn
 Fanning, Amir Haleem, and Sean
 Carey
- Launched in July of 2019
- Mission: to make it easier to build connected devices
- First miner developed was the Helium Hotspot



Video



How does the Helium Network work?



Step 1

From asset tracking to smart leak detection choose any LoRaWAN-compatible sensor.



Step 2

Onboard and manage devices with Console using the hosted or open source version.



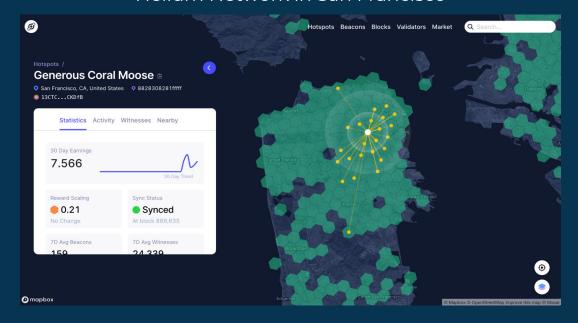
Step 3

Analyze the data in your favorite IoT platform with Console pre-built or custom integrations.

Miners

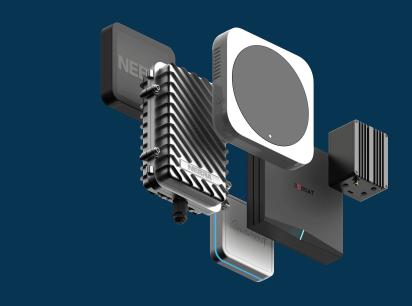
- Mining based of "Proof of Coverage" and relay of device data
- Location
 - o Miners should be at least 300m apart
 - Indoor and outdoor options
 - The Helium "grid" is broken down into layers of hexes
 - o Building out the network as an incentive
 - <u>Link</u> to Nebra's specs on optimal miner performance

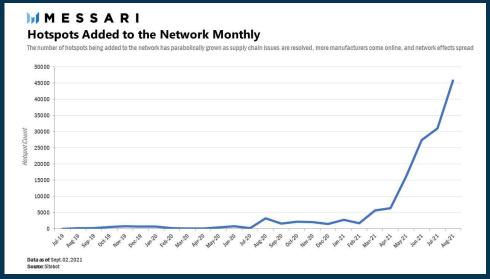
Helium Network in San Francisco



Miners

- Indoor miners
 - Bobcat 300: 10+ range of connectivity, ~5W power usage
 - Nebra indoor miner: Adjustable frequency for different countries, <15W power usage
- Outdoor miners
 - Rak miner: ~5W power usage
- DIY miners
 - Channel on Discord with instructions and community input





CURRENT HELIUM APPLICATIONS:

AgulusAbeewayAirly



Helium Application: Agulus



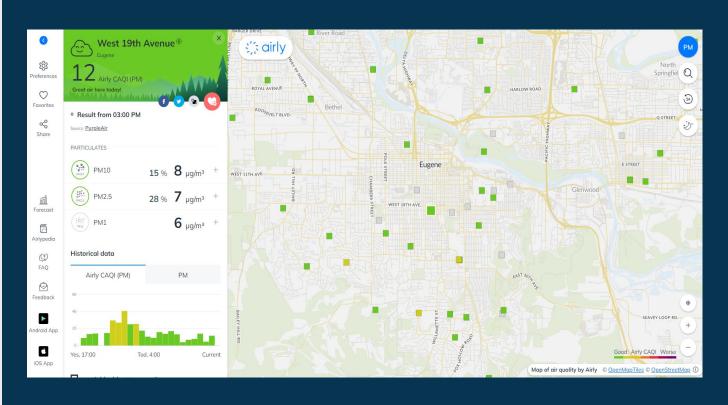
Helium Application: Abeeway

Indoor and outdoor GPS tracking:

- Track & Trace



Helium Application: Airly





Airly PM, NO2, O3 \$1415

Pollutants PM1, PM2.5, PM10, NO2, O3

Source of pollution

- traffic
- industry (gas power plants)
- farms

Buy

5G & Dish

Down the road

- Growth of Dish's 5G network
- Potential future purchase for 5G specific miners

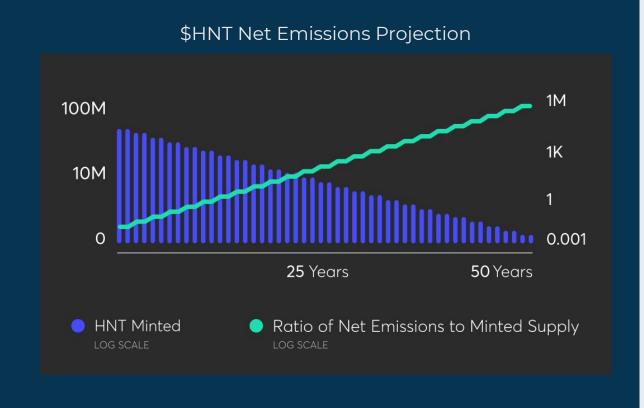
Current bottlenecks

- Limited current fleet of IoT devices
- No 5G hotspots in Eugene
- Need Client Relationships



Tokenomics

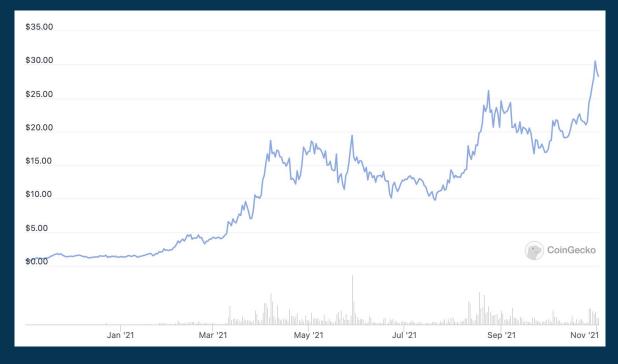
- HNT Tokens are burned when Data Credits (DC) are created
- True max supply: 223M
- DC has a fixed unit cost of \$0.0001
- HIP 20: Combined Net Emissions with existing Burn-and-Mint Economics (BME) approach
- Net Emissions cap set at 34.24 HNT (least amount of emissions to keep the protocol running properly)



Token Outlook

- Diminishing supply and increased demand is baked into the model to accelerate return
 - Similar to stockbuybacks

\$HNT Year-To-Date Price



Source: CoinMarketCap

Helium Stats

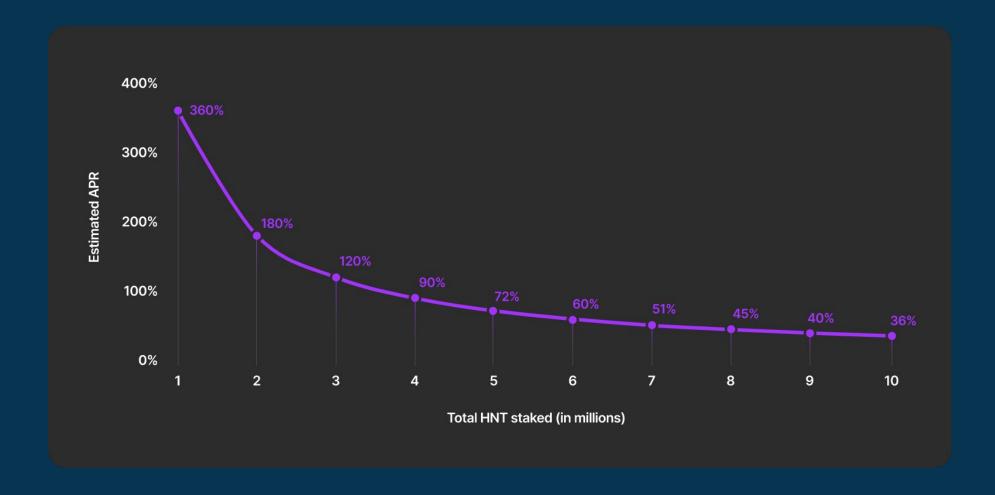
Helium

Market Capitalization\$2.9BCirculating Supply101M24H Volume\$32MAnnual Revenue\$24.2M

Metrics

Staked HNT	27.7M
<u>Active Hotspots</u>	>270K
% in Circulation	45%
<u>Discord members</u>	>100K

Staking

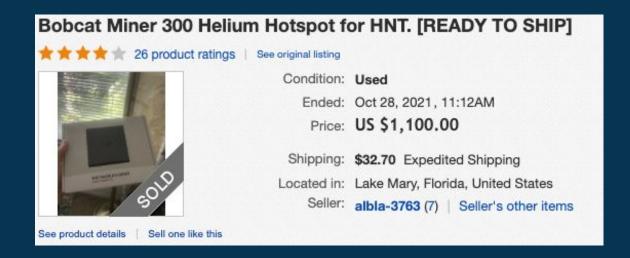


Logistics

Purchasing Miners

- Shortage
 - long lead times for retail, high price for resale
 - Gameplan
 - Order 3 Bobcat 300
 miners, 12-20 week lead
 time
 - Order 3 Bobcats from ebay





Placing Miners

3 spots secured

- Police station office
- Cole's parents' house
- Sam Adams' apartment

Potential spots:

- Lillis offices
- New members houses
- Dorm Room (High floor)



Return on Investment

Payback period

Actual: 13 Months

Utility: ~1 month

5 year return

Actual: \$20,241.47

Utility: \$25,341.47

Assumptions - Actual Payback Period

Payback Period (Months)

Miner Earnings Per Month (Individual)

	\$27.06	\$52.06	\$77.06	\$102.06	\$127.06
6 Resell	45	24	18	12	10
3/3 Split	33	18	13	10	9
6 Retail	22	13	10	8	7

Assumptions - Actual 5 year return

5 year return (\$Thousands)

Miner Earnings Per Month (Individual)

	\$27.06	\$52.06	\$77.06	\$102.06	\$127.06
6 Resell	\$2.3	\$10.6	\$18.9	\$27.2	\$35.5
3/3 Split	\$4.0	\$12.1	\$20.2	\$28.3	\$36.4
6 Retail	\$5.7	\$13.6	\$21.5	\$29.4	\$37.3

Fund Recommendation

Current Price:

Resale: ~\$1200 Retail: \$500



Helium Miner

Action:

Buy 3 Bobcat Miners resale, 3 retail

Questions?

