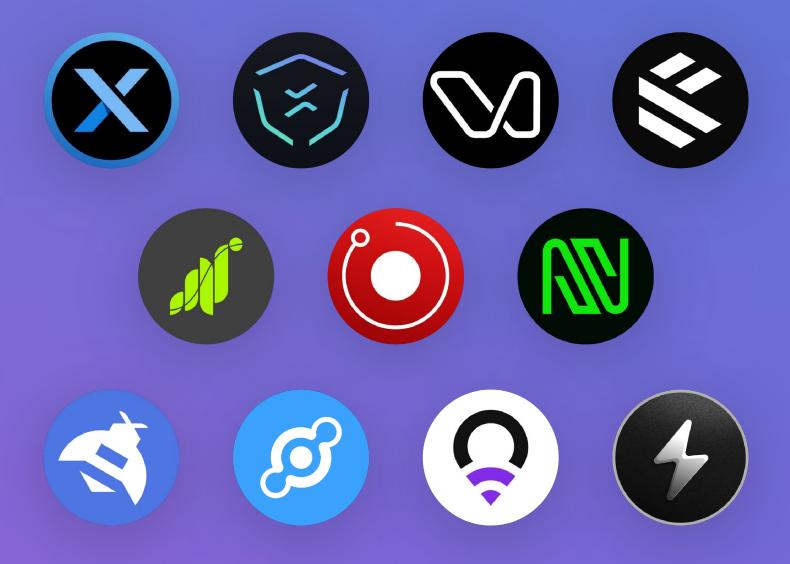
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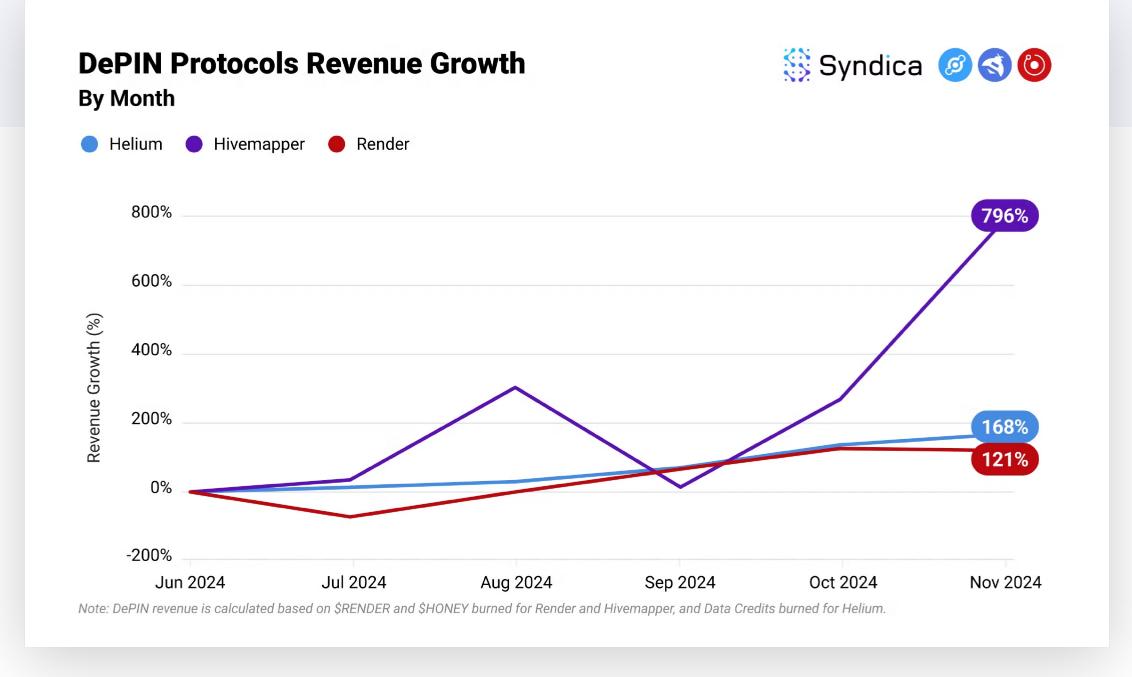
// November 2024

Note: DePIN revenue is calculated based on \$RENDER and \$HONEY burned for Render and Hivemapper, and Data Credits burned for Helium.



Hivemapper revenues have skyrocketed since June.

The protocol achieved 796% revenue growth, with Helium and Render also posting impressive growth figures.

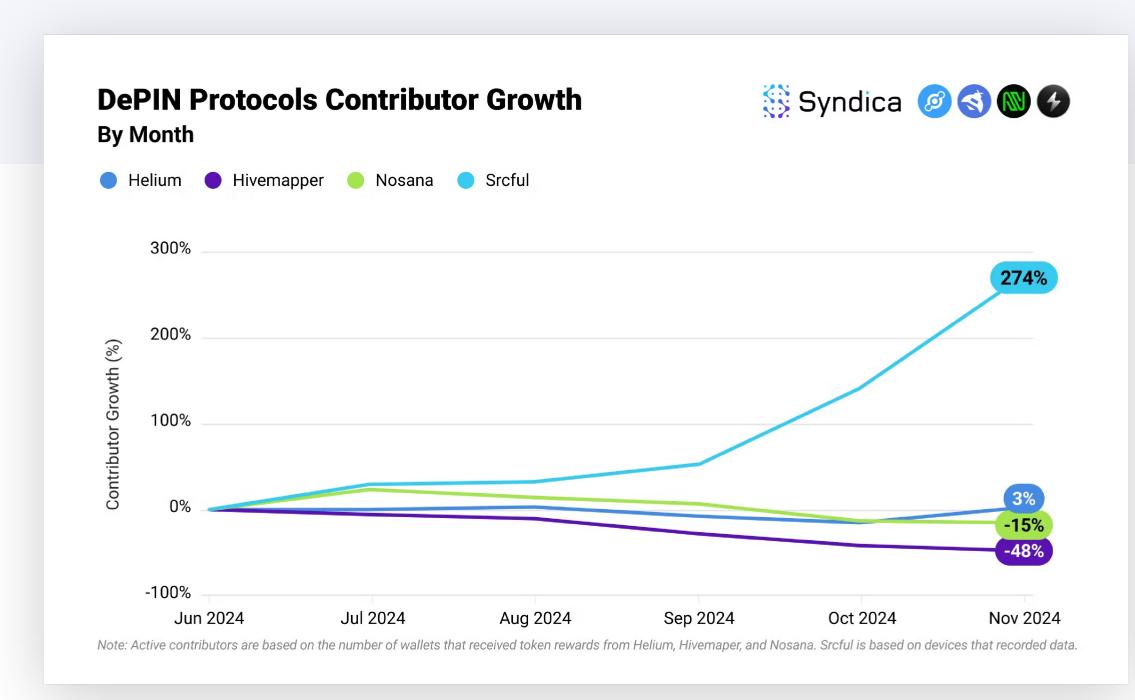


//Deep Dive: Wireless //November 2024



Srcful has seen massive contributor growth since June.

While most DePIN protocols cooled in active contributors, Srcful saw an impressive 274% increase.



//Deep Dive: Wireless //November 2024

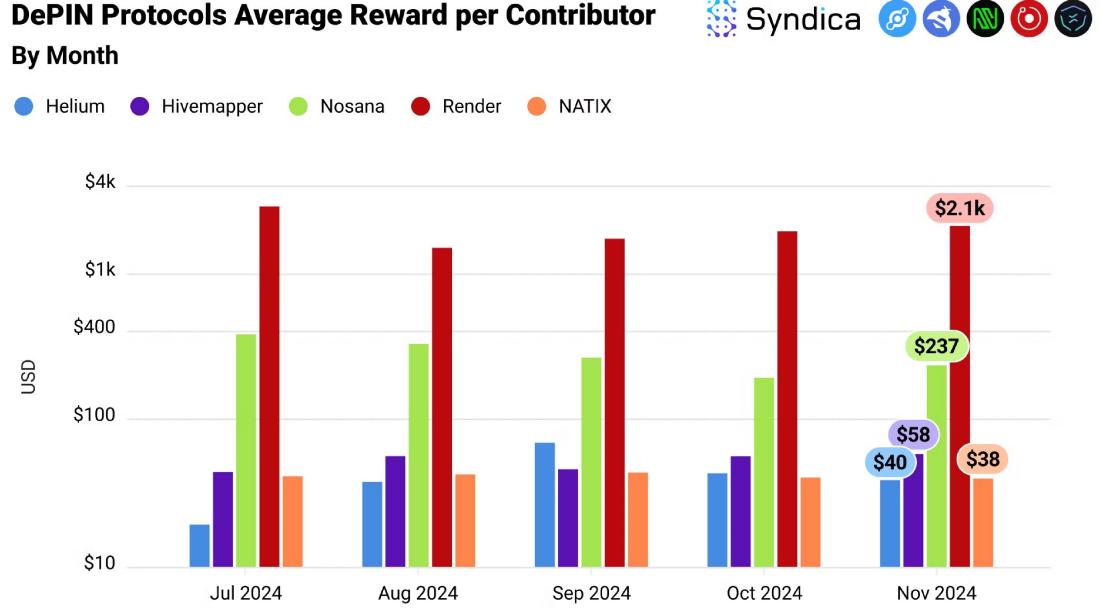
Note: Active contributors are based on the number of wallets that received token rewards from Helium, Hivemaper, and Nosana. Srcful is based on devices that recorded data.



Render contributors received hefty payouts.

Render contributors earn about \$2k on average, significantly surpassing the sub-\$300 average rewards of most protocols.

DePIN Protocols Average Reward per Contributor





Part I Mapping

// November 2024



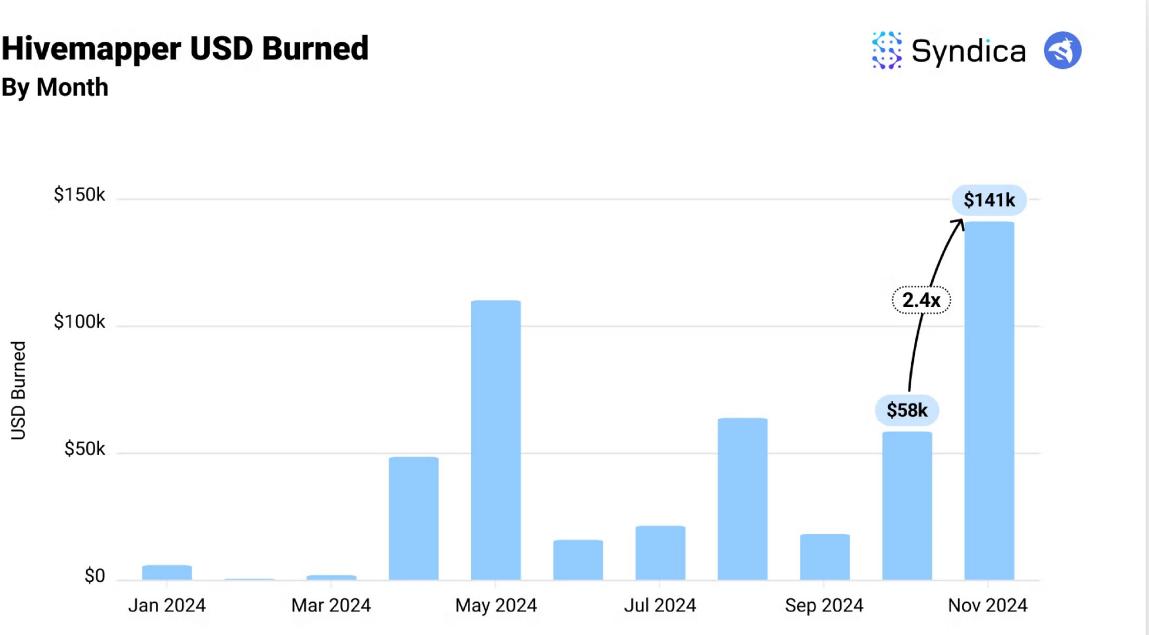


Hivemapper demand reached an ATH.

USD burned through \$HONEY tokens surged 2.4x in November, reaching \$141k.

On November 26th, a Map Improvement Proposal was introduced to increase the price of map credits by 50%, which is expected to result in more \$HONEY being burned per kilometer of map data.

Hivemapper USD Burned By Month

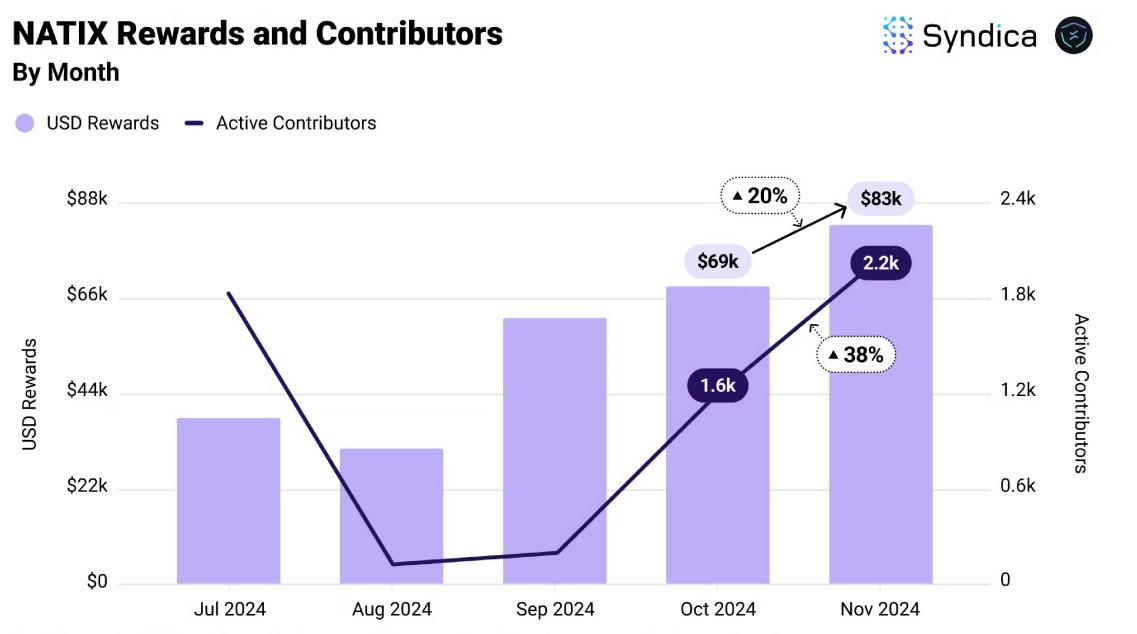




The NATIX incentive mechanism is working.

The network gave 20% more USD in rewards to 38% more contributors.

The team recently launched VX360, a device that allows Tesla drivers to access and monetize their camera data, adding a new product line and valuable dataset to the network.



Note: We are using NATIX contributors that choose to withdraw rewards to their wallets as a proxy for the rewards metrics.

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//Deep Dive: Mapping //November 2024



Wingbits' flight network database is scaling up.

In just one month, the network expanded coverage by 20% and is tracking 8% more flights per day.

Live stations are expected to double with the upcoming delivery of hardware sold during October presales.

Note: This data has been obtained from the Wingbits team.

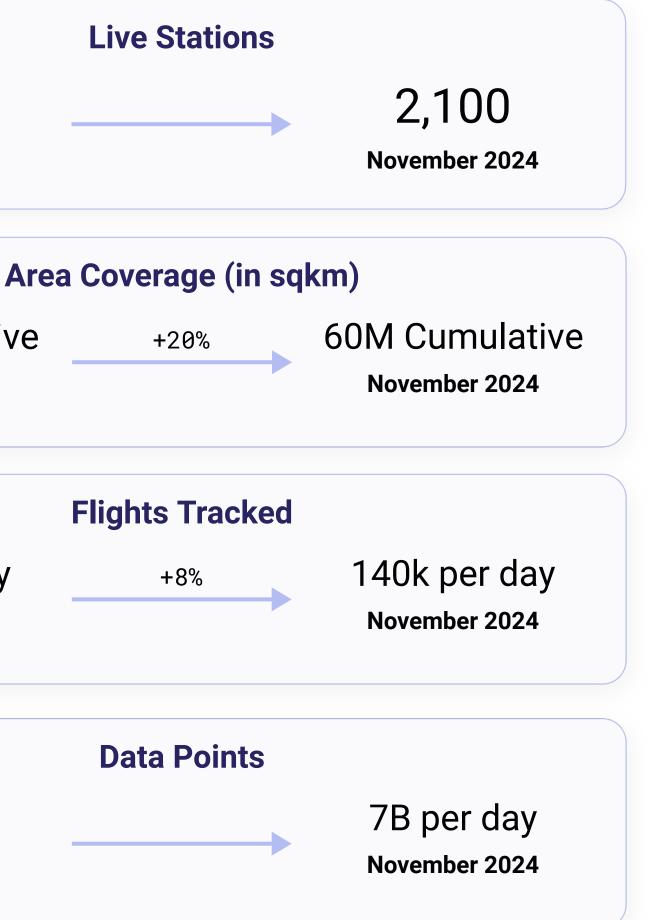
//Deep Dive: Mapping //November 2024

2,100 October 2024

50M Cumulative October 2024

> 130k per day October 2023

> > 7B per day October 2024





Part II Wireless

// November 2024

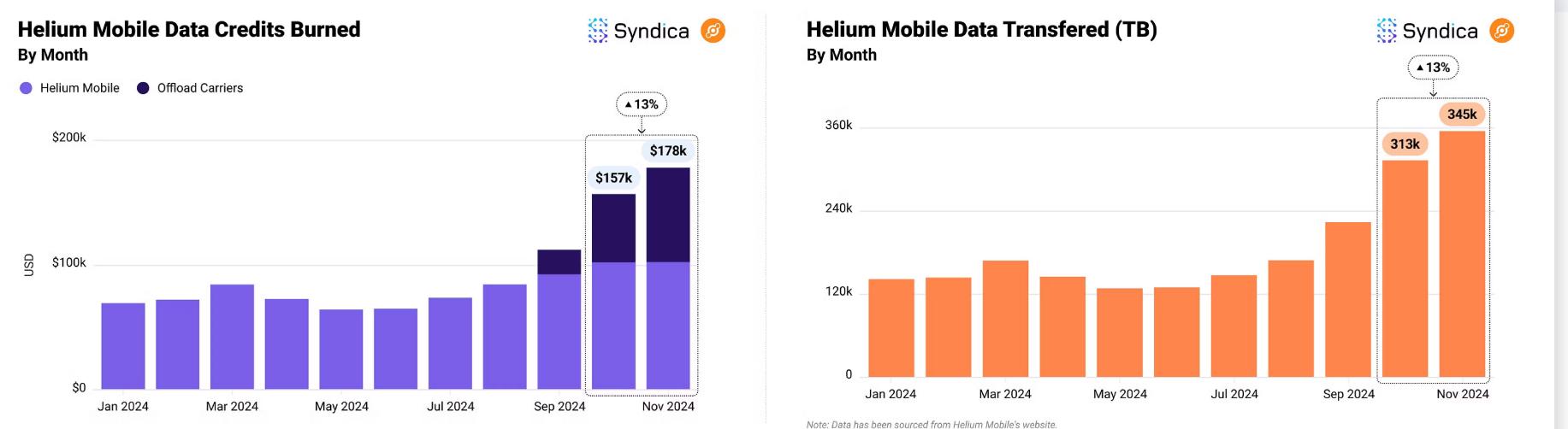




Helium Mobile demand extended a 6th-month uptrend.

Data credits burned and data transferred hit new ATHs in November, rising 13% due to strong offload carrier demand and increased network usage.

Data credits directly reflect the amount of data transferred, creating a mirrored relationship between the two.

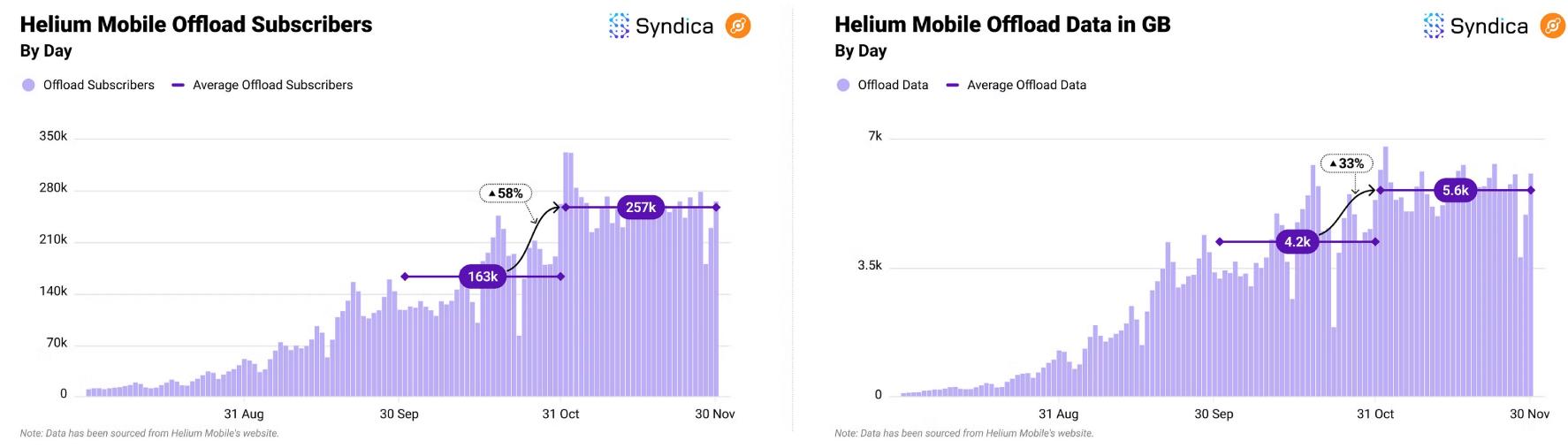


//Deep Dive: Wireless //November 2024



Helium Mobile's carrier offload initiative continues to scale rapidly.

Average offload subscriber count and offload data hit new ATHs, surpassing 200k daily subscribers and 5TB of data.



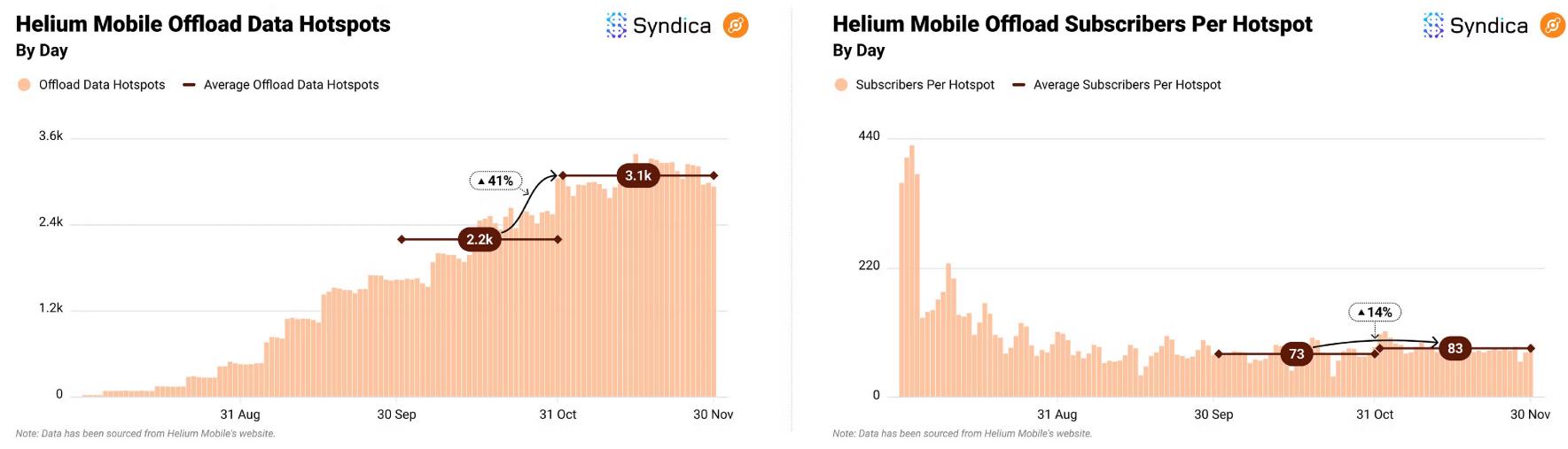
//Deep Dive: Wireless //November 2024

Note: Data has been sourced from Helium Mobile's website.



Helium Mobile offload subscribers outpaced hotspot growth.

Despite the increasing number of hotspots, the number of subscribers per hotspot increased by 14%.



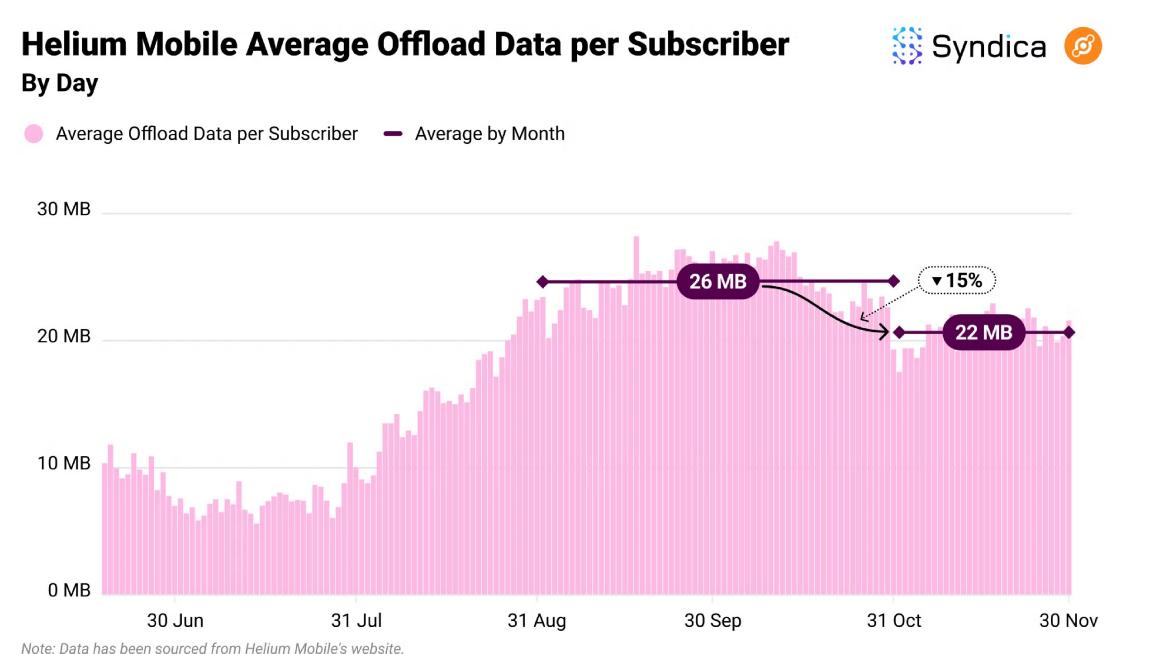
//Deep Dive: Wireless //November 2024

Note: Data has been sourced from Helium Mobile's website.



Offload carrier dependency on **Helium Mobile** stabilized.

Offload carrier dependency is the amount of data routed through Helium Mobile, on average, by an offload subscriber. After four months of steady growth, dependency on Helium Mobile dropped by 15% in November.



Note: Data has been sourced from Helium Mobile's website.

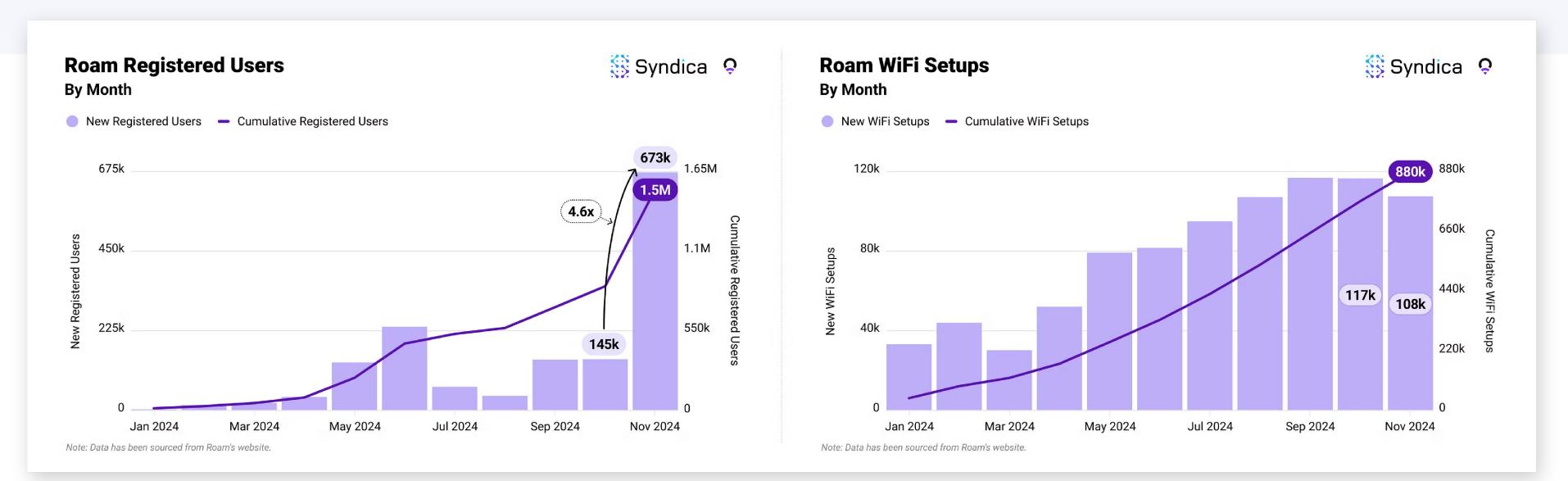
Note: Data has been sourced from Helium Mobile's website.

//Deep Dive: Wireless //November 2024



Roam user count surged 4.6x in November.

Cumulative user count now tops 1.5M. New WiFi setups stabilized at the 100k range. Roam provides free eSIM data through daily app check-ins, with competitive pricing and free data incentives, likely attracting new users.



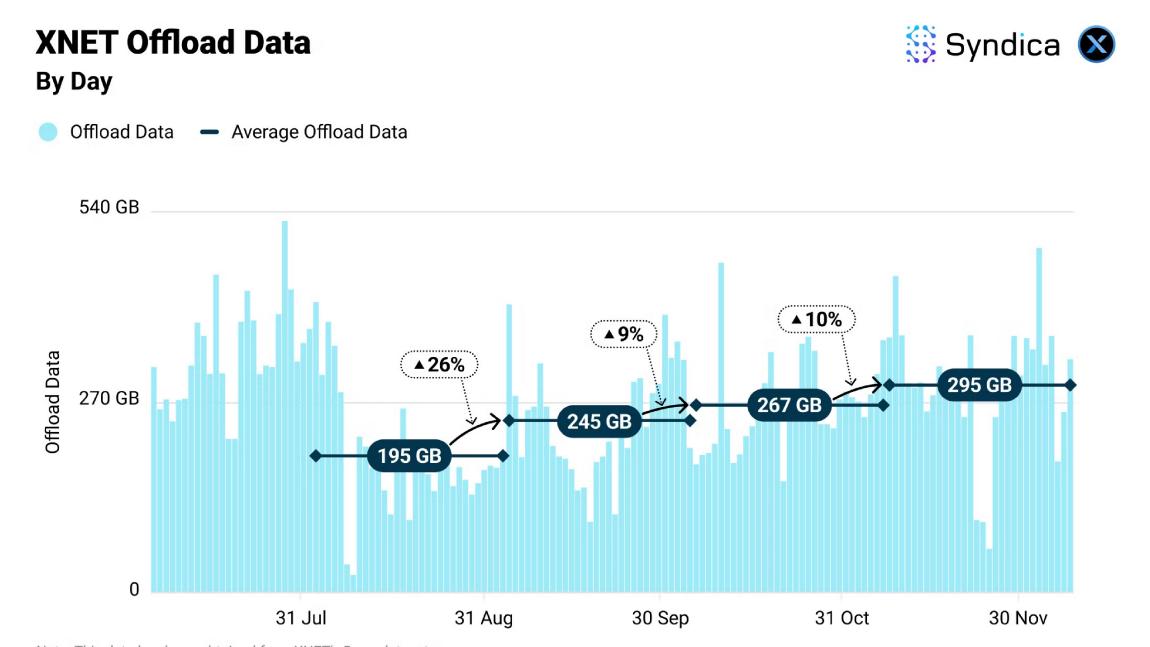
//Deep Dive: Wireless //November 2024

Note: Data has been sourced from Roam's website.



XNET offload data continued a three-month growth streak.

The rise in offload data indicates growing usage by onboarded cellular providers.



Note: This data has been obtained from XNET's Dune dataset.

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//Deep Dive: Wireless //November 2024



XNET has burned \$68M worth of tokens.

The XNET Foundation allocates a significant portion of revenue from Network Operators to reduce \$XNET supply.

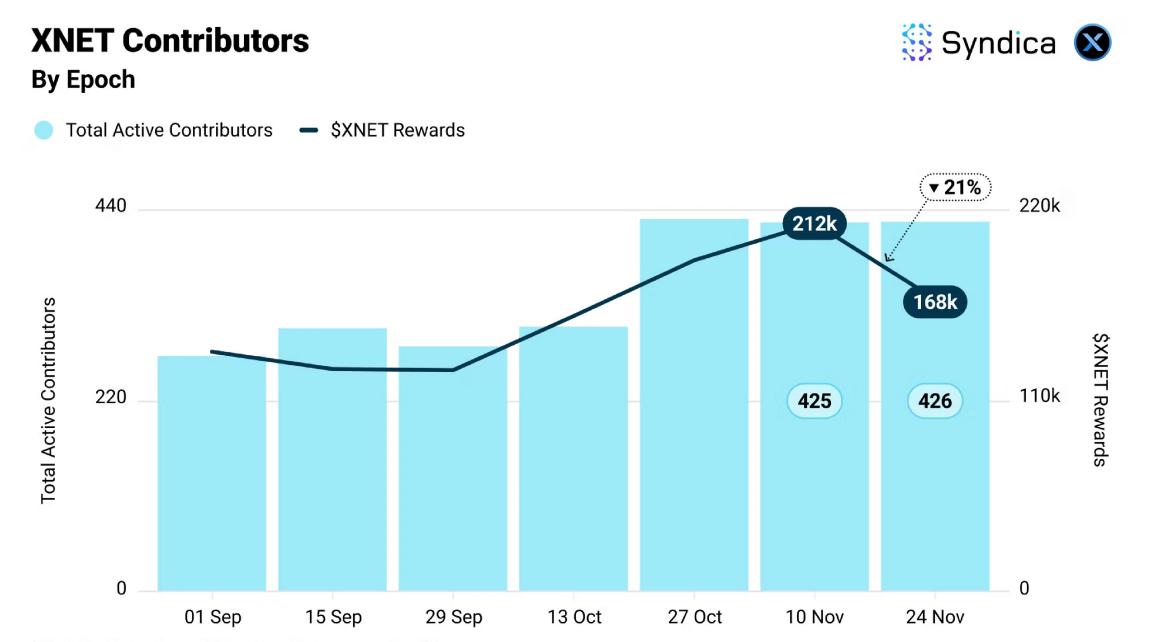
This brings value back to token holders due to the deflationary mechanism.





XNET contributors have remained consistent.

However, \$XNET rewards paid out dropped by 21%.



Note: This data has been obtained from XNET's Dune dataset.

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//Deep Dive: Wireless //November 2024



Part III Compute, Al, & Data

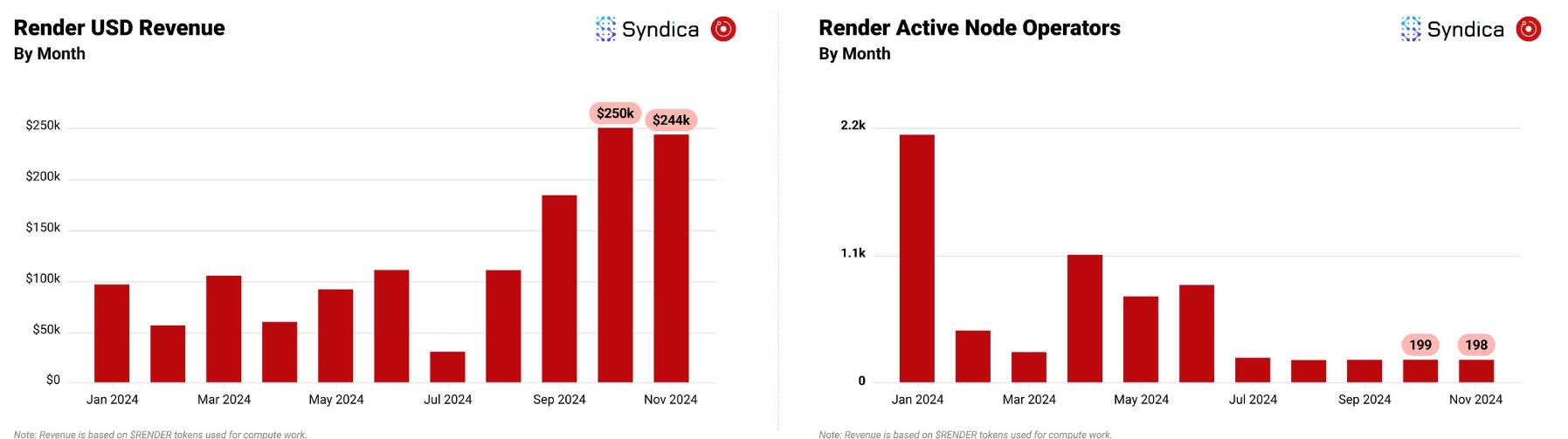
// November 2024





Render's revenue has exceeded \$200k for two consecutive months.

Despite recent revenue growth, the number of active Render node operators has remained stable.



Note: Revenue is based on \$RENDER tokens used for compute work.

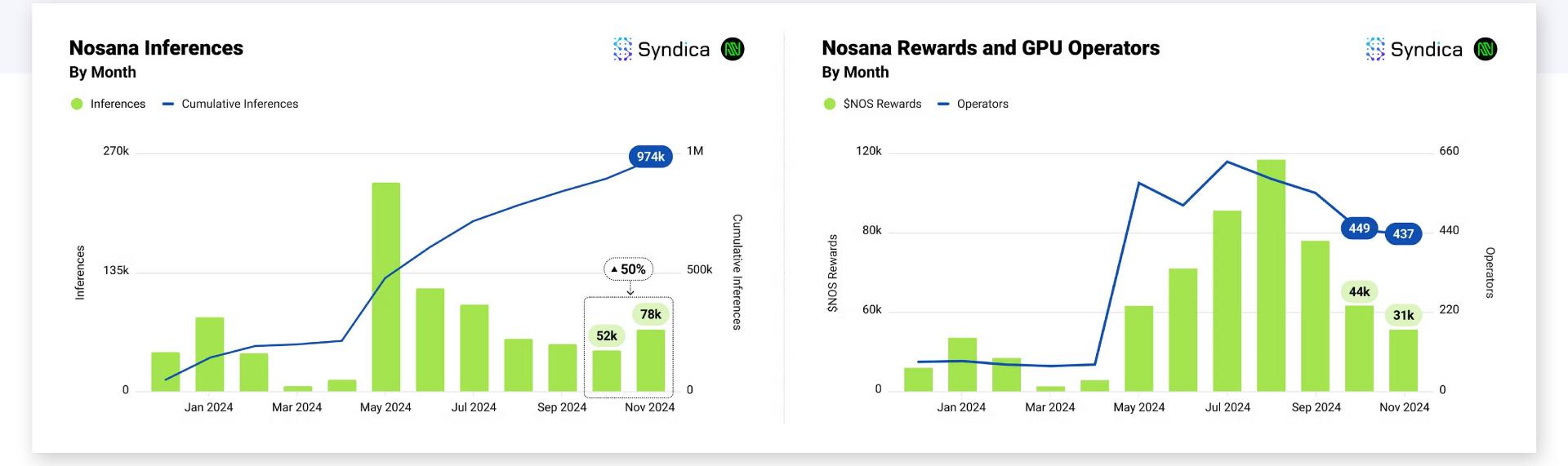
//Deep Dive: Compute, Data & AI //November 2024

Note: Revenue is based on \$RENDER tokens used for compute work.



Nosana inferences reversed a five-month downtrend.

Monthly inferences grew by 50% despite active GPU operators and \$NOS rewards declining slightly.

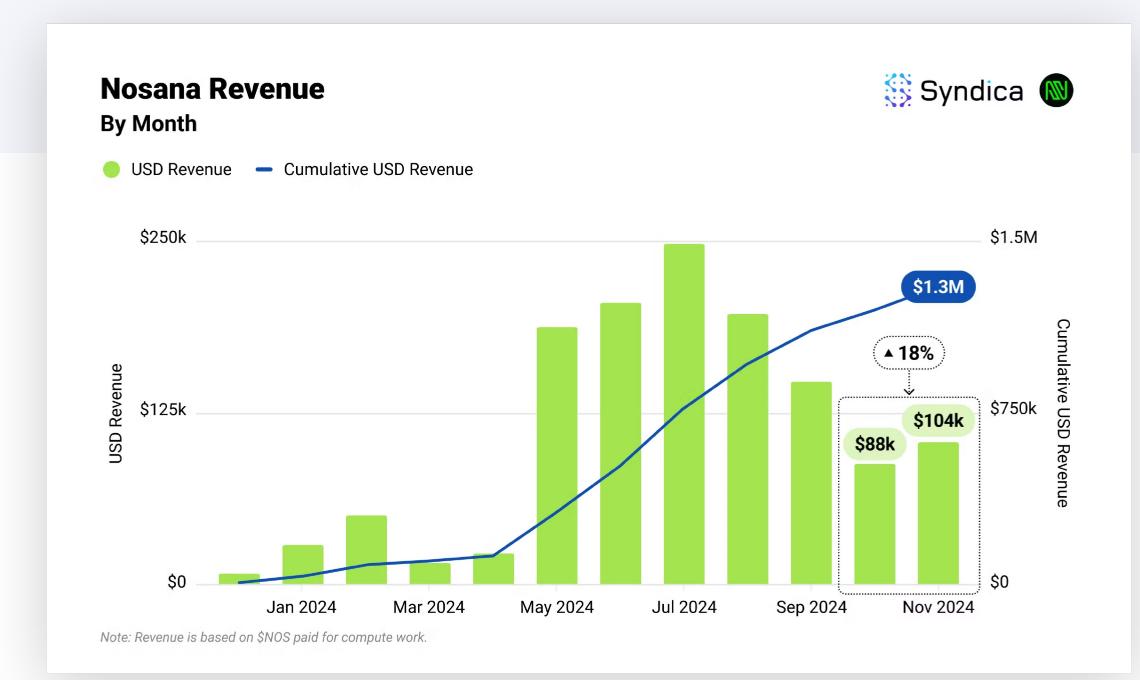


//Deep Dive: Compute, Data & AI //November 2024



Nosana revenue is back on the rise.

The increase in inferences pushed Nosana's revenue up 18%.



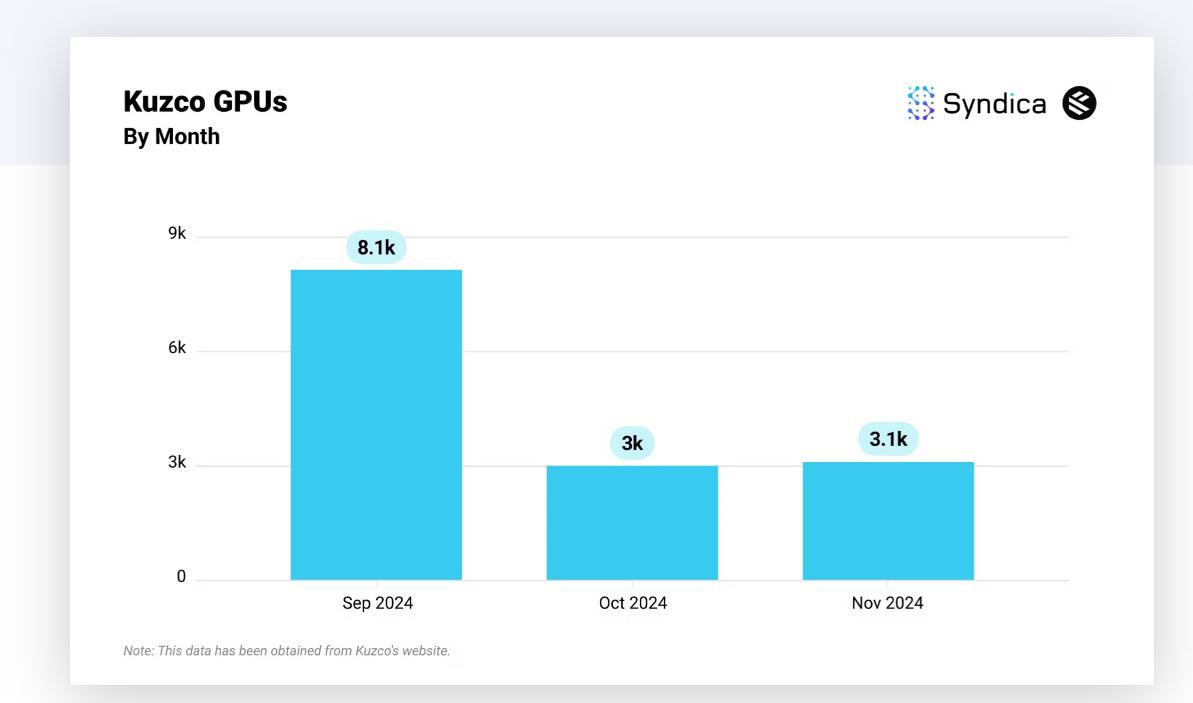
//Deep Dive: Compute, Data & AI //November 2024

Note: Revenue is based on \$NOS paid for compute work.



Kuzco's GPU supply has stabilized.

Kuzco's epoch one concluded on November 18, and the network remained paused for the remainder of the month.



//Deep Dive: Compute, Data & AI //November 2024
Note: Data has been sourced from Kuzco's website.



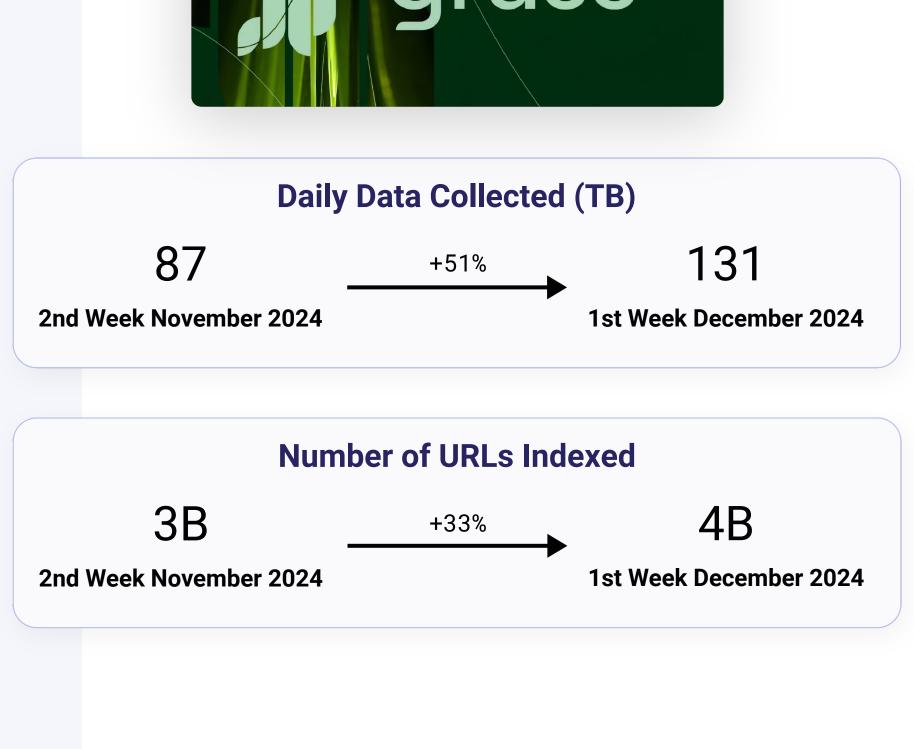
Grass demonstrated impressive growth in data collection.

Grass is now collecting 131TB of data per day, highlighting its robust data collection capabilities.

The network's scale continues to grow, as reflected in its progress from November to December.

Note: This data has been obtained from Grass Foundation's website and includes December data.

//Deep Dive: Compute, Data & AI //November 2024



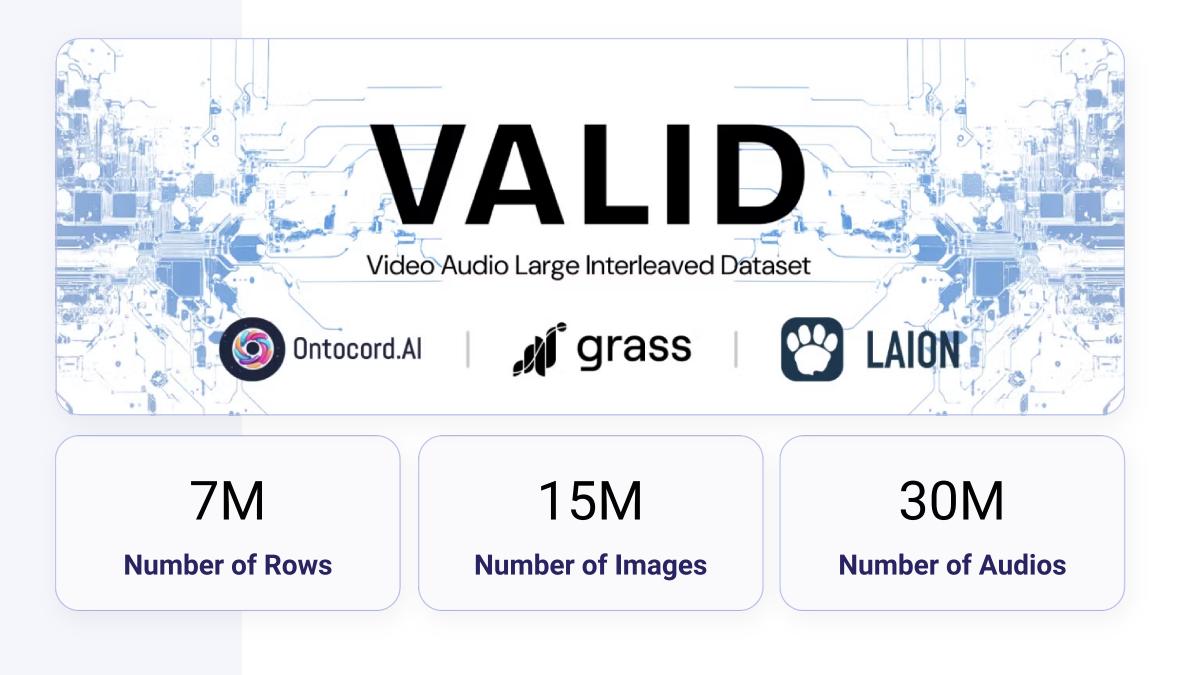




Grass released the first video-audio interleaved dataset called VALID.

The dataset is designed to handle multiple modalities (audio, visual and textual) simultaneously.

This is crucial for training machine learning models in tasks such as multimodal learning.



Note: This data has been obtained from Grass' Twitter.

//Deep Dive: Compute, Data & AI //November 2024



Part IV Energy

// November 2024





Srcful gateways continue to proliferate.

Installed gateways increased by 55% in November.

Despite the increase in devices, power production continued to decline, reflecting seasonality.

Srcful Power Production and Gateways By Month Power (kWh) Active Gateways 60k 48k Power (kWh) 36k 24k 12k Mar 2024 May 2024

Note: This data has been obtained from the Srcful API.

Note: This data has been obtained from the Srcful API.

//Deep Dive: Mapping //November 2024

