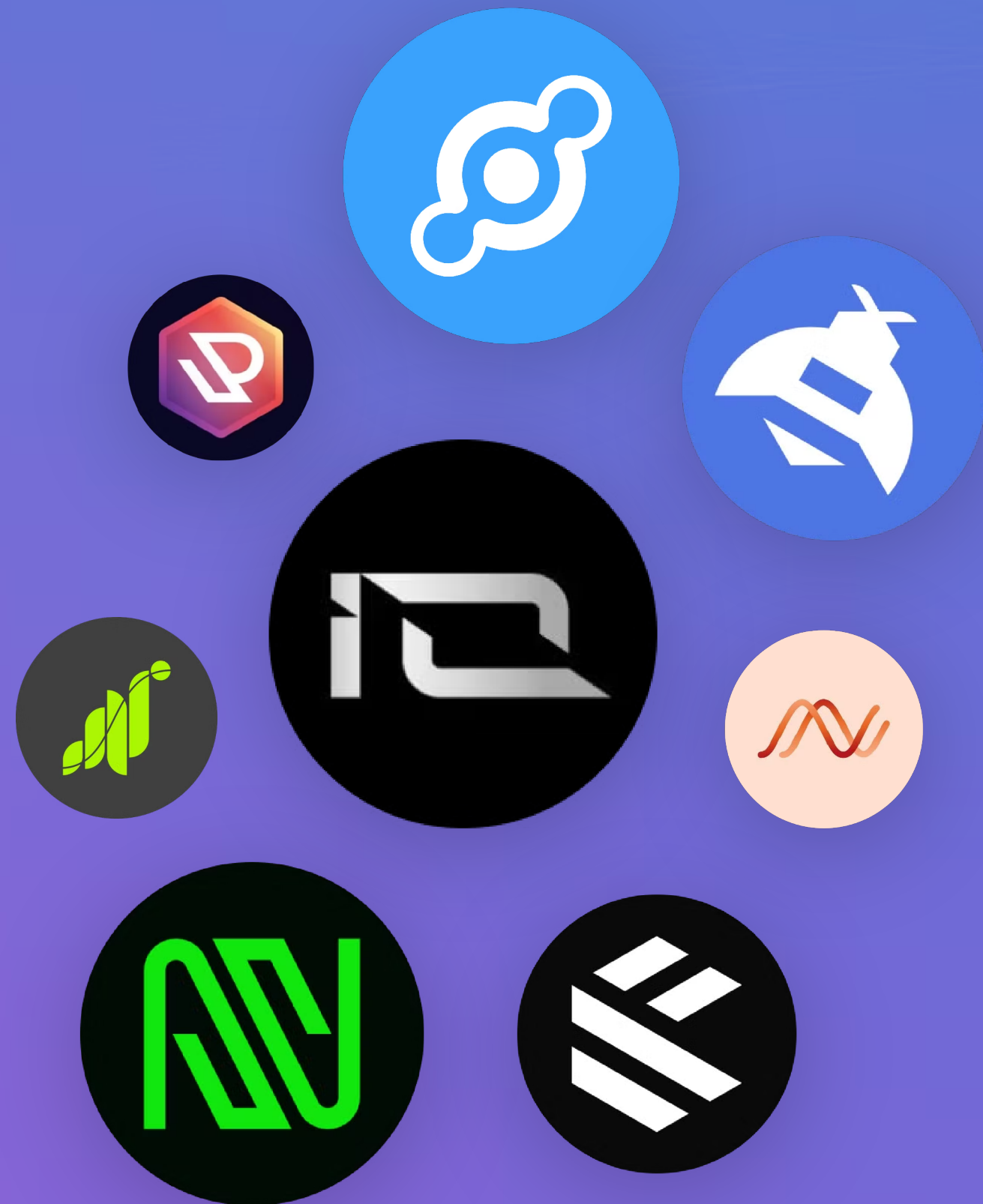




Deep Dive: Solana DePIN

// August 2024

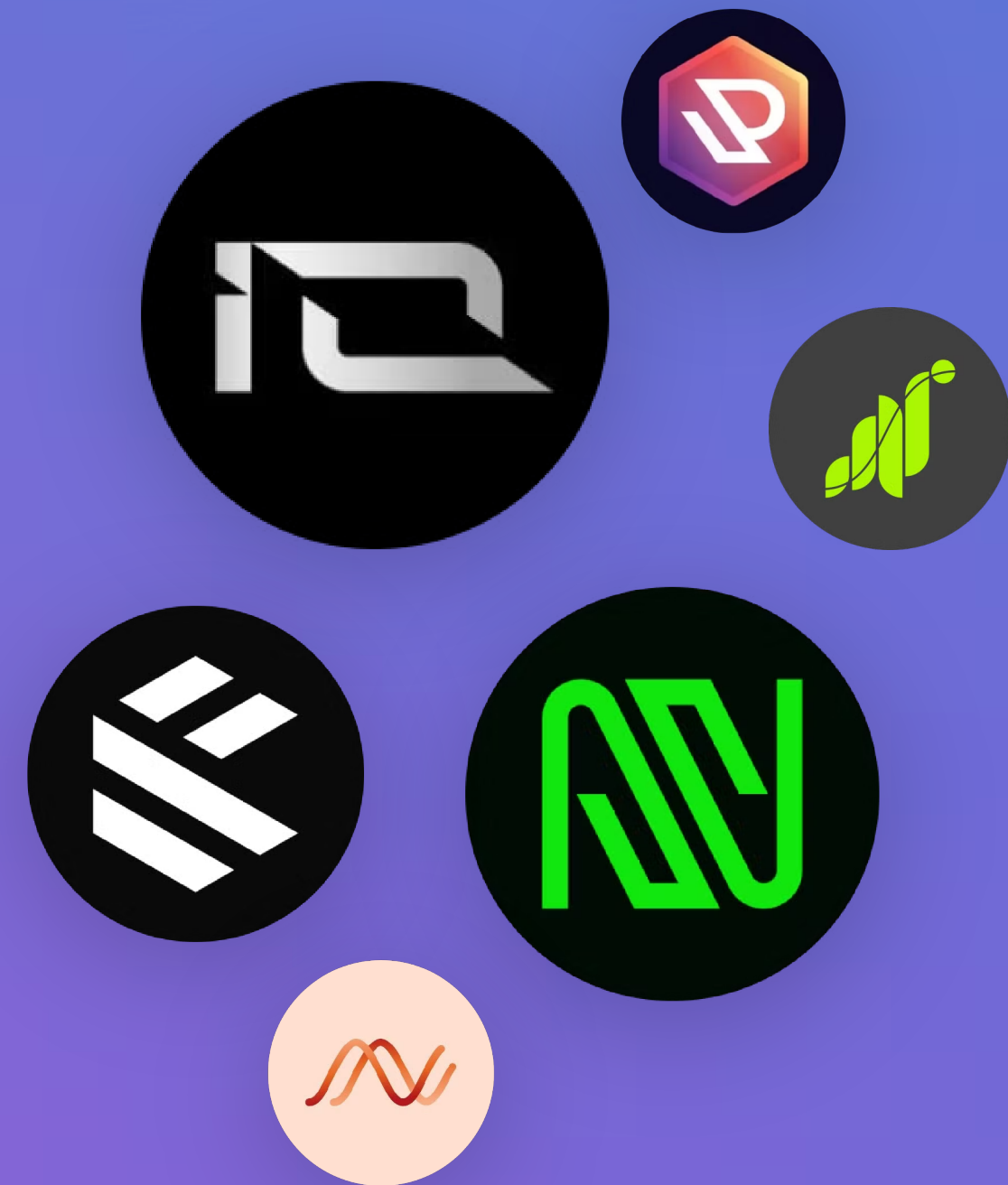




Part I

Solana AI, Compute, & Data

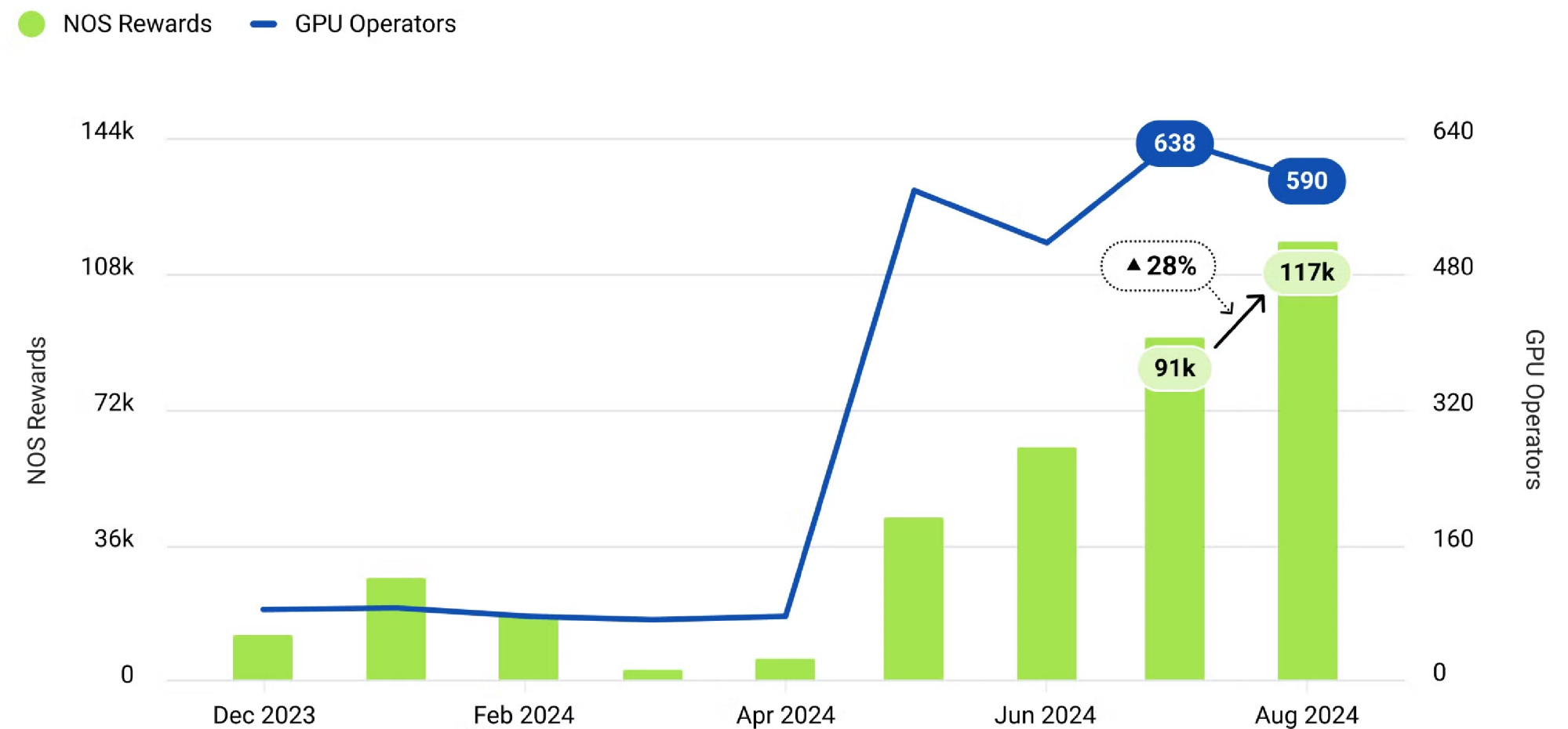
// August 2024



Nosana's rewards program shows no signs of slowing down.

Despite a slight decrease in active GPU operators, Nosana gave out 28% more \$NOS rewards in August.

Nosana Rewards and GPU Operations By Month

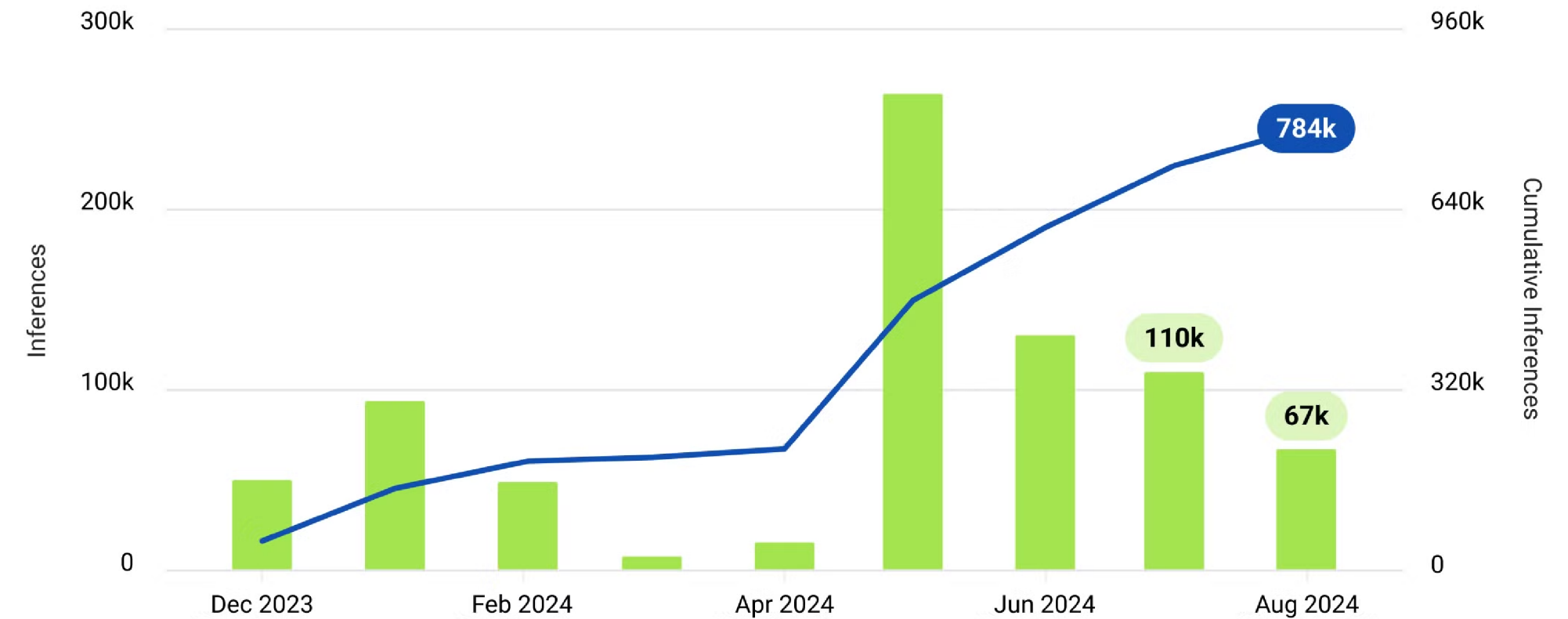


Nosana inferences are on a four-month slide.

Although the Nosana team is internally running these inferences, this downtrend may signal a decreased need for stress testing and a shift in focus toward Large Language Model tasks.

Nosana Inferences By Month

● Inferences — Cumulative Inferences



Note: Inference count has been obtained on-chain even though Nosana is still in beta phase.

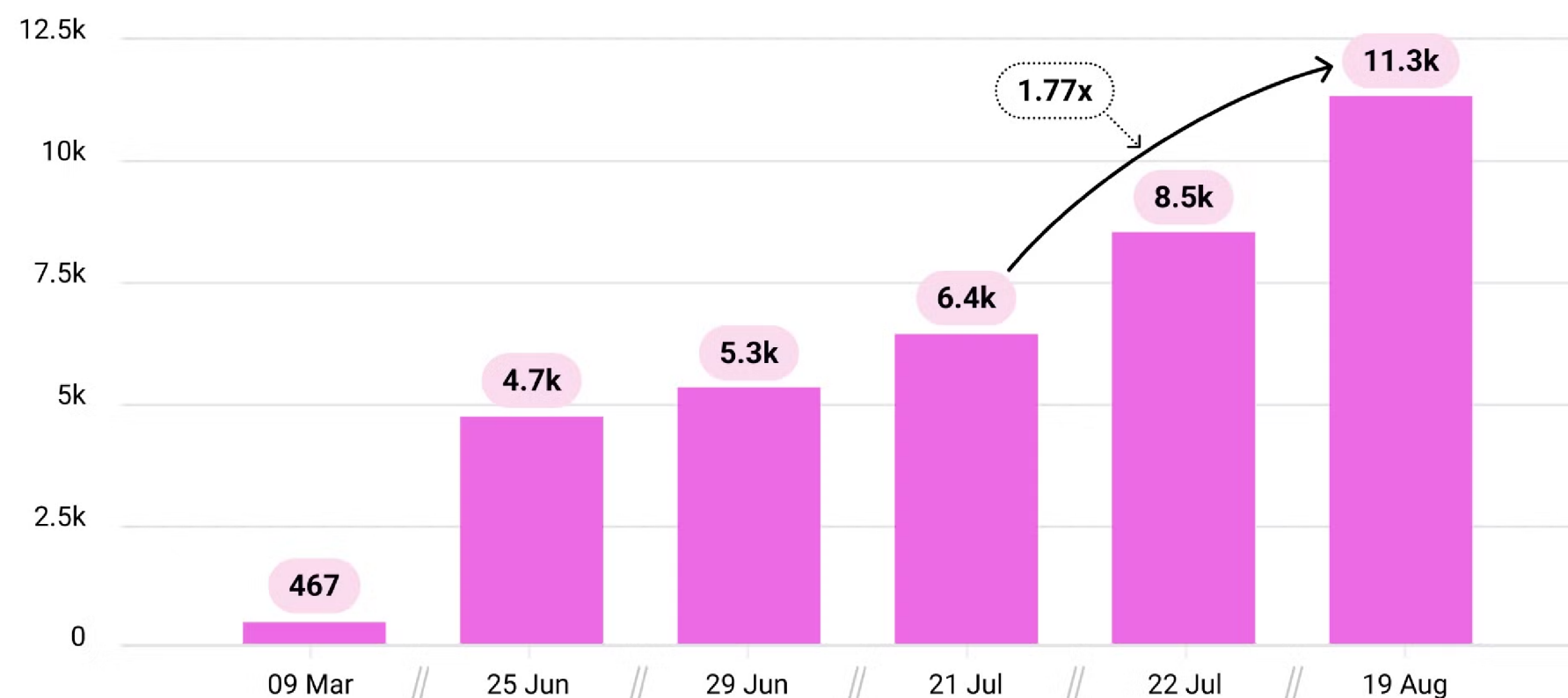
Kuzco has attracted an impressive supply of GPUs in a short time.

Developers can use Kuzco GPUs to run inferences. The higher the supply of GPUs, the lower the cost for inference.

Kuzco GPU supply almost doubled in just one month, signaling that the cost of inferences through the network is decreasing.

Kuzco Online GPU Workers

By Day



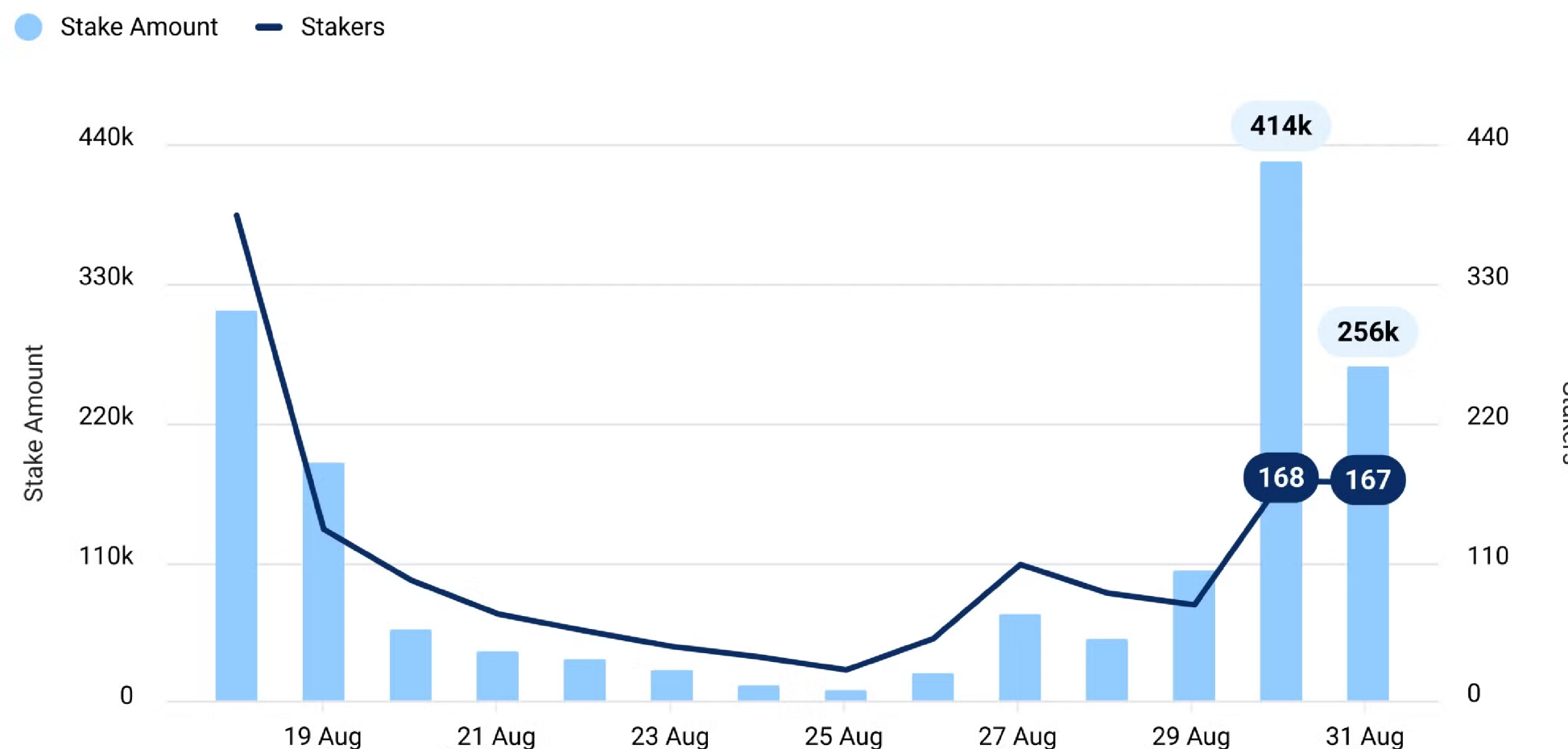
Note: This data has been obtained from Kuzco's Twitter updates.

Interest in \$10 staking bounced back a week after launch.

Staking launched on Aug 18th, and io.net enforced staking requirements for CPU/GPU providers.

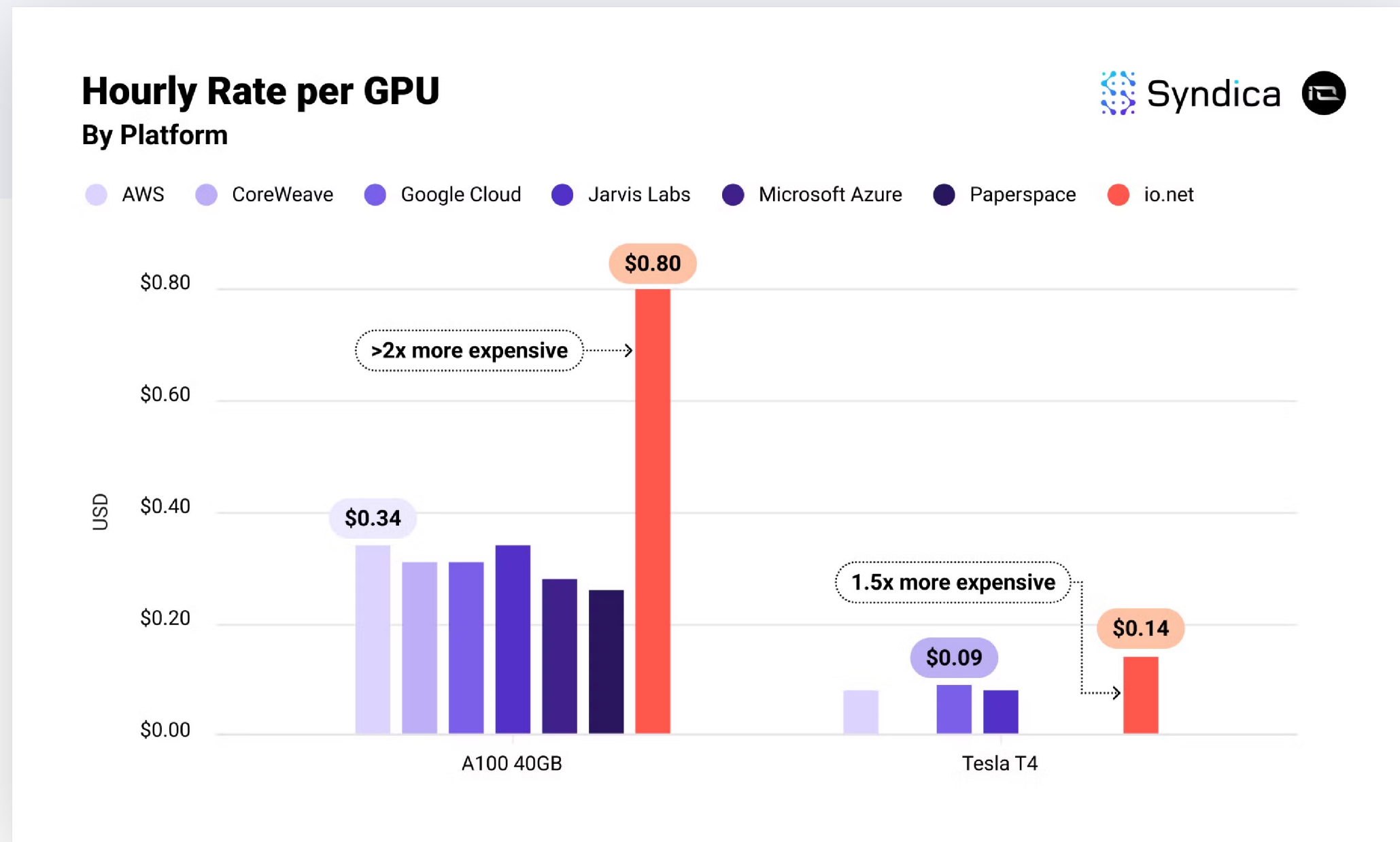
The end-of-August spike is attributed to providers staking in order to meet the minimum requirement.

\$10 Stake Amount and Stakers By Day



io.net's GPU prices are not yet competitive.

Compared to its Web2 counterparts, io.net's pricing based on A100 40GB and T4 GPUs are at least 1.5x more expensive.



Note: Data has been sourced from Paperspace's GPU Cloud comparison table and io.net's platform. Prices are based on a per GPU per hour basis.

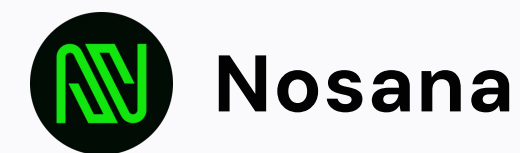
Notable August Developments:



UpRock launched their own LST, uptSOL, through Sanctum, and an \$ORE mining feature for Android devices.



io.net was included in TechCrunch's list of unicorn startups. They also partnered with Leonardo and NetMind.



Nosana hired a specialist AI team to assist in their test grid and create benchmarks.



Grass released their airdrop checker signaling an upcoming token launch.



DAWN, a new trending protocol for providing decentralized broadband, has released their browser extension.



Part II
Wireless

// August 2024

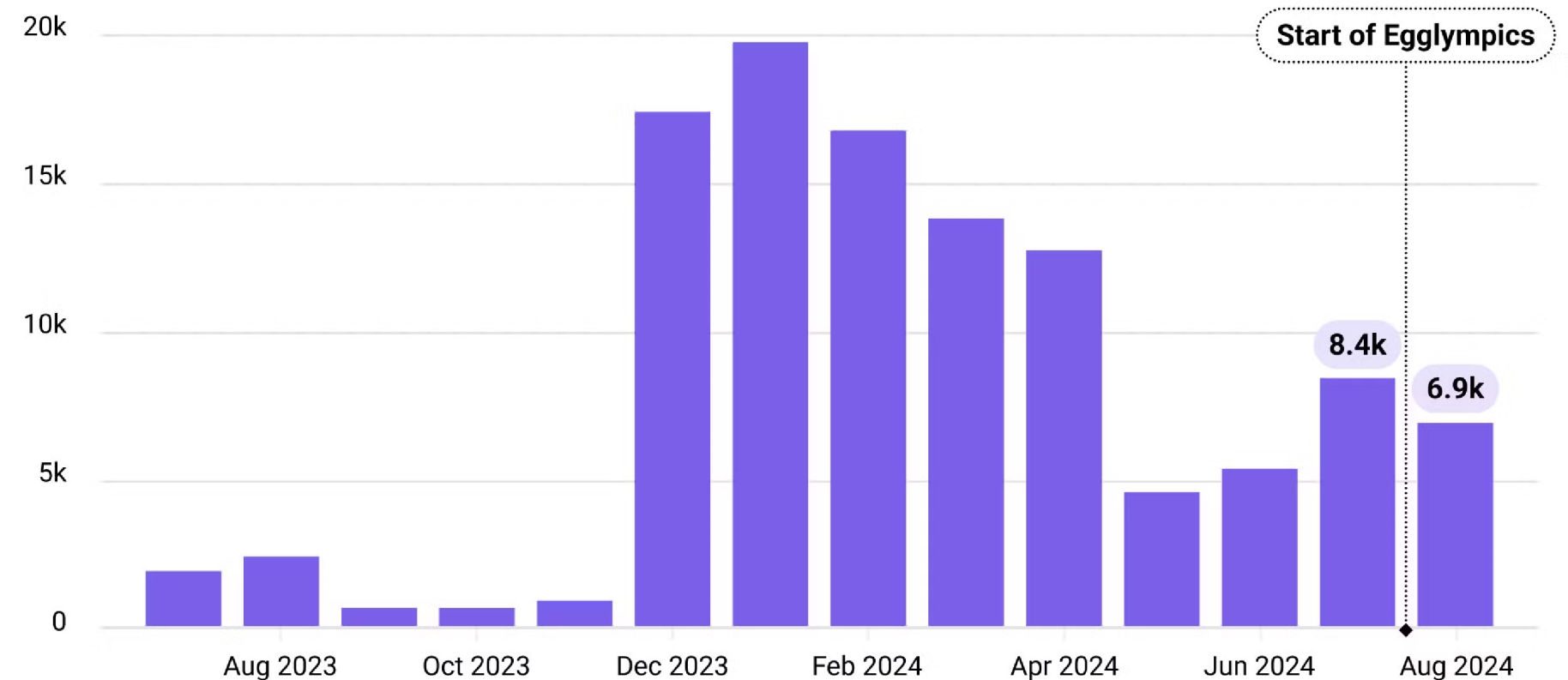


Helium Mobile's Egglympics campaign failed to meaningfully boost new subscribers.

Helium launched Egglympics at the start of August, a campaign where you earn 10k \$MOBILE for referring a friend to the unlimited plan.

New August subscribers were less than July.

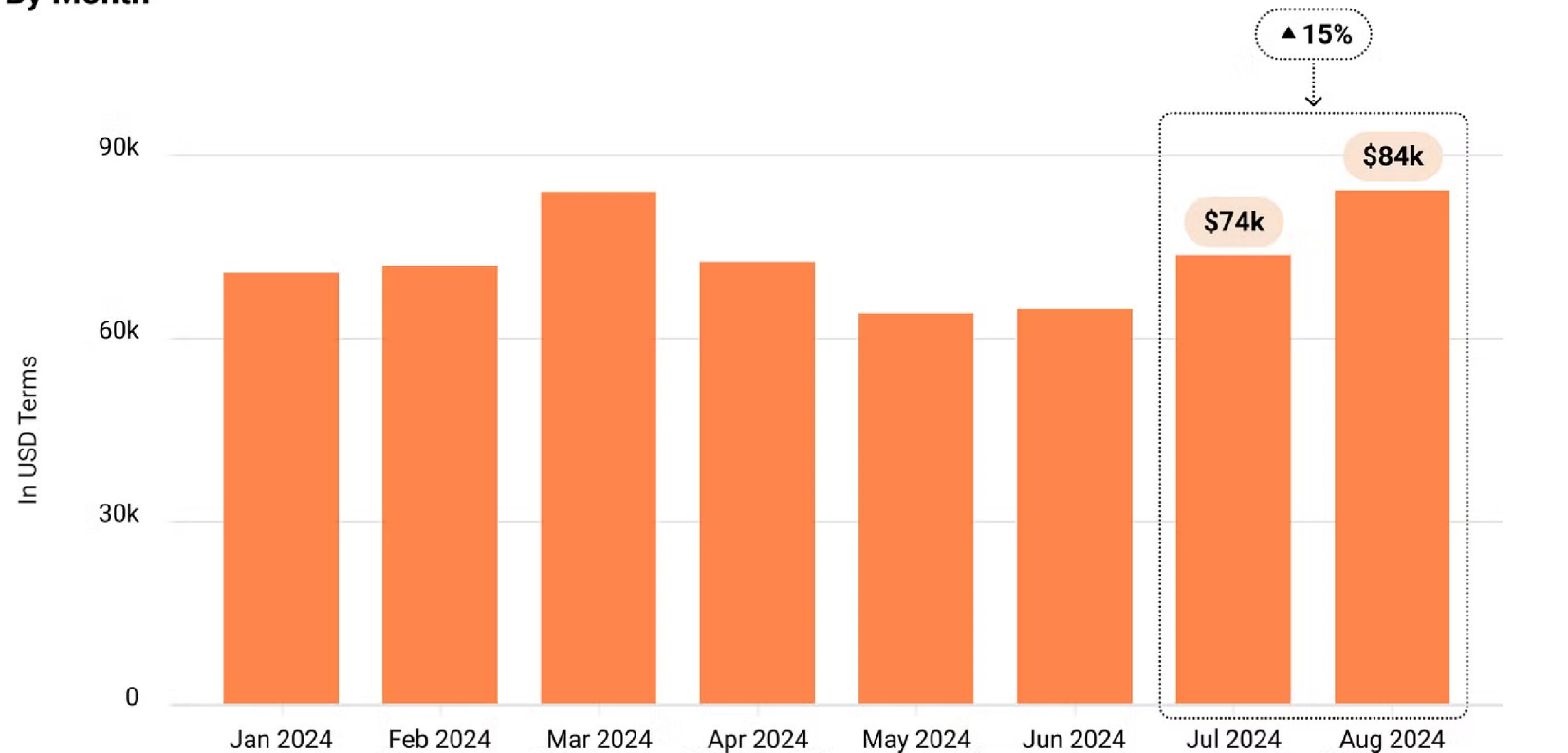
Helium Mobile New Subscribers
By Month



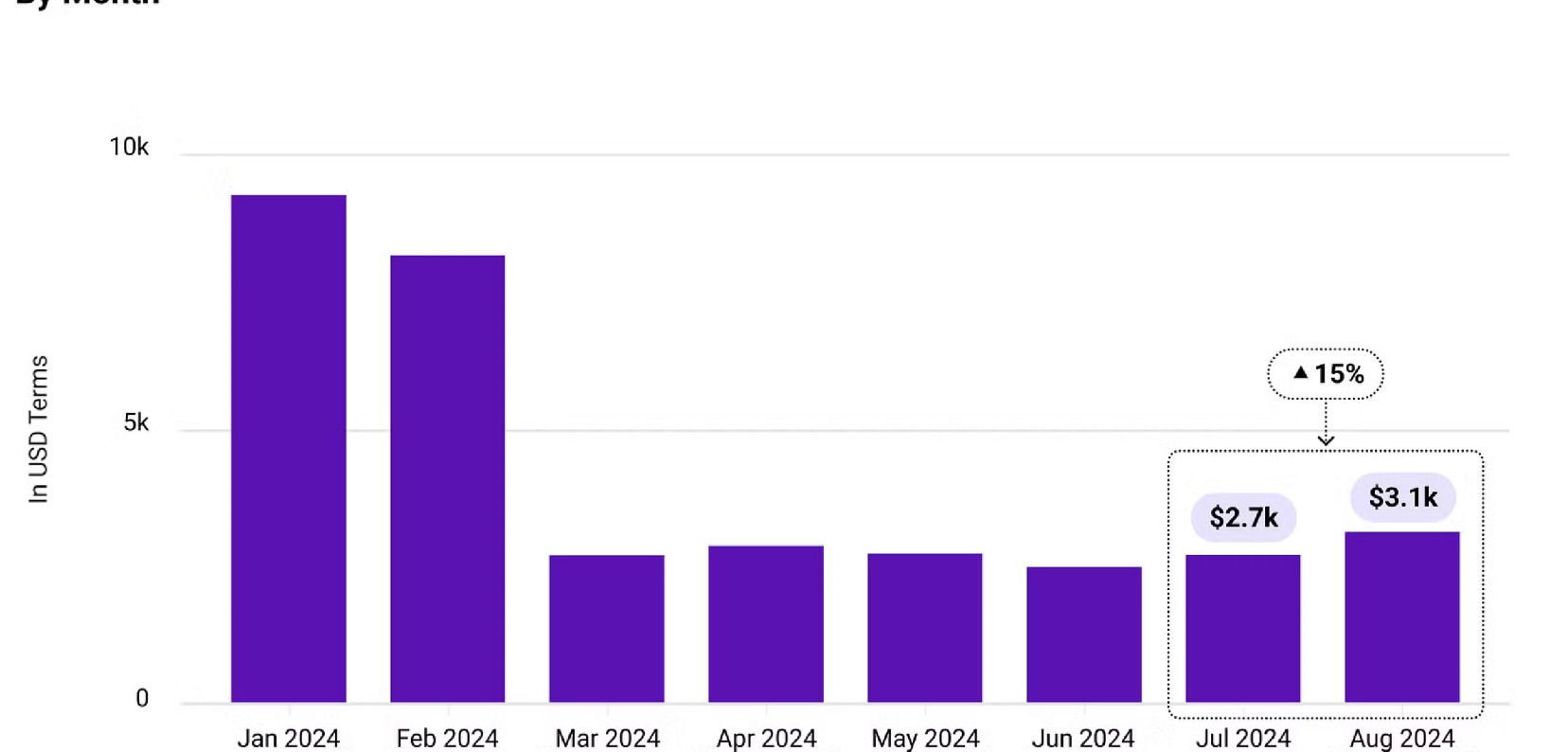
Demand for both Helium networks continues to grow.

Demand, measured by data credits burned, for both Mobile and IoT increased by 15% each in August.

Helium Mobile Data Credits Burned By Month



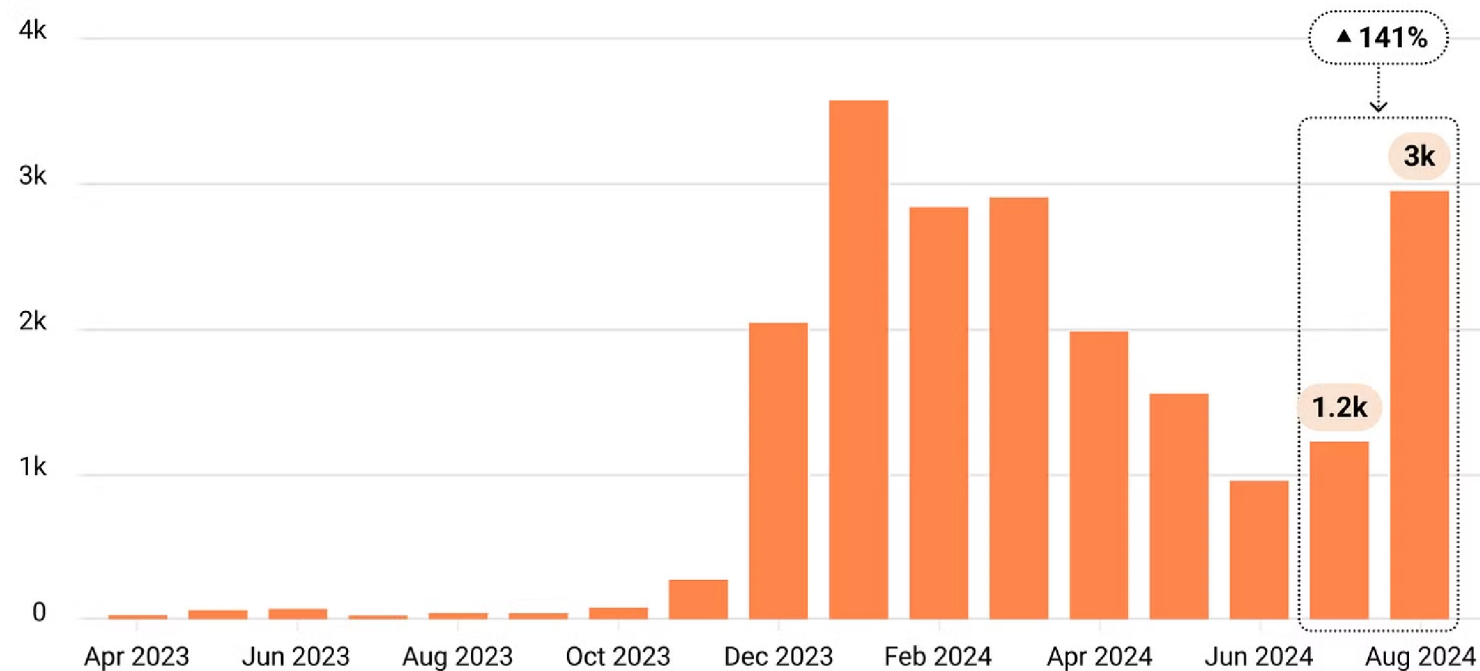
Helium IoT Data Credits Burned By Month



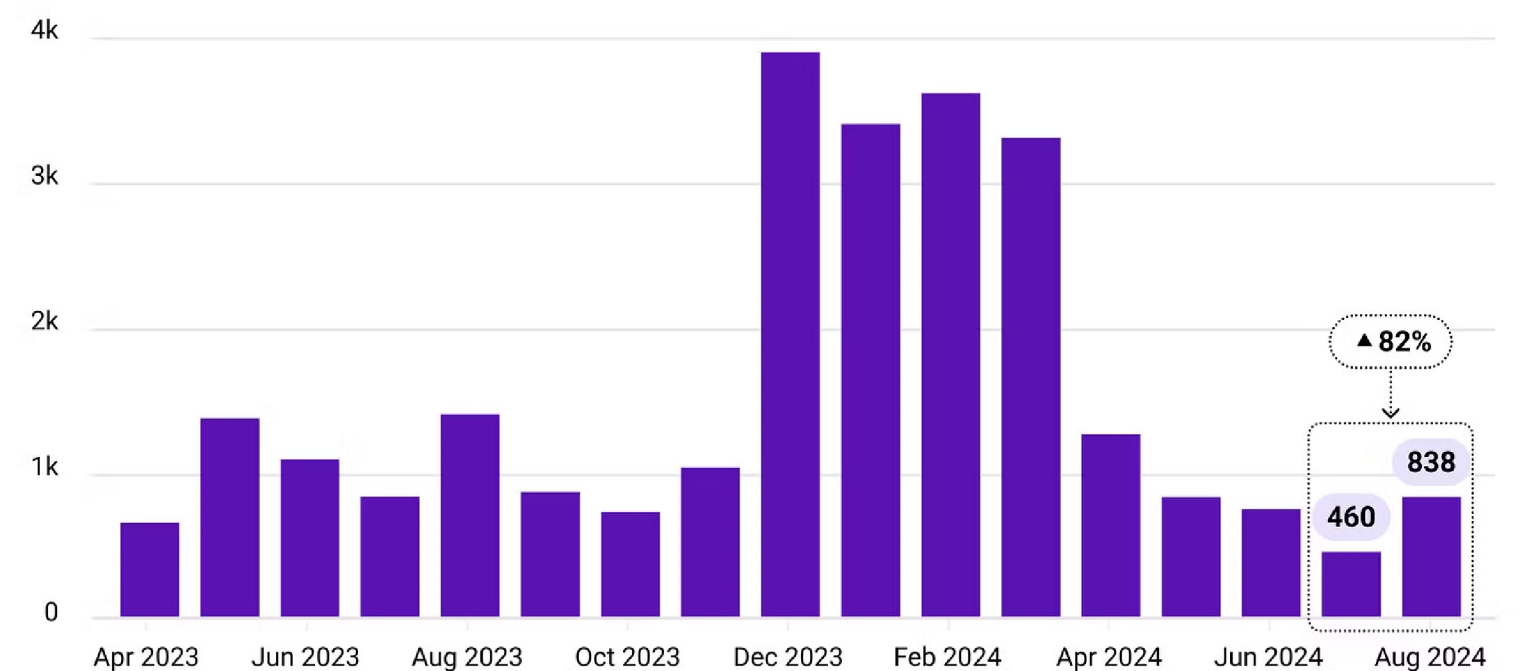
Helium Mobile surged in new hotspots, mirroring winter highs.

IoT also experienced an 82% increase in new hotspots in August.

Helium New Hotspots Onboarded (Mobile)
By Month



Helium New Hotspots Onboarded (IoT)
By Month



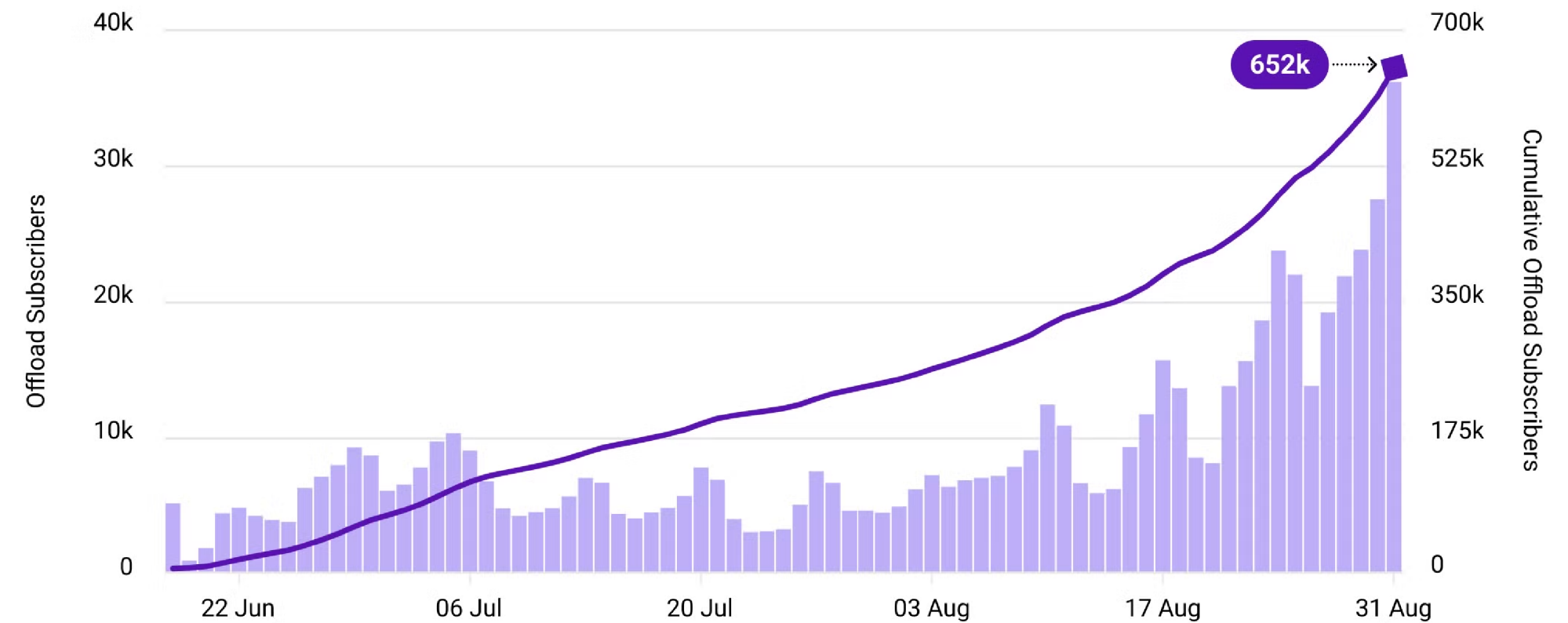
Daily offload subscribers on Helium Mobile are growing exponentially.

Offload subscribers are users of other carriers that connected to Helium Mobile hotspots.

Helium Offload Subscribers

By Day

● Offload Subscribers — Cumulative Offload Subscribers



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

//Deep Dive: Wireless //August 2024

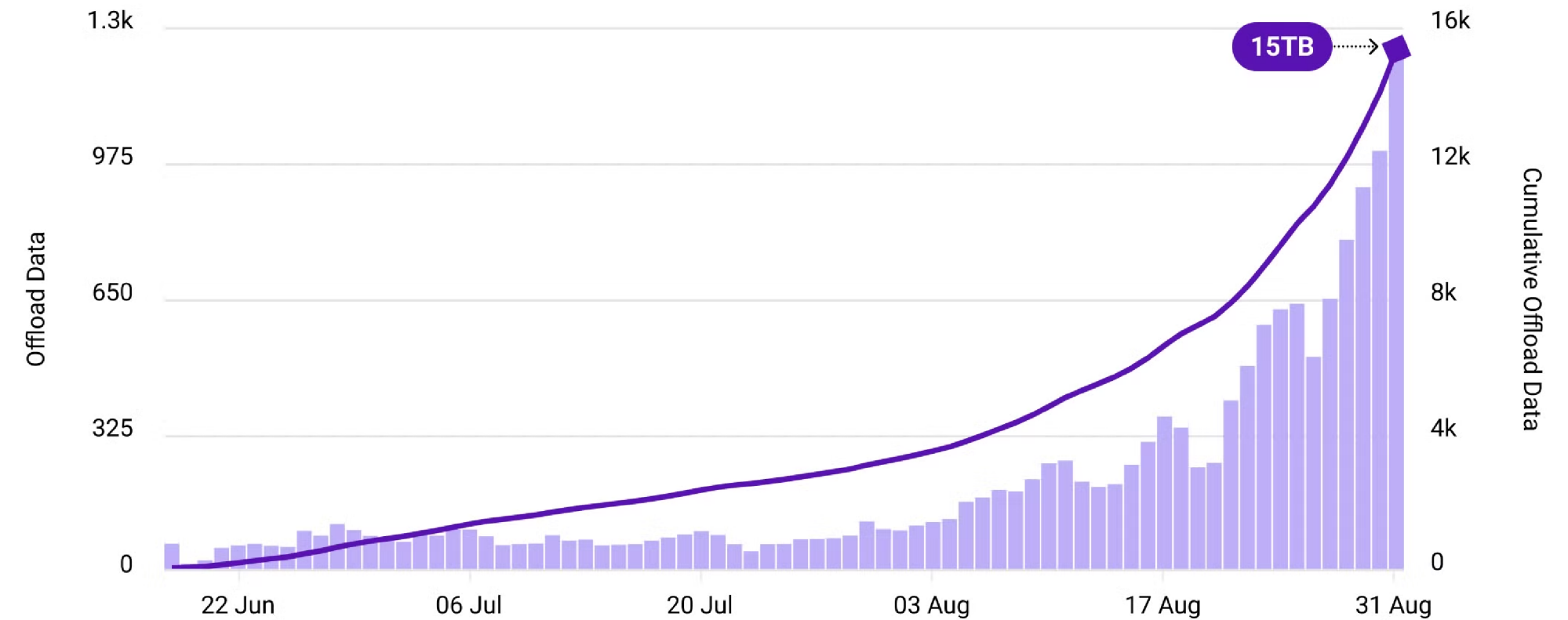
External subscribers transferred over 15 TB of offload data through Helium in just two months.

Offload data is data transferred by subscribers from other carriers through Helium.

Since launching the Carrier Offload beta program in June, Helium's offload data has been growing rapidly.

Helium Offload Data in GB By Day

● Offload Data — Cumulative Offload Data



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

//Deep Dive: Wireless //August 2024

The utility of Helium hotspots has remained consistent.

Helium has slowly been allowing more hotspots to serve offload subscribers.

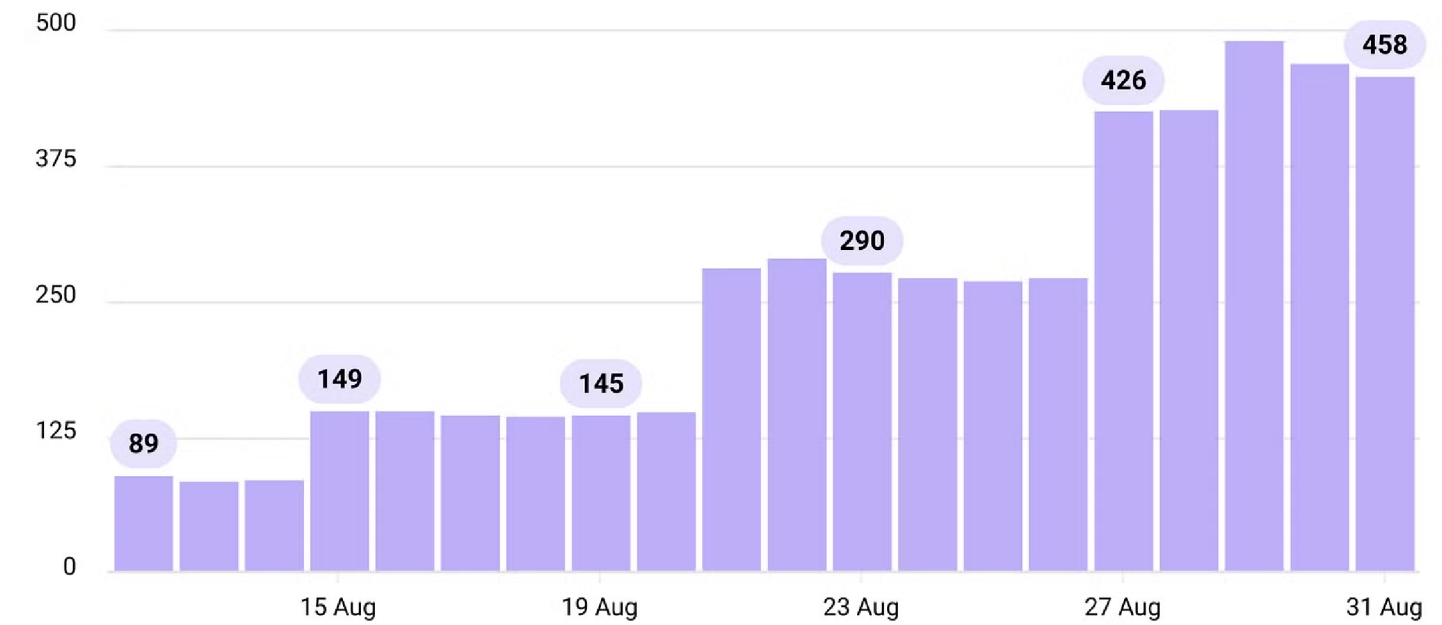
A single hotspot has served more than 70 customers throughout August.

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

//Deep Dive: Wireless //August 2024

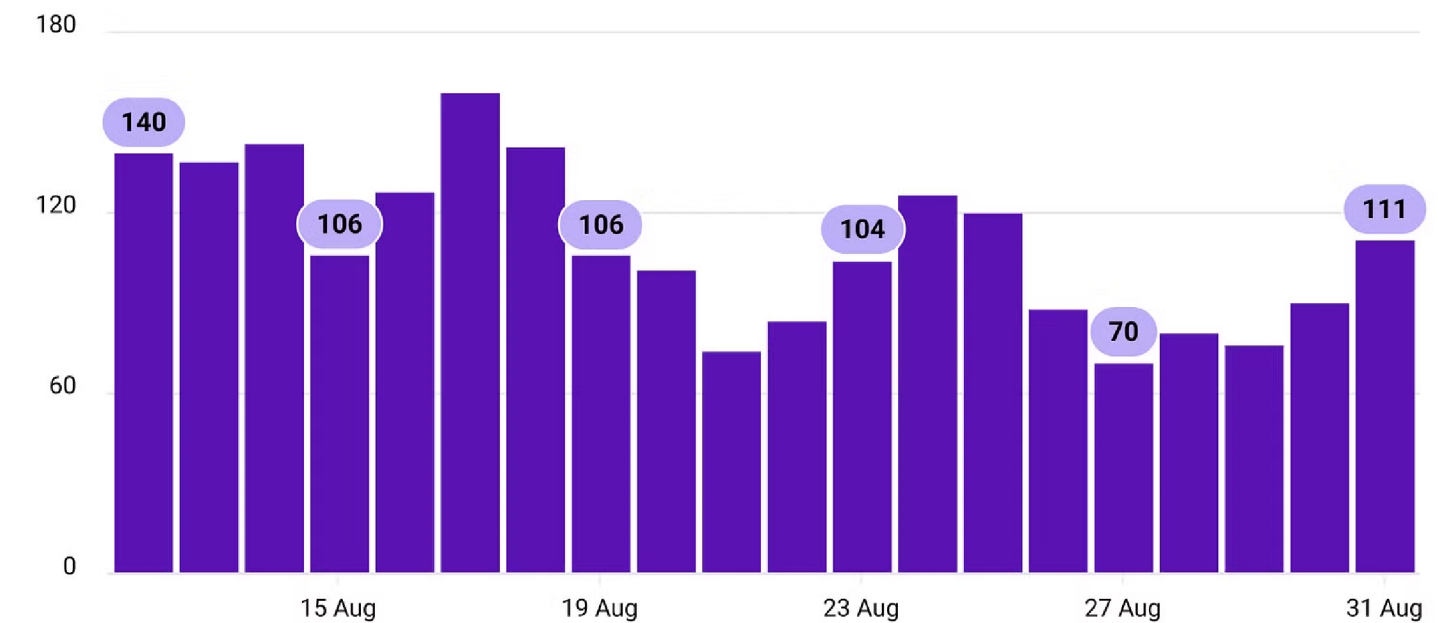
Helium Offload Data Hotspots

By Day



Helium Offload Subscribers per Hotspot

By Day





Part III
Mapping

// August 2024

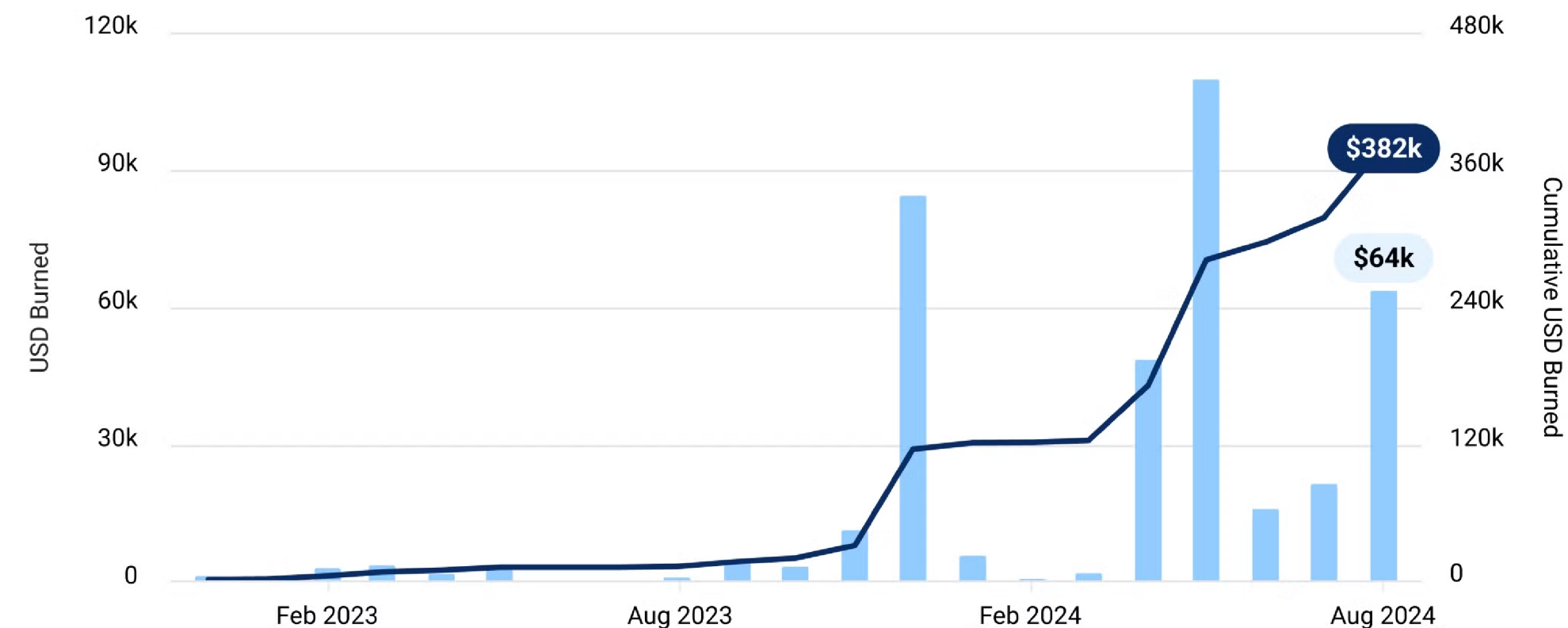


Riding momentum, Hivemapper demand spiked again in August.

In the past 5 months, Hivemapper has seen consistent demand for map data with the protocol burning thousands of dollars worth of \$HONEY each month.

Hivemapper USD Burned By Month

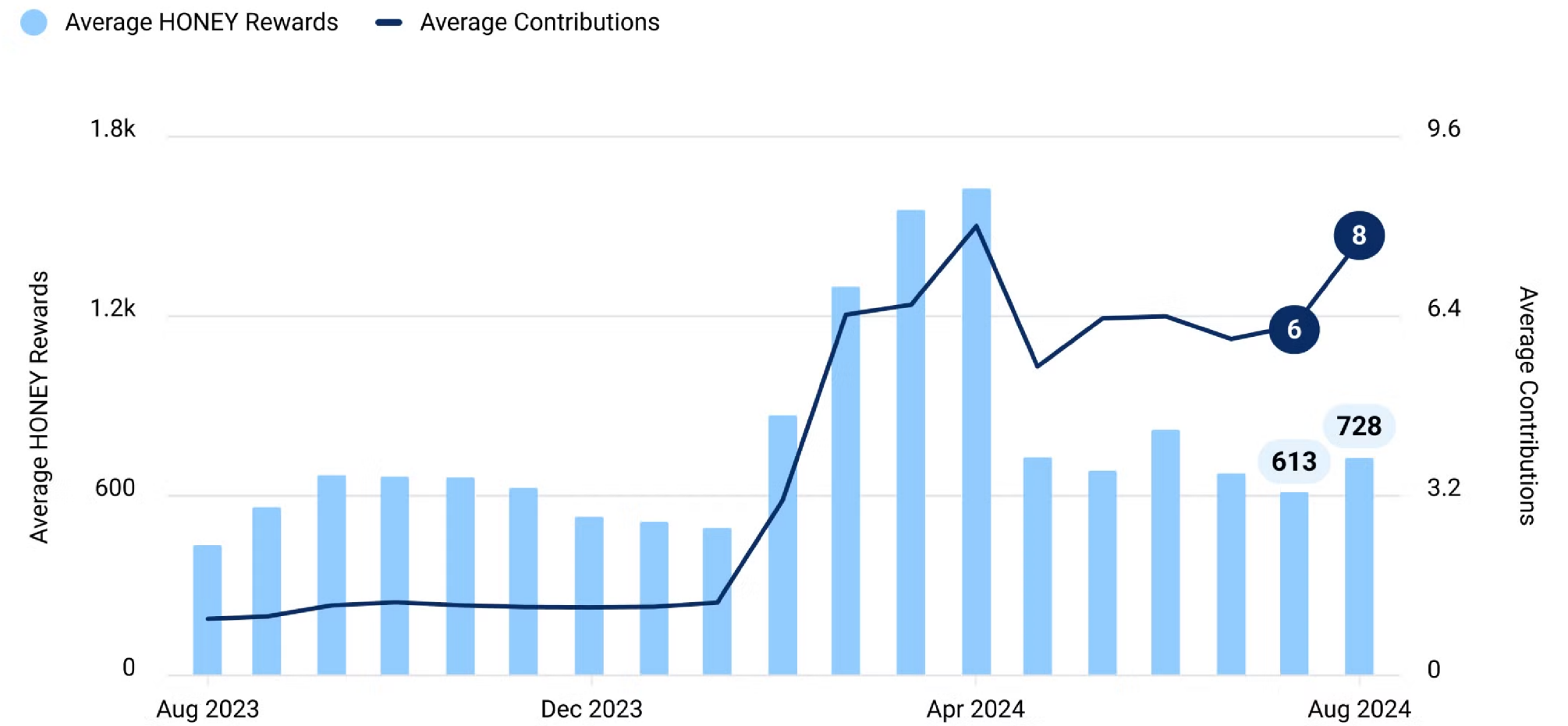
● USD Burned — Cumulative USD Burned



Hivemapper contributors became more active in August.

Contributions and \$HONEY rewards per contributor both increased.

Hivemapper Rewards and Contributors By Month



Hivemapper retention rate is continuously improving after March lows.

Since March 2024, the retention rate for the 1 to 4 month range has been increasing.

Hivemapper Contributors Retention Table

Month Started	New Contributors	1 month	2 months	3 months	4 months	5 months	6 months	7 months
Jan 2024	14k	76%	64%	58%	52%	41%	36%	33%
Feb 2024	13k	59%	37%	26%	14%	12%	11%	
Mar 2024	27k	28%	14%	8%	6%	6%		
Apr 2024	9k	48%	22%	18%	12%			
May 2024	4k	57%	46%	32%				
Jun 2024	2k	58%	46%					
Jul 2024	2k	67%						
Aug 2024	2k							
Average Retention		54%	38%	28%	21%	20%	24%	33%