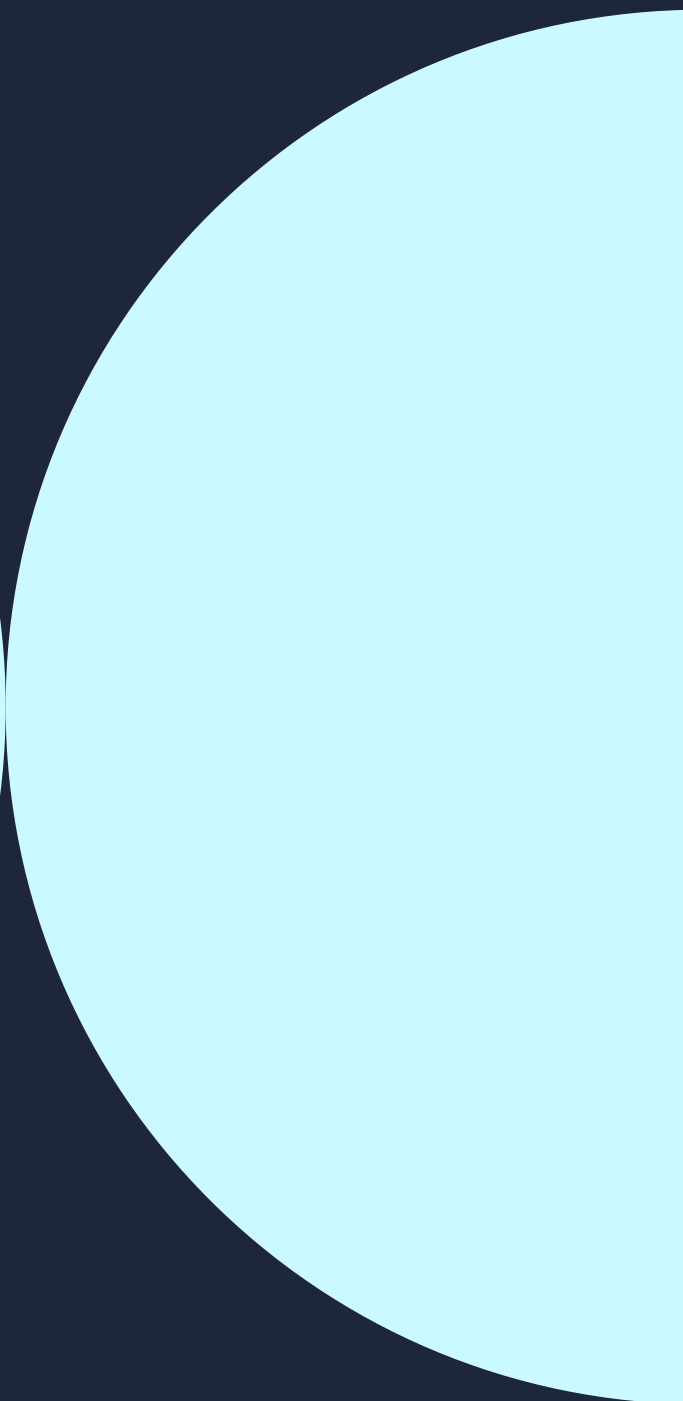
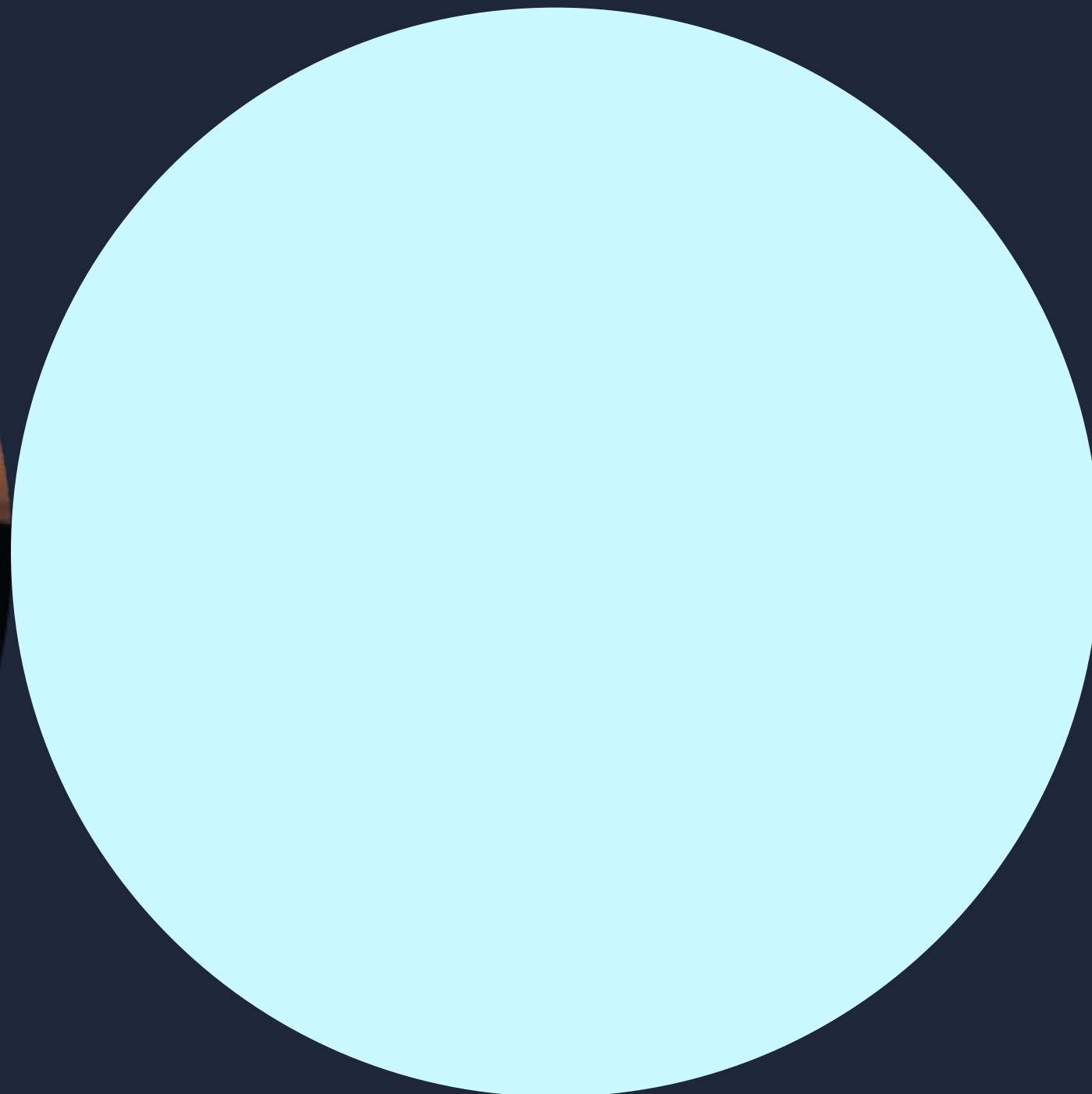




Nodle Network roadmap 2023



Nodle Network 10-year roadmap

Timeline

The Nodle Network has a 4-phase journey toward full decentralization

Phase 1
2017-2022

Phase 2
2022-2025

Phase 3
2025-2028

Phase 4
2028→∞

Network launch

Network
growth

Usage growth

Network maturity

Decentralized
Nodle Chain

Decentralized apps

Decentralized oracle
and governance

Full decentralization
with the DAO

First release of SDK
and Cash app

New VM capabilities

Developer ecosystem

Fully open service
marketplace

Phase 1. 2017-2022

Network launch, with a centralized infrastructure

Phase 1 started the Nodle network, released the first versions of all components, and onboarded early adopters.

The focus of the first phase was to:

1. Launch the Nodle Network with its public blockchain.
2. Deliver a first iteration of the Nodle SDK.
3. Release the first version of the Nodle App.
4. Onboard the first set of Nodle Network consumers that would start using the Nodle Network capabilities. In the first phase, many components are still fairly centralized.

Phase 2. 2022-2025

Network growth, with a few decentralized apps

Nodle Chain security

To increase the security of the Nodle Network, the validator program is open to a select number of partners and the Nodle project participates in the Polkadot parachain auction with a crowdloan.

NODL token listing


During Phase 2, the NODL token should be listed in one or multiple centralized exchanges, which will allow consumers of the network to procure the services it provides.

Nodle app

The Nodle app will be used to increase network coverage by incentivizing users to move to areas that have no coverage or are poorly covered. This will be done through gamification and an improved rewards system. The Nodle app will be regularly updated and useful features added for the end user, increasing transparency and updating how users earn NODL tokens.

Roadmap Phase 2. 2023

Glossary

NAME	DEFINITIONS	DETAILS	PROBABILITY TO GO TO MARKET	PROBABILITY TO GO TO MARKET ON TIME
 Execution Committed	The feature has been approved to be developed	The exec team has approved resources to complete the development of the feature	High	High
 Concept Committed	The feature has completed a business case, or a study and most product and market requirements have been defined	The exec team has approved resources to complete the product and market requirements, functional specifications, development and implementation plan, and perform any technical feasibility studies	Medium-High	Medium
 On the Radar	The feature has been identified as a potential future feature	A management team has prioritized the feature and decided we will spend additional resources to determine if it is technically feasible and fits within the product strategy	Medium	Medium

Executive summary

	Q1	Q2	Q3	Q4
Nodle App	<ul style="list-style-type: none"> ✔ Photo NFT ✔ NFT showcase website ✔ In-app purchase 	<ul style="list-style-type: none"> ✔ NFT social sharing ✔ Contact book ✔ Photo NFT collection ✔ Hotspots ✔ Voucher NFTs ✔ OEM silent mode 	<ul style="list-style-type: none"> ✔ Rewards update ✔ Optimize app configuration ✔ Enhanced map ✔ Smart Missions ✔ Gifting ✔ Places NFTs 	<ul style="list-style-type: none"> ✔ Cloud backup of seed phrase 🕒 NFT tipping 🕒 Buy NODL 🕒 Nodle widgets 🕒 User Missions
Nodle Network			<ul style="list-style-type: none"> ✔ Smart Missions ✔ Network Explorer explorer 	<ul style="list-style-type: none"> ✔ SDK with individual wallet ✔ Mission Developer Platform ✔ Swarmkit
Nodle Chain		<ul style="list-style-type: none"> ✔ XCM Integration 	<ul style="list-style-type: none"> 🕒 Wallet Connect for Nodle Client ✔ Intrinsic NFT 🕒 On-chain NODL bounties ✔ Statemint Integration 	<ul style="list-style-type: none"> ✔ Emergency Shutdown 🕒 BridgeHub Integration ✔ DeFi Integration 🕒 Multi-Assets support

Nodle app Roadmap 2023

Create & contribute

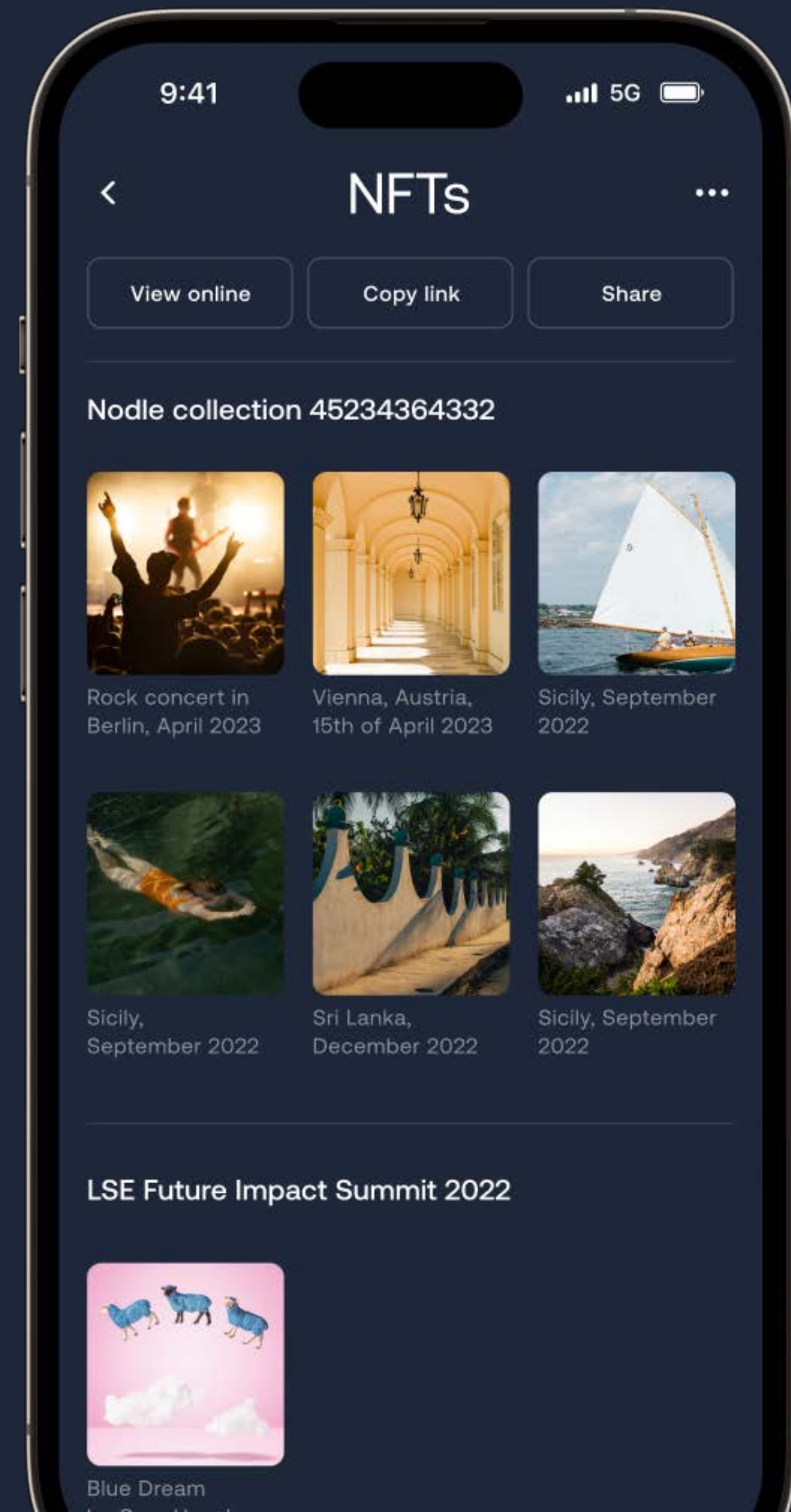
We will introduce a new way to contribute to the Nodle network by creating different types of non-fungible tokens (NFT)



Photo NFT

✓ Execution Committed • Q1 2023

The Nodle app users will be able to mint their own NFTs by taking a photo from the Nodle app, or selecting photos from their library. It is just a couple of clicks to create own unique collection of digital items, which makes NFT minting affordable for anyone.



NFT showcase website

✓ Execution Committed • Q1 2023

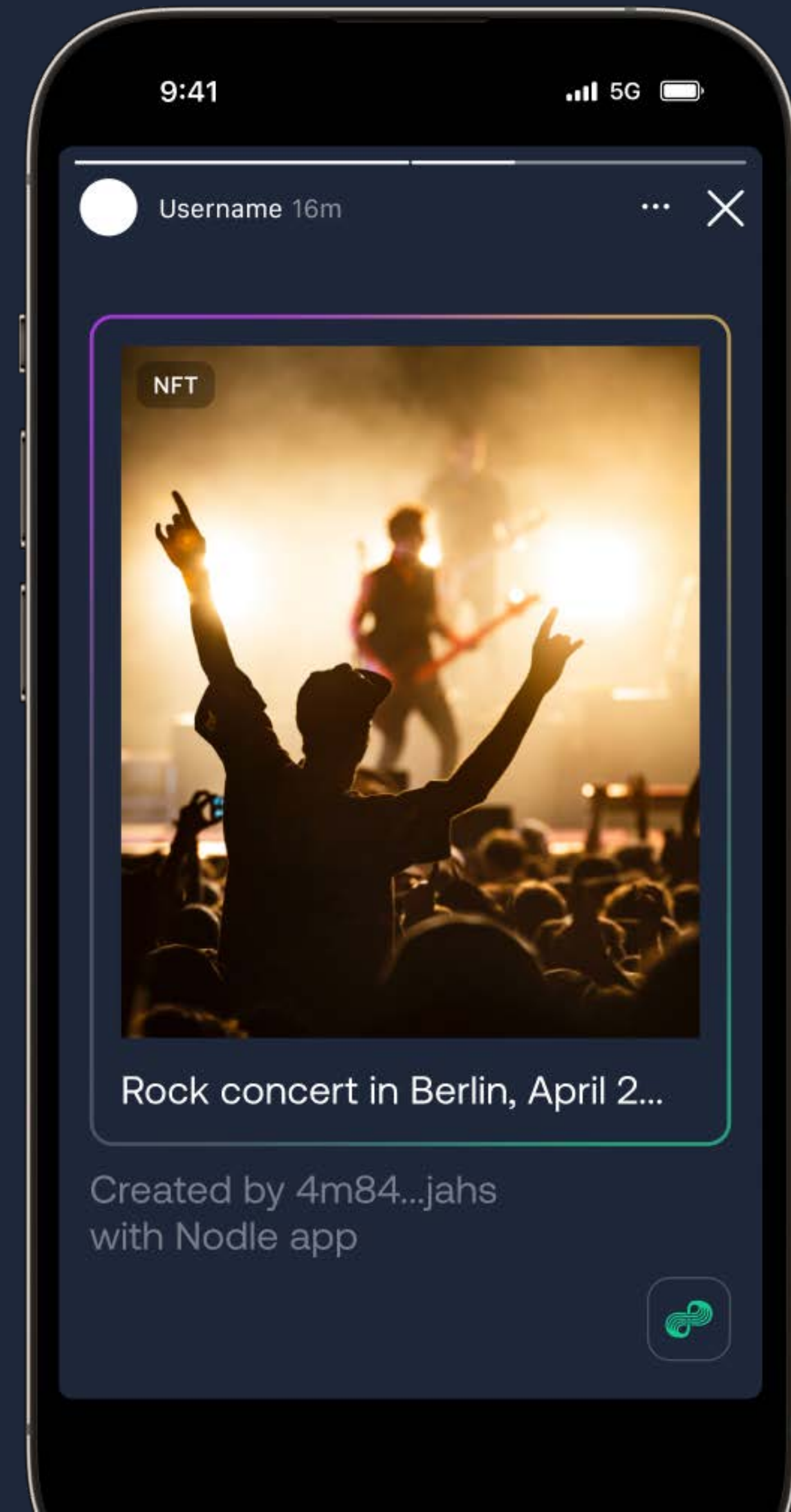
The Nodle app users will be able to share their NFTs with friends, who do not have the Nodle app installed. The recipient will get a link to a webpage, where he can view the NFT shared or even the entire collection created by his friend.



NFT social sharing

✓ Execution Committed • Q2 2023

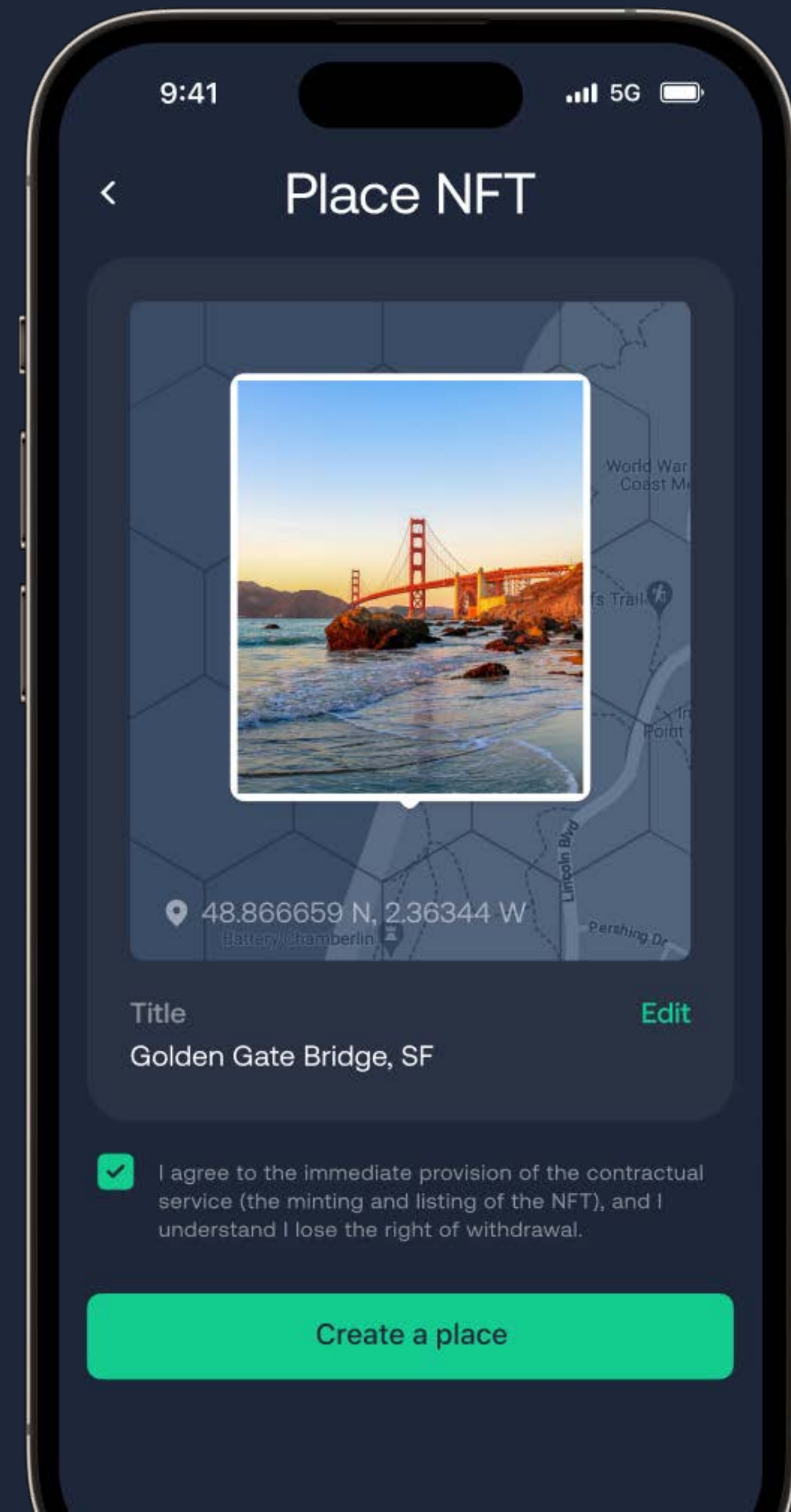
Users will have the possibility to post NFTs to Stories or Feed on Instagram to share with their community and followers.



Places NFT

✓ Concept Committed • Q3 2023

Users will be able to mint special places NFTs, that will be visible on the map. Every user will be able to contribute and build the Nodle map, as well as explore it by viewing places NFTs around.



Earn

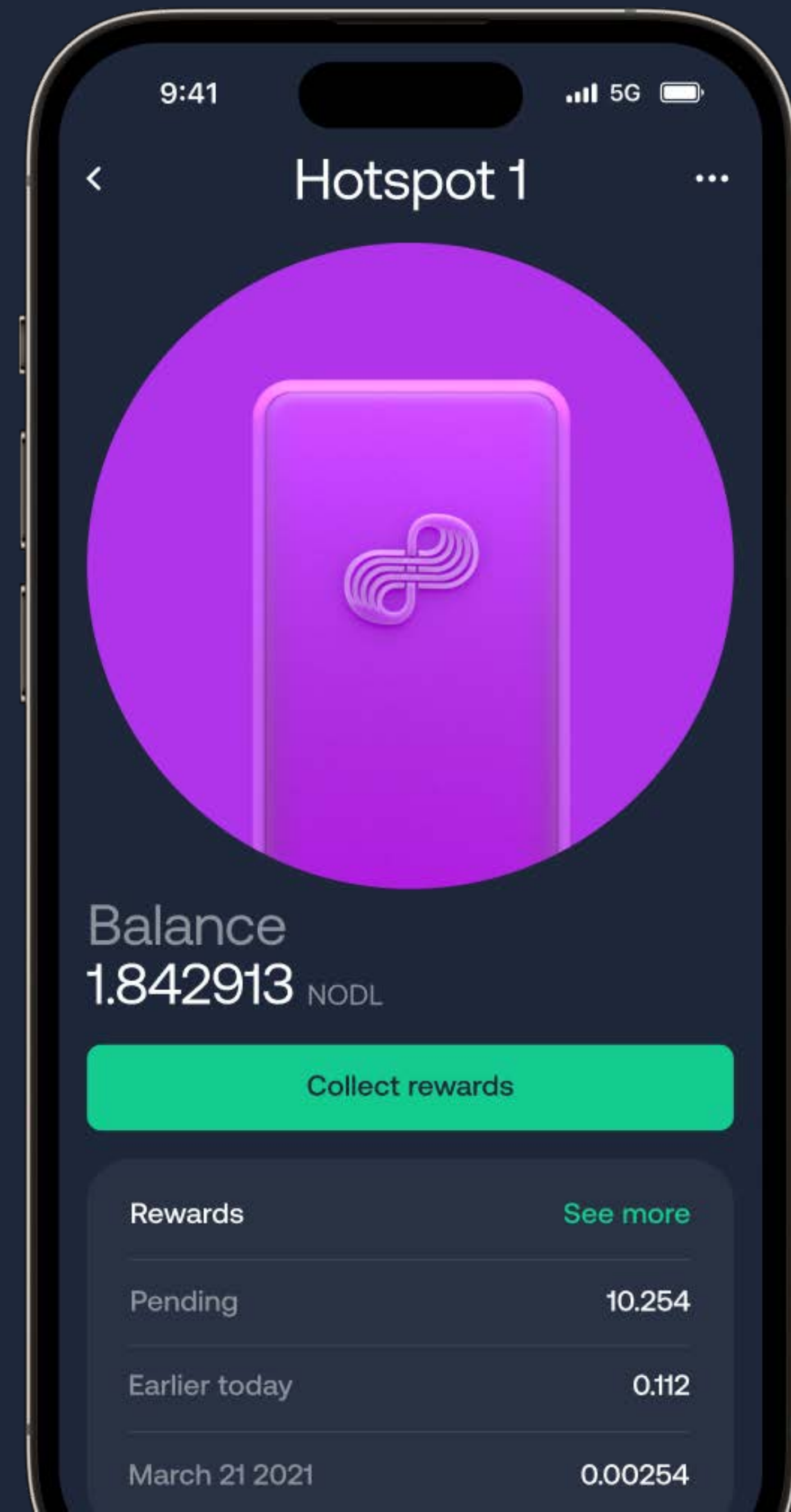
We will introduce new possibilities to earn NODL tokens and help users understand their earnings and maximize them.



Hotspots

✓ Execution Committed • Q2 2023

The community will be able to transform their old Android devices into Nodle Hotspots, i.e. nodes that are connected 24/7 and placed in one single location. Hardware manufacturers will also be welcome to implement the exact same code on their hardware. Both Android and hardware hotspots will be configurable from the main Nodle app.



Rewards update

✓ Execution Committed • Q3 2023

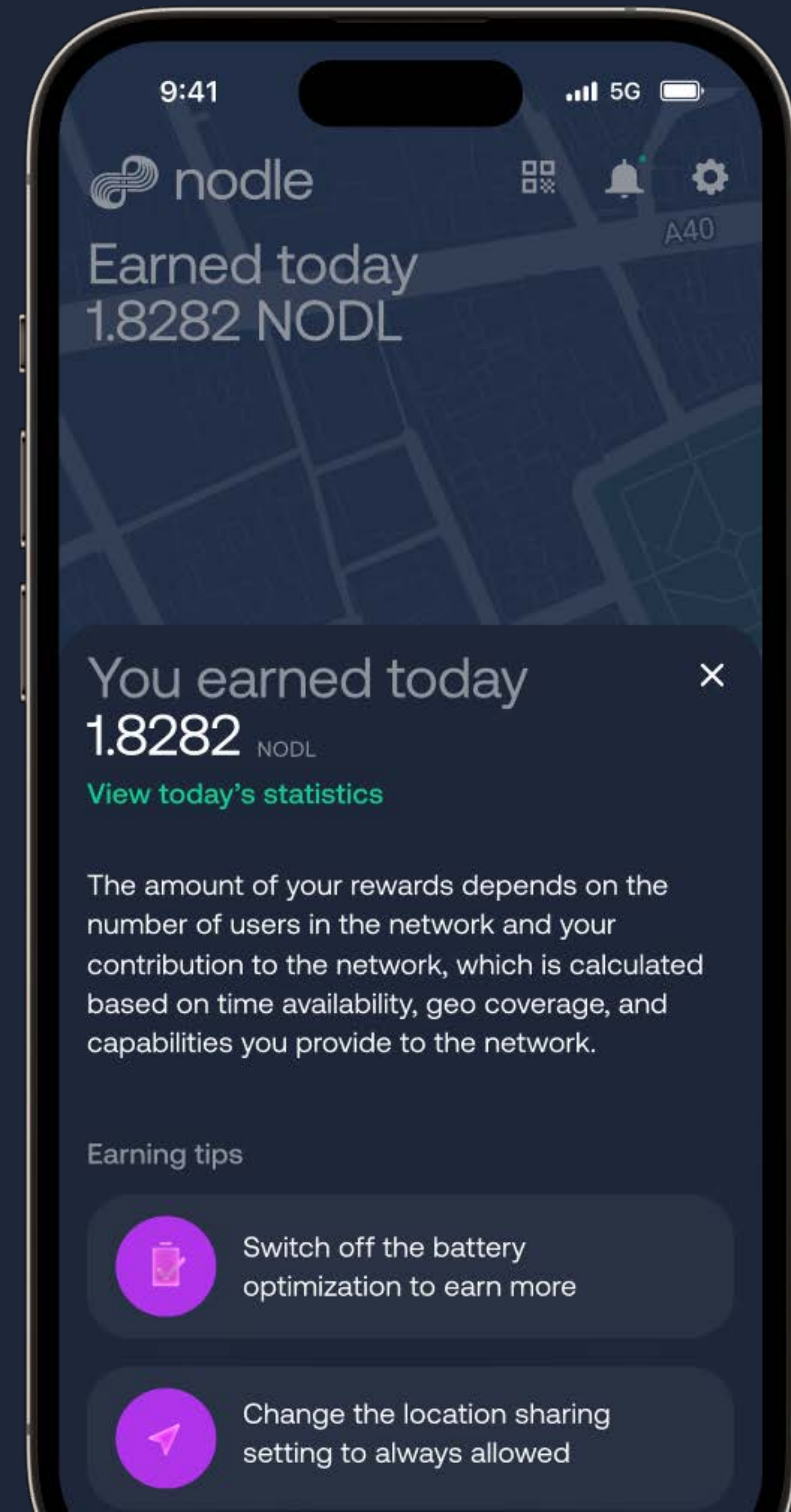
Network rewards will be calculated every 15 minutes, so users will be able to know an exact amount of rewards they will receive at the next allocation event. The rewards will be presented clearly to end users with the exact formula of their time availability, Bluetooth availability and location (H3) that allows to compute their rewards.



Optimize app configuration

✓ Concept Committed • Q3 2023

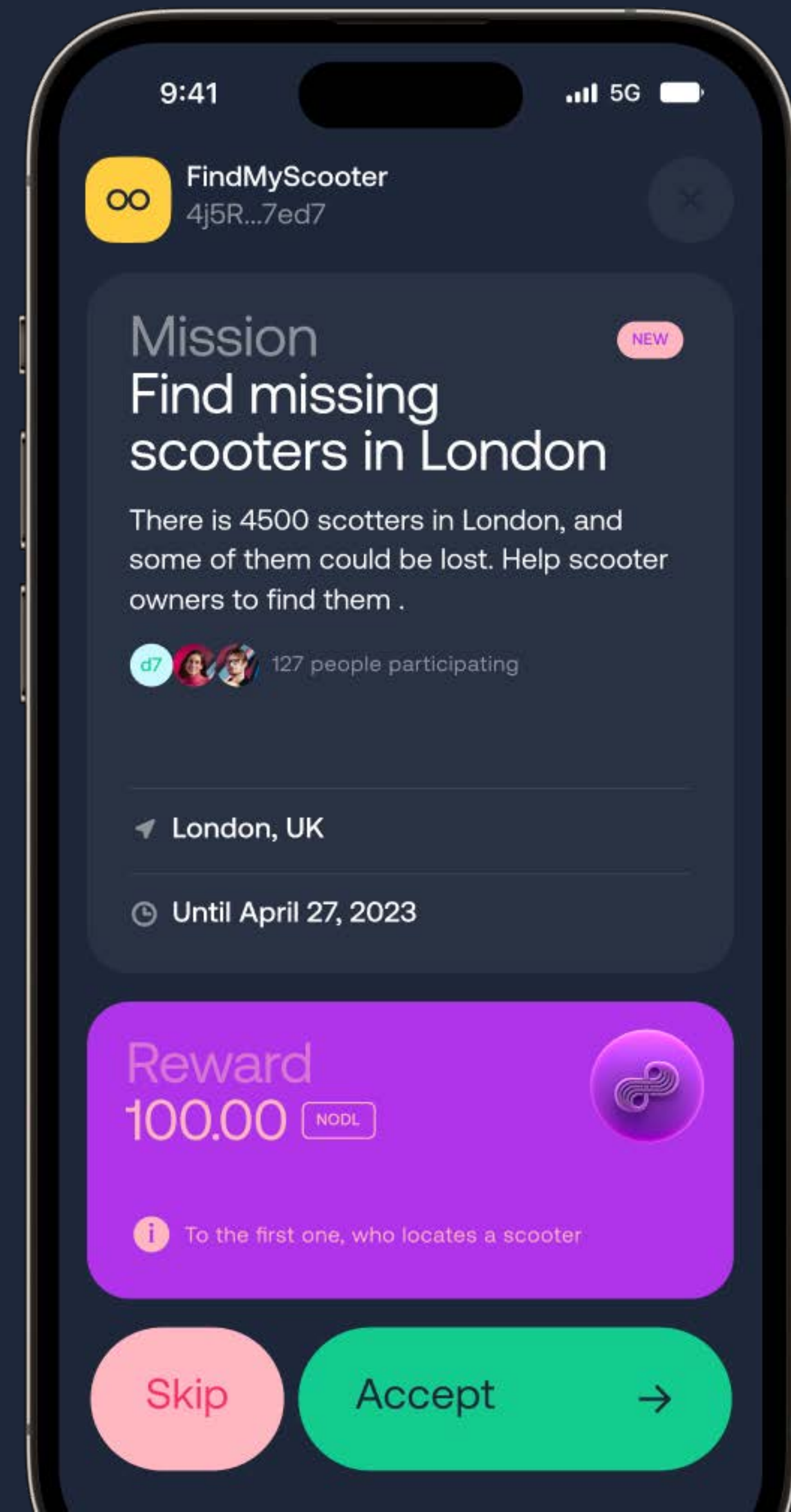
Users will be guided on how to properly configure the app, so that it brings the highest value to the network and generates the highest possible rewards.



Smart Missions

✓ Execution Committed • Q3 2023

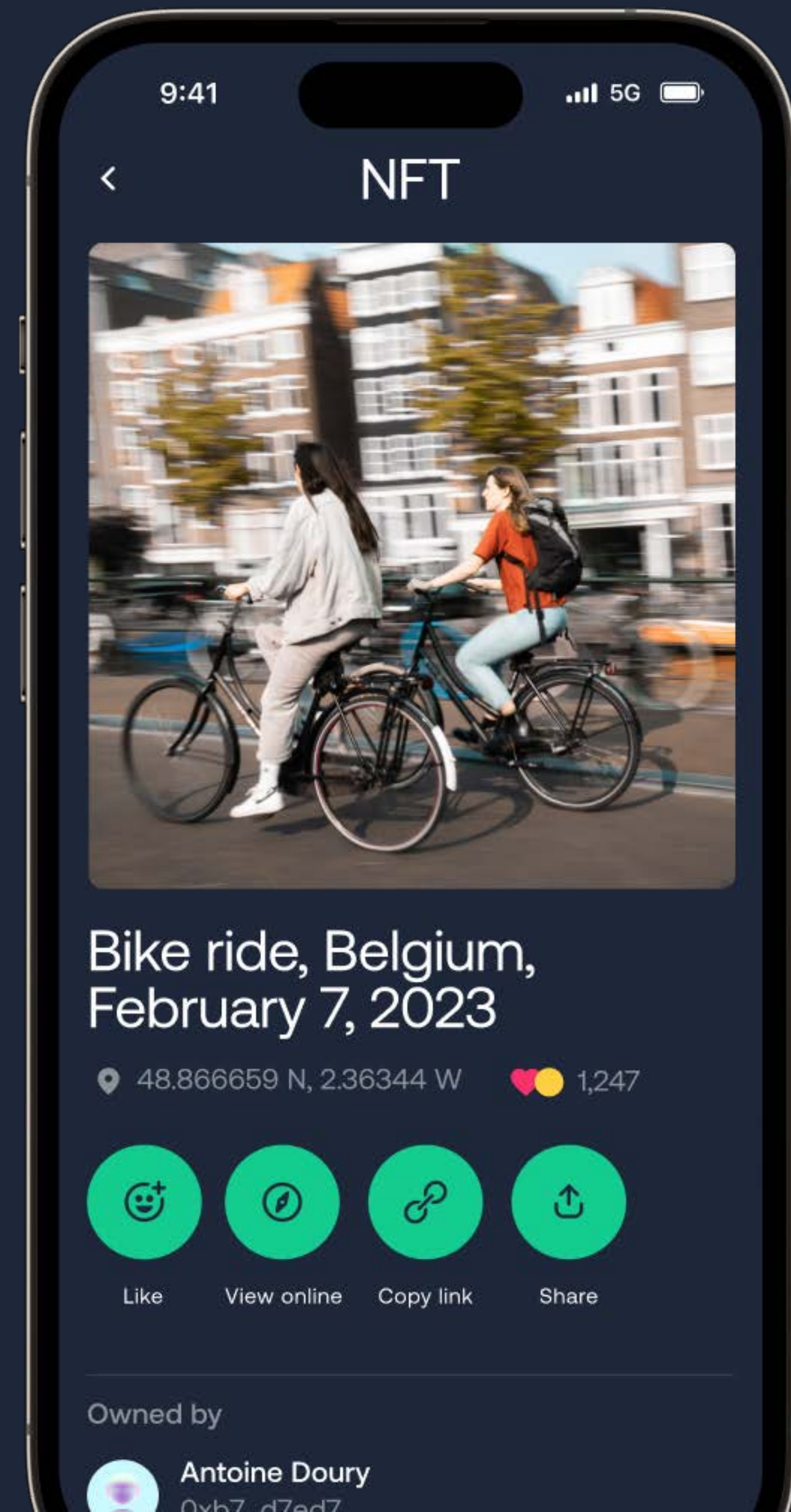
With the on-boarding of the first partners, the Nodle app users will be able to earn extra NODL tokens as they complete smart missions. Each mission will have their own rewards and their own criteria to achieve them.



NFT tipping

 On the Radar • Q4 2023

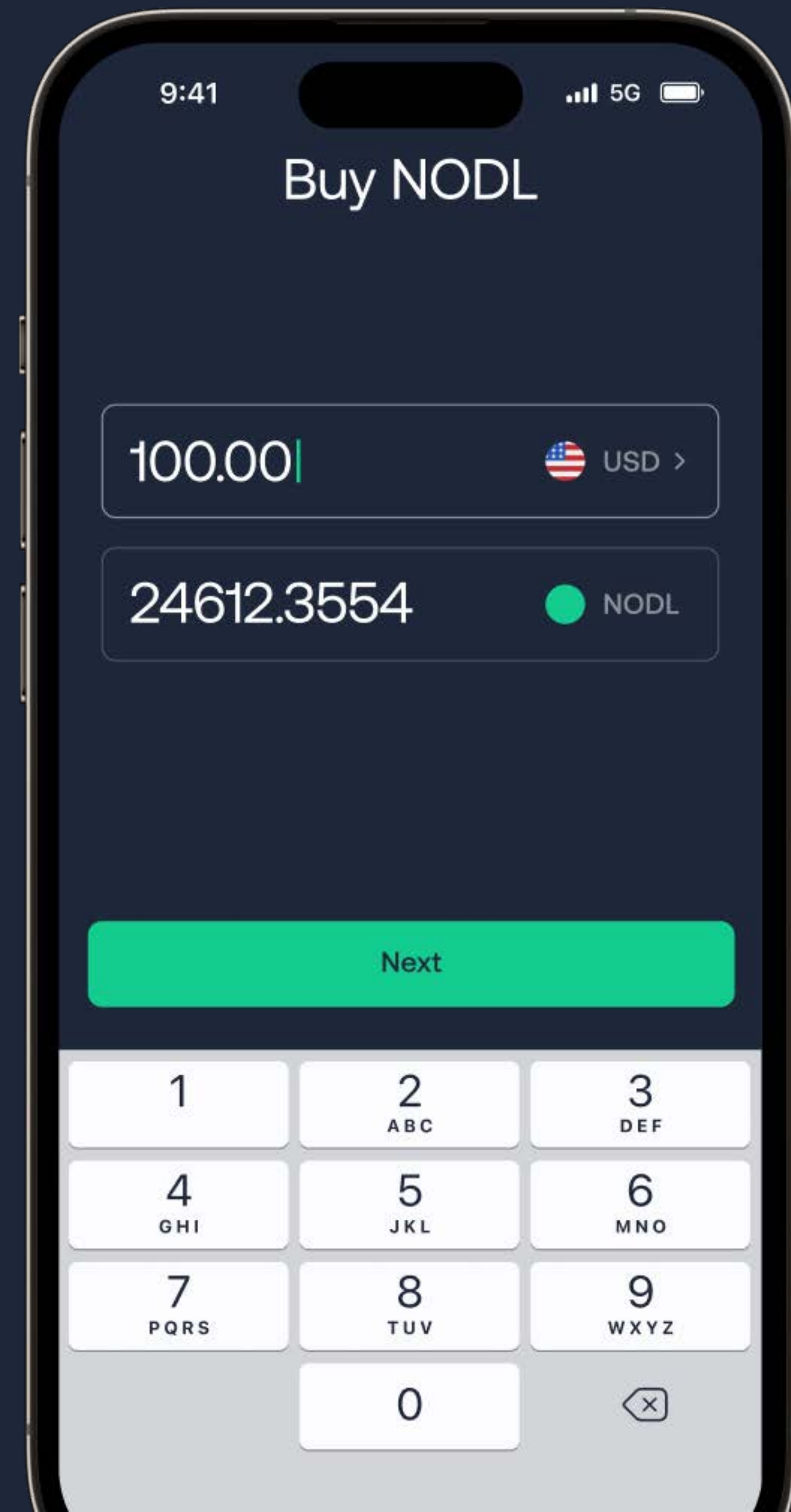
Users will be able to like NFTs and send a tiny amount of NODL to the NFT creator to support them. Thanks to this ability, the creators of the best places NFTs will earn extra NODL in form of tips in addition to network rewards and missions.



Buy NODL

 On the Radar • Q4 2023

Users will be able to purchase NODL through the integration with a third-party provider. It will be implemented as a link to a mobile web view towards the third party provider doing the necessary checks. This feature might not be available for all users globally.



Nodle widgets

 On the Radar • Q4 2023

Users will be able to add a Nodle widget to a lock screen to quickly check their current NODL balance and latest rewards. It will also allow them to keep the Nodle app running longer in the background and, therefore, get higher rewards.



ROADMAP 2023

Transact

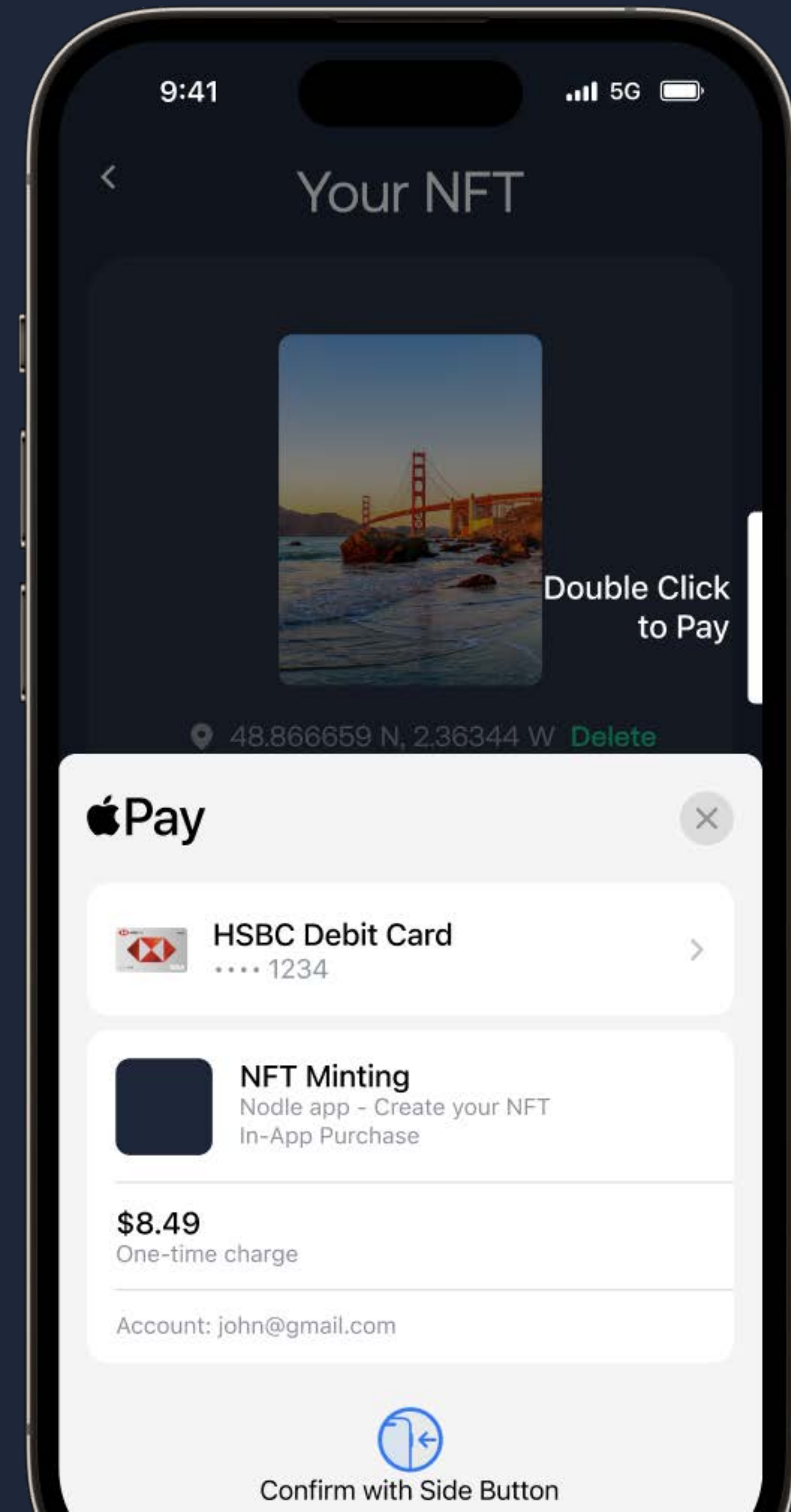
We will introduce new ways of interaction between users on the Nodle chain and make the interaction fast and frictionless.



In-app purchase

✓ Execution Committed • Q1 2023

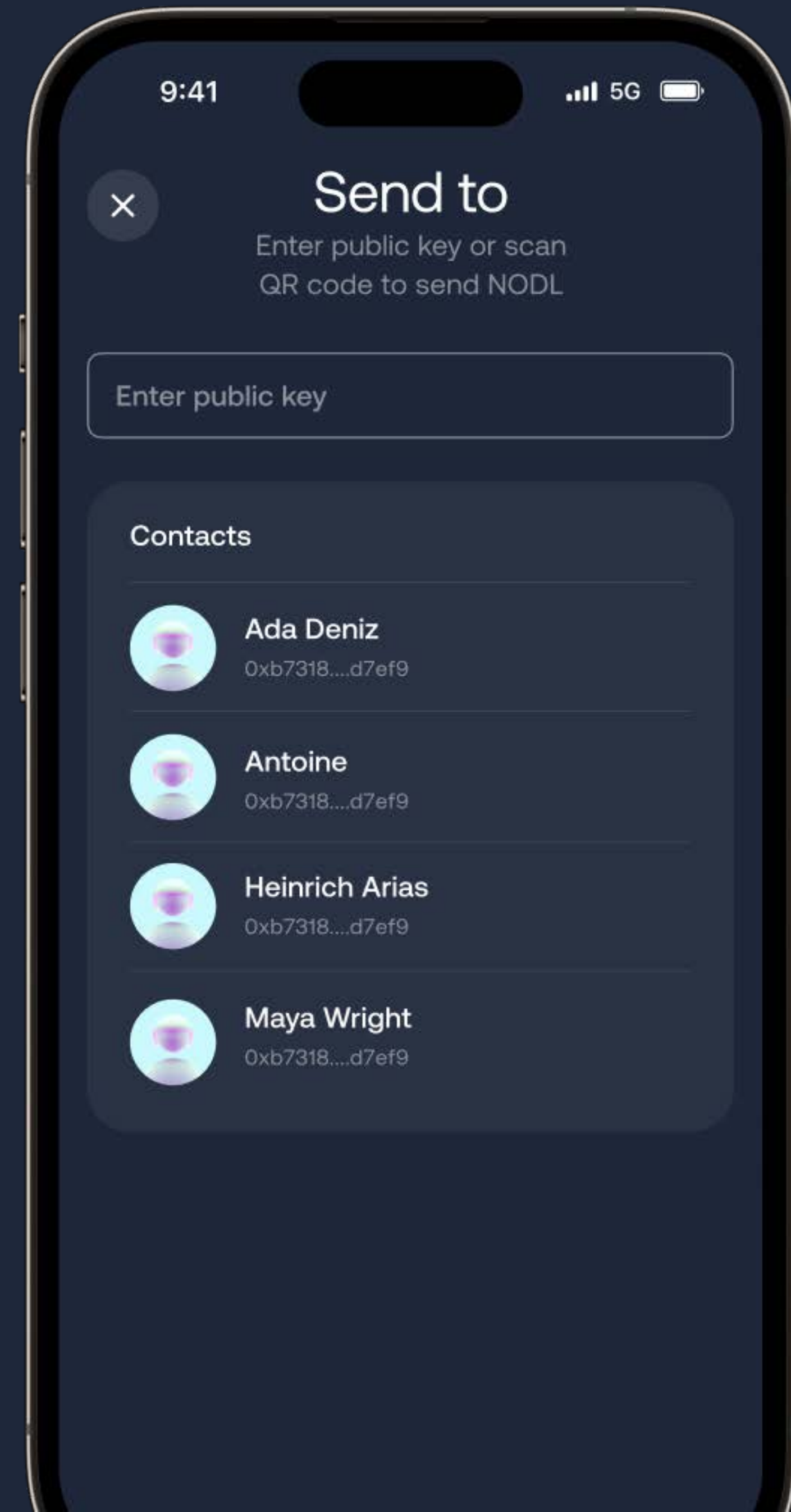
Introduce new and enhance the existing features with the possibility to pay with fiat money using Apple Pay / Google Pay. This will unlock some existing features for new users and allow the Nodle team to introduce new features, which require payments.



Contact book

✓ Execution Committed • Q2 2023

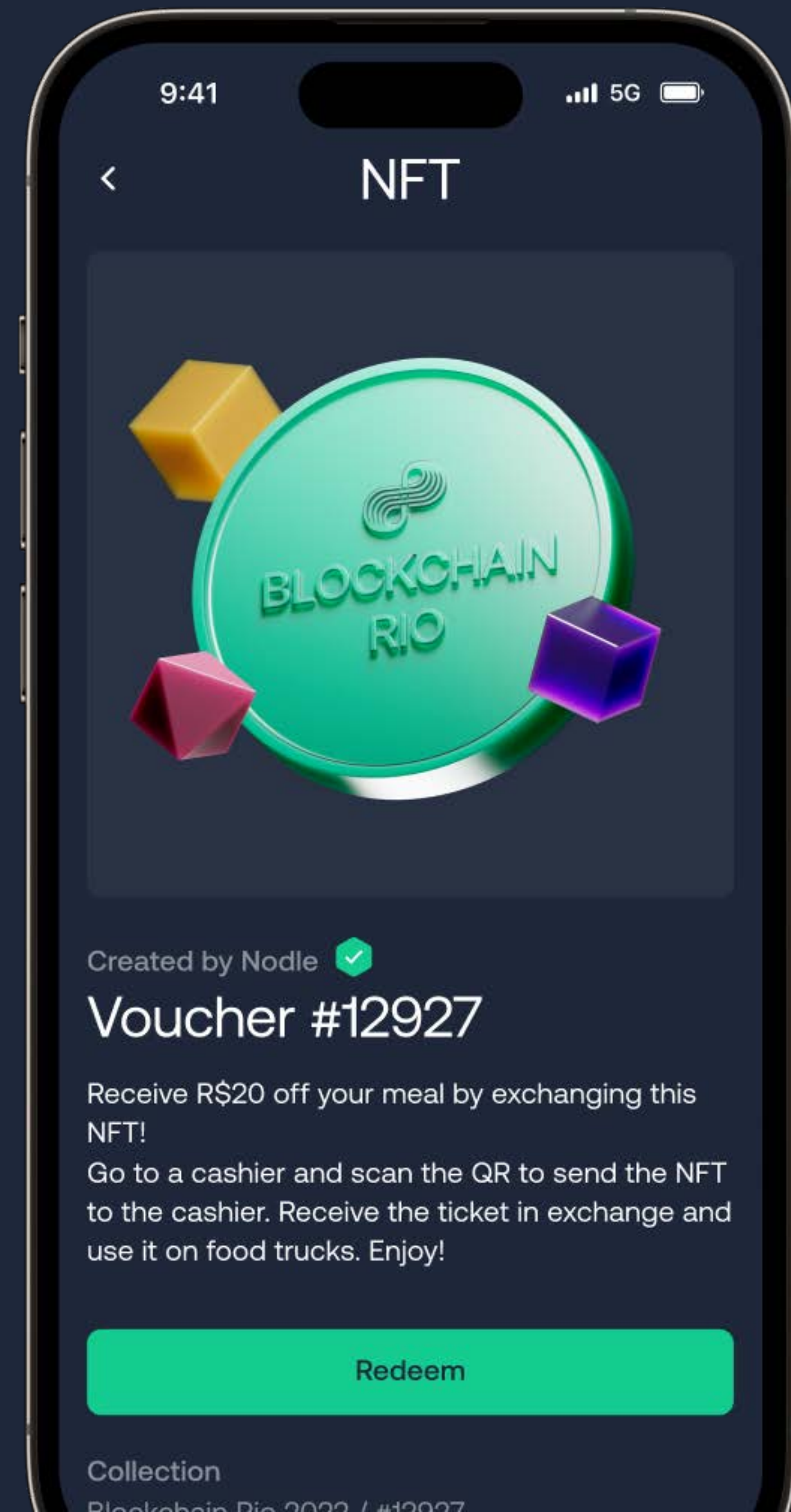
Users will be able to create a contact book with a list of public keys, names and pictures to simplify and fasten all types of interactions with them. The possibility to share user's contact card with others will streamline the process of adding new contacts and make it easy and fast.



Voucher NFTs

✓ Execution Committed • Q2 2023

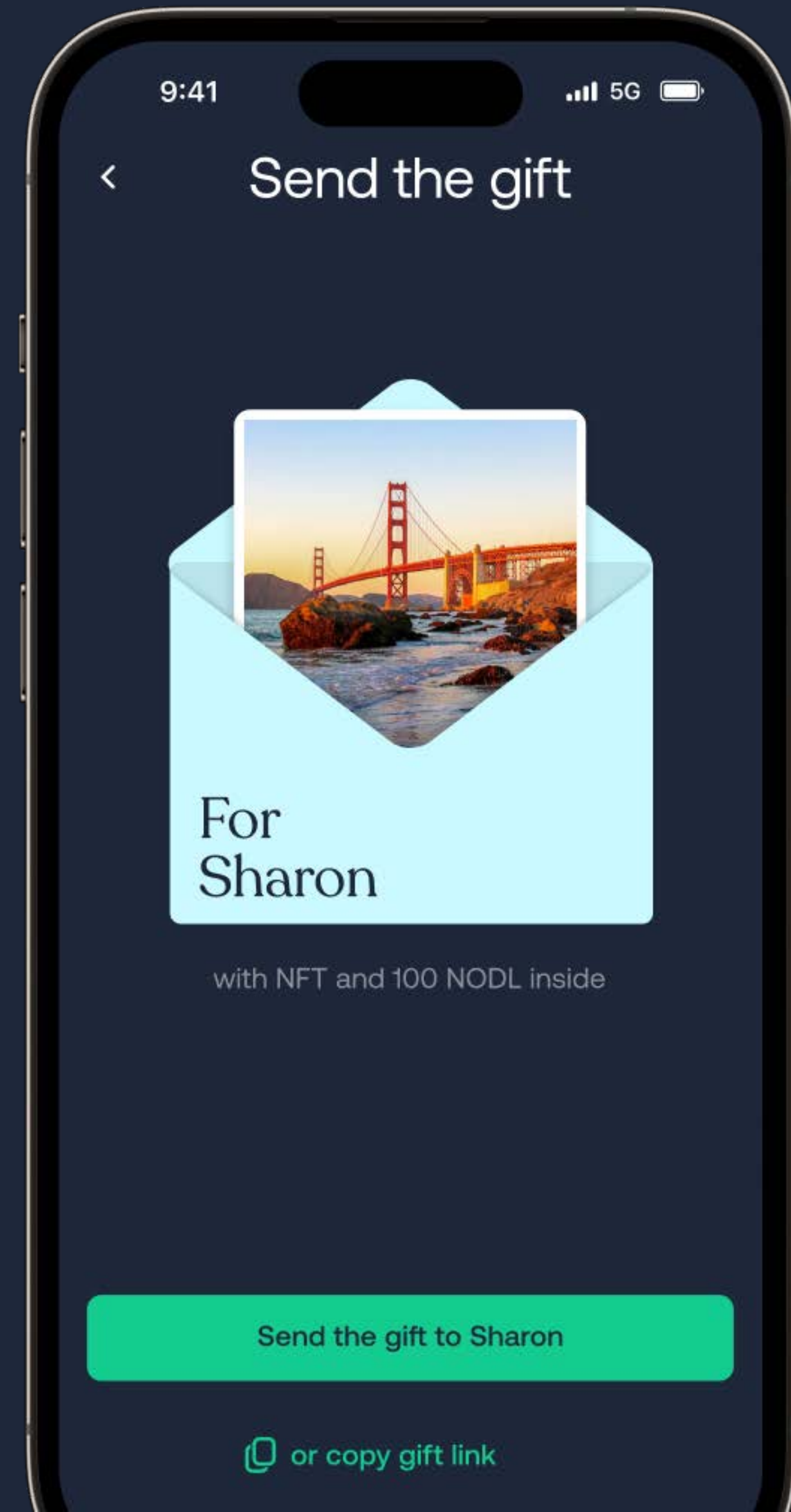
With the onboarding of the first partners, the Nodle app users will be able to buy, share and receive voucher NFTs that can be redeemed in the physical world. This capability is a continuation of the Blockchain Rio 2022 concept, where conference participants could exchange their NFT vouchers for a meal discount. It will be an entirely new application of digital items in the real world, which has great potential for the future.



Gifting

✓ Execution Committed • Q3 2023

The app will allow users to gift an NFT or some NODLs to their friends, colleagues, and family members even if the recipient does not have a Nodle wallet yet. This feature is an update of the Red Envelope feature that was released for the Lunar New Year 2023. The gift will be visually embedded inside an envelope, which can be selected by a user.



User Missions

 On the Radar • Q4 2023

The Nodle team will explore the possibility of having users define their own missions directly from the app to be issued to a group of friends. Given the complexity of such a feature, it is unlikely that it will be released this year. However, feedback from the community will be instrumental in defining this feature.



ROADMAP 2023

Explore

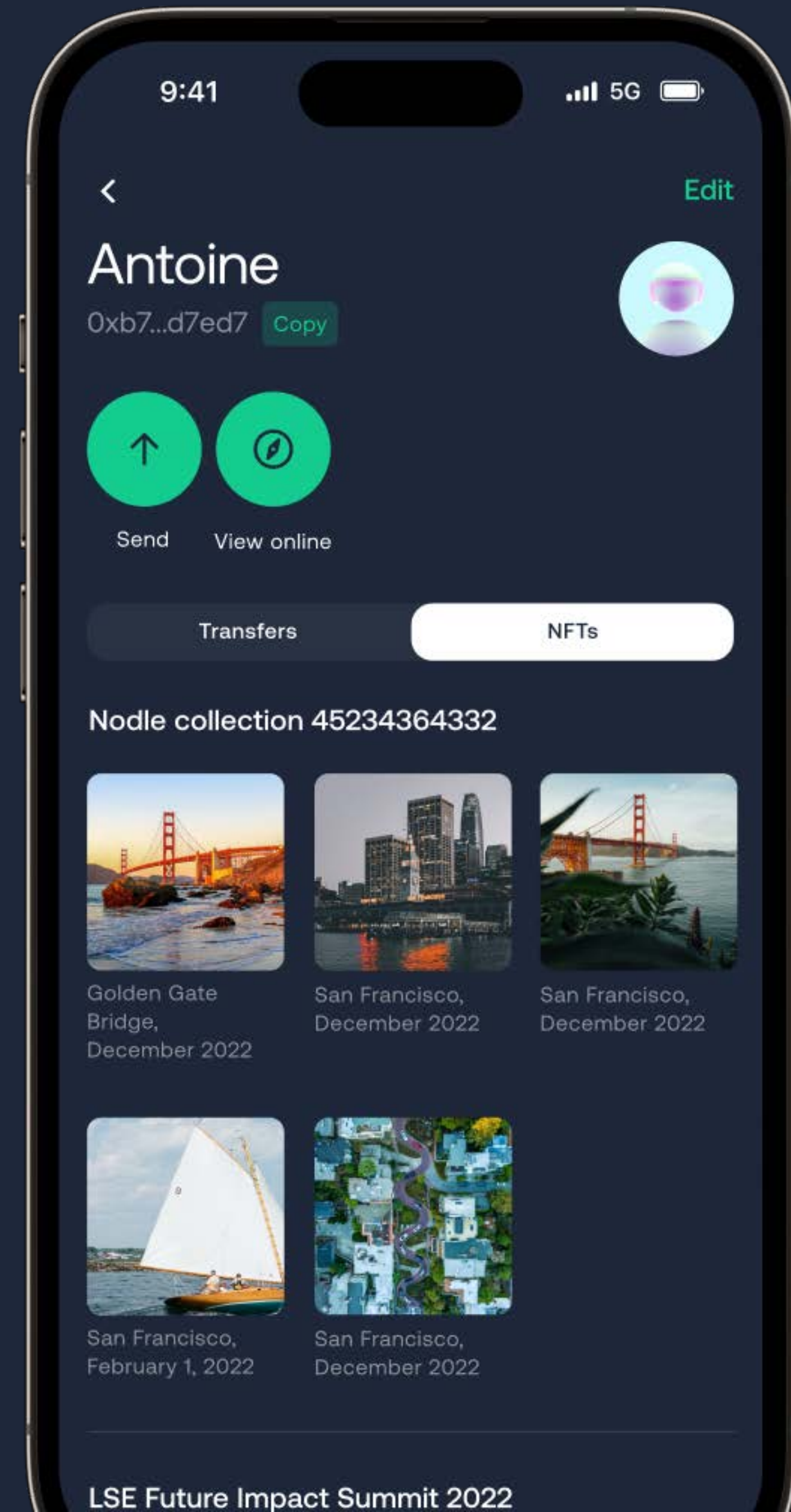
We will introduce new in-app capabilities to explore the Nodle network, particularly NFTs, smart missions and places.



Photo NFT collection

✓ Execution Committed • Q2 2023

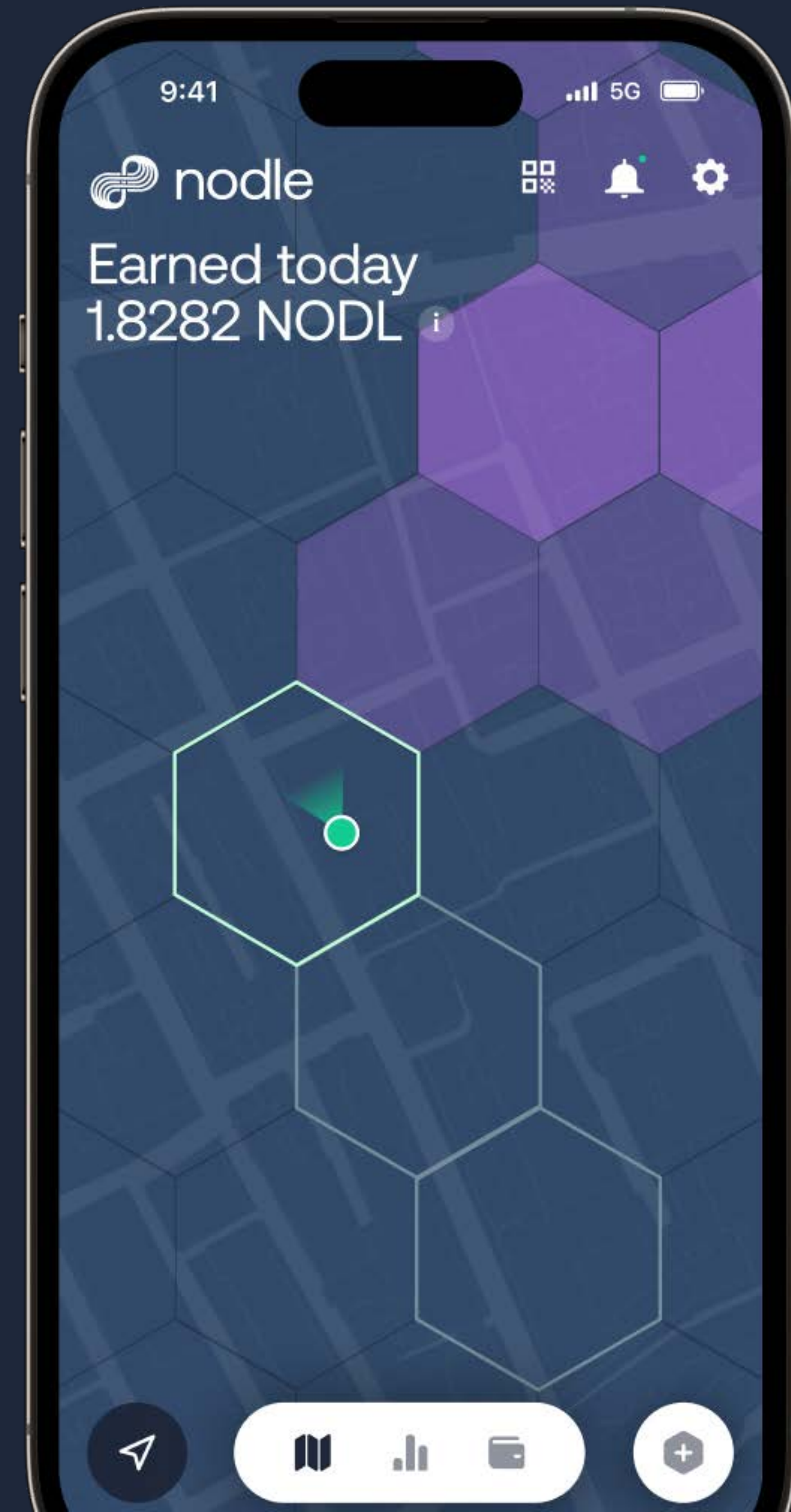
Users will be able to explore the NFT collection of other users directly from the Nodle app.



Enhanced map

✓ Execution Committed • Q3 2023

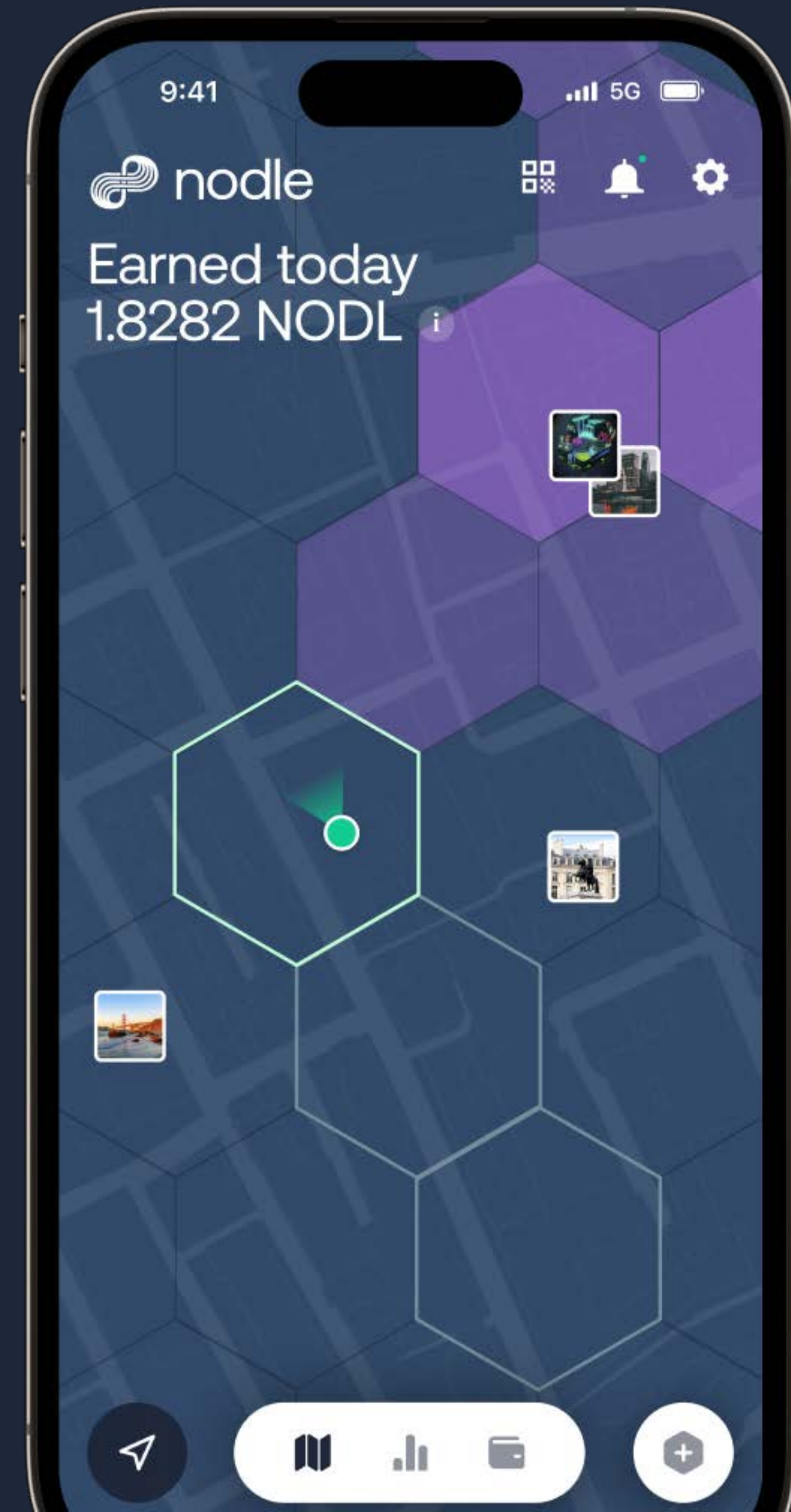
The map will be made moveable and scalable, with the ability to go back to where the node is located. The hexagonal grid shown on top of the map will reflect a density of Nodle nodes and, therefore, a level of rewards users can earn in some area.



Places NFTs

✓ Concept Committed • Q3 2023

In addition to the freedom of movement that the new map will offer, it will also start displaying Places NFT, with the ability to filter out places NFT for a particular mission.



Others

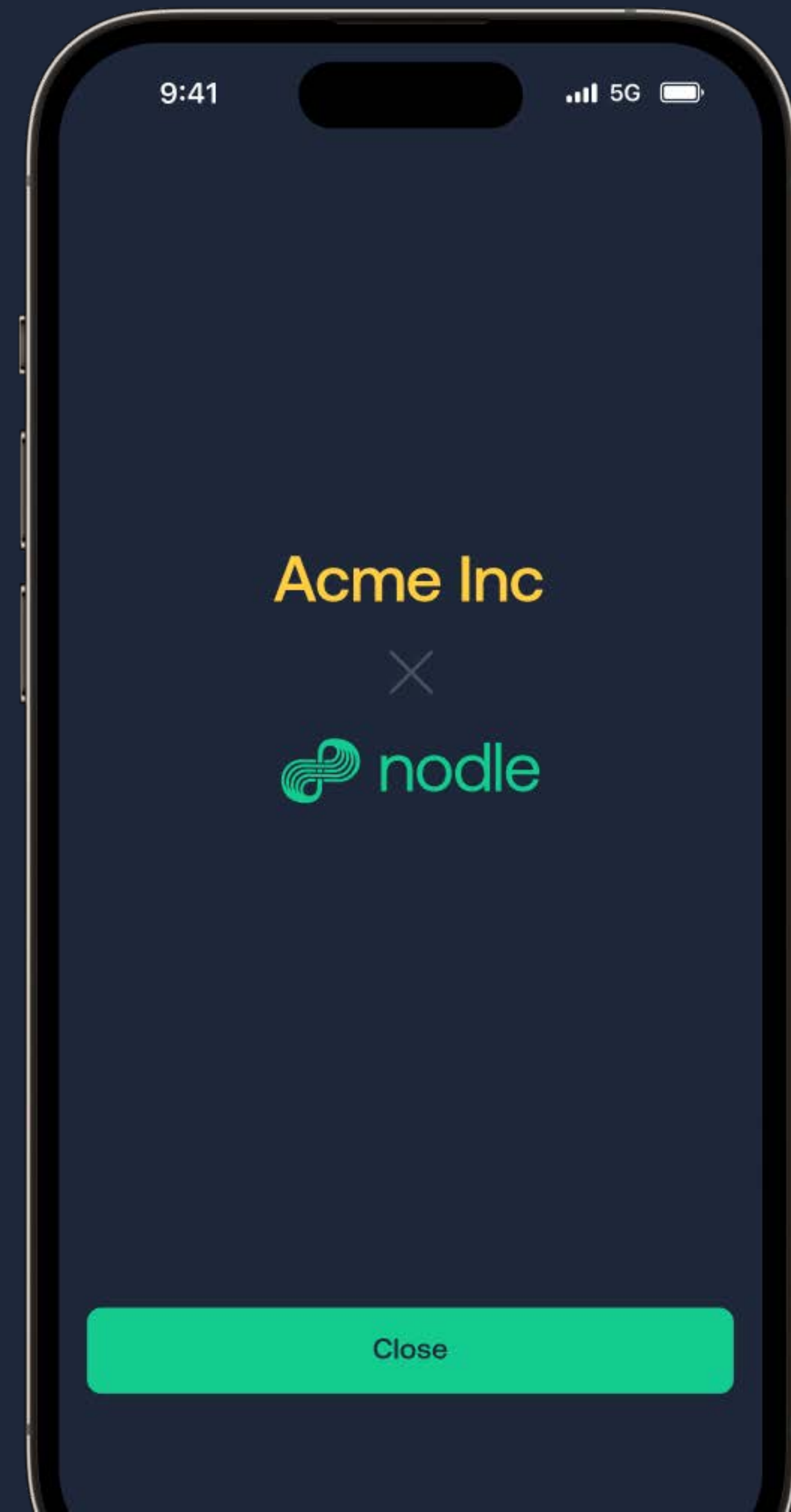
We will continue working on improving the app security and increasing the adoption of the Nodle app to create a wider, more consistent and reliable Nodle network coverage.



OEM silent mode

✓ Execution Committed • Q2 2023

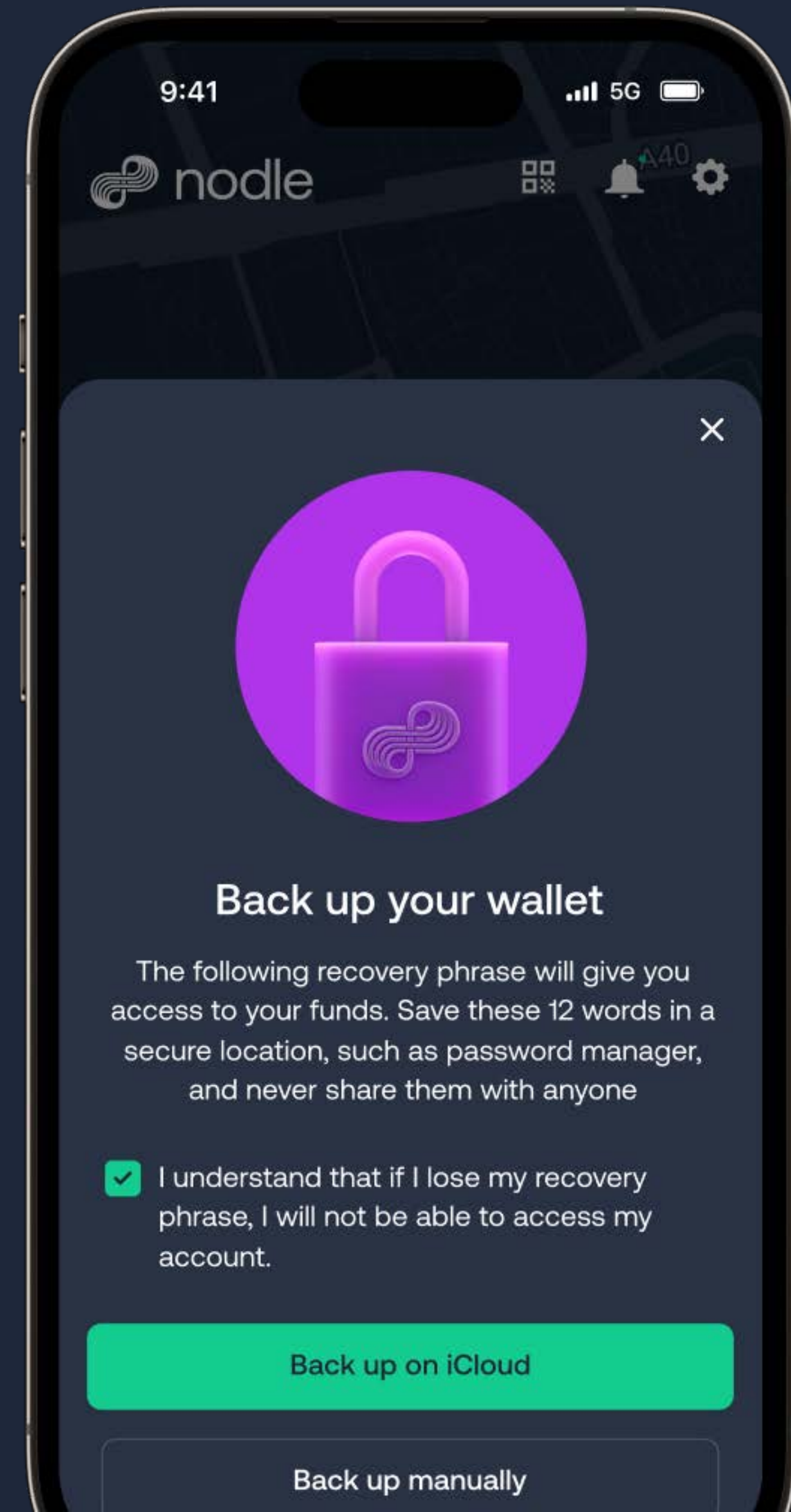
We will introduce a silent mode of the Nodle app, which can be deployed by phone manufacturers or by companies controlling their fleet of devices via MDM. In this mode, the Nodle app runs in the background and does not need any interaction from end users.



Cloud backup of seed phrase

✓ Concept Committed • Q4 2023

Users will be able to back up their recovery phrase to either iCloud or Google Drive, as well as import their wallet from the backup file. The cloud backup is a more secure way to store the recovery phrase, and, on the other side, it will simplify the user experience when they want to switch from one phone to another.

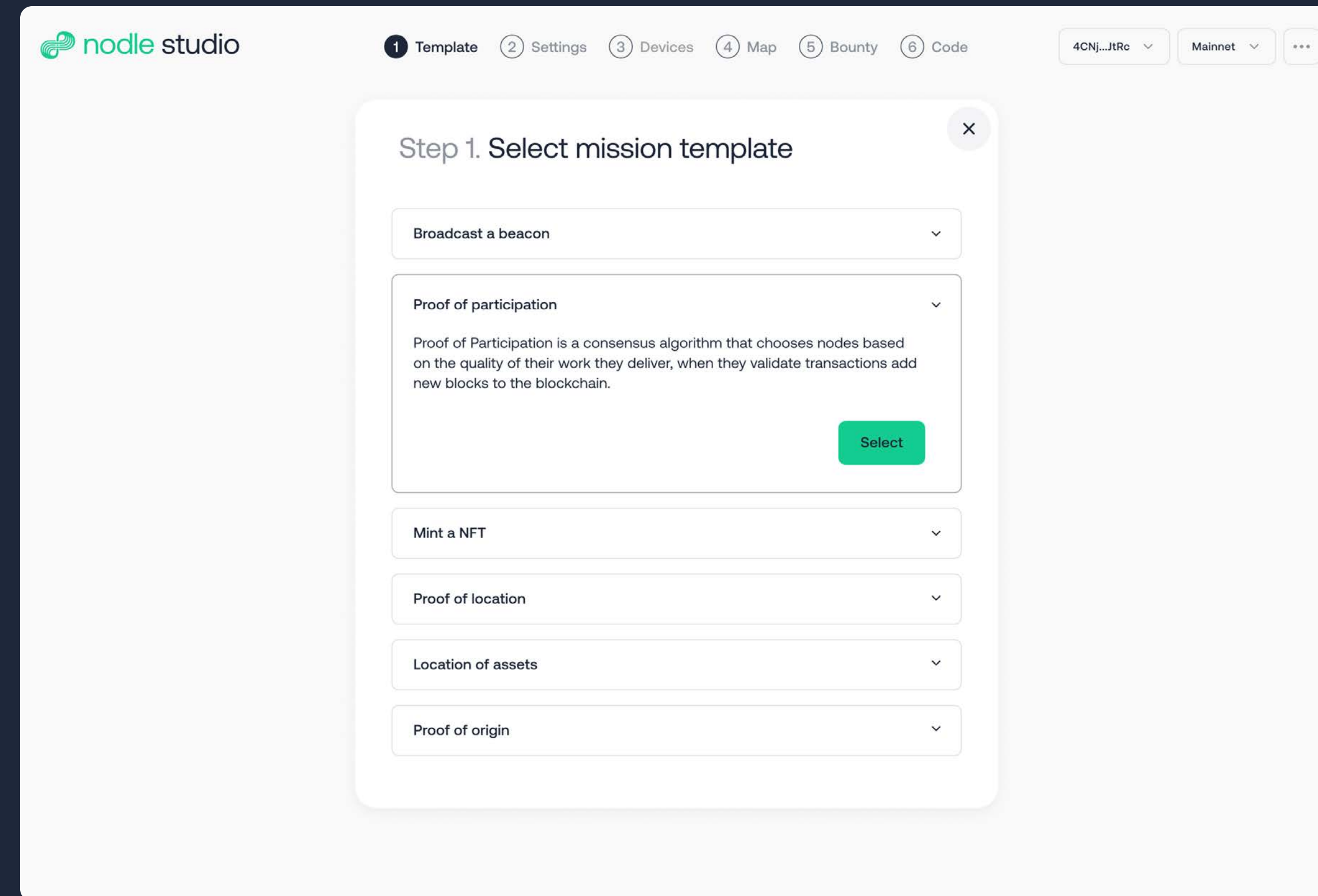


Nodle Network Roadmap 2023

Smart Missions

✓ Execution Committed • Q3 2023

The smart mission platform is the integration between a derivative of a smart contract on chain and the Nodle VM on the Nodle SDK. Every service provided by the Nodle Network will be provided as the smart mission.

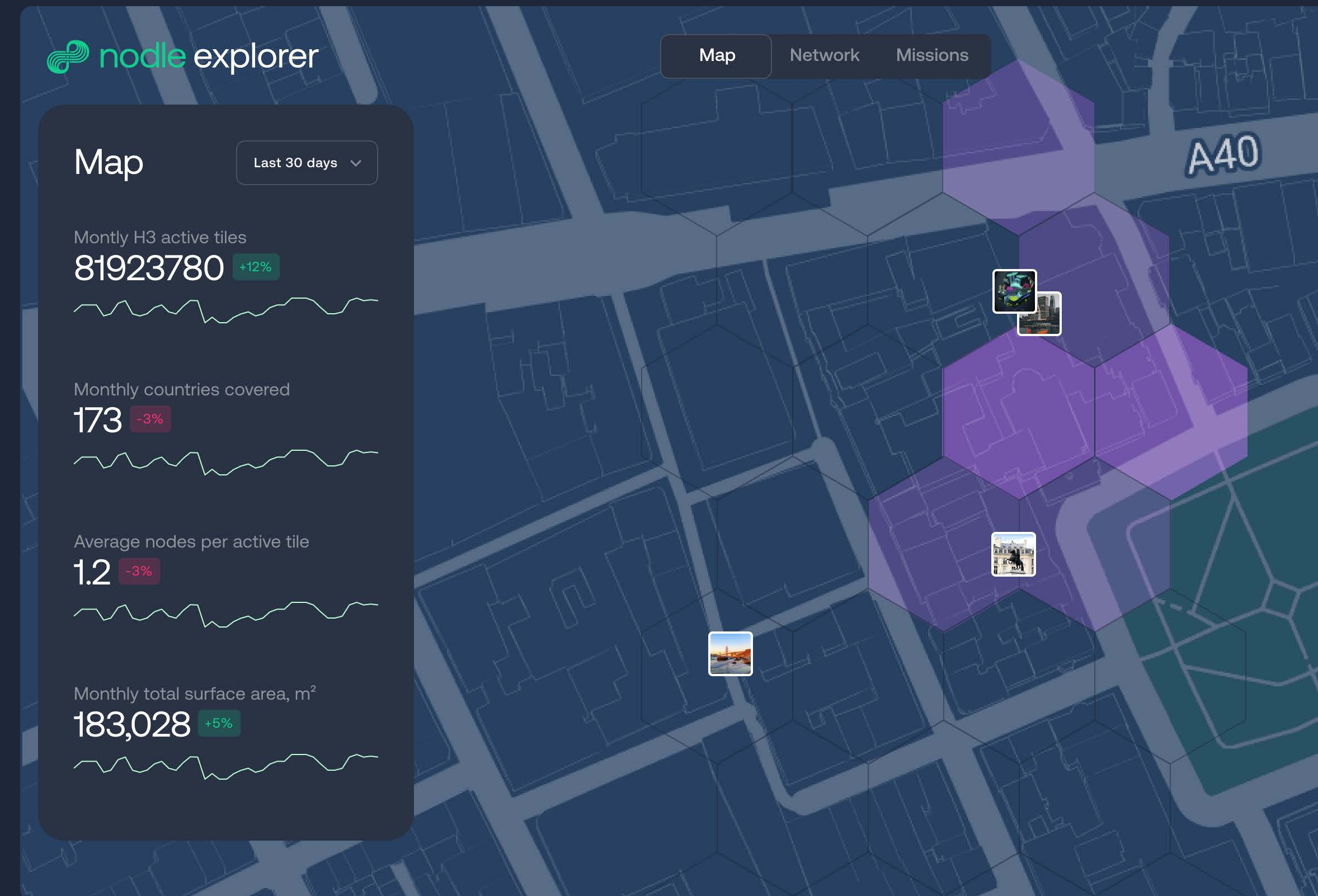


Network Explorer

✓ Execution Committed • Q3 2023

With the new design of rewards for network contributors, the network will be able to publicly expose a map displaying the network coverage and its capabilities. This map will in turn allow new network contributors to estimate their rewards, depending on their own coverage and to create a balance for how the network is distributed across the world.

The Explorer will also show a god's view of the Nodle economy. It will provide access to the number of wallets, the number of transactions, the number of NFTs minted by category of NFTs, the smart missions.



SDK with individual wallet

✓ Execution Committed • Q4 2023

App partners would like to be able to split the NODL earnings between themselves and their users. Instead of receiving all the earnings, they will be able to configure the exact share that their users will receive on a Nodle Wallet integrated within their apps or games.

Nodle reward
200.0000

Split reward



Developer
75%

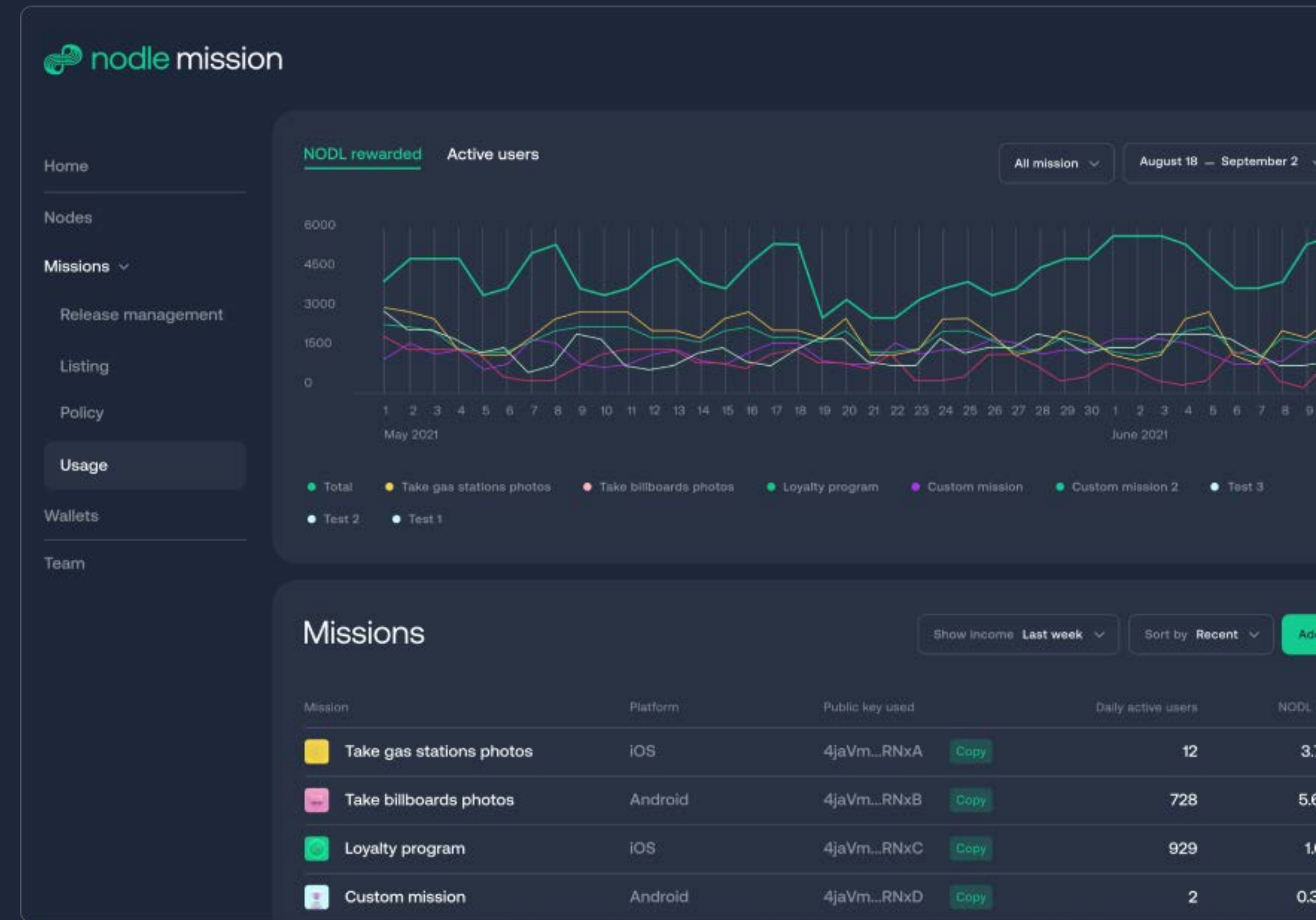
User
25%

Mission Developer Platform

✓ Concept Committed • Q1 2024

The Mission Developer Platform will be a control center for mission developers:

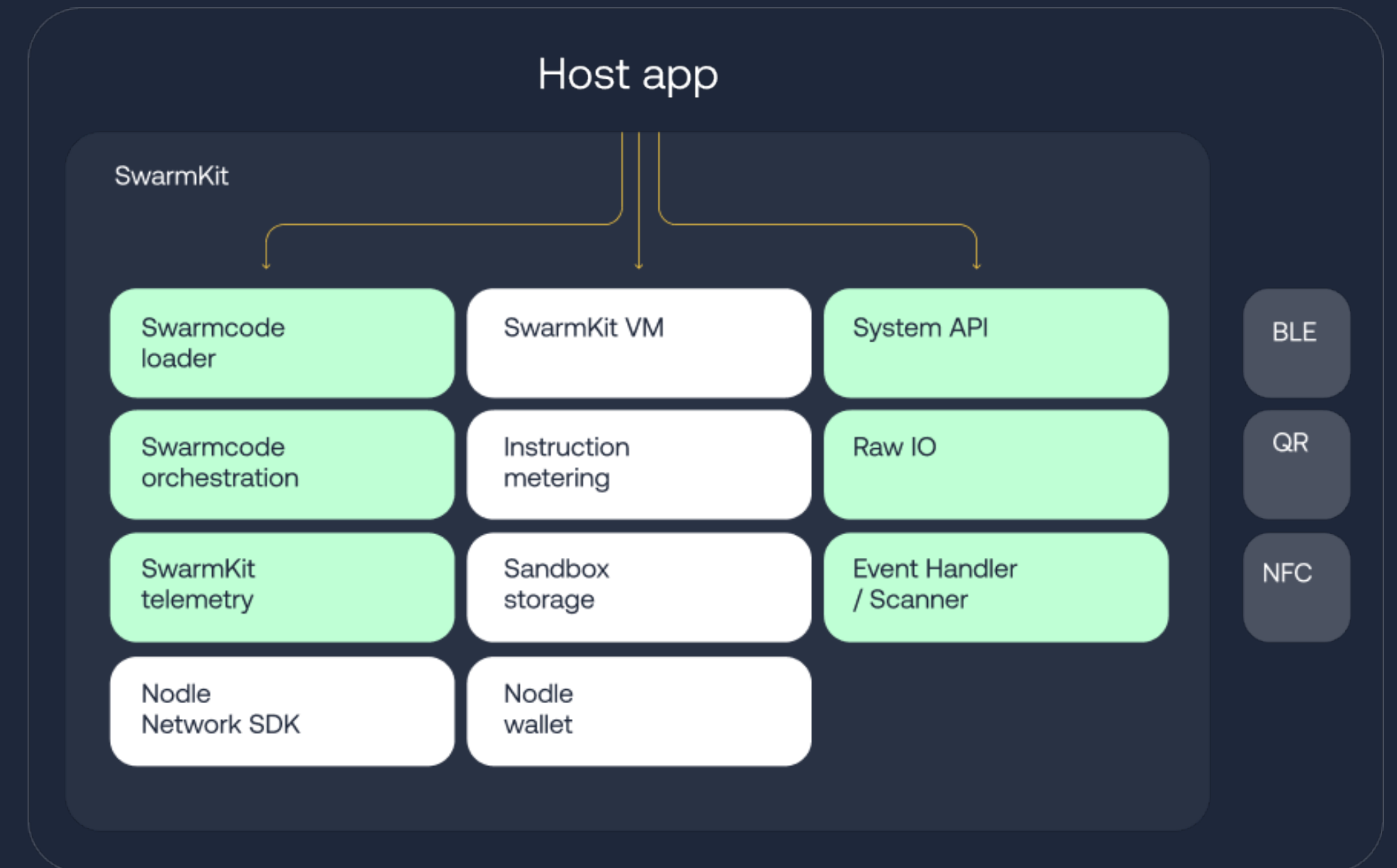
- The Release Management section will allow developers to launch and manage releases of their smart missions. They will be able to specify a location for which the smart mission is active.
- The Listing section will allow developers to manage how their mission is presented publicly. They will be able to set the mission's title, description, and provide their contact details.
- The Policy section will let developers describe what data they are collecting as a part of the mission.
- Finally, the Usage report section will let them understand usage of the mission, and how much NODLs have been used.



Swarmkit

✓ Concept Committed • Q4 2023

The SDK will be upgraded to include smart mission execution and a WASM virtual machine. The BLE execution, Camera toolkit, WASM VM, Wallet components are going to be added and made open source so that every app can re-use and integrate the capabilities in their own app.



Nodle Chain Roadmap 2023

XCM Integration

✓ Execution Committed • Q2 2023

The Nodle Parachain will be extended with the ability to handle incoming and outgoing XCM requests (Cross-Consensus Message Format). This opens the opportunity to exchange tokens between the Nodle parachain and other parachains.



Wallet Connect for Nodle Client

 On the Radar • Q3 2023

The Nodle Web Client will be extended to allow users to connect their Nodle app wallet to the web UI via the Wallet Connect v2 protocol. This means that it will become possible to use the web client or any other upcoming web user interface on a computer while delegating the responsibility to sign transactions and manipulate cryptographic materials to the Nodle app.

Connect with Nodle app

Learn how to use [Nodle app](#)



Scan this QR code with your Nodle app.

Waiting for Nodle app



Back

Next

Intrinsic NFT

✓ Execution Committed • Q3 2023

The ability to mint NFTs containing additional NODL tokens will be added to the Nodle Parachain. When burnt, such NFTs will release the embedded NODL to the owner of the NFT. It will not be possible to retrieve the NODL tokens without burning the NFT.

The screenshot displays the 'nodle client' interface with a 'Portfolio' tab and an 'NFT' sub-tab. It shows five NFT items from the 'Nodle Collection 750566147'. Each item consists of a thumbnail image, the collection name, the location and date, and the amount of NODL tokens embedded in the NFT.

Image Description	Collection	Location & Date	NODL Amount
Beach scene with colorful umbrellas	Nodle Collection 750566147	Sri Lanka, December 2022	100.0000 NODL
Decorative wall with blue accents	Nodle Collection 750566147	Sri Lanka, December 2022	100.0000 NODL
Close-up of a white dog's face	Nodle Collection 750566147	Sri Lanka, December 2022	100.0000 NODL
Rocky coastline at sunset	Nodle Collection 750566147	Sicily, September 2022	1200.0000 NODL
Sailboat on the water	Nodle Collection 750566147	Sicily, September 2022	1200.0000 NODL

On-chain NODL bounties

 On the Radar • Q3 2023

With this feature, the Nodle chain would be extended to support the creation, management, and distribution of on-chain NODL bounties which could be assigned to the Nodle community. Eventually, the community could be a source of proposals for such bounties as well.



Statemint Integration

✓ Execution Committed • Q3-Q4 2023

With the Nodle Parachain supporting XCM, it will become possible to start integrating with other parachains. A prime candidate of this feature is the integration with Statemint, the asset hub of Polkadot which will give Nodle access to other parachains connected to it, as well as access to liquidity through the use of Parity's decentralized exchange hosted on the same parachain.

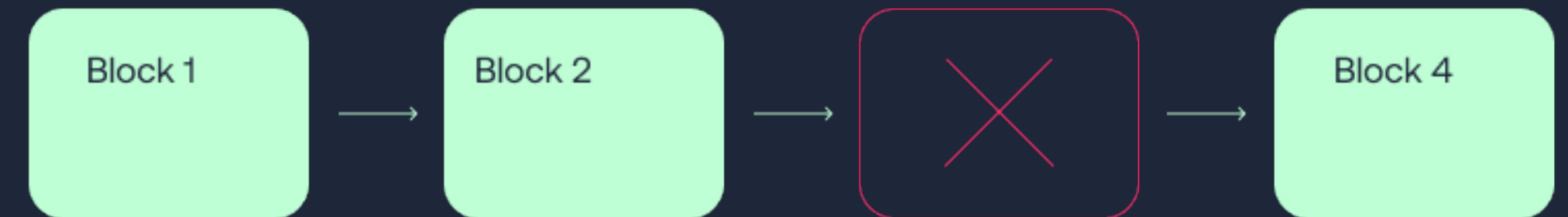


Emergency Shutdown

✓ Execution Committed • Q4 2023

A safety feature will be added to the Nodle Parachain allowing the members of the technical committee to temporarily halt non-business-critical operations on the Nodle Parachain if a security issue were to arise. Doing so will prevent malicious actors from moving stolen tokens to exchanges or other parachains where they would not be recoverable by the team.

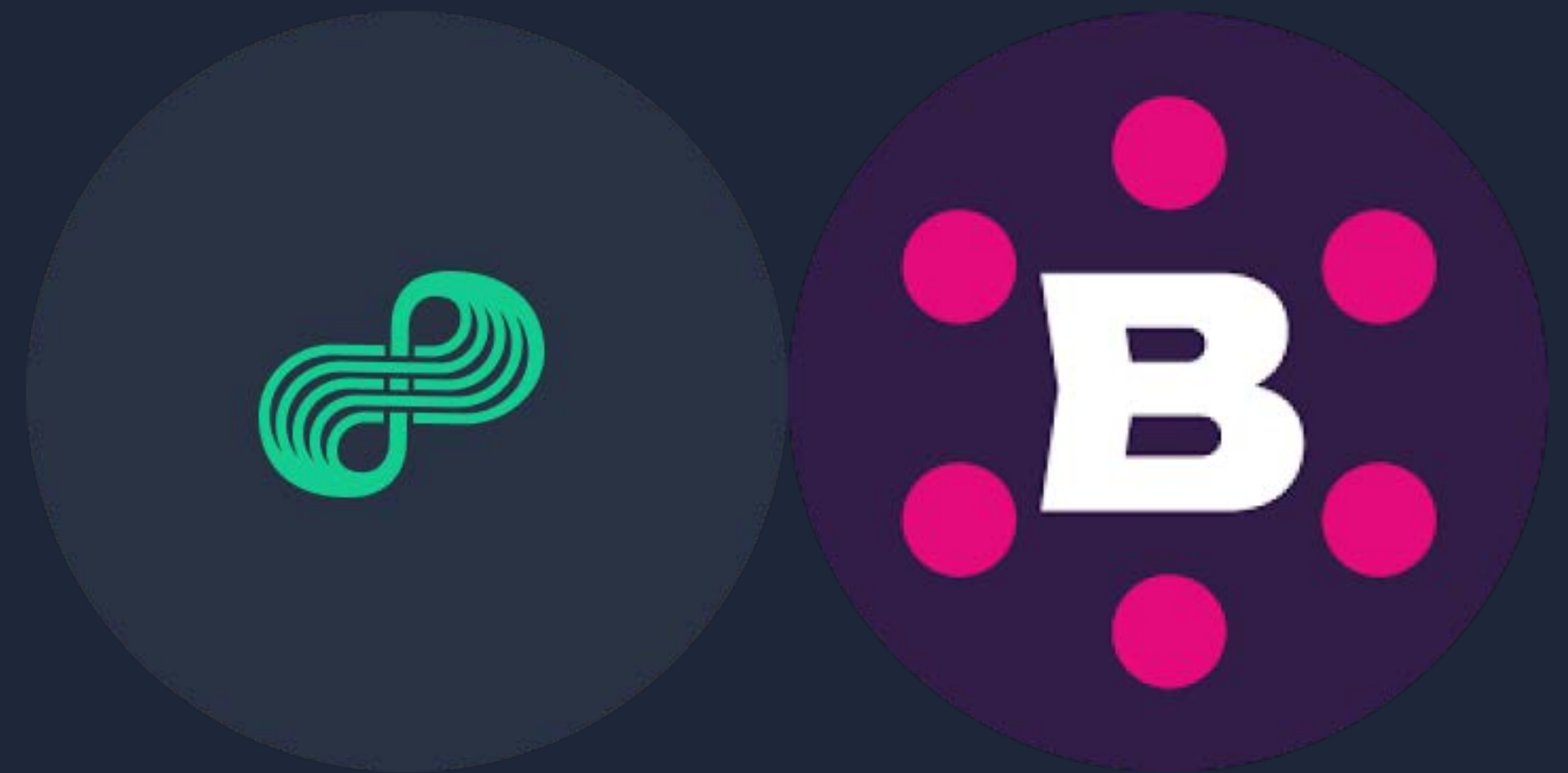
Nodle Parachain



BridgeHub Integration

 On the Radar • Q4 2023

Following the XCM integration with Statemint, it will be possible to get the NODL tokens to be used on BridgeHub, Polkadot's system parachain dedicated to bridging tokens to other chains and ecosystems.



DeFi Integration

✓ Execution Committed • Q4 2023

Building atop the prior work, it will be possible to connect the Nodle Parachain to parachains with a focus on Dapps and DeFI such as Moonbeam, Acala, and others.



Multi-Assets support

 On the Radar • Q4 2023

Thanks to the two-direction nature of the XCM integration, it will become possible to support other assets on the Nodle chain and eventually in the user interfaces such as the Nodle app and the Web Client. This could open the door for smart missions or intrinsic NFTs to be denominated in other tokens such as USDC.

