

# Roam: Web3 mobile Internet access

## The problem

Today, a connection to the Internet is increasingly a prerequisite for access to education, healthcare, government services as well as income and social belonging. 40% of the world population has no Internet. This is not just a 3rd world problem. It affects 9% of people in the US and close to 20% of Italians. Many more suffer from poor or intermittent connectivity.

For traditional telcos expanding coverage or offering more affordable data services is difficult, as they are stuck in a vicious cycle of flat revenues, 50% annual traffic growth and the resulting need to invest heavily in additional capacity for the existing customer base.

People and small organizations with unmet connectivity needs are left on their own.

## The Roam DAO mission

Roam creates a wireless Web3 ecosystem that enables the everything connected paradigm where connectivity is provided by people to people.

For interoperability and global reach Roam complements the global telco ecosystem and piggybacks telco (3GPP) standards to the extent possible.

The Roam protocol turns providing connectivity from being a cost to a blockchain based earning opportunity.

The governance of Roam is truly decentralized using smart contracts to the extent possible.

## Roam DAO ecosystem

Roam solves the vast network infrastructure investment and building challenge by mobilizing and incentivizing the users. The result is a global ecosystem of Roam enabled networks and seamless interworking with the public mobile networks.

Roam provides a framework of compensation and governance for the users. Wallet-to-wallet micropayments and near real-time settlement render complex invoicing and prepaid schemes obsolete.

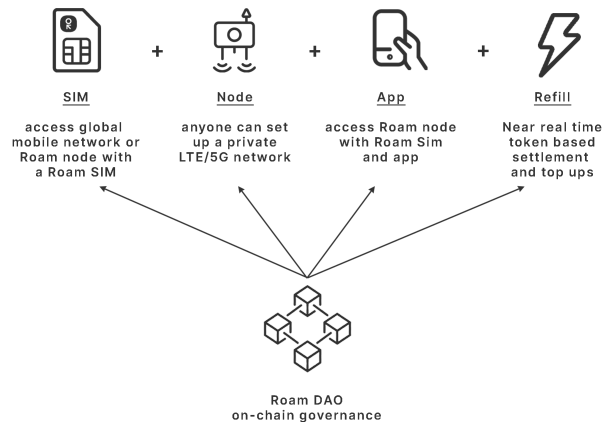


Fig.1: Roam components

As Roam SIMs and Roam enabled Web3 networks provide more utility than traditional alternatives, every user of a current mobile network is a potential Roam participant.

## Roam SIM with token based top ups

Anyone can join the Roam crypto powered connectivity ecosystem by putting a Roam SIM into his mobile device. Roam SIMs provide global or regional data access to public mobile networks.

Additionally Roam SIMs provide access to Roam private mobile networks.

Payments for network usage are made from the user's crypto wallet. In Roam the user is identified by the wallet, not credit card number or billing address as in the traditional telco ecosystem. This enhances privacy.

## Roam Web3 node with trustless near real-time settlement

Roam makes it easy for anyone to set up a mobile network that provides 4G or 5G connectivity for their community or local area. Roam turns a private mobile network into a Web3 consumer product. The economic incentives for building and operating a network are implemented with blockchain technology.

If you want to set up a Roam 4G or 5G node, you apply for a private network license, order a kit from Roam and set it up following Ikea style instructions. In an hour or so you have your own mobile network covering up to 10 km<sup>2</sup>.

As Roam node owner you receive Roam governance tokens as incentive for setting up and operating the network. You decide if and how the use of the network is priced and if visitors are allowed.

In Roam Web3 networks crypto tokens are used for charging. A trustless near real-time settlement scheme allows users to pay only for services actually delivered. Unlike in traditional prepaid charging the user can withdraw any unused funds and spend them somewhere else.

### Roam App

The Roam App provides users the means to easily navigate in the Roam ecosystem. It allows ordering SIMs and nodes. It provides a simple user interface for buying connectivity.

An easy-to-use wallet with fiat on/off ramp support hides much of the crypto complexities and to enjoy the incentives provided by the Roam DAO.

The Roam App also contains the Explorer, which shows nearby Roam nodes on the map.

### Roam Tokenomics

The ROAM token is ERC-20 based. It is used for governance and for rewarding Roam SIM users and node owners. The ROAM token is also used for revenue sharing, supporting network and ecosystem growth.

The initial token distribution is outlined in the chart below.

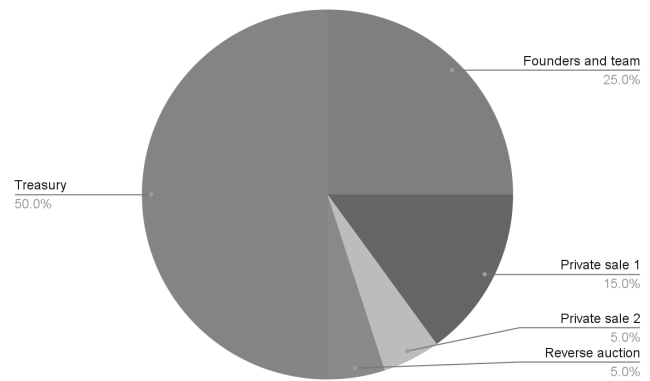


Fig.2: Roam token allocation

### Roam DAO opportunity

Roam takes advantage of a massive business opportunity created by the confluence of blockchain technology and the emergence of Internet access as the single most important communication service.

The liberalization of telecoms regulations has reached radio. In the US anyone can set up a CBRS radio. In the UK, Germany and Finland regional private frequency licenses are today readily available. Within some years unlicensed 5G (NR-U) is likely to create a global market for private 5G.

The project is designed by a founding team with deep experience in the telecoms industry, in service design and the crypto space.

Roam will be operated by a DAO where token holders steer the development and deployment focus of the system.