

DegenPhone

Litepaper

Bridging Blockchain and Telephony

DegenPhone is revolutionizing communication by merging blockchain technology with traditional telephony.

This document outlines the core features, use cases, and market opportunities of DegenPhone, a platform that allows users to mint NFT-backed phone numbers, providing a secure and anonymous communication channel.

With key features like real eSIM integration, web-based SMS access, and full transferability, DegenPhone aims to redefine digital ownership and communication privacy.

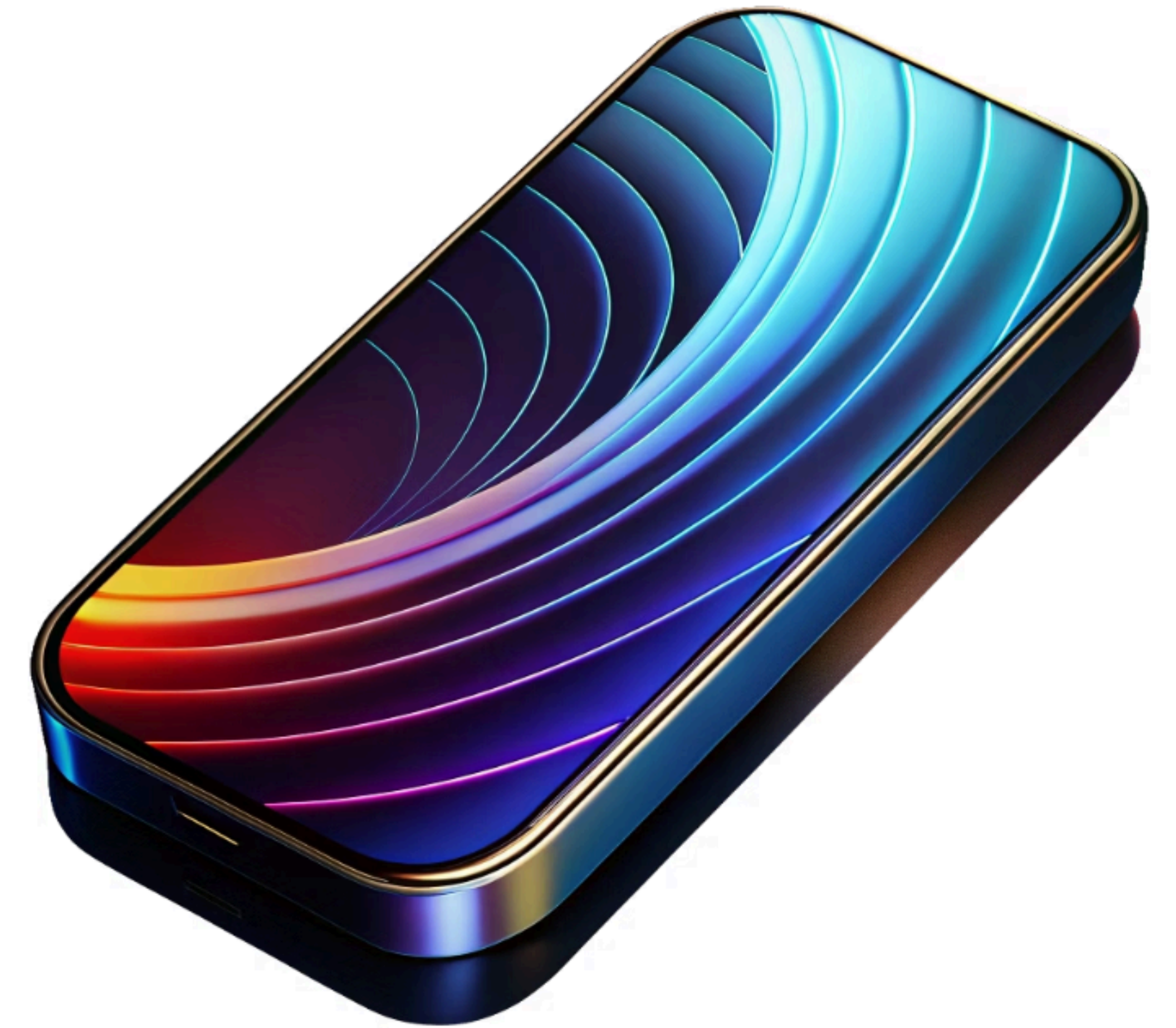
Overview

DegenPhone is a decentralized platform designed to integrate telecommunications with blockchain technology.

It enables users to mint phone numbers backed by NFTs on the **TON** chain. Each number is linked to a **real Tier 1 eSIM**, ensuring secure and private access to messaging and voice calls through the web interface.

These NFTs offer complete **tradeability**, transforming each phone number into a unique and valuable digital asset.

This innovative approach combines the utility of a phone number with the security and flexibility of blockchain technology.



The Problem: Centralized and Restrictive Communication

Current phone numbers are predominantly controlled by centralized carriers, closely tied to personal identities, and often restricted by geographical boundaries.

Privacy: This system lacks the privacy and flexibility that modern users demand. There is a growing need for communication tools that offer anonymity and user control, coupled with the advantages of blockchain-based ownership and transferability.

Transferability: Traditionally, phone numbers are tied to physical SIM cards and user identities, making them difficult to transfer or resell. Selling a number online typically involves risky workarounds, like shipping SIM cards or navigating complex carrier policies, which can compromise both security and convenience. This lack of portability limits the potential for numbers to be treated as digital assets or used flexibly across platforms.

A Decentralized Solution

DegenPhone offers a better solution by providing NFT phone numbers backed by **real eSIMs**. This approach enables secure text messaging and voice capabilities, all while ensuring user anonymity and control.

By owning the NFT, users gain full ownership of their phone number, allowing them to trade, sell, or transfer it freely.

This creates a decentralized communication channel that prioritizes privacy and flexibility. DegenPhone transforms traditional phone numbers into valuable and tradable digital assets.

Key Features

NFT-Powered Phone Numbers	NFT serves as a secure key to private communication.
Real Tier1 eSIMs	eSims are reserved with the provider.
Full Ownership	Number NFTs can be traded, auctioned, or transferred.
Web App Interface	Provides access to the phone capabilities
Text Messages and Calls	Users can receive SMS and calls
Multiple phones per wallet	Own and use as many phone numbers as you need

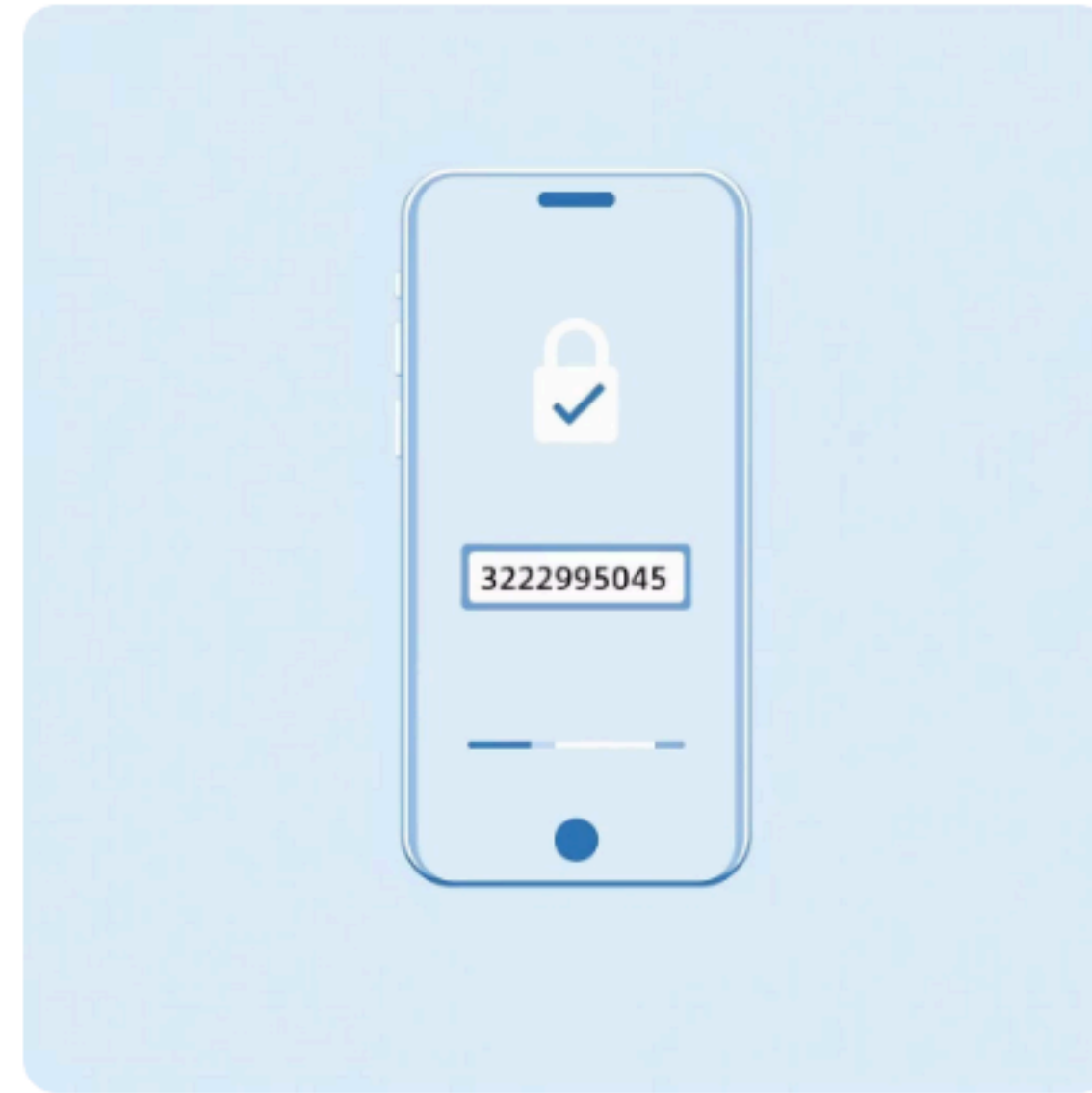
These features combine to offer a powerful and versatile communication tool.

Use Cases



Anonymous Registration

Use on exchanges, DeFi platforms, and social media.



Sms Verification

Register your account on any service with OTP.



AI and Bots

Enables programmable numbers for various applications.



Trading and Investment

Trade phone numbers as NFTs in marketplaces.

Market Validation and Comparison

The market has been validated by [Fragment.com](https://fragment.com), which has sold over **136,000 numbers** for Telegram use, generating **~\$100M** in volume.

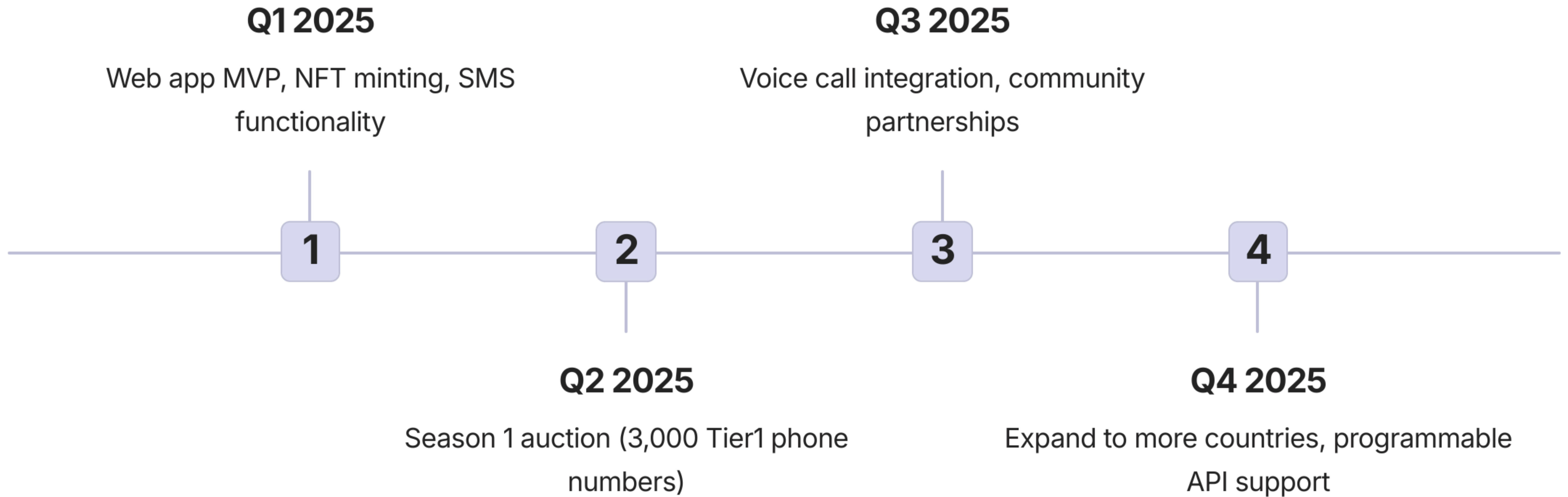
DegenPhone aims to expand this concept by offering full-spectrum telephony capabilities and targeting broader user applications. This positions DegenPhone to capture a significant share of the rapidly growing market for digital identity and anonymous infrastructure.

Advantage: While other services may offer partial solutions, DegenPhone distinguishes itself by providing real eSIM integration, full ownership through NFTs, and a secure web app interface for both SMS and voice calls.

Comparison Table

	DegenPhone	Fragment
<i>NFT Ownership</i>	✓	✓
<i>Real eSIM</i>	✓	✗
<i>Usage</i>	Full Telephony	Telegram-only
<i>SMS via App</i>	✓	✗
<i>Voice Call</i>	Possible	✗
<i>Transferability</i>	✓	✓
<i>AI Ready</i>	✓	✗
<i>Anonymity / Privacy</i>	✓	✓

Roadmap



Glossary

- **NFT (Non-Fungible Token):** A unique digital asset stored on the blockchain that represents ownership.
- **eSIM (Embedded SIM):** A programmable digital SIM that connects to mobile networks without physical cards.
- **TON (The Open Network):** A decentralized blockchain platform originally created by Telegram.
- **Tier1 Countries:** Nations with top-tier telecom infrastructure (e.g., US, UK, Germany).
- **Web App:** Browser-based interface for accessing messages and calls.
- **Programmable Numbers:** Numbers assignable to AI agents, apps, and bots for secure automation.