



***ULTIMATE DIGITS***

**Presentation for IEEE Pune Blockchain Forum | Feb 2024**

[www.ultimatedigits.com](http://www.ultimatedigits.com)



# Background



**Atharva Sabnis**

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## Work experience

Ultimate Digits

NFT Labs

Fractal AI

2 Startups

## Education

Rochester Institute  
of Technology

## Other

Draper University

Antler Singapore

Polkadot Blockchain Academy

GrowthX

## Speaker at

NFT NYC

Miami NFT Week

NFT LA

# The world's financial system is converging

## Bitcoin: A Peer-to-Peer Electronic Cash System

Satoshi Nakamoto  
satoshin@gmx.com  
www.bitcoin.org

**Abstract.** A purely peer-to-peer version of electronic cash would allow online payments to be sent directly from one party to another without going through a financial institution. Digital signatures provide part of the solution, but the main benefits are lost if a trusted third party is still required to prevent double-spending. We propose a solution to the double-spending problem using a peer-to-peer network. The network timestamps transactions by hashing them into an ongoing chain of hash-based proof-of-work, forming a record that cannot be changed without redoing the proof-of-work. The longest chain not only serves as proof of the sequence of events witnessed, but proof that it came from the largest pool of CPU power. As long as a majority of CPU power is controlled by nodes that are not cooperating to attack the network, they'll generate the longest chain and outpace attackers. The network itself requires minimal structure. Messages are broadcast on a best effort basis, and nodes can leave and rejoin the network at will, accepting the longest proof-of-work chain as proof of what happened while they were gone.

"Bitcoin is the first example of a digital good whose transfer stops it from being owned by the sender"

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**Gobal M2/M3 money is \$95T, India's M3 money is \$2.9T,  
Crypto M3 is \$1.7T**

"*Fiat* is the Latin word for 'let it be done.' Money becomes fiat when it is decreed into existence by government fiat, or by government decree."

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# Money moves with ledgers, not bridges

Cash

Cheques

IMPS

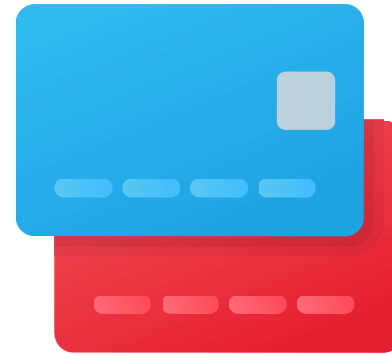
RTGS

NEFT

Cards

Internet Banking

E-wallets



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# Money moves with ledgers, not bridges

Cash

Cheques

**IMPS**

RTGS

**NEFT**

Cards

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E-wallets



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**Launched in 2016, UPI has acceptance in 12 countries,  
with parallel systems in others**



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# UPI introduced interoperability in a fragmented payments infrastructure

- ❑ Cross-Bank Transactions
- ❑ Multiple Payment Providers: Banks, digital wallets, fintechs → Payment Service Providers (PSPs)
- ❑ QR Code Integration: QR codes simplify payments
- ❑ Standardization: Consistent communication and transaction processing
- ❑ Real-Time Settlement: instant fund transfer between accounts, regardless of the bank
- ❑ Third-Party Apps: Additional services and functionalities
- ❑ Aadhaar Integration: KYC



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# UPI has surpassed all other payment mechanisms in usage frequency and volume

- ✓ 70% of all digital transactions
- ✓ Also used for direct benefit transfers and subsidies
- ✓ 11 billion
- ✓ Rs. 730

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# Fragmentation in the crypto assets transfer ecosystem resembles pre-UPI India

- ❑ Lack of Standardization: Multiple blockchain networks with diverse protocols and features.
- ❑ Non-Interoperability: Difficulty in transferring assets seamlessly between different blockchains.
- ❑ Limited Accessibility: Users must set up wallets on various blockchain networks.
- ❑ Complexity: Navigating multiple blockchains requires understanding their unique features.
- ❑ Reduced Efficiency: Interoperability challenges lead to longer settlement times and higher fees.

# We simplify crypto transactions by linking people's phone numbers to their crypto wallets



Bank account linked to phone number



ACCOUNT NUMBER

1234-XXXX-XXX-XXXX

Enter a phone number

Pay someone using a UPI verified phone number

+91+ 93111 25996

Step 1

Step 2

Step 3

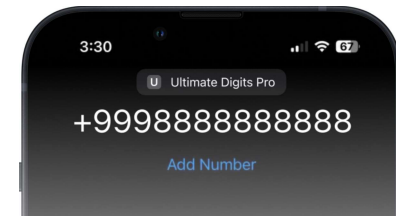
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Crypto wallet linked to phone number



WALLET ADDRESS

1Lbcfr7sAHTD9CgdQo3HTMTkV8LK4  
ZnX71



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# Ultimate Digits provides superior Web3 UX

Imagine sending money to

“6506421980”

vs.

“1A1zP1eP5QGefi2DMPTfTL5SLmv7”

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# Fragmentation in the crypto assets transfer ecosystem resembles pre-UPI India

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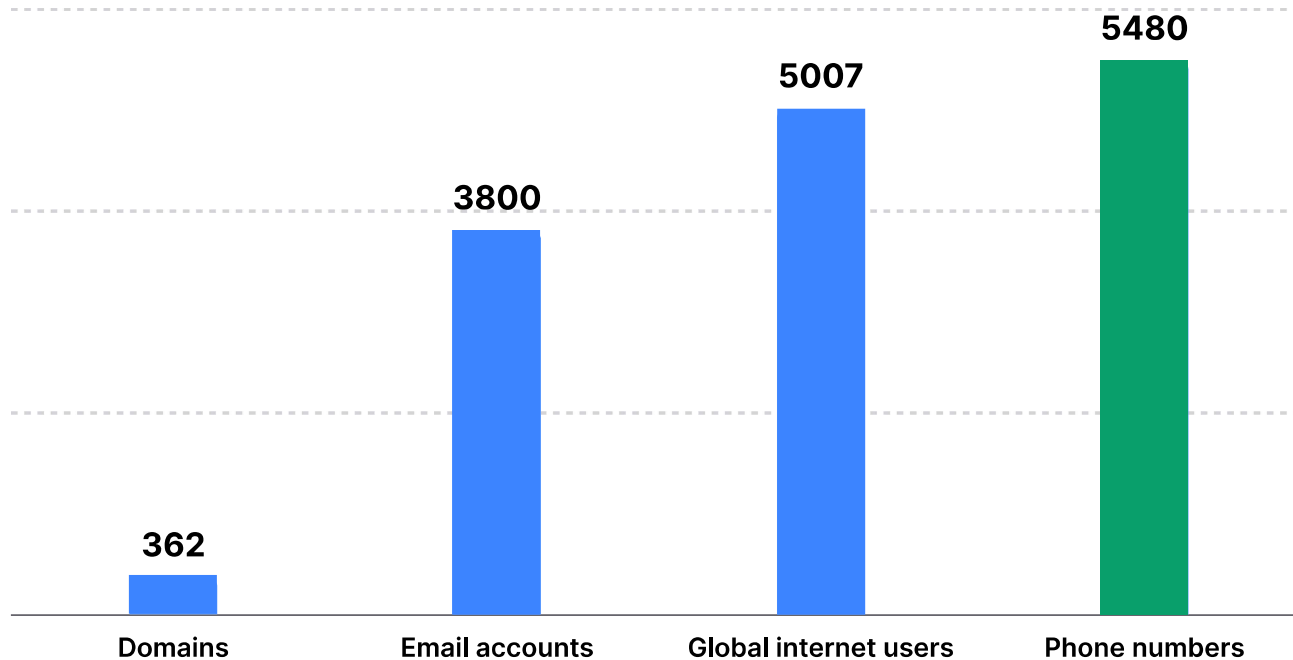
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# Asset transfers are needed by a variety of solutions

- ☑ Wallets
- ☑ Fiat onramps
- ☑ Payment gateways
- ☑ CEXes
- ☑ DEXes
- ☑ Social dApps
- ☑ NFT renting protocols and products
- ☑ NFT marketplaces
- ☑ Staking protocols
- ☑ Web3 games

# Why isn't your mobile number your Web3 username?

Values in millions



There are 20x more mobile numbers in existence than domain names - mobile numbers are already the largest social graph.

# Domain names are NOT the future of Web3 identity

**3%**

of internet users own a domain name

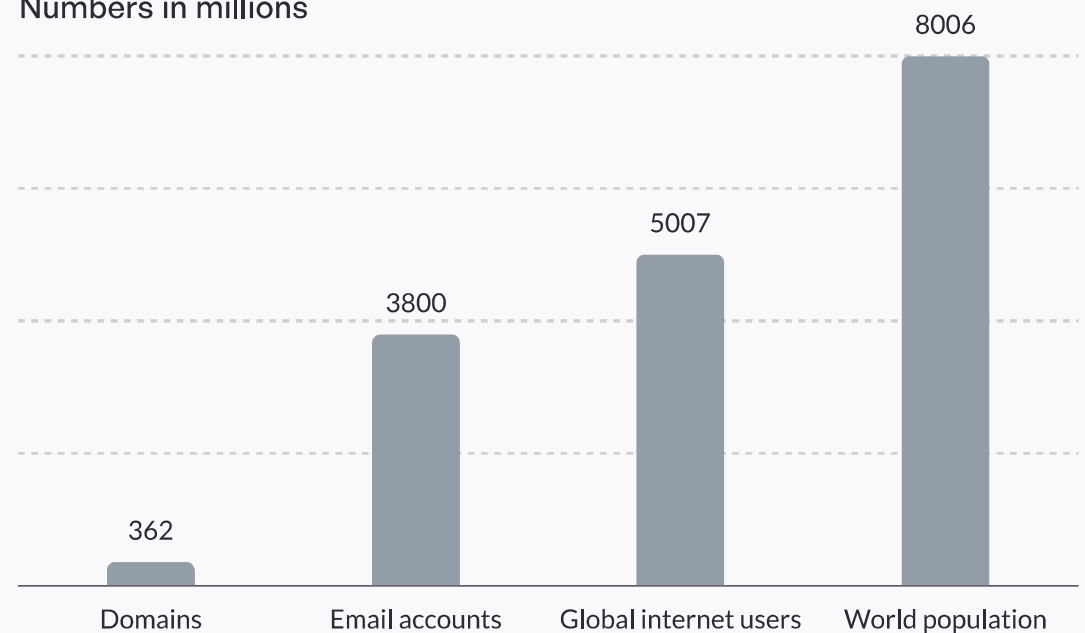
**362M registered domains**

majority are owned by registries

**Why?**

Not every one wants to build their own website!

Numbers in millions





# Phone numbers are an exponentially better instrument for Web3 identity

## Phone Numbers > Domain Names



Real-world utility



Web2 giants are pushing smartphone penetration



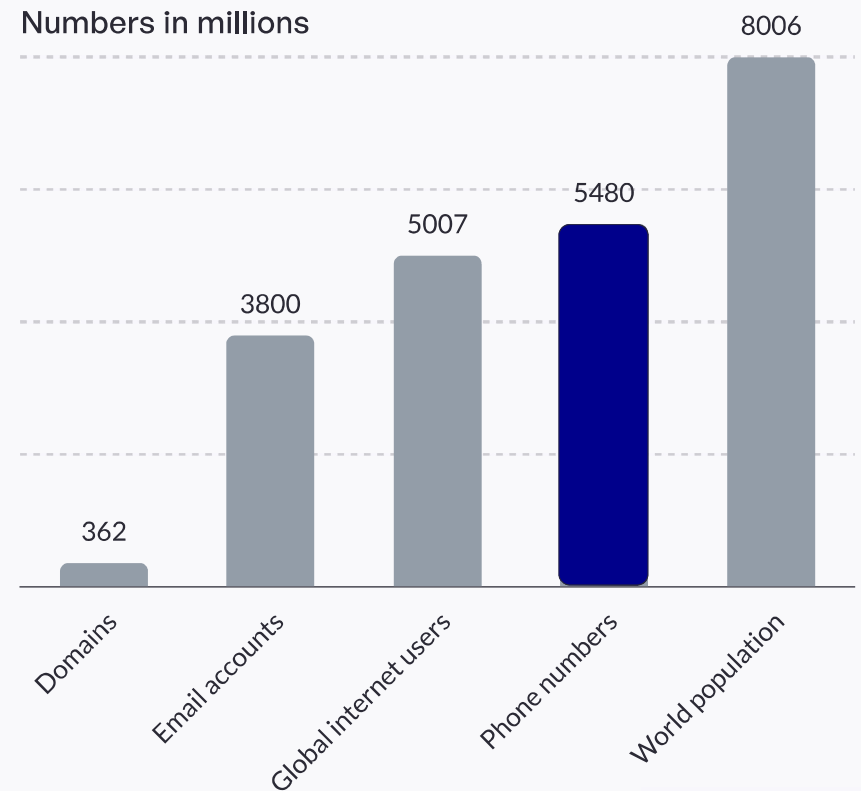
Mass-market adoption

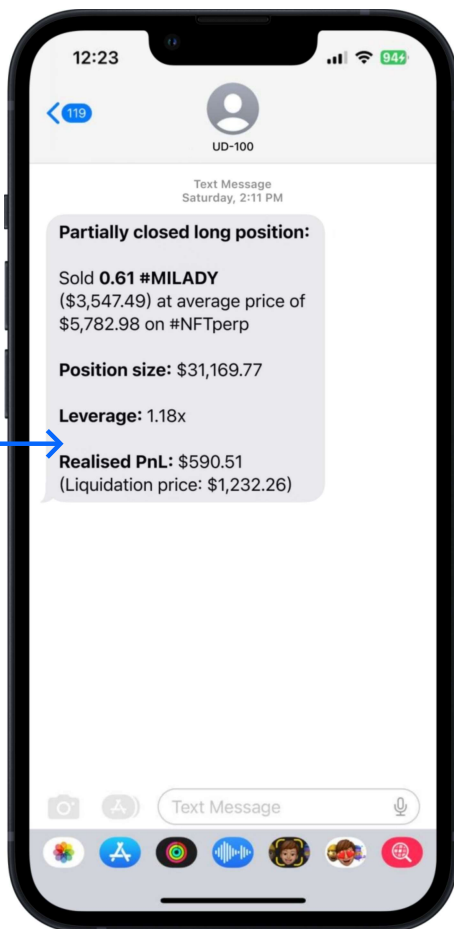
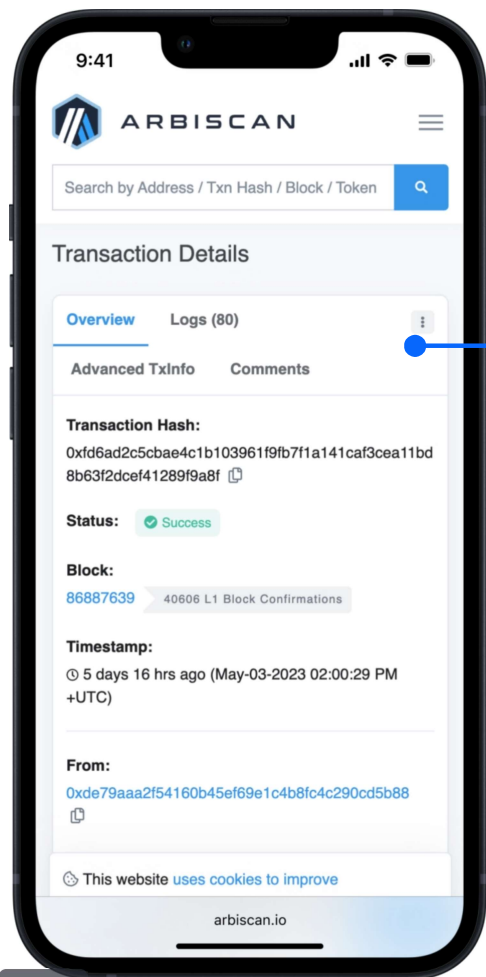


High usage and sharing frequency



Low entry barrier to utility





## Our product also includes other features that make it compelling

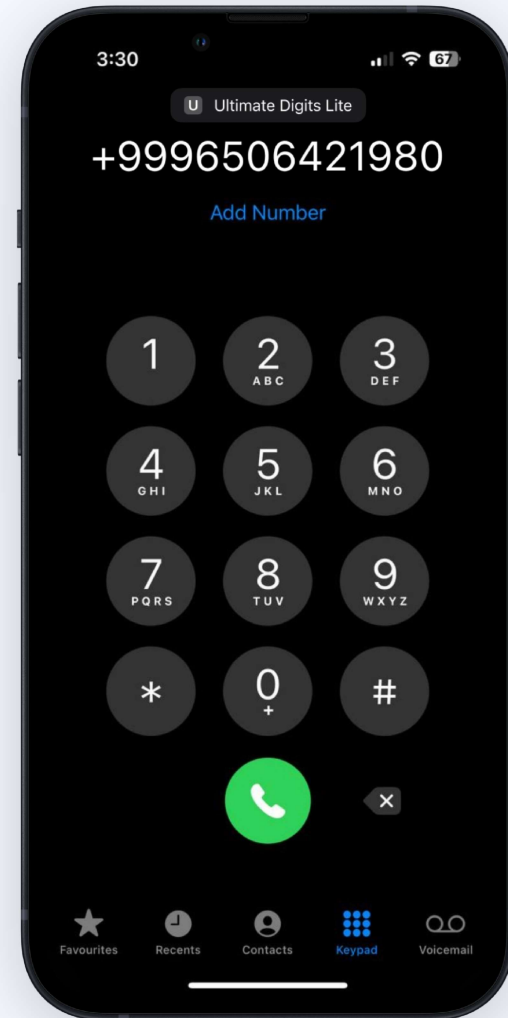
- ☑ No wallet? no problem. Sign up with us using your phone number, email, or socials, and we'll auto-create a wallet for you
- ☑ Forget crypto transaction hashes or blockchain scanner URLs - we send you easy to understand text notifications to confirm transactions
- ☑ Retain flexibility to use your real-world phone number, or use our NFT Web3 virtual numbers for privacy and vanity
- ☑ We have exciting new features coming your way:
  - App-free transactions using hashkey commands
  - Multi-factor authentication
  - Decentralized VOIP
  - Web3 messenger

# Users can personalize and trade their Ultimate Digits numbers

## Personalized Numbers

Custom virtual mobile numbers as ERC-721 NFTs

- **Text & Push Notifications**
- **Send & Receive Crypto Without any App**
- **Take Control of Your Communication**
- **Multi-Factor Authentication**



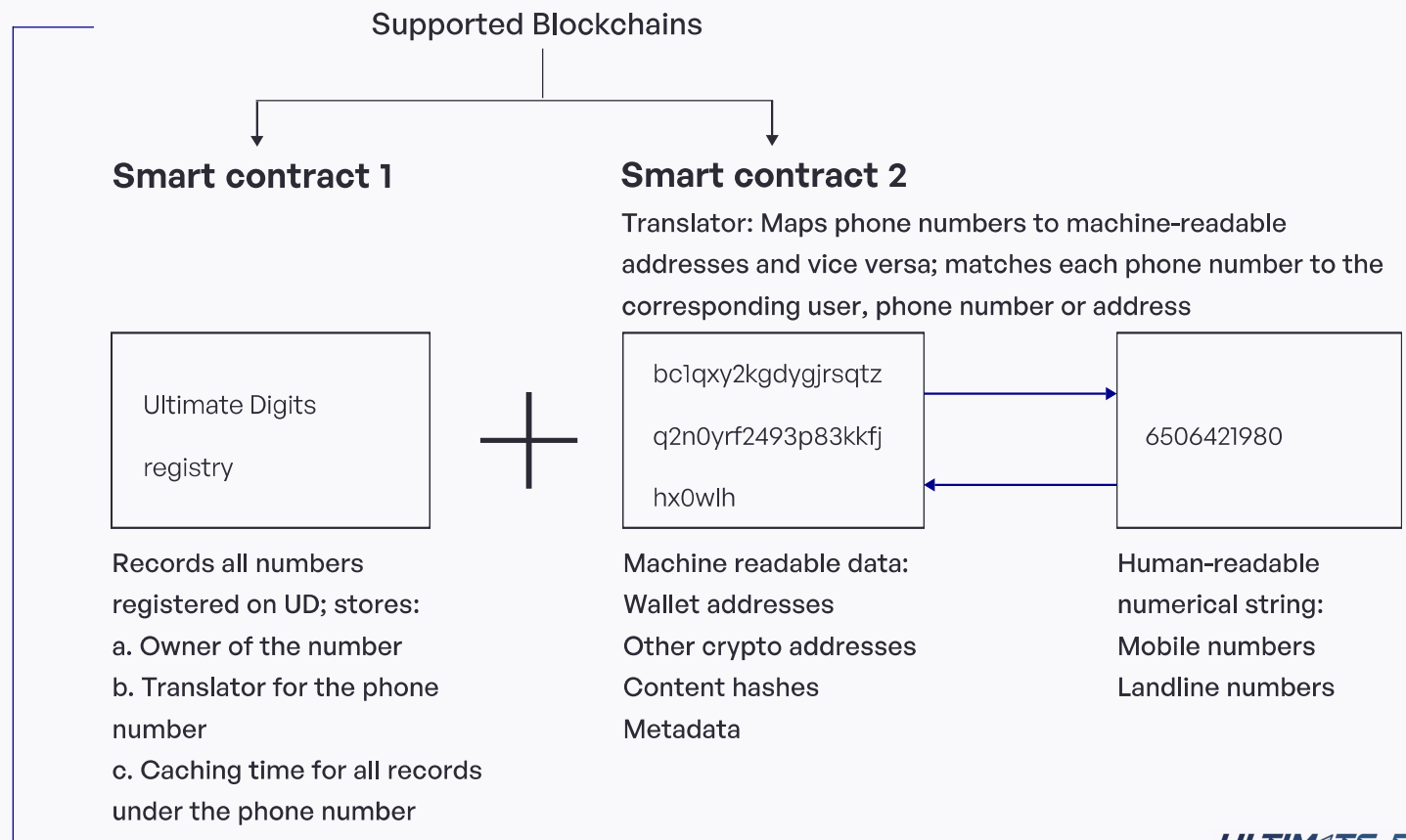
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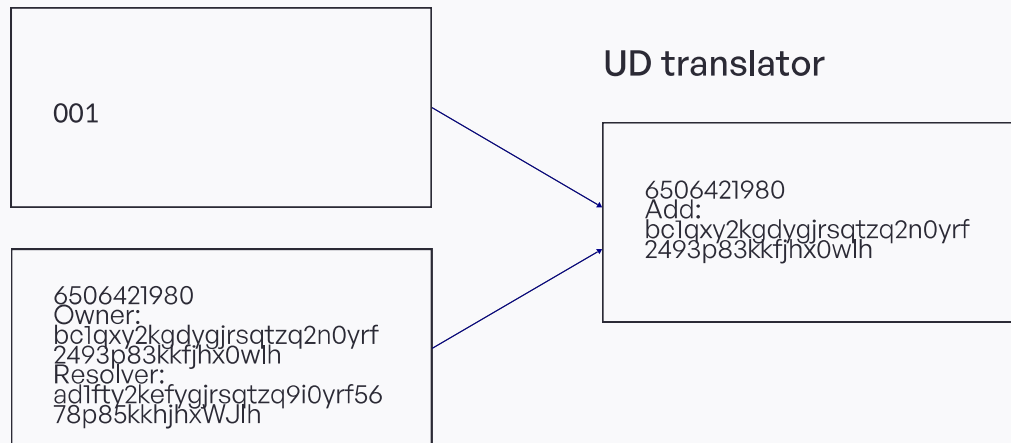
# We map phone numbers to wallet addresses and give those numbers to users as NFTs

Ultimate Digits is built on a pair of two smart contracts for every supported chain



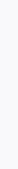
# Our proprietary "Translator" enables this

Ultimate Digits (UD) registry



DNS

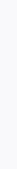
Domain name



IP Address

ENS

Domain name



Ethereum Address


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Phone number





Crypto Address

# Phone numbers are crucial economic infrastructure - there is immense value in making them the foundation for digital identity in Web3

 Phone numbers hold significant economic value as intellectual property and marketing assets



 The number could be lost just by missing a renewal payment and losing that identity forever

 Transferring a number is a painful process that suffers from human error and poor service from an oligopoly of telecom providers



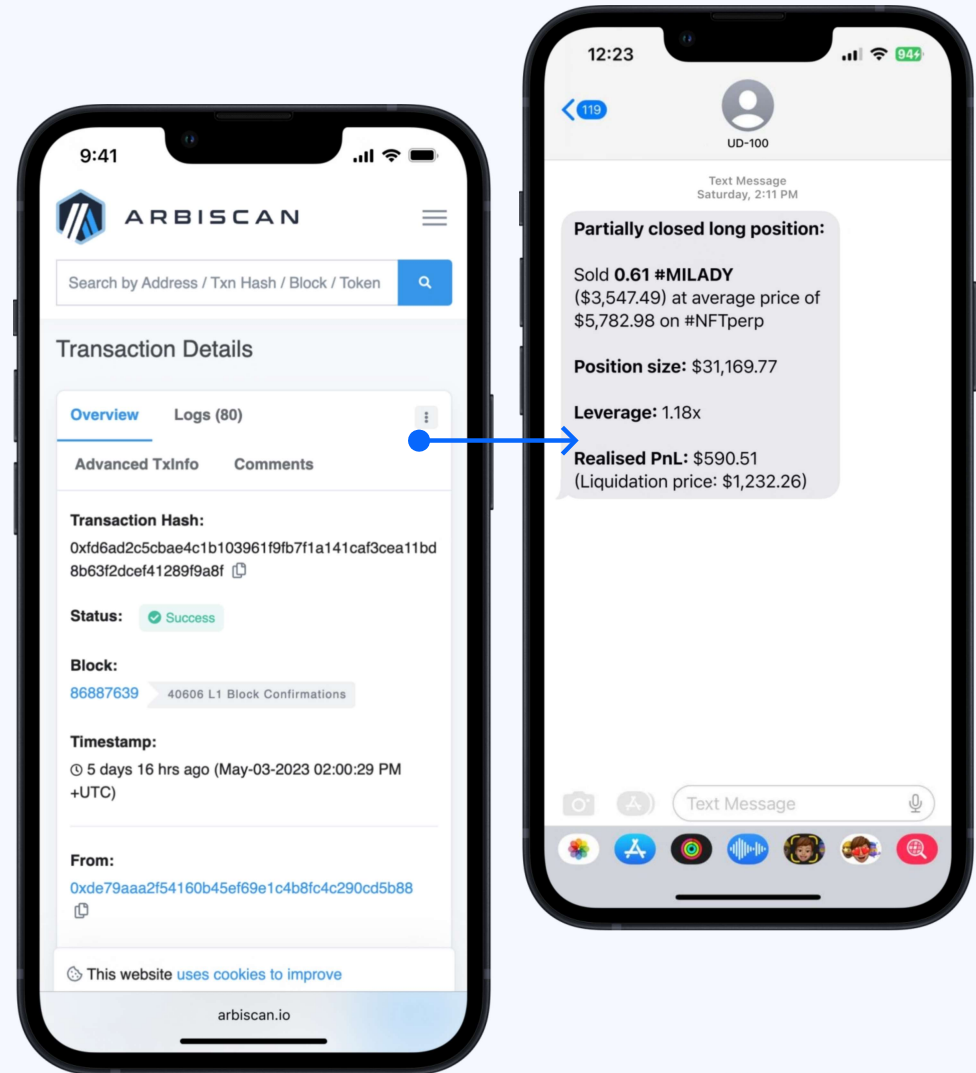
# Users get Web3 notifications via text or push on their virtual or regular mobile number

- **Personalized Numbers**

## Text & Push Notifications

Push or text message notifications for Web3 transactions, floor prices, dApp communications and more. We also make complex Web3 transaction human-readable

- **Send & Receive Crypto Without any App**
- **Take Control of Your Communication**
- **Multi-Factor Authentication**





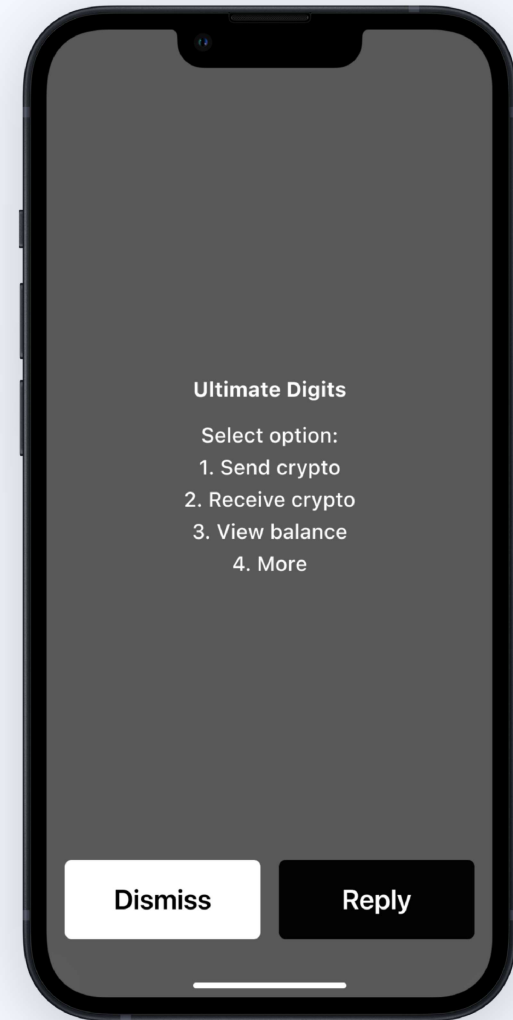
# USSD codes and hashkey commands to send and receive crypto without app

- **Personalized Numbers**
- **Text & Push Notifications**

## Send & Receive Crypto Without any App

Hashkey functions with USSD codes for balance lookups, transaction history and more

- **Take Control of Your Communication**
- **Multi-Factor Authentication**



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# Users control data visibility, and contact permissions, and can use our VOIP & messenger

- **Personalized Numbers**
- **Text & Push Notifications**
- **Send & Receive Crypto Without any App**

## Take Control of Your Communication

App to receive push notifications, control who contacts you and for what purpose, link wallet addresses to Ultimate Digits numbers, and to use Molly-fork messenger and decentralized VOIP

- **Multi-Factor Authentication**



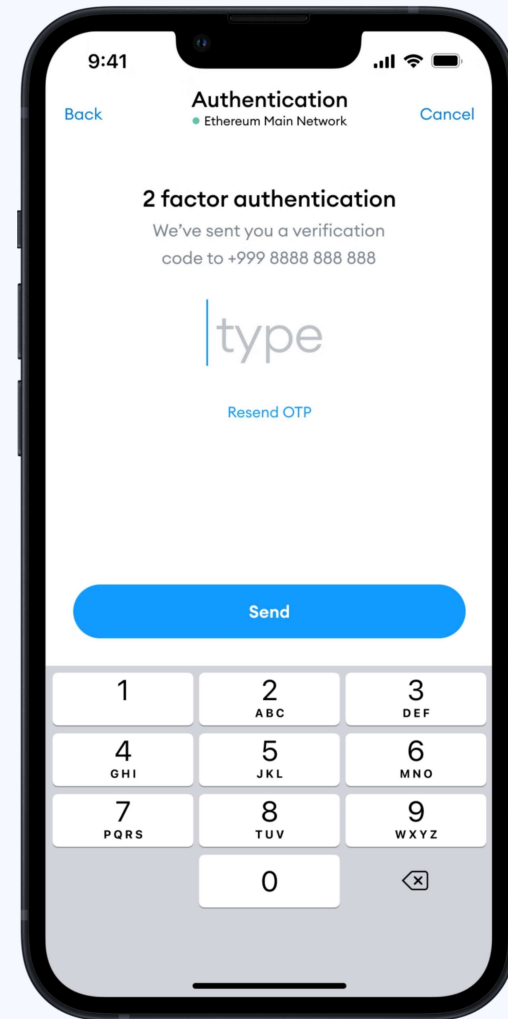
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# ERC4337-enabled multi-factor authentication to ensure unparalleled security of transactions

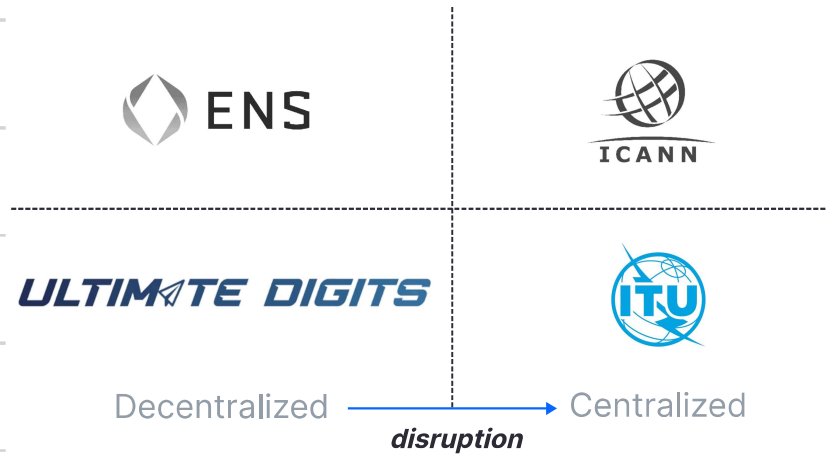
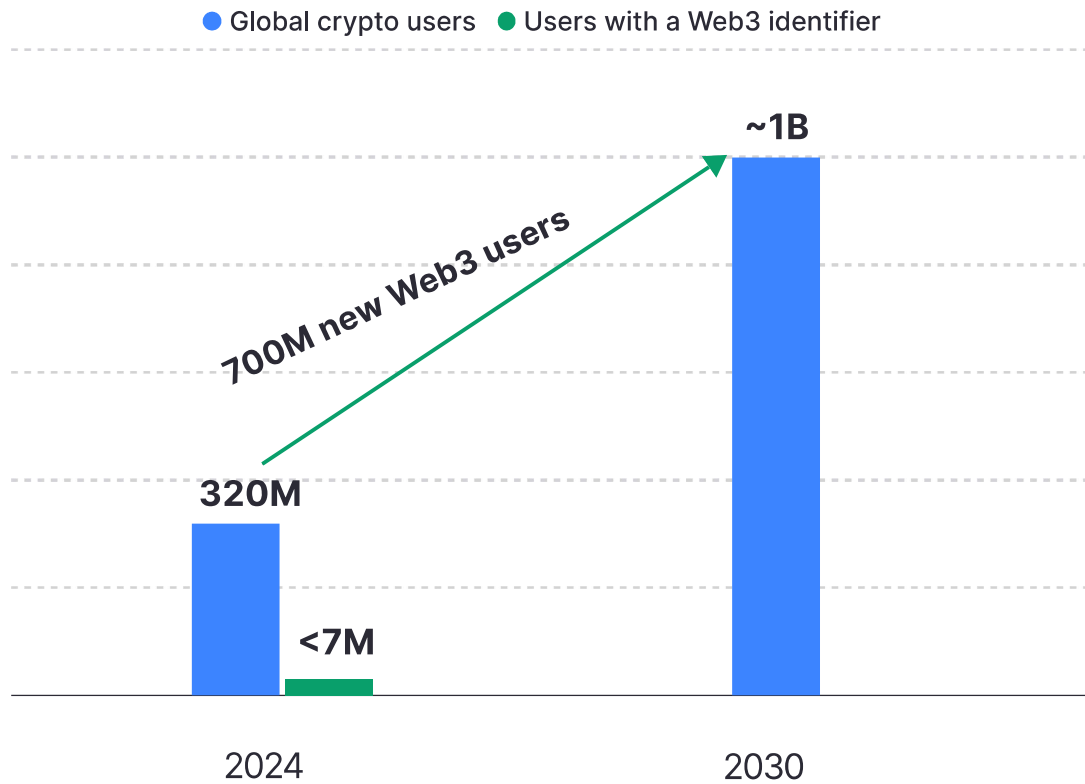
- Personalized Numbers
- Text & Push Notifications
- Balance and Transaction Inquiry
- Take Control of Your Communication

## Multi-Factor Authentication

[Read this](#) to discover how Ultimate Digits reinvents transaction confirmations with advanced multi-factor authentication



# This is the best time to build Ultimate Digits!



# Our key highlights include incredible customer and partner traction, proving demand for our product

## ACCELERATORS



## REGULATORY



## INTEGRATION PARTNERSHIPS



# We're a B2C super-app, with a freemium business model

**\$5** Sales of NFT phone numbers

**0.1%** Transaction fee



Auctions of vanity numbers



Subscription for pro features



API licensing



Discover our growth strategy [here](#)

# We have evidence that we're building something that people want!

**11,000+** Connected wallets

**39,000** Pre-registrations

+

**25,000+** Community

 GALXE



**NFT** <sup>NYC</sup>



**Outer Edge | LA**  
formerly **NFT|LA**

# Ultimate Digits = ultimate utility

Human-readable payments

Humanity check

Digital business cards

Crypto address

2FA authentication

USSD/Hashkey functions

Reputation

Defi login

Digital identity

Personalized numbers

Text & push notifications

Gaming & metaverse login



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# Ultimate Digits = ultimate utility

- ☑ Phase 1: P2P crypto and NFT transfers based on mobile numbers
- ☑ Phase 2: Integration with PayNow for supporting transfers in fiat as well as crypto
- ☑ Phase 3: Delegation of transaction validation with Ultimate Digits mobile app (**DePIN**)
- ☑ Phase 4: eSIM-enabled decentralized VOIP and wallet-to-wallet chat (**DePIN**)
- ☑ Phase 5: Long-range WAN hardware dissemination to validators to provide connectivity (**DePIN**)



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**Your Phone Number → Your Crypto Wallet**

[www.ultimatedigits.com](http://www.ultimatedigits.com)



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