

■ BiddyPhone Whitepaper

Democratising Bitcoin Mining Through Mobile Infrastructure
Version 0.1 (Public Release)

■ Executive Summary

BiddyPhone is a groundbreaking project that combines custom ASIC mining, satellite communications, and mobile computing into a decentralized smartphone platform designed to serve the unbanked and off-grid population of the world.

By enabling users to mine Bitcoin with solar power and satellite connectivity, BiddyPhone transforms the smartphone into a vehicle for universal basic income (UBI) and economic sovereignty, especially in regions where traditional financial infrastructure is absent.

■ 1. The Vision

“Sovereignty in your pocket.”

Billions lack access to stable income, banks, and secure digital infrastructure — but most have a phone. BiddyPhone redefines what a phone can do: not just connect you, but earn for you. We aim to:

- Distribute Bitcoin mining rewards as daily UBI
- Use renewable energy and satellite sync for true autonomy
- Build local financial sovereignty into every device

■ 2. The Problem

- 1.4 billion people remain unbanked
- 3+ billion lack stable internet
- Bitcoin mining remains centralized, costly, and opaque
- Economic opportunities remain geographically and politically gated

■ 3. The Solution

BiddyPhone is an open-hardware, solar-powered smartphone that mines Bitcoin and provides off-grid connectivity via LEO satellites and mesh networking.
Key Features:

- Ultra-low-power ASIC mining chip
- Solar charging wrap for daily energy
- Satellite sync and LoRa/BLE mesh fallback
- Lightweight Bitcoin node with secure wallet

Modular DeFi interface and UBI distribution system

■ 4. Technical Architecture

4.1 Hardware

- Custom SHA-256 ASIC (sub-1W mobile-optimized)
- Dedicated security coprocessor (wallet isolation)
- Satellite modem (LEO-band compatible)
- GSM + WiFi fallback radios
- Renewable energy input (solar panel + battery)
- Thermally efficient chassis for tropical deployment

4.2 Software

- BiddyOS: AOSP fork, hardened and containerized
- Mobile-optimized Bitcoin node + BlockSync service
- Custom Proof-of-Work tuning algorithms
- On-device wallet with recovery
- UBI distribution logic (local + satellite sync)
- Optional DeFi app integrations (DEX, lending, etc.)

4.3 Satellite Infrastructure: “Gold Satellite”

- LEO satellite constellation
- Optimized for low-latency Bitcoin sync
- Redundant global coverage
- Mesh node aggregation uplinks
- Block snapshot & reward broadcast

■ 5. Economic Model

5.1 UBI Distribution

- Daily reward per person: 100 sats
- Global cap: 8B people × 100 sats = 0.8 BTC/day
- Annual distribution: 2,920 BTC/year
- Percent of total BTC supply: 0.0139% annually
- Time to distribute 21M BTC: ~7,192 years

5.2 Mobile Mining Rewards

- ASIC performance adjusted by solar uptime + network conditions
- Local mesh pools aggregate hashes
- Satellite broadcasts handle difficulty + sync
- Rewards delivered in real BTC, not tokens

■ 6. DeFi Layer

6.1 Lending Protocol

- On-device microloans via P2P smart contracts
- Asset-backed lending with variable interest rates
- Risk models based on uptime, solar history, and identity proofs

6.2 Financial Features

- Integrated Lightning wallet
- Cross-chain swaps (via atomic swaps or bridges)
- DEX access for open liquidity
- Custodial options for regions with regulatory needs

■ 7. Regulatory & Compliance

- Local certifications (spectrum, device emissions)
- Satellite provider licensing (ITU compliance)

- Data sovereignty compliance (GDPR-adjacent where applicable)
- AML/CFT frameworks for UBI rewards
- Educational frameworks for adoption

■ 8. Environmental Impact

- Sub-1W mining ASICs + solar = ultra-low energy profile
- 3–5W solar wrap with ~18 hr/day operating target
- Modular chassis for repair/recycling
- Hardware lifecycle goals: 5+ years per unit
- Satellite network reuse/sharing with partners

■ 9. Risks & Mitigations

Risk	Mitigation
ASIC chip failure	Redundant logic, warranty repair
Network sync gaps	Local mesh fallback + cache
Regulatory blocks	Country-specific legal liaisons
Energy shortfall	Solar profiling + UBI rate tuning
Device theft	Wallet lockout, remote wipe

■ 10. Implementation Roadmap

Phase	Timeline	Key Milestones
R&D	Months 1–6	ASIC specs, satellite protocol, software prototype
Prototype	Months 7–12	Build ASIC, UI app, satellite testbed
Testing	Months 13–18	Hardware + network stress tests
Infra	Months 19–24	Satellite deployment, ground station builds
Beta	Months 25–30	Beta devices + DeFi MVP in test markets
Rollout	Months 31–36	Global launch, support systems, mass production
Ecosystem	Months 37–48	Developer tools, partner APIs, expanded services

■ 11. Pilot Programs (2026)

Kenya: Solar-rich + mobile money infrastructure

Philippines: Archipelago = ideal for mesh/satellite

Ghana: Supportive telcos + co-op energy grid

Each pilot will include 5,000–10,000 devices with local orgs and educational partners.