# Welcome to the CDL13:20 Whitepaper

“Our whitepaper is not a rigid business document. It’s a living, creative explanation of CDL1320 — our vision, our model, and how you can be part of it. Think of it as a guidebook or story that evolves with our community.”

## Regenerative Land- and Time-Backed Token Ecosystem (Fedimint Edition)

## Whitepaper – Version 3.0
## Ciudad de Luz 13:20

Last updated:
**Mayan Calendar : 13.0.12.15.13, 6 Cib in the Tzolk’in, and the 14th day of K’ank’in in the Haab’**
[Gregorian Calendar: Aug 28 2025]

## 1. Executive Summary

The City of Lght 13:20 (CDL1320) is a regenerative biocommunity in Quintana Roo, Mexico, designed to merge **land stewardship, decentralized governance, and spiritual alignment**.
Our ecosystem is supported by **three tokens**:

- **CDLC** (Conservation Token, 1:1 with m² conserved)
- **CDLP** (Pioneer Token, 1:10 with m² developed)
- **CDLT** (Time Bank Token, 1 hr = 1 CDLT for community services)

All tokens are issued and managed via **Fedimint federation of guardians**, ensuring sovereignty, resilience, and privacy.

The project begins with a **Pioneer Council of 8–12 core members**, expands to a **Council of 40 families (parents with children)**, and then grows carefully to **500–1500 residents**, establishing a replicable model for regenerative living worldwide.

# 2. Introduction

This document is the culmination of months of dialogue, reflection, and refinement.

It is more than a technical paper — it is a **living roadmap for a regenerative community**.

From the very beginning, our goal has been clear: to create a **biocommunity in the heart of the Mayan jungle**, inspired by permaculture principles, that protects the land, restores biodiversity, and offers a new model for living in harmony with nature. To make this vision real, we knew we needed more than inspiration — we needed a **transparent, resilient, and sustainable framework**.

Through deep exploration of **governance models, land stewardship, and community-driven finance**, we have evolved from traditional blockchain tokenization toward a more **sovereign and human-centered system**. Our discovery of **Fedimint federations** has allowed us to design a token ecosystem that is both **decentralized and community-custodied**, aligning with the principles of Natural Law.

The result is a **three-token system**:

- **CDLC** for conservation of land,
- **CDLP** for pioneer-led settlement and development,
- **CDLT** for time-banked contributions that value every member's service equally.

Together, these tokens form the backbone of a regenerative economy, governed by a **DAO Council** that grows in phases: beginning with **8–12 Pioneers**, expanding to **40 families**, and eventually scaling to **500–1500 individuals**.

Every section of this whitepaper is guided by two principles:

- **Clarity** for those new to Web3 and regenerative finance.
- **Rigor** for those building and governing the system.

We invite you to read this whitepaper not only as a technical explanation, but as a **story of possibility**. What you hold is a blueprint for the New Earth — and an invitation to co-create it with us.

# 3. Vision & Purpose

CDL1320 exists to restore harmony between nature, economy, and human settlement. It offers a sovereign ecosystem where aligned individuals co-create a **New Earth paradigm**, guided by **Natural Law** and the **Tzolkin calendar**.

# 4. Problem Statement / Context

Humanity faces critical challenges:

- **Ecological collapse** from deforestation and industrial farming
- **Urban disconnection** from land, food, and community
- **Centralized financial systems** that exploit rather than regenerate
- **Loss of sacred time** due to the mechanization of life (12:60 calendar)

CDL1320 addresses these by building a **living model of harmony**, powered by regenerative finance and time-based exchange.

# 5. Land Asset Overview

- **Total property:** 150 hectares
- **Conservation zone:** 105 ha (designated for preservation, no development)
- **Development zone:** 45 ha (reserved for community living and regenerative enterprise)

This structure allows us to tokenize land without exploiting it, channeling resources into preservation while enabling sustainable community creation.

# 6. Token Architecture

**Three-pillar token system via Fedimint:**

1. **CDLC (Conservation Token)**
    - 1:1 with 1 $m^2$ conservation land
    - Fixed supply: 1,050,000 tokens

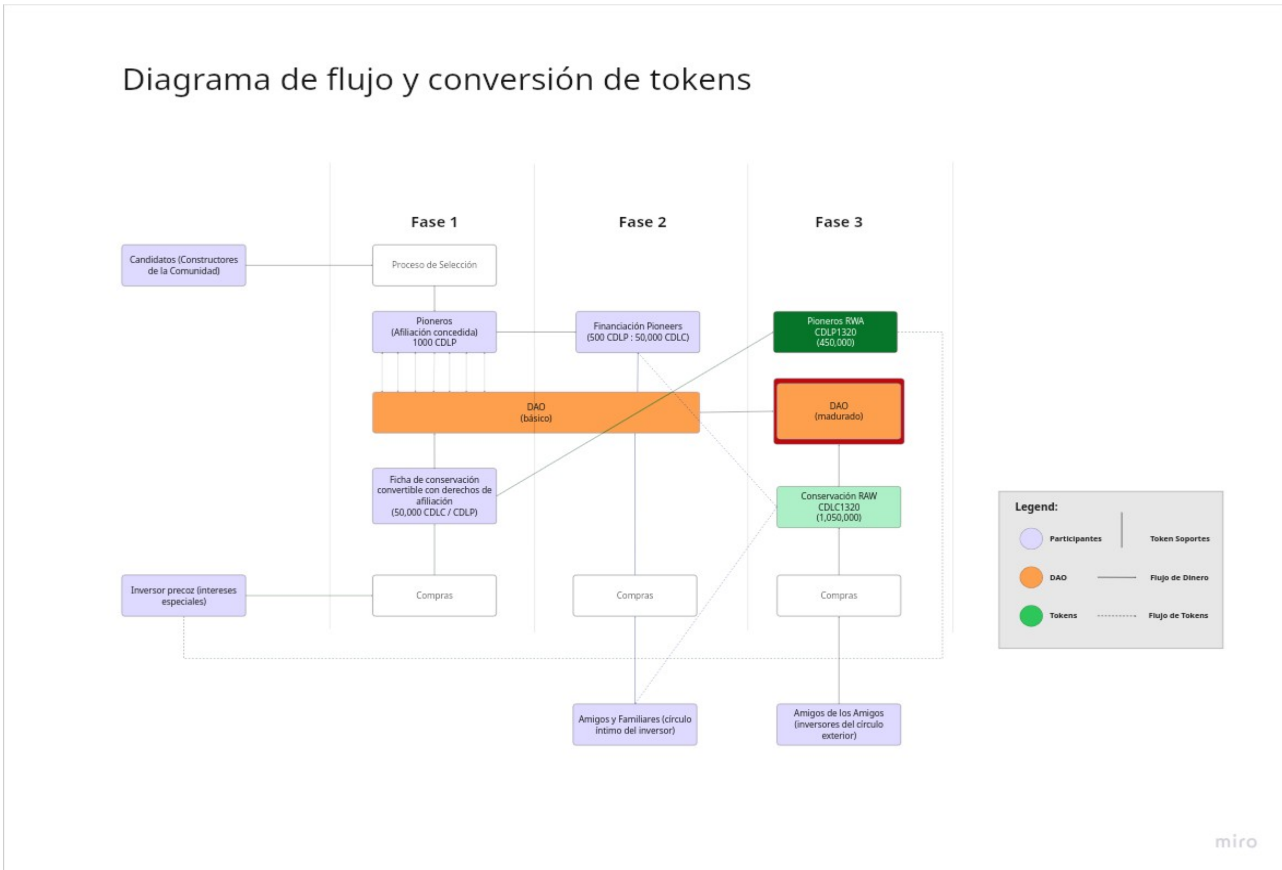
2. **CDLP (Pioneer Token)**
    - 1:10 with 1 m² development land (1 token = 10 m²)
    - Max supply: 45,000 tokens
3. **CDLT (Time Bank Token)**
    - 1:1 with one hour of service
    - Unlimited supply, dynamically issued
    - Baseline flat value, with DAO policy bonuses

# 7. Token Flow & Conversion Diagram

This section explains how CDL1320 tokens are **created, distributed, and transformed** within the **Fedimint federation**.

- **Creation:**
    - **CDLC** issued for conservation (fixed supply, 1:1 m²)
    - **CDLP** issued for pioneer development (fixed supply, 1:10 m²)
    - **CDLT** issued dynamically as members contribute hours of service
- **Distribution:**
    - **Pioneers (8–12)** receive initial allocations of CDLP to establish the first infrastructure and governance.
    - **Conservation investors** receive CDLC allocations (direct 1:1 with land).
    - **DAO treasury** holds reserves of both CDLC and CDLP to secure future growth.
- **Conversion Rules:**
    - **CDLP ↔ CDLC**: Pioneer tokens may be partially converted back to conservation tokens when land is restored or development rights are returned.
    - **DAO approval** is required for all conversions.
    - **CDLT** is not convertible into land tokens but can be redeemed for services, products, or community participation.

- **Fundraising Pathways:**
  - DAO may authorize partial **sales of CDLC** to fund conservation and infrastructure.
  - Pioneer allocations of CDLP may be bonded into CDLC for aligned external fundraising.
- **Governance Control:**
  - All conversions require **DAO proposal and Fedimint guardian signatures**.
  - This ensures transparency, accountability, and ecological integrity.



# 8. Fundraising Phases

### Phase 1 – First Private Token Sale (Convertible CDLC → CDLP Round)

**What it means:**

- Launch the **first private fundraising round** targeting early aligned investors.
- Issue **Convertible Conservation Tokens (CDLC)** that can later be converted to **Pioneer Tokens (CDLP)** with DAO approval.
- Form the DAO treasury and appoint an initial governance team.

**Phase 2 – Site Preparations & Team Infrastructure**

**What it means:**

- Onboard Pioneers and establish initial operational team.
- Begin site clearing, basecamp preparation, and installing essential services.
- Strategic partners begin participating in development planning.

**Phase 3 – Convertible CDLP → CDLC Round**

**What it means:**

- Enable select Pioneer members to sell **part of their Pioneer token allocation** as **Conservation tokens** to raise funds for their personal projects and community builds.
- Strengthens liquidity and broadens token distribution.

**Phase 4 – Products & Services Infrastructure**

**What it means:**

- Build facilities required for CDL1320's primary regenerative industries:
  - Honey production & processing.
  - Artisan craft workshops.
  - Eco-tourism accommodations.
- Expand operational capacity for larger events and visitors.

**Phase 5 – Liquidity & Scaling**

**What it means:**

- Implement liquidity programs to stabilize and grow the CDL1320 token economy.
- Encourage token holding through rewards and staking models.
- Support scaling of local production and cooperative structures.

**Phase 6 – Value Appreciation**
**What it means:**

- As infrastructure nears completion and production increases, the value of CDL1320 tokens grows naturally through:
  - Increased land value.
  - Higher revenue from operational activities.
  - Greater DAO treasury strength.
- Attract strategic reinvestment to accelerate community growth.

**Phase 7 – Production**
**What it means:**

- CDL13:20 operates as a fully functioning regenerative economy.
- Production is at full scale:
  - Honey & craft products.
  - Eco-tourism packages.
  - Educational retreats.
- Revenues are reinvested into new projects, DAO rewards, and expanding into other regenerative developments.

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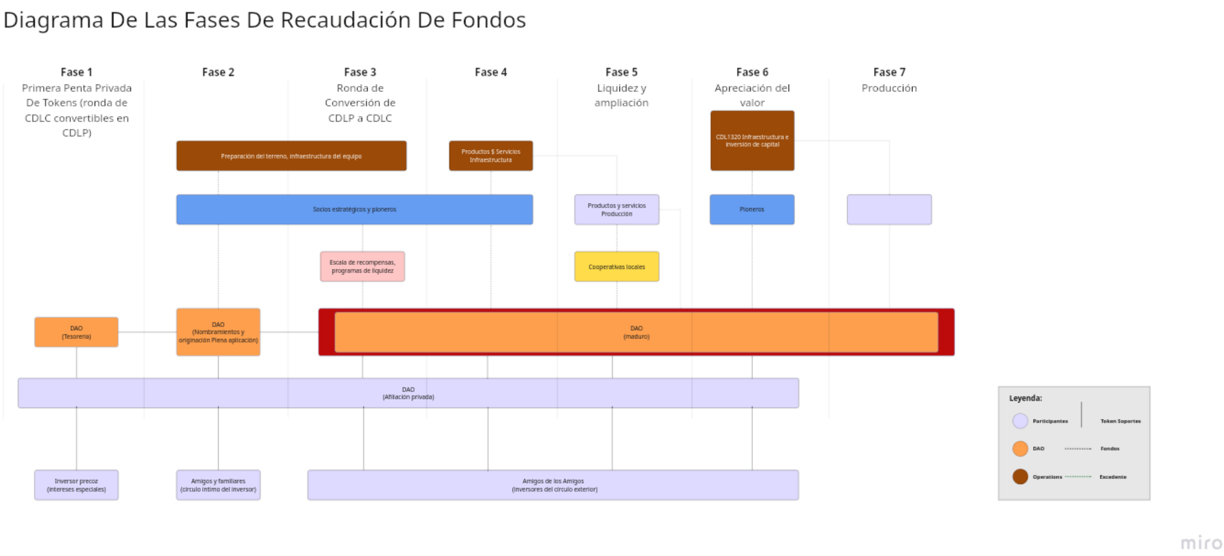

# 9. 3-Year Investor Experience Timeline

CDL13:20 COIN – Conservation Investor Journey

**Year 0 – Entry Point: Discovery & Purchase**
**What the investor experiences:**

- Visits the **CDL13:20 website or landing page**
- Reads a clear and compelling **vision**, token utility, and land conservation purpose
- (Optional) Watches a video about Ciudad de Luz 13:20 and the land project
- Purchases tokens (e.g. 100 tokens = 100m²) through:
    - Crypto wallet (ETH, USDT)
    - Credit/debit card (via Stripe or similar)
- Receives:
    - Confirmation of token ownership
    - NFT or token in their wallet
    - Welcome message / onboarding email
- Access to **investor dashboard**, where they can:
    - See their land-backed tokens
    - View an **interactive map** of the land (approximate token-backed zones)
    - Access updates, events, DAO invitations

**Year 1 – Initial Impact & Engagement**
**What the investor experiences:**

- Sees regular **updates**:
    - New structures built (glamping, gardens, water systems)
    - Progress on the community
    - Reforestation or conservation milestones
- Receives **impact reports**:
    - X trees planted
    - Biodiversity restored
    - Community members housed
- May participate in early-stage **DAO polls** (governance)
    - Example: vote on themes for reforestation, types of future eco-products
- Receives **early token holder perks**:

    - Discount codes
    - Free night stays (glamping)
    - Early access to crafts, natural products, retreats

**Optional engagement:**

- May stake tokens to earn returns or impact rewards
- May resell tokens on a private marketplace or transfer to a family member

**Year 2 – Tangible Rewards & Reputation**
**What the investor experiences:**

- CDL13:20 is now hosting eco-events, healing retreats, educational gatherings
- Receives:
    - **Annual Certificate of Regeneration** (proof of land impact)
    - Free invitations or online access to community content
- CDL13:20 Coin may be listed on **impact or land-based token platforms**
    - Investor sees their tokens gain visibility and symbolic value
- Value increase:
    - Potential increase in token market value if trading allowed
    - Possibility of buyback or shared revenue (if DAO votes for that)

**Year 3 – Maturity & Long-Term Positioning**
**What the investor experiences:**

- CDL13:20 is more established: more housing, biodiversity restored, full calendar of retreats, educational programs, energy systems online
- The CDL13:20 Coin has:
    - Community governance model in place
    - Resale marketplace or DAO-utility use
    - Solid track record of land impact
- The investor is invited to:
    - Join exclusive impact programs
    - Nominate new investors
    - Support new bioregional projects with CDL13:20 Coin as base
- Optional long-term exit:
    - Resell token
    - Hold indefinitely

- Donate token to a conservation trust
- Convert to other regenerative assets (if ecosystem grows)

# 10. Governance & DAO Constitution Summary

The **CDL1320 DAO** is the ultimate decision-making body. It governs the treasury, community membership, and development path through **transparent proposals and voting**.

- **DAO Authority:**
  - Votes on **conversions, budgets, amendments, and new members**
  - Controls **treasury allocations, development zoning, and expansion projects**
  - All **CDLP holders** (minimum 0.5 ha) are full DAO members with voting rights
  - **CDLC holders** may receive perks and benefits but do not hold voting power
- **Fedimint Guardians:**
  - Serve as the **executive layer** of the DAO
  - Carry out treasury actions (minting, burning, disbursements) strictly according to DAO-approved instructions
  - Provide operational security, privacy, and resilience
- **Community Stages:**
  - **Pioneers (8–12 members):** Form the first council, committing 260 days to establish the foundation, culture, and first Fedimint guardianship
  - **Council of 40 families:** Ensures multigenerational stability, education, and balance at the core of CDL1320
  - **Expansion Phase:** Gradual growth to **500–1500 individuals**, governed by DAO consensus and aligned with ecological capacity

This dual structure balances **community sovereignty (DAO governance)** with **operational trust (federated guardianship)**, ensuring that **the will of the community directs all actions** while guardians safeguard execution.

# 11. Ecosystem & Project Outputs

CDL13:20 will generate value across multiple layers:

- Land regeneration + eco-certification
- Glamping, retreats, wellness services
- Jungle crafts, melipona honey, sacred products
- Digital education, spiritual content, language school
- Social Services such as elderly care & animal shelter centers
- Innovation lab (off-grid tech, natural construction)

# 12. Value Growth & Appraisal Model

CDL13:20 Coin value increases via:

- Land value appreciation (natural capital + improved infrastructure)
- Land infrastructure development, access road roads, security, amenities and certifications
- Ecosystem revenues reinvested in DAO
- Quarterly impact reports & reappraisals
- Limited supply = scarcity + utility
- DAO may initiate buybacks or revenue sharing

# 13. Financial Allocation Table

| Area | % of Funds |
|---|---|
| Land preservation (CDLC) | 35% |
| Infrastructure & housing | 25% |
| Pioneer support (materials) | 10% |
| Ecosystem tools & tech | 10% |
| DAO treasury & operations | 15% |
| Legal, security, platform | 5% |

# 14. Roadmap Highlights

**Phase 1 – Pioneers (Year 1)**

- Establish **8–12 Pioneer members** as the seed group
- Launch base camp (Tumben Chankaj 13:20)
- First Fedimint federation + token issuance
- Start glamping, honey production, eco-tourism

**Phase 2 – Council of 40 (Years 1–2)**

- Expand to 40 families (parents + children)
- Build eco-homes, healing center, eco-school MU
- DAO + Fedimint fully operational

**Phase 3 – Growth (Years 3–4)**

- 150+ residents and continuous retreats
- Lightning + Fedi modules fully integrated

**Phase 4 – Full Operation (Years 5+)**

- Gradual expansion to **500–1500 participants**
- Scaling CDL1320 globally as a replicable model

## 15. Security, Privacy & Recovery

- No KYC required (private DAO membership)
- Token ownership tied to wallet & recovery email
- Optional DAO-based recovery of lost tokens after 3 years of inactivity (pending vote)

## 16. Why It Matters

CDL13:20 is not just a token — it's an invitation to co-create the New Earth. Through conscious investment, land stewardship, and decentralized governance, we activate a sacred future rooted in beauty, abundance, and community.

## 17. Legal & Compliance Framework

- Operates under **Natural Law principles**
- Private, member-based DAO; no public exchange listings
- Land held in DAO-controlled trust/cooperative
- Tokens follow private placement structure, avoiding public securities classification
- All major decisions governed by DAO vote

# 18. Risk Factors & Mitigation

| Risk | Description | Mitigation |
|---|---|---|
| Market Risk | Fluctuations in crypto and land markets may affect token liquidity and value. | Encourage long-term holding, maintain stable DAO governance, diversify income streams. |
| Legal & Regulatory Risk | Changes in regulations could impact token classification or land tokenization rules. | Operate as a private DAO, monitor legal landscape, maintain adaptable governance. |
| Environmental Risk | Climate events or ecological changes could impact land health or productivity. | Implement regenerative land management, biodiversity buffers, and disaster resilience plans. |
| Governance Risk | Low participation or dominance by a small group could harm DAO decision-making. | Minimum token holding for voting, reputation-based voting weight, onboarding new members. |
| Operational Risk | Technical failures, cyber-attacks, or loss of key DAO members could disrupt operations. | Smart contract audits, multi-signature treasury control, backup systems, and security protocols. |

# 19. Technical Architecture Overview

- **Fedimint:** token issuance + custody
- **Guardians:** federated multi-sig security
- **Lightning Network:** fast, private transactions
- **Fedi App Modules:** community governance, services, marketplace

# 20. Impact Measurement Framework

- **Ecological:** Land preserved, biodiversity, reforestation
- **Social:** Jobs created, cultural/educational events
- **Economic:** Treasury growth, token participation
- Quarterly DAO impact reports