Libertas

Real Human Digital Identity
Verified by Bitcoin

White Paper

The Future of Digital Identity

Imagine a world where you could prove any aspect of your life with 100% certainty, but without ever revealing sensitive documents, personal information or anything about your identity.

Libertas ID

Verified by Bitcoin

LibertasID.org

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The Identity Crisis in Web3 & Beyond

Digital identity is fundamentally broken. Legacy systems rely on centralized control, data silos and privacy compromises, while existing blockchain solutions fail regulatory compliance and mainstream adoption. Without trusted, privacy-centric, decentralized identity (DI), Web3 and digital economies remain vulnerable to fraud and regulatory hurdles.

A $200 Billion Market Opportunity

The global digital identity market is projected to reach $200 billion by 2030,[a, b] driven by the rise of Web3, digital wallets, AI-driven verification and privacy regulations (GDPR, eIDAS 2.0). Institutions, decentralized platforms and, of course users, urgently need privacy-first, compliant identity solutions.

1st Proof-of-Identity Layer Verified by Bitcoin

Libertas introduces digital identity "Verified by Bitcoin" - the world's first portable, self-custodial and Bitcoin-anchored identity framework. Combining institutional-grade verification (*Veriff*), *Chainlink* Decentralized Oracles (DECO), Zero-Knowledge Proofs (ZKPs) and Bitcoin Ordinals, *Libertas* transforms digital identity into a new asset class where self-sovereign identity is guaranteed and 100% trustworthy.

Libertas solves the identity crisis, providing a regulatory-compliant, privacy-first protocol while introducing *Decentralized Trust Communities* and the concept of *Trust As A Service* (TaaS) for the first time and opening entirely new financial opportunities in decentralized markets.

The Digital Identity Crisis

In an increasingly digital world, proven identity is the foundation of trust. Whether accessing financial services, verifying credentials or participating in online communities, individuals must either prove who they are or reveal specific details about themselves. Yet existing systems, both centralized and decentralized, have failed to deliver a secure, privacy-preserving and universally accepted solution that can be 100% trusted.

Frequent data breaches, government overreach and identity fraud have decreased confidence. Individuals are forced to expose excessive personal information just to prove basic attributes, while corporations continue to profit from personal data. Meanwhile, digital platforms struggle to differentiate between real users, AI bots and fraudsters leading to a crisis of confidence and trust in personal identity. It's a problem that demands urgent innovation.

1.1 The Failures of Centralized Identity Systems

Our digital identities are generally controlled by worldwide governments, corporations and financial institutions. Whilst generally accepted, millions of innocent people have found themselves unwitting victims.

◆ **Security Breaches & Single Points of Failure**

- **Equifax 2017**: Over 160 million identities exposed, including Social Security numbers and credit data[1].
- **Starwood & Marriott 2014-2020**: Over 500 million customer records stolen, proving even corporate giants cannot secure personal information[2].
- **Aadhaar 2018 (India's National ID System)**: Repeated breaches exposed biometric and demographic data of over 1 billion citizens[3].

◆ **Government & Corporate Control Over Identity**

- **Authoritarian Regimes**: Political dissidents can be blacklisted, denied banking services or even stripped of legal identity.
- **Democratic Nations**: Banks, tech companies and social media platforms have unchecked power to "debank"[4] users or ban accounts without due process.
- **Surveillance Economy**: Tech giants monetize personal data[5], sometimes selling identity profiles to advertisers while most users lack control over their digital footprint[6].

1.1 The Failures of Centralized Identity Systems (cont.)

◆ **Privacy Tradeoffs & Over-Exposure of Personal Data**

Regulatory frameworks like GDPR[7](EU) and CCPA[8] (California) mandate privacy protections, yet centralized identity systems force users to over-disclose and distribute personal data:

- Repetitive KYC ("Know Your Customer") checks mean individuals submit the same identity documents in different places, losing control and increasing the potential of identity theft.
- Basic identity verification (e.g. to prove age) requires submission of documents where additional unnecessary personal details are revealed and sometimes stored.
- Sensitive personal data is stored across multiple centralized databases that users forget and have little, if any, rights or control over how it's managed or used.

1.2 The Challenges of Decentralized Identity

To counter centralized risks, a number of *Decentralized Identity* (DI) projects have sought to give users more control over their credentials. However, real-world adoption has been challenging due to four fundamental issues:

1.2.1 Lack of Real-World Verification

Most DI models rely on self-attestation, meaning users create their own digital identity without any third-party validation.

This creates critical security flaws:

◆ **Fake Identities** can be generated at scale (Sybil attacks), allowing fraudsters and AI bots to impersonate real people.

◆ **Credentials Aren't Recognized** Businesses, governments and institutions do not accept self-attestations, rendering them useless in regulated industries.

◆ **No Pillar of Trust** Without trusted verification, DI lacks credibility as a replacement for centralized identity systems.

1.2.2 Legal, Compliance & Regulatory Conflicts

DI faces compliance challenges that also make adoption difficult:

◆ **Right to Be Forgotten**: GDPR-style regulations require that personal data be deletable, yet blockchain-based identity records are usually permanent.

◆ **Legal Uncertainty**: Most governments do not recognize pure DI frameworks.

◆ **Lack of Standardization**: Competing DI solutions use different protocols, preventing widespread interoperability and adoption.

1.2.3 Private Key Management Risks

Users are entirely responsible for managing private keys which introduces new risks:

◆ If a user loses theirs, they lose access to their DI forever.

◆ DI lacks practical recovery mechanisms, making it impractical for mainstream users.

◆ Stolen private keys allow identity theft, with no recourse for recovery.

1.2.4 Inaccessible or Locked Data

Every website and platform that users interact with contain important data and attributes that remain locked and inaccessible. Opportunities to leverage this data for the benefit of users are usually impossible and inevitably lost.

1.2 The Challenges of Decentralized Identity

1.2.5 Identity Expiry & Fraud Prevention Issues

Real-world identity credentials expire (passports, driver's licenses, etc.), yet most DI models lack mechanisms to update or revoke outdated credentials.

◆ Without trusted verification processes, fraudulent identities persist indefinitely.
◆ Without controlled checks, DI expires and lacks the ability to ensure validity over time.

Given that DI is unlikely to completely replace traditional identity systems, the acceptance of the role and benefits of centralized identity is necessary.

Any trustworthy DI project looking to achieve mass adoption requires a hybrid model: one that balances privacy with the essential elements of real-world user authentication.

1.3 Why Blockchain-Based Identity Has Failed So Far

Blockchain has been widely proposed as a solution to digital identity, but most implementations have failed due to high costs, poor accessibility as well as scalability or regulatory challenges.

◆ **ION[9] (Microsoft's Bitcoin-Based DID)** – *Too Complex, No Verification*
  • Uses Bitcoin to anchor decentralized identifiers, but lacks real-world identity verification.
  • Anyone can generate unlimited DIDs, creating major Sybil attack risks.

◆ **Ethereum-Based Identity Systems** – *Expensive & Impractical*
  • Identity frameworks like *uPort*[10] and *Sovrin*[11] require gas fees, making verifications costly and impractical.
  • Ethereum's network congestion and high fees prevent adoption.

◆ **Worldcoin**[12] – *Biometric-Based, but Privacy-Invasive*
  • Uses iris-scanning for identity verification, but has been banned in multiple countries (Spain, Hong Kong) due to privacy concerns.
  • Collecting biometric data contradicts privacy-first principles, making it an unacceptable solution for users who value security.

Verified by Bitcoin

The Future of Decentralized Trust

The failures of both centralized and decentralized identity (DI) systems have made one thing clear: a new hybrid approach is essential. Without trust, privacy and verifiable authenticity, no identity system can achieve mass adoption or real-world utility.

Libertas pioneers the next evolution in digital verification - a privacy-first, self-sovereign proof system where identity is authenticated, but personal data remains untouchable.

By integrating institutional-grade KYC & biometric authentication, *Chainlink's* Decentralized Oracles (DECO),[13] Bitcoin Ordinals and Zero-Knowledge Proofs (ZKPs), *Libertas* delivers the first-ever user-controlled identification verification protocol that is secure, censorship-resistant and universally recognized.

Beyond identity, *Libertas* unlocks entirely new datasets, untapped markets and brings them together into *Decentralized Trust Communities* (DTC) for the first time. *Libertas* also introduces the idea of *Trust as a Service* (TaaS), where it's possible to prove and share almost <u>any</u> personal attribute in a trustless, verifiable way.

2.1 No Trust Means No Identity

The fundamental basis of any identity protocol is trust: the absolute, indisputable guarantee of user authenticity, backed by the credibility and reputation of the verifying authority. Without this, both centralized and decentralized identity systems inherit critical weaknesses that erode adoption, restrict real-world usability and ultimately fail to scale.

In today's world, any DI system focused on mass adoption must find privacy-preserving ways to leverage trusted verification standards while preserving user autonomy, data integrity and self-sovereignty. *Libertas* achieves this by bridging the gap between institutional-grade verification and cryptographic decentralization, ensuring compliance, security and accessibility without compromising user control or privacy.

Libertas introduces "Verified by Bitcoin": a hybrid verification model that anchors real-world KYC and biometric authentication to a self-sovereign DI protocol, enabling users to generate, manage and even self-custody their own personal attributes stored as ZK Proofs. These cryptographic proofs represent an individual's verifiable truth without ever exposing personal data.

With *Libertas*, users own their identity, selectively sharing only what's necessary while keeping their sensitive information private, secure and beyond the reach of centralized control. This is not just a step forward for DI, it is a new standard for trust and reputation in the digital age.

2.2 Libertas: Built on Foundations Everyone Already Trusts

Unlike every other decentralized identity (DI) project, *Libertas* is built on a globally accepted foundation of trust which ensures seamless adoption and real-world credibility from day one. By leveraging *Veriff's* internationally recognized identity verification infrastructure,[14] *Libertas* guarantees that only real people participate in the ecosystem - an industry-first that positions *Libertas* as the leading privacy-preserving identity framework.

To encourage adoption, users are incentivized to undergo a one-time, Veriff-powered identity check. Acting as a privacy firewall, *Veriff* ensures that all personally identifying information remains securely within its system and is never accessible to *Libertas*. Instead, *Libertas* creates only a cryptographic Zero-Knowledge Proof (ZKP) of successful verification, enabling users to prove their identity without exposing sensitive data.

This verification process is multi-factor, fully compliant and globally recognized:

◆ **ID Document Authentication:** Veriff already supports over 12,000 document types across 230+ countries in 48 different languages ensuring global trust and accessibility.

◆ **Biometric Analysis**: AI-powered facial recognition ensures the document belongs to a real person who has not already been verified.

◆ **Liveness Detection:** Prevents fraud by verifying that the user is physically present and not using deepfake or spoofing attacks.

The Perfect Pillar of Trust

Libertas combines institutional-grade verification, cryptographic privacy and decentralized ownership to create a digital identity protocol that is secure, scalable and built for real-world adoption.

◆ **Globally Recognized, AML & KYC Compliant**

Veriff's infrastructure is already trusted by international governments, financial institutions and Web3 platforms. Respected and used daily by some of the world's largest corporations including *Visa* and *Amazon Web Services*, it provides a level of verification credibility unmatched by any existing DI protocol.

◆ **Privacy-Preserving & Trustless**

Veriff acts as a trusted identity firewall. *Libertas* never sees, stores, processes or reverse-engineers any personal data. Instead, it receives only a cryptographic proof of user verification which provides guaranteed assumptions about associated identity attributes derived from the user's ID document.

2.2 Libertas: Built on Foundations Everyone Already Trusts (cont.)

The Perfect Pillar of Trust (cont.)

◆ **Immutable Identity Ownership**

A Zero-Knowledge Proof (ZKP) of *Veriff's* confirmation is generated and cryptographically inscribed on Bitcoin Ordinals, creating a permanent, tamper-proof identity anchor that is fully self-sovereign and censorship-resistant.

◆ **Expanding Proof Capabilities with Veriff**

The initial identity document used for verification determines the initial types of proof and personal attributes that can be derived. For example, a passport can confirm nationality, adulthood and country of citizenship while a driver's license confirms a right to drive. Additional documents maybe submitted to increase the range and type of proofs according to the needs of the user. [15] [16] [17]

◆ **Unlimited Proofs with Chainlink DECO - A First For DI**

Additionally, the integration of *Chainlink's* DECO protocol significantly expands this potential. [18] By unlocking almost unlimited, web-based datasets over TLS while preserving user privacy, DECO introduces a new dimension of verifiable proofs that extend beyond traditional ID documents, creating a framework where proof of personal attributes can scale indefinitely. [19]

◆ **Self-Sovereign Identity Personally Connected To Bitcoin**

With *Libertas*, users create an emotional and personal connection to Bitcoin. Users permanently own their proof of identity inscription on a unique Bitcoin Satoshi, in turn leveraging all the well known benefits of the Bitcoin protocol. These personalized connections uniquely define *Libertas* and create exciting new marketing opportunities designed to attract and onboard large numbers of new users from the outset.

◆ **Unmatched Credibility & Adoption Potential**

By combining institutional-grade verification with the cryptographic privacy of Zero Knowledge Proofs, *Libertas* is the only decentralized identity solution designed for the mass market.

For the first time, digital identity is as secure, censorship-resistant and decentralized as Bitcoin itself. This solid basis ensures that *Libertas* stands apart as the first DI project capable of achieving large-scale adoption with trust that is 100% guaranteed.

2.3 Libertas & Chainlink: The Future of Trustless Data Verification

Libertas is not just about identity; it's about unlocking the world's most valuable, hitherto inaccessible datasets in a private, verifiable and decentralized way.

Today, vast amounts of personal data are locked inside centralized databases. Until now, users had no way to extract verified data from these systems without direct institutional cooperation or exposing sensitive credentials.

Chainlink DECO (Decentralized Oracle for Confidentiality) is the breakthrough that solves this problem. Developed by leading cryptographers at the *Internet Crime Complaint Center* (IC3)[20] and now an integral part of *Chainlink's* decentralized oracle network, DECO enables users to generate cryptographic proofs from any secure web session without revealing personal details.

DECO Changes Everything

Chainlink DECO shifts how real-world data is verified, shared and used across decentralized applications. It allows users to extract provable truths from any HTTPS/TLS-protected website, creating a new standard for trustless verification:

◆ **Real-World Data, Zero Exposure** Users can verify financial status, credentials and memberships without exposing sensitive login credentials or passwords.

◆ **No Institutional Cooperation Required** Unlike traditional APIs, DECO enables data extraction without agreements, API modifications or backend integrations from the data provider.

◆ **Web2-to-Web3 Bridge:** DECO integrates real-world, verifiable information into Web3, allowing decentralized applications (dApps) to trustlessly verify off-chain data.

◆ **Beyond Identity Verification** With DECO, *Libertas* enables proofs of achievements, reputation, access rights and more in a privacy-preserving, trustless way.

Unlocking a New Class of Digital Proofs

With DECO, *Libertas* extends far beyond KYC identity attributes to unlock previously inaccessible proof categories:

◆ **Professional & Educational Credentials** Verifying employment history, degrees and certifications without disclosing raw documents.

◆ **Financial Standing & Creditworthiness** Confirming active bank accounts, income stability and credit scores in a privacy-preserving way.

◆ **Membership & Subscription Access** Proving eligibility and participation in groups, employee and residential communities, DAOs or private cohorts.

◆ **E-commerce & Digital Ownership** Authenticating past purchases, product ownership and resale legitimacy in a Web3-friendly format.

◆ **Social Proof & Reputation** Attesting to verified accounts, professional credibility or marketplace trustworthiness.

By unlocking these previously centralized datasets, *Libertas* creates a new paradigm of self-sovereign, privacy-first verification, where users control access to their verifiable information without exposing their identities.

2.3 Libertas & Chainlink: The Future of Trustless Data Verification

Unlocking the Future of Decentralized Identity

Libertas is about to unlock access to centralized trust and reputation across global industries. *Chainlink* DECO transforms how personal data is accessed, shared and authenticated, creating almost unlimited new applications for blockchain-based identity, governance, finance and beyond.

By integrating DECO, *Libertas* extends self-sovereign identity into the next generation of decentralized applications (dApps), DAOs, metaverse ecosystems and smart cities - sectors where trust, reputation, authenticity and right to privacy are crucial.

◆ **Metaverse & Digital Identity:** Privacy-preserving identity proofs for avatars, virtual land and in-game assets ensure true ownership and security in decentralized virtual environments.

◆ **Decentralized Autonomous Organizations (DAOs):** Enables private, verifiable voting without revealing individual identities, preserving democratic participation while maintaining transparency.

◆ **Interoperable Identity Across Blockchains:** Users can manage and export their digital identity attributes across multiple blockchain networks and applications, ensuring seamless authentication across Web3.

A Game-Changing Partnership with Chainlink

Investors trust *Chainlink*, the world's leading decentralized oracle network, securing billions in value across DeFi, enterprises and institutional adoption.

Libertas integrates directly with *Chainlink* DECO, ensuring:

- **Enterprise-Grade Security** Built on the most trusted oracle infrastructure in Web3.
- **Instant Market Credibility** Backed by *Chainlink's* global reputation and institutional adoption.
- **First-Mover Advantage** No other decentralized identity project leverages DECO at this scale.

Libertas is pioneering the next evolution of self-sovereign verification, giving users unprecedented control over attributes locked into their digital footprints while opening an entirely new category of privacy-preserving Web3 proofs. This is the future of decentralized verification and *Libertas* is leading the way.

2.4 Bitcoin Ordinals: An Immutable Anchor of Trust

Bitcoin Ordinals provide the foundation of permanence in the *Libertas* ecosystem. By inscribing a single, immutable hash of each user's identity proof onto Bitcoin, *Libertas* ensures that every verified user has a censorship-resistant, tamper-proof and globally recognized identity anchor forever recorded on the most secure blockchain in history.

Unlike traditional identity models, Bitcoin Ordinals offer a level of permanence that no other blockchain solution can match. With *Libertas*, identity verification is anchored in Bitcoin itself, providing undeniable proof of authenticity that cannot be altered, censored or revoked.

Why Bitcoin Ordinals?

◆ **A Universal Digital Passport** The Bitcoin inscription serves as a key to the *Libertas* Proof of Identity (PoI) Layer, unlocking ZK Proofs and verifiable attributes across Web3 applications for only real users.

◆ **Permanent & Censorship-Resistant** Once inscribed, the Bitcoin network permanently secures each original identity proof; no institution can alter or remove it.

◆ **Unmatched Security** Bitcoin is the most decentralized and battle-tested blockchain, ensuring identity verifications remain incorruptible.

◆ **Immutable Ownership** Each user's identity inscription is tied to a unique Satoshi, reinforcing personal ownership and self-sovereignty.

The Value of a Bitcoin-Backed Identity

Beyond security, the symbolic and economic significance of anchoring identity to Bitcoin cannot be overstated.

Unlike other blockchain solutions that store mutable credentials, *Libertas* gives users an identity that is as permanent as Bitcoin itself.

◆ **A Personal Stake in Bitcoin** Every verified user owns a unique part of the Bitcoin network, reinforcing the psychological, financial and deeply personal value of their inscription.

◆ **Unparalleled Market Differentiation** While other decentralized identity solutions rely on in-house databases or smart contract-based ledgers, *Libertas* sets a new standard by leveraging Bitcoin - the world's most trusted decentralized asset.

◆ **The First Truly Self-Sovereign Identity** By combining Bitcoin Ordinals, *Chainlink* DECO and ZK Proofs, *Libertas* solves identity verification at scale without relying on any centralized authority or mutable blockchain ledger.

◆ **Libertas isn't just another DI protocol** It's the first to create a Bitcoin-backed, self-sovereign identity system that is immutable, privacy-preserving and already institutionally respected.

2.5 The Proof of Identity Layer: The 1st Universal ZK Proof Registry

The *Libertas* "Proof of Identity" (PoI) Layer is a decentralized identity infrastructure that connects users to their Bitcoin Ordinals inscription. It transforms identity and personal attribute verification into a trustless, censorship-resistant model, eliminating reliance on centralized registries, mutable smart contracts or permissioned blockchains.

At the moment of KYC/Biometric verification, a proof of authentication is cryptographically hashed to a unique Bitcoin Ordinals inscription, permanently linking the user to a unique Satoshi. At the same time, the system generates the user's first Zero-Knowledge Proofs, derived from assumptions made about the verified identity document.

100% Guaranteed Digital Proof of Personal Identity - A Real First

This removes randomness entirely: a user cannot exist in the PoI Layer without a Bitcoin Ordinals inscription; and an Ordinals inscription cannot exist without KYC authentication. The existence of user proofs in the PoI is guaranteed proof of their Ordinals inscription and vice versa. One cannot exist without the other. The complementary, verifiable relationship securely provides a permanent and cryptographically secured proof of digital identity, enforced by the most secure blockchain ever created.

Fraud-Proof, Compliant, Private & Scalable

The PoI Layer establishes the first ever Sybil-resistant personal identity with individual attributes framework by ensuring:

◆ **Fraud Prevention** All PoI proofs originate from verified sources, preventing identity fraud, duplicate accounts and AI-driven fake profiles.

◆ **Privacy-Preserving Architecture** No raw identity data is stored; only cryptographic attestations are shared, ensuring GDPR compliance and future-proofing against emerging regulations.

◆ **Interoperability** All ZK Proofs follow W3C standards for cross-blockchain and Web3 compatibility, adhering to the *Decentralized Identity Foundation* (DIF) [21] protocol for structured credential issuance.

Time-Controlled, Adaptive Identity

Libertas allows users to expand their attributes and, hence, their proof set dynamically, by individually determining which additional documents to verify and which DECO-based attestations to access.

This personal flexibility ensures:

◆ **ZK Proofs are generated only when needed**, rather than stored indefinitely.

◆ **One-time-use proofs vanish** immediately after verification, eliminating residual data exposure.

◆ **Expiry-based proofs automatically self-delete**, reducing long-term metadata retention.

◆ **Users can self-custody and export ZKPs** according to W3C standards.

2.5 The Proof of Identity Layer: The 1st Universal ZK Proof Registry

How Libertas Is Redefining Digital Identity

The PoI Layer establishes:

◆ **Bitcoin-Anchored Identity** Every verified user is personally and cryptographically linked to Bitcoin via Ordinals.

◆ **Self-Sovereign Verification** Identity is 100% trusted and fully independent of centralized institutions.

◆ **Selective Disclosure** Users only reveal information only specific personal attributes without exposing full credentials.

◆ **Security-Optimized Proofs** Single-use or auto-expiring ZKPs prevent unnecessary data retention.

◆ **Global Interoperability** Compatibility with DIF and W3C identity standards enables seamless integration across Web3 via the ability to self-custody and export ZKPs.

By merging Bitcoin's permanence and immutability with ZKPs' inherent privacy, *Libertas* introduces a censorship-resistant, scalable and user-controlled identity layer setting a new standard in guaranteed decentralized trust.

Bitcoin anchors it. ZK Proofs validate it. But users control it.

2.6 Decentralized Trust Communities (DTC) Verified by Bitcoin

Libertas introduces "Decentralized Trust Communities" (DTC), a groundbreaking model combining decentralized identity, Zero-Knowledge Proofs (ZKPs) and Bitcoin's immutable ledger. Each DTC is a cryptographically secure community defined and united entirely by verified personal attributes - such as nationality, age or residency - without ever compromising individual privacy or autonomy.

Because every *Libertas* user undergoes real-world verification anchored immutably on Bitcoin via Ordinals inscriptions, DTCs establish an unprecedented level of trust and authenticity. Members of a DTC are provably real, verified individuals, yet they remain anonymous and in complete control of their data, a crucial step forward for Web3 decentralization.

Why DTCs?

◆ **Absolute Trust & Confidence** All members are 100% verified, eliminating fraud, identity theft and Sybil attacks.

◆ **Privacy-First Membership** ZK Proofs confirm attributes without revealing identities, ensuring privacy compliance.

◆ **Unrivaled Market Potential** DTCs apply broadly - finance, healthcare, education, social media, online marketplaces - capturing substantial market share in a $200+ billion global digital identity landscape.

◆ **Bitcoin-Anchored Verification** All trust communities are permanently anchored and verified by Bitcoin, guaranteeing authenticity, permanence and global interoperability.

Libertas In Action: Real World Use Cases

Libertas **is the world's first self-sovereign registry for proof-based verification with the power to touch every industry. By combining Veriff's document authentication and Chainlink DECO's access to global datasets,** *Libertas* **makes it possible to verify any identity, status, credential or characteristic in a privacy-first, scalable and trust-backed way.**

With 1,000s of proofs available, new use cases are unlocked where it's now possible to create unlimited "Decentralized Trust Communities" (DTC) where every member is a verifiable real human.

3.1 Digital Identity & Online Verification

Libertas enables anonymous, verifiable identity attributes, allowing users to authenticate themselves without exposing personal details.

- **Proof of Age** > "I am over 18/21/65" (without revealing birthdate or document details).
- **Proof of Citizenship or Residency** > "I am a U.S. Citizen" or "I hold an EU residency permit" (without sharing passport or address details).
- **Proof of Unique Human Identity** > "I am a real, verified person" (without exposing full identity).
- **Proof of Single Account Ownership** > "I have not created multiple accounts" (anti-Sybil protection for Web3 & DAOs).
- **Proof of Verified Online Presence** > "This social media account is connected to a verified identity" (without linking full identity).

Applications: Social networks, gaming platforms, age-restricted sites, Web3 logins, DAOs, KYC-free accounts.

3.2 Financial & Banking Services

Libertas enables financial verifications that protect user privacy while still proving key financial attributes.

- **Proof of Income** > "I earn over $50,000 per year" (without revealing employer or salary details).
- **Proof of Creditworthiness** > "My credit score is above 700" (without exposing full financial history).
- **Proof of Bank Account** > "I have a bank account in my name" (without disclosing bank details).
- **Proof of Taxpayer Status** > "I am a registered taxpayer in X country" (without sharing tax records).
- **Proof of No Outstanding Debts** > "I have no unpaid loans or debts" (without revealing details).

Applications: Privacy-preserving lending, credit approvals, DeFi lending, mortgage verification, tax filings.

3.3 Government & Public Services

Libertas bridges decentralized identity with real-world government services, allowing for trustless verification of public records.

- **Proof of Voting Eligibility** > "I am registered to vote in X country" (without exposing identity or voter registration details).
- **Proof of Access to Government Services** > "I qualify for social security benefits" (without revealing income or medical details).
- **Proof of Work Authorization** > "I am legally allowed to work in X country" (without exposing visa details).
- **Proof of Clean Criminal Record >** "I have no prior criminal convictions" (without revealing background details).
- **Proof of Military Service** > "I am a veteran of the U.S. Army" (without disclosing rank, service years or location).

Applications: Voting systems, social welfare programs, digital public services, background checks, work visa verification.

3.4 Education & Professional Credentials

Libertas enables trustless, private verification of educational and professional qualifications, removing the need for manual document checks.

- **Proof of University Degree** > "I hold a Master's in Computer Science" (without sharing full transcripts).
- **Proof of Professional License** > "I am a licensed medical doctor/lawyer/accountant" (without exposing certificate numbers).
- **Proof of Course Completion** > "I completed a blockchain development course" (without revealing full course details).
- **Proof of Employment History** > "I worked at X company for 5 years" (without exposing employer details).
- **Proof of Professional Membership** > "I am a member of the Chartered Accountants Association" (without disclosing membership ID).

Applications: Job applications, professional licensing, freelancer verification, LinkedIn-like career attestations, continued education tracking.

3.5 Healthcare & Medical Records

Libertas allows privacy-preserving medical proof sharing, enabling patients to verify personal health data without exposing medical history.

- **Proof of Vaccination** > "I am vaccinated against COVID-19" (without revealing batch number or provider).
- **Proof of Medical Insurance Coverage** > "I am covered by a health insurance plan" (without exposing policy details).
- **Proof of Pre-Existing Conditions** > "I have no pre-existing heart conditions" (without revealing full health records).
- **Proof of Prescription Eligibility** > "I am prescribed X medication" (without revealing other prescriptions).
- **Proof of Fitness Levels** > "I walked 10,000 steps daily for the last month" (without exposing full health tracker data).

Applications: Privacy-first health passports, insurance claims, medical eligibility verification, online pharmacy approvals.

3.6 Online Marketplaces & Commerce

Libertas verifies user credibility and marketplace reputation without exposing personal or financial data.

- **Proof of Verified Seller Status** > "I have completed 100+ successful sales" (without revealing transaction details).
- **Proof of Buyer Reputation** > "I have a 5-star rating on X platform" (without exposing account details).
- **Proof of Product Authenticity** > "This luxury watch is verified authentic" (without exposing owner identity).
- **Proof of Membership in Exclusive Buyer Groups** > "I am a verified collector of rare NFTs" (without exposing holdings).
- **Proof of Ownership for Resale** > "I own this high-value physical or digital item" (without revealing purchase records).

Applications: E-commerce, NFT marketplaces, peer-to-peer sales, secondary market verification.

3.7 Memberships & Access Control

Libertas enables private verification of memberships and affiliations, ensuring secure access control without exposing user details.

- **Proof of Exclusive Club Membership** > "I am a member of X club" (without revealing membership number).
- **Proof of Conference Attendance** > "I attended the 2023 Web3 Summit" (without exposing ticket details).
- **Proof of Military Clearance** > "I am authorized for classified access" (without revealing clearance level).
- **Proof of VIP Status in Rewards Programs** > "I hold platinum-tier status" (without exposing customer purchase history).
- **Proof of Gym or Sports Club Membership** > "I am a verified member of X gym" (without exposing contract details).

Applications: Secure access control, event ticketing, military verification, high-end loyalty programs.

3.8 Legal & Compliance Applications

Libertas offers trustless legal verification tools, allowing users to prove facts in legal disputes without exposing unnecessary details.

- **Proof of Identity in Legal Contracts** > "I am the rightful contract signer" (without exposing full identity).
- **Proof of Intellectual Property Ownership** > "I created this work before X date" (without revealing private files).
- **Proof of Prior Agreement**s > "I agreed to this contract's terms on X date" (without exposing contract details).
- **Proof of Financial Solvency for Legal Filings** > "I have assets exceeding $X" (without revealing account balances).

Applications: Court-admissible proofs, contract verification, inheritance disputes, business compliance.

3.9 Decentralized Trust Communities (DTCs)

Pioneering Attribute-Based Digital Communities

Libertas is pioneering a completely new paradigm in Web3: *Decentralized Trust Communities* (DTC).

These are secure, privacy-preserving and trust-anchored groups where every participant is verifiably real. This concept is made possible through *Libertas*' unique proof-based verification model, leveraging real-world identity documents and ZKPs to ensure absolute authenticity while maintaining full privacy.

By allowing communities to form based on any verifiable identity attribute(s), DTCs represent a revolutionary step forward in digital trust and reputation. Whether it's financial networks requiring proof of income, age-restricted platforms verifying adulthood or professional groups ensuring real credentials, DTCs are self-sovereign and defined by cryptographic truth, not any centralized authority.

◆ **Age-Restricted Communities** Platforms for online gaming, alcohol purchases or adult content can form DTCs where every participant is cryptographically verified to be over 18 or 21.

◆ **Nationality or Residency-Based Groups** Online political groups, nationality-based governance DAOs or regional work collectives can require members to prove citizenship or residency.

◆ **Professional & Work-Based Networks** Communities for verified professionals (e.g., "Only licensed doctors in the U.S." or "Only certified software engineers") can ensure that all members meet the group's professional requirements.

◆ **Exclusive Financial Networks** High-net-worth investment groups, lending circles or DeFi lending pools can ensure members have a minimum income level, credit score or net worth.

◆ **Student & Alumni Communities** Universities can create trust-based alumni networks where only verified former students can join, ensuring authenticity in mentorship and networking opportunities.

◆ **Web3 & DAO Governance** DAOs requiring proof of unique human identity can prevent Sybil attacks by ensuring one-person-one-vote governance models.

Technical Implementation

Personal Identity & Digital Attributes Verified by Bitcoin

Libertas is pioneering the first fully portable, self-sovereign Zero-Knowledge Proof (ZKP) identity system, setting a new benchmark for decentralized identity verification. Unlike traditional identity models, whether centralized databases or blockchain-based systems requiring ongoing platform dependency, *Libertas* ensures that users retain complete control over their identity proofs, free from institutional oversight.

By leveraging Bitcoin Ordinals as a permanent trust anchor, Zero-Knowledge Proofs (ZKPs) for privacy-preserving attestations, and decentralized storage (IPFS/Arweave) for resilience and accessibility, *Libertas* establishes an immutable, trustless and 100% guaranteed identity model.

A key differentiator for *Libertas* is the ability to leverage self-sovereign proofs to create unlimited "Decentralized Trust Communities" (DTC) as well as leverage the *Libertas* "Trust as a Service" (TaaS) protocol, guaranteeing participants are real and authenticated without a centralized authority.

4.1 Identity Verification & Zero-Knowledge Proof Generation

The foundation of the *Libertas* identity system is built on a one-time, Veriff-authenticated KYC verification event using a legal identity document.

This ensures that every user begins with a globally recognized, legally accepted identity anchor.

Libertas does not attempt to decentralize identity issuance itself; it integrates with *Veriff*, a globally trusted provider that accepts over 12,000 official documents, operates across 230+ countries and 48 languages.

By leveraging an already established and reputable identity verification framework, *Libertas* ensures compliance, accessibility and trust, without introducing new complexities.
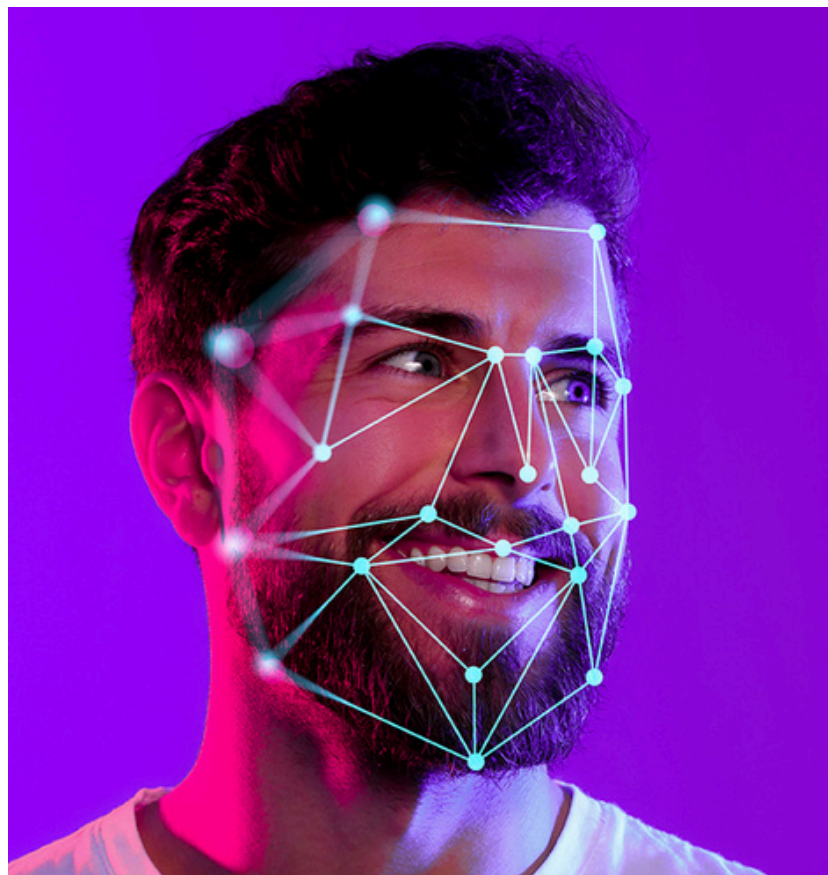
4.1 Identity Verification & Zero-Knowledge Proof Generation

Veriff as the Privacy Firewall

◆ All personal identity data remains within *Veriff's* system, ensuring *Libertas* never sees, stores or processes personally identifiable information (PII).

◆ *Veriff* is responsible for compliance with GDPR, CCPA, and all global data protection regulations.

◆ *Libertas* interacts only with structured, non-personally identifiable outputs, converting them into Zero-Knowledge Proofs (ZKPs).

Extracting Guaranteed Proofs from Identity Documents

Libertas uses the *Veriff* API to extract structured attributes from the verified document. The available ZKPs depend on the document type.

Identity Document	Guaranteed Proofs & Attestations
Passport	Age, nationality, gender, country of birth, document expiry date
Driver's License	Age, driving eligibility, document expiry date
Resident Card	Country of residence, work permit status, document expiry date
Utility Bill	Proof of residence, utility provider legitimacy

Example Scenarios

◆ A U.S. passport confirms a user is over 18, a U.S. citizen, and male, but does not prove residency.
◆ A utility bill verifies an address but does not confirm age or nationality.
◆ A driver's license proves age and driving eligibility but does not confirm citizenship.

Each ZK Proof is cryptographically sealed, enabling users to prove individual attributes without exposing their full identity.

4.2 The Immutable Identity Anchors: Bitcoin Ordinals & PoI Layer

Once verification is complete, *Libertas* creates two immutable records of the user's identity verification event:

◆ **Bitcoin Ordinals Inscription (Reference Layer)**
- A cryptographic hash of each authenticated user is inscribed on a unique Satoshi.
- The inscription is permanent, immutable and censorship-resistant.
- It acts as a verifiable proof that the user successfully completed KYC authentication.
- The inscription follows BTCO DID standards as defined by the *Decentralized Identity Foundation* (DIF), ensuring interoperability throughout Web3.

◆ **The Proof of Identity (PoI) Layer (ZKP Registry)**
- The PoI Layer stores ZK Proofs in a decentralized manner via *IPFS/Arweave*.
- Each PoI record is cryptographically linked to the Ordinals inscription.
- The PoI acts as the primary verification layer, where users can manage, share and self-custody their proofs dynamically.

Bitcoin Ordinals provide the immutable trust anchor. The PoI Layer enables fast, scalable attribute authenticity and verification.

4.3 Hierarchical Storage: Structuring Identity Proofs

To ensure scalability and structured verification, the PoI Layer follows a parent-child hierarchical model:

◆ **Parent: The Ordinals Inscription (Trust Anchor)**
- Each PoI entry starts with the cryptographic hash of the Ordinals inscription.
- Human authenticity can be checked by comparing with Bitcoin ledger.
- This ensures that only real, verified individuals exist in the protocol.

◆ **Children: The ZK Proofs (User-Controlled Attributes)**
- Below the copy of the Ordinals inscription, each ZK Proof (ZKP) is cryptographically linked.
- These proofs validate the original identity and attributes like adulthood, nationality, residency and document expiry.

The parent-child model ensures all ZK Proofs originate from an provable, real-person verification event.

4.4 Decentralized Trust Communities (DTCs)

Libertas' "Decentralized Trust Communities" (DTCs) leverage the existing Proof of Identity (PoI) Layer to enable secure, private and scalable community memberships based entirely on verifiable identity attributes. By expanding the PoI Layer's functionality, *Libertas* provides a unified decentralized framework for both individual credential verification and group-based community formation.

Technical Workflow

1 Community Creation & Attribute Definition
- **Verified-Only Community Creation:** Only users who have completed identity verification through the PoI Layer can create new DTCs, ensuring trust and authenticity from inception.
- **Attribute Specification**: DTC creators define specific identity attributes required for community membership (e.g., by age, nationality, residency status or combinations thereof).

2 Invitation & One-Time Verification
- **Attribute-Based Invitations:** Potential members are invited based solely on their verified ZKP attributes stored in *Libertas'* PoI Layer.
- **Single, Initial Verification:** Upon acceptance of an invitation, users perform a one-time verification of their credentials against the PoI Layer. No additional interaction with Bitcoin is required.

3 Credential Storage on IPFS/Arweave
- Verified credentials confirming eligibility for each specific DTC are securely encrypted and stored on decentralized storage solutions such as *IPFS* or *Arweave*.

4 Instant Credential Lookup
- Subsequent interactions within the DTC application directly reference stored credentials on the PoI (*IPFS/Arweave)*, eliminating the need for repetitive verification.
- Credentials remain fully user-controlled and encrypted, preserving absolute privacy and decentralization.

Libertas is the first identity protocol, therefore, where users are fully independent from the system that issued their proofs.

4.5 Self-Custody, Proof Portability & Trust as a Service (TaaS)

Libertas introduces the world's first fully self-custodial, portable ZKP identity system. Unlike other DI solutions that lock users into a centrally-controlled provider, *Libertas* enables users to export and verify proofs anywhere, without reliance on *Libertas* infrastructure. In this sense, trusted user attributes maybe provided as a service in Web3.

The BTCO DID Schema: A Universal Identity Framework

Libertas implements BTCO DID standards, allowing third-party applications to query, verify and integrate *Libertas* proofs without requiring access to the PoI Layer.

◆ Every exported proof is cryptographically linked to the Ordinals inscription, ensuring trust and authenticity.
◆ The schema structures proofs in a way that is universally readable, making them interoperable with external identity systems.
◆ Users are fully independent as *Libertas* provides standardization for applications it has no control over.

Trust as a Service (TaaS) - A Libertas 1st

1 User Requests Proof Export
- The user selects which proofs to export.
- A standardized metadata file is generated, containing:
    - The cryptographic reference to the Ordinals inscription.
    - The associated ZK Proofs, formatted according to BTCO DID.

2 Proofs Are Packaged & Signed
- The user digitally signs the proof package with their Bitcoin wallet.
- The exported file is structured for third-party verification.

3 Trusted Proofs Verified as a Service (TaaS)
- Third-party verifiers can query the Ordinals inscription to confirm the proof originates from a legally authenticated verification event.
- Applications that support BTCO DID standards can directly integrate *Libertas* proofs into their verification processes.

Libertas is the first identity protocol where users can be fully independent from the system that issued their proofs.

```json
{
  "btco_did": "btco:did:ordinal
  "ordinal_inscription": "bc1qx
  "timestamp": "2025-03-12T15:3
  "zk_proofs": {
    "age_verified": {
      "proof_hash": "b7e293f5..
      "expiry_date": "2030-12-3
      "source": "veriff"
    },
    "nationality": {
      "proof_hash": "af82374b..
      "source": "veriff"
    }
  },
  "storage": {
    "arweave_txid": "xyz123",
    "ipfs_hash": "Qm...456"
  },
  "user_controlled_backup": "op
}
```

4.6 Redefining Identity in Web3: TaaS Integration & Interoperability

To ensure that exported Zero-Knowledge Proofs (ZKPs) are portable and usable across Web3 applications, *Libertas* adopts the BTCO DID schema, aligned with W3C Verifiable Credentials (VC) standards. This allows seamless verification and processing of identity proofs beyond the *Libertas* ecosystem.

Exporting ZKPs as W3C-Compliant JSON Files

Users can export their ZKPs as self-sovereign, standardized JSON files, structured for easy integration into Web3 platforms, DAOs, DeFi protocols and decentralized applications (dApps). Each exported proof maintains a cryptographic link to the original Ordinals inscription, ensuring authenticity without revealing personal data.

Processing & Verifying Trust in Web3

For a ZKP export to be useful, Web3 applications must be able to import, verify and process the JSON schema. This can be achieved through:

◆ **Decentralized Identity Platforms (DID-Enabled dApps)** Applications supporting W3C-compliant VCs can directly verify *Libertas* proofs.

◆ **Web3 Wallet Integration** Users can sign and verify proofs using existing wallets.

◆ **Smart Contract Validation** On-chain verification of exported proofs using cryptographic checks.

◆ **Decentralized Storage (IPFS/Arweave)** Trust proofs can be stored externally and accessed by permissioned requestors.

TaaS - A Standardized Framework

At this stage, it is difficult to predict every possible use case for self-sovereign identity in Web3. While some applications may rely on direct proof validation for access control, others may use ZKPs for governance, financial transactions or selective disclosures.

Libertas provides a standardized "Trust as a Service" (Taas) framework, allowing future builders to develop their own implementations in ways that aren't currently foreseen. *Libertas* will almost certainly contribute to those initiatives pending consultations with the wider Web3 community.

By enabling true self-custody, *Libertas* ensures that users can take their verifiable proofs and attributes anywhere, without dependency on centralized systems. This is the first-ever portable and self-sovereign ZKP system which totally redefines trust and personal reputation for digital decentralized identity in Web3.

The New Libertas Economy

Creating Value from Digital Identity

The success of any blockchain ecosystem is determined by its ability to create sustainable, long-term value while aligning incentives for all participants. *Libertas* is not just an identity protocol: it is a self-sovereign economic model built on Bitcoin's principles of decentralization and trustless verification.

At the core of the *Libertas* economy is $LIBERTAS, a fixed-supply Solana-based token that fuels inscriptions, rewards participants and ensures ongoing revenue generation. Every interaction within the ecosystem reinforces token value, ensuring demand scales alongside adoption.

With a supply of 21 million tokens, built-in revenue mechanisms and direct alignment with Bitcoin's scarcity economics, *Libertas* offers investors access to a high-utility, self-sustaining token economy anchored by real-world identity verification.

SOLANA

5.1 A Brand New Asset Class

Libertas introduces identity-backed digital assets, transforming verified identity into tangible, ownable and monetizable value.

This new asset class ensures that all value accrues to the $LIBERTAS token, creating a Bitcoin-aligned, revenue-generating economy.

◆ **Identity as an Ownable Asset** For the first time, individuals can inscribe their identity onto Bitcoin, making it permanent, verifiable and uniquely ownable. This isn't just decentralized identity - it's personal ownership of digital permanence, directly linked to Bitcoin's security and scarcity.

◆ **Decentralized Trust Communities (DTCs)** Verified identity attributes enable exclusive, credential-gated communities where access requires real, verifiable proofs. From financial networks to high-value private groups, DTCs introduce tokenized access models, unlocking new revenue streams for exclusive, identity-backed ecosystems.

◆ **Converting Digital Identity to Gold** *Libertas* allows users to mint their Bitcoin-inscribed identity into gold and silver, turning self-sovereign identity into a legacy asset. This bridges digital and physical ownership, while *Libertas* earns fees on every transaction through strategic partnerships with precious metals dealers.

By anchoring identity to Bitcoin, decentralized communities and precious metals, *Libertas* transforms identity into an investable asset class, with $LIBERTAS as the economic engine powering this financial revolution.

5.2 Scarcity-Driven Economics & Bitcoin Alignment

Scarcity is a fundamental driver of value. Bitcoin's fixed supply has fuelled exponential growth, with a compounded annual growth rate (CAGR) exceeding 100% since inception. *Libertas* applies this proven model, ensuring a finite, non-inflationary token supply and direct BTC integration, positioning $LIBERTAS as a high-value asset in the decentralized identity economy.

◆ **21 Million Fixed Supply** With no future emissions, no inflation and no dilution, $LIBERTAS mirrors Bitcoin's hard cap of 21 million tokens - a structure that has consistently attracted long-term investors seeking digital scarcity.

◆ **BTC Liquidity Pairing** $LIBERTAS is paired directly with Bitcoin in a liquidity pool, reinforcing its market stability, enabling seamless conversions for Ordinals inscriptions and ensuring BTC-denominated revenues, thereby deepening its alignment with Bitcoin as the world's most secure digital asset.

◆ **Scarcity-Driven Value Appreciation** Bitcoin's hard supply cap has driven long-term price appreciation, making it the most sought-after digital store of value. By applying the same scarcity principle, $LIBERTAS is engineered to capture similar long-term value dynamics as adoption scales.

5.3 Revenue Generation & Economic Sustainability

Libertas integrates multiple revenue streams to ensure long-term economic sustainability and real token demand:

- **BTC Inscription Fees** Every identity inscription is paid in BTC (converted from $LIBERTAS), creating a direct, Bitcoin-denominated revenue stream that scales with adoption.

- **Transaction-Based Taxation** A 1% operations tax funds operations and ongoing development, while 1% fuels the *Libertas* Rewards Pool, driving viral adoption and user engagement.

- **DTC Monetization** Decentralized Trust Communities introduce identity-gated access models, where select communities are required to lock small amounts of $LIBERTAS tokens for participation, increasing demand on the circulating supply.

- **Converting Digital Identity to Gold** Users can mint their Bitcoin-inscribed identity onto gold, silver and platinum. *Libertas* earns transaction fees from strategic precious metals partnerships, introducing a scalable off-chain revenue stream.

5.4 The Libertas Rewards Pool: The First Permanent Blockchain Draw

Libertas introduces the world's first permanent blockchain rewards model, where every identity inscription grants lifetime eligibility with no staking, no ticket purchases and no financial risk. Unlike traditional lotteries, this is a provably fair, decentralized system with smart contract execution ensuring full transparency.

◆ A Fully Compliant, Non-Gambling Incentive

Libertas avoids all lottery and gaming restrictions by ensuring participants never pay to enter, never buy tickets and never risk capital. Eligibility is granted permanently through an identity inscription, making it fully compliant and legally unrestricted for global adoption.

◆ A Viral Growth Engine

The publicly visible rewards pool continuously expands, funded by 1% of every $LIBERTAS transaction. As the prize pool grows, so does anticipation, in turn fuelling community engagement, social sharing and user-driven marketing without reliance on paid promotions.

◆ A Balanced Hybrid Rewards Model

Libertas ensures sustainability and token stability through diversified prize payouts:

- **Bitcoin Rewards** The ultimate crypto incentive.
- **$LIBERTAS Prizes** Reinforcing demand and liquidity.
- **Gold-Backed Rewards** Linking digital identity to valuable, real world tangible assets.

This model protects liquidity, prevents excessive sell pressure and sustains long-term value creation..

◆ More Than a Reward - A Community Accelerator

By aligning economic incentives with sustainable tokenomics, the *Libertas* Rewards Pool isn't just an incentive: it's a catalyst for adoption and long-term value.

- Incentivizes and increases demand for inscriptions, driving BTC inscription fees.
- Builds a base of users for broader participation in *Decentralized Trust Communities* (DTCs).
- Builds an engaged community, where every user is identified and ready to leverage their ZKPs in Web3.

Road Map & Go-To-Market Strategy

PHASE 1
Token Launch, Early Community Growth & Ecosystem Development

Laying the Foundation for the Libertas Economy

Phase 1 is where *Libertas* becomes reality, establishing both its technical backbone and financial engine. This phase focuses on launching the $LIBERTAS token, generating early revenues and building the Proof of Identity (PoI) Layer - the foundation for decentralized identity verification.

By integrating *Veriff's* API with the PoI Layer, *Libertas* prepares for identity inscriptions, Zero-Knowledge Proof (ZKP) generation and the "Verified by Bitcoin" protocol in Phase 2. Simultaneously, token adoption, Rewards Pool funding and community-driven momentum drive viral growth, positioning *Libertas* as the future of identity-backed digital assets.

6.1 Phase 1 - Technical Development Focus

◆ **$LIBERTAS Token Deployment & Taxation Mechanism**
- Deploy $LIBERTAS token contract on Solana with an automated 1% Rewards Pool / 1% Operations taxation model.
- Establish public Rewards Pool deposit address for transparent tracking and later marketing.

◆ **Foundational Proof of Identity (PoI) Layer Development**
- Develop PoI infrastructure to store and manage identity attributes in compliance with W3C Verifiable Credentials (VCs) and DIF BTCO DID Core standards.
- Implement *Veriff* API integration, enabling automated identity attribute extraction from authenticated documents.
- Standardize attribute recognition and transformation into ZKPs, ensuring privacy and compliance.
- Design a scalable, decentralized storage system (*Arweave/IPFS*) for verifiable, tamper-resistant proof storage.

◆ **Zero-Knowledge Proofs (ZKPs) & Cryptographic Processing**
- Develop encryption and hashing methods to secure identity attributes as privacy-preserving ZKPs.
- Ensure self-sovereign, verifiable and interoperable ZKPs for future Web3 integration.
- Automate structured personal attributes into hashed, standardized proofs, ensuring that ZKPs remain fully private, decentralized and accessible for identity verifications.

Road Map & Go-To-Market Strategy

PHASE 1
Token Launch, Early Community Growth & Ecosystem Development

6.2 Phase 1 - Marketing & Adoption Focus

◆ **Community Growth & The Viral Effect of the Rewards Pool**

The *Libertas* Rewards Pool is the ultimate viral marketing driver where every $LIBERTAS transaction contributes to a growing Bitcoin prize fund that inscribers permanently qualify for, with no additional action required. This creates a powerful network effect, where users actively track, share and engage to grow the rewards pool, making *Libertas* a self-marketing ecosystem.

- **"The Bitcoin Rewards Countdown" campaign** Community-driven social media engagement builds hype as the inaugural rewards draw approaches, increasing inscription demand.
- **Public Rewards Pool Tracker** A live dashboard showing the continuously growing prize pool encourages user-generated marketing.
- **Community-Led Expansion** Early adopters naturally spread awareness, generating organic engagement without heavy reliance on paid advertising.

◆ **Investor Positioning: A First-Mover Opportunity in Identity-Backed Assets**

Libertas introduces a new asset class: identity-backed digital ownership on Bitcoin, combining scarcity-driven value, provable identity inscriptions and passive blockchain incentives.

- **The 1st Bitcoin-Linked Identity Asset** $LIBERTAS enables permanent personal identity inscriptions on Bitcoin, creating a true digital asset that belongs to the user forever.
- **21M Fixed Supply = Scarcity Premium** Aligning with Bitcoin's proven model, $LIBERTAS ensures sustained long-term value through new Bitcoin-backed utility.
- **Early-Stage Investor Advantage** With low circulating supply at launch, investors gain exposure to a high-utility, scarcity-driven asset before mass adoption.

◆ **Strategic Multi-Phase Token Launch & Market Expansion**

Libertas' launch strategy maximizes investor demand and trading momentum by executing a structured roll-out.

- **Pre-Launch Phase** Early community engagement, educational content and strategic influencer partnerships to build anticipation.
- **Token Launch & DEX Listings** $LIBERTAS is introduced on leading Solana DEXs.
- **Sustained Growth Phase** Ongoing marketing campaigns, influencer collaborations and PR efforts to expand awareness and adoption.
- **Phase 1 Target Market Cap** Active marketing campaigns combined with Bitcoin-aligned token scarcity model should propel early market cap to over $10m.

Road Map & Go-To-Market Strategy

PHASE 1
Token Launch, Early Community Growth & Ecosystem Development

6.2 Phase 1 - Marketing & Adoption Focus (cont.)

◆ **Targeted Audience Segmentation & Market Messaging**

Libertas tailors its messaging to attract key investor groups, ensuring high-impact adoption across multiple crypto sectors:

- **Bitcoin Maximalists:** "*The First Identity-Backed Asset on Bitcoin*"
  - Bitcoin inscriptions ensure immutable ownership of personal identity.
  - Fixed 21m supply mirrors Bitcoin's scarcity model, increasing appeal.
  - BTC inscription fees create a sustainable, decentralized revenue model.
  - Aligns with Bitcoin's ethos of financial sovereignty and censorship resistance.

- **Web3 & DeFi Traders:** "*A Blockchain Rewards System That Lasts Forever*"
  - Lifetime eligibility for rewards without staking or risk.
  - Self-growing rewards pool = long-term incentive for token holders.
  - Zero-Knowledge Proofs (ZKPs) enable decentralized, privacy-preserving authentication.
  - First-mover advantage in the emerging identity-backed DeFi space.

- **Gold & Precious Metals Investors:** "*Identity You Can Hold in Gold*"
  - First-ever identity-backed gold asset, turning verified identity into real-world wealth.
  - Gold-linked identity as a hedge against fiat devaluation, securing financial sovereignty.
  - Merging gold investment with decentralized ownership, creating new wealth opportunities.
  - A new asset class bridging blockchain identity with precious metals stability.

Road Map & Go-To-Market Strategy

PHASE 2
Launching the Libertas Protocol & Identity Inscriptions

Establishing the Core Libertas Identity Infrastructure

With strong early adoption and a growing community in place, Phase 2 focuses on deploying the core *Libertas* identity infrastructure, enabling Veriff-powered identity verifications, Bitcoin inscriptions and the creation of the first ZKPs in the Proof of Identity (PoI) Layer.

This marks the true beginning of the *Libertas* ecosystem, where identity transforms into a self-sovereign, ownable asset class. The shift to a fully operational decentralized identity protocol expands real-world adoption, strengthens $LIBERTAS utility and paves the way for *Chainlink* DECO integration, ZKP monetization and *Decentralized Trust Communities* (DTCs) in Phase 3.

6.3 Phase 2 - Technical Development Focus

◆ Veriff-Powered Identity Verifications: The Gateway to Self-Sovereign Identity

Veriff acts as the bridge between traditional ID verification and blockchain-based credentials, ensuring a seamless and automated onboarding experience.

- **Automated Verification** Users complete a one-time *Veriff* authentication, instantly proving their identity without centralized storage risks.
- **Seamless API Integration** The *Libertas* backend processes *Veriff* outputs, linking verified attributes to the Proof of Identity (PoI) Layer for further cryptographic use.
- **Zero-Knowledge Compatibility** Identity attributes are automatically converted into ZKPs, ensuring privacy-first authentication across decentralized applications.

◆ Bitcoin Inscriptions: The First Immutable Identity Record

Libertas enables the first-ever self-sovereign identity inscriptions on Bitcoin, ensuring a permanent, censorship-resistant identity record.

- **Immutable Identity Inscription** Users anchor identity proofs to Bitcoin Ordinals, securing their existence on the world's most decentralized ledger.
- **Standards-Driven Compliance** Interoperability with W3C Verifiable Credentials (VCs) and DIF BTCO DID ensures future-proofing and broad integration.
- **BTC-Backed Revenue Stream** Each inscription generates BTC fees, creating a sustainable, decentralized revenue model fully aligned with Bitcoin's economic incentives.

Road Map &
Go-To-Market Strategy

PHASE 2
Launching the Libertas Protocol & Identity Inscriptions

6.3 Phase 2 - Technical Development Focus (cont.)

◆ **First-Generation ZKPs: Transforming Identity into Credentials**

With ZKPs now live, *Libertas* converts identity attributes into cryptographic proofs, enabling real-world, privacy-preserving authentication.

- **Automated Proof Creation** Upon verification, key attributes (such as age, nationality, residency) are converted into fully self-sovereign ZKPs.
- **Privacy-Preserving Storage** All proofs are hashed, encrypted and stored on *Arweave/IPFS*, ensuring tamper-resistant, decentralized identity verification.
- **Decentralized Authentication** Users can independently authenticate using their attributes for age-gated access, Web3 authentication and Sybil resistance without exposing personal data.

◆ **Expanding the Libertas Economy with Identity-Based Utility**

With ZKPs and Bitcoin inscriptions live, identity-backed transactions drive new adoption and strengthen $LIBERTAS demand.

- **Web3 & DeFi Sybil Resistance** ZKPs eliminate bots and fraud in DAOs, DeFi, and other decentralized applications.
- **New $LIBERTAS Demand Drivers** Each verification and proof creation increases token utility, reinforcing scarcity-driven value.
- **BTC Liquidity Expansion** Future pairing with BTC enables seamless conversion for inscription fees and ecosystem transactions.

Road Map &
Go-To-Market Strategy

PHASE 2
Launching the Libertas Protocol & Identity Inscriptions

6.4 Phase 2 - Marketing & Adoption Strategy Focus

With the *Libertas* Protocol now live, marketing efforts shift toward driving user adoption, reinforcing the identity-as-an-asset narrative and expanding ecosystem trust. This phase converts early token holders into active protocol participants while attracting new users and groups seeking self-sovereign identity ownership and Bitcoin inscription utility.

◆ Bitcoin's 1st Ever Libertas Identity Inscription

Libertas pioneers the first-ever personal identity inscriptions on Bitcoin, redefining self-sovereign digital ownership.

- **"Your Identity - Your Asset"** Individuals permanently own their verified identity on Bitcoin, securing a direct, personal stake in the blockchain.
- **Bitcoin Maximalist Adoption** By emphasizing immutability and verifiable ownership, *Libertas* aligns with Bitcoin's core principles, appealing to BTC-focused investors.
- **Community-Driven Inscription Milestones** Major benchmarks (1, 100, 1K, 10K, 100K inscriptions) are celebrated with social campaigns, media coverage and engagement rewards, driving viral adoption.

◆ "*Identity You Can Hold in Gold*" — Bridging Bitcoin Identity with Precious Metals

Libertas bridges Bitcoin identity inscriptions with gold-backed assets, creating a compelling narrative for both crypto investors and traditional wealth preservation markets.

- **Personalized Gold & Silver Identity Coins** Users can mint identity-backed precious metals, reinforcing digital permanence with real-world, tangible value.
- **Gold & Crypto Cross-Market Appeal** Gold investors are introduced to Bitcoin-linked identity ownership, while crypto holders gain access to wealth preservation assets.
- **Institutional Interest in Asset-Backed Identity** *Libertas* positions identity-backed metals as a new alternative asset class, appealing to precious metals dealers, investors, and wealth funds.

Road Map &
Go-To-Market Strategy

PHASE 2
Launching the Libertas Protocol & Identity Inscriptions

6.4 Phase 2 - Marketing & Adoption Strategy Focus (cont.)

◆ **The First-Ever Bitcoin Rewards Draw: A Historic Blockchain Milestone**

The inaugural *Libertas* Bitcoin Rewards Draw is a landmark moment for identity-backed incentives, securing mainstream attention and proving system legitimacy.

- **First Identity-Backed BTC Payouts** *Libertas* makes history as the first protocol rewarding inscribers of personal identity on Bitcoin Ordinals, gaining coverage in top crypto & financial media.
- **Community-Led Growth & Social Hype** A countdown campaign and real-time BTC prize pool tracking fuel organic engagement, as users share inscriptions and amplify excitement.
- **Sustained Adoption & FOMO-Driven Growth** Marketing capitalizes on missed-out users rushing to inscribe before the next draw, ensuring a continuous cycle of new adopters.

◆ **The Bitcoin Rewards Pool as a Viral Growth Engine**

The *Libertas* Rewards Pool serves as an autonomous, self-marketing adoption driver, leveraging Bitcoin incentives to power continuous inscriptions of new digital identities.

- **Community-Driven Prize Expansion** As the pool grows, social engagement, influencer partnerships and viral campaigns drive sustained momentum.
- **High-Visibility Public Rewards Tracker** A real-time dashboard displays BTC rewards growth, generating organic user-driven promotion.
- **Inscription Demand Multiplier** Every new inscription increases BTC fee revenue, reinforcing a self-sustaining cycle: adoption > rewards > more adoption.

◆ **Investor Positioning: The First-Mover Advantage in Identity-Backed Assets**

Phase 2 establishes *Libertas* as the world's first identity-backed asset protocol, combining Bitcoin's security, privacy-first authentication and ownable identity records.

- **First Bitcoin-Linked Identity Asset** *Libertas* inscriptions offer the only way to permanently secure personal identity on Bitcoin.
- **$LIBERTAS Demand from Real-World Utility** As users inscribe, generate ZKPs and authenticate transactions, $LIBERTAS becomes the core ecosystem driver.
- **Institutional & Enterprise Expansion** BTC inscription revenue, ZKP verification and gold-backed identity assets position *Libertas* as a bridge between blockchain adoption and institutional investment.

Road Map & Go-To-Market Strategy

PHASE 3
Chainlink DECO, Decentralized Trust Communities & TaaS

Beyond Bitcoin: Scaling Identity for Global Adoption

With *Chainlink* DECO, *Libertas* evolves from identity inscriptions to a scalable verification network, enabling trustless authentication across Web3 and enterprise applications. The PoI Layer becomes a decentralized verification hub, while "Decentralized Trust Communities" (DTCs) go live, allowing verified users to create ZKP-secured communities and networks.

Pilot programs, enterprise trials and API-driven integrations position *Libertas* as a global leader in privacy-first identity verification, unlocking new monetization models and wider adoption.

6.5 Phase 3 - Technical Development Focus

◆ Integrating Chainlink DECO: Unlocking User-Controlled Attribute Verification

Libertas integrates Chainlink DECO, enabling secure, private verification of real-world identity attributes directly from external databases.

- **User-Permissioned Data Access** Users connect to financial, educational, legal and government datasets via HTTPS over TLS, extracting verifiable identity attributes without exposing personal data.
- **Programmable Trust API** A standardized interface allows Web3 apps, protocols and enterprises to request ZKP-based attestations for on-chain verification, ensuring trust without data leakage.
- **Expanded Proof Creation & Storage** Newly verified attributes are hashed, encrypted and stored within the PoI Layer, ensuring seamless interoperability with Web3 and Decentralized Trust Communities (DTCs).

◆ The Libertas PoI API: Trust as a Service (TaaS)

Libertas introduces a scalable API layer, transforming identity verification into a programmable, decentralized service for Web3, enterprises and DAOs.

- **Seamless Proof of Trust Queries** Applications can request specific proof types (e.g., age, residency, financial status) for instant, privacy-preserving authentication.
- **On-Demand Attribute Retrieval** Verified users grant permission to applications for one-click proof access, eliminating redundant verification processes.
- **Self-Custody & Portable Credentials** Users retain full control over proof-sharing preferences, ensuring data sovereignty, decentralization and seamless Web3 interoperability.

Road Map & Go-To-Market Strategy

PHASE 3
Chainlink DECO, Decentralized Trust Communities & TaaS

6.5 Phase 3 - Technical Development Focus (cont.)

◆ **Decentralized Trust Communities (DTCs): Secure & Scalable Memberships**

DTCs become fully operational, allowing verified users to create exclusive, privacy-first communities secured by Zero-Knowledge Proofs (ZKPs).

- **DTC Creation by Inscribed Users** Only PoI-verified individuals can establish DTCs, ensuring a high-trust environment where membership is anchored in real identity attributes.
- **Multi-Attribute Community Verification** Founders define required ZKP attributes for membership, ensuring customized, permissioned access to Web3 groups and professional networks.
- **Privacy-First Credential Storage** Users opt-in to store ZKP-based credentials in the PoI Layer, eliminating repeated authentication while preserving decentralization.

◆ **Web3 Pilots & Real-World Trials Begin**

With full PoI Layer integration, *Libertas* enters the next phase: real-world testing and Web3 identity-backed application trials.
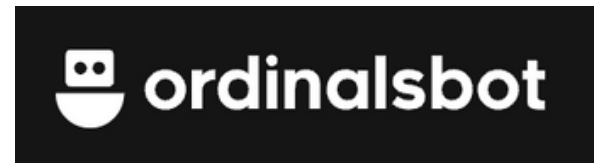
- **First Web3 Trust Applications** Real world use cases that require decentralized reputation systems leverage Libertas ZKPs for verifiable, privacy-first authentication.
- **Enterprise Collaboration** Institutions, compliance-focused firms and Web3 platforms explore Libertas PoI APIs for secure, KYC-free identity authentication.
- **Cross-Chain Expansion** *Libertas* explores the potential for cross-chain interoperability and adoption.

◆ **Optimizing the PoI Layer for Scalable, Enterprise-Grade Adoption**

As demand for identity-backed proofs scales, the PoI Layer is optimized for high-throughput, privacy-first verification.

- **Efficient Proof Processing** Batch verification optimizations reduce latency, enabling instant, scalable proof queries for real-time Web3 & DeFi authentication.
- **Granular Access Controls** Advanced selective disclosure mechanisms allow users to customize proof-sharing settings, ensuring dynamic, user-controlled privacy.
- **Enterprise-Ready Identity Infrastructure** *Libertas* positions itself as the leading decentralized identity provider, merging self-sovereign authentication with real-world compliance needs.

Partners & Advisors

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Libertas (noun) [Latin]

Pronunciation: /ˈlɪb.ər.tæs/

From Latin libertas, meaning freedom, liberty, independence. Derived from liber ("free"), it represents the state of being unbound, autonomous, and self-sovereign.

Libertas ID

Verified by Bitcoin

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