CIDENTIA

Building the World's First Trust Infrastructure

A unified digital ecosystem powered by CidenDB — an AI-driven identity and trust engine that verifies real humans, assigns dynamic trust scores, and enables secure, fraud-resistant interactions.

CidenBridge bridges Web2 institutions to verified identity infrastructure.

512D	99.9%	< 12ms	99.99%
Biometric Vectors	Accuracy	API Latency	Uptime SLA

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01 / THE PROBLEM

Today's Digital World Is Broken

The internet was designed for openness, not authenticity. That foundational trade-off created a crisis of trust affecting every digital corner. We can no longer reliably tell who is real.

Fake Identities
Millions of fake profiles, AI personas, and bot networks flood every platform.

Fragmented Reputation
Trust resets to zero on every new platform.

Marketplace Fraud
Unverified marketplaces suffer from scams worth billions annually.

Forged Credentials
Paper CVs and certificates are trivially faked.

Privacy Violations
Centralised identity stores create single points of failure — 1.4B records stolen/yr.

Institutional Silos
No standard identity layer across Web2, Web3, schools, and finance.

02 / THE SOLUTION

One Identity. One Trust Score.

Cidentia introduces unified trust infrastructure where identity, reputation, and transactions are deeply connected. CidenDB is the AI trust engine. CidenBridge connects institutions.

Unified Identity
One CID per human — sovereign, portable, cryptographically verified.

Dynamic Trust Score
Reputation computed from verification, activity, behaviour (0–100).

Institutional Bridge
CidenBridge connects Web2 institutions without replacing systems.

Zero-Knowledge Privacy
Prove facts without revealing underlying personal data.

03 / SYSTEM ARCHITECTURE

Three Layers. One Ecosystem.

Every layer depends on the ones below it. Every layer enforces identity at its core.

Layer 1: CidenDB — Trust Engine
Brain of system. Identity engine, AI verification, trust scoring, fraud detection. All apps interact via CidenDB APIs exclusively.

Layer 2: Cidentia Identity System
Seven components: CID, Life Vault, AI Agent, Trust Score, Asset ID, SafeLink, Global Mobility Pass.

Layer 3: Marketplace + CidenBridge
Marketplace transforms verified identity into economic value. CidenBridge connects Web2 institutions to verified ecosystem.

04 / CIDENDB ENGINE

The Intelligent Core of Digital Trust

Built on PostgreSQL 17 with pgvector. 512D biometric embeddings. Sub-12ms query performance. All applications interact exclusively through API layer.

Component	Technology	Purpose
Database Engine	PostgreSQL 17	ACID-compliant identity storage
Vector Engine	pgvector	512D biometric similarity search
Verification AI	ML Models	Face match, validation, liveness
Behavioural Engine	Pattern Analysis	Anomaly detection, fraud scoring
Trust Score	Computed 0–100	Dynamic reputation aggregation
Encryption	AES-256 + ZK	End-to-end with ZK proofs
API Layer	REST + GraphQL	All access via APIs

05 / CIDENBRIDGE

The Institutional Bridge: Web2 to Verified Identity

CidenBridge connects Web2 institutions directly to verified identity infrastructure without replacing existing systems.

Purpose

Keep your website. Keep your backend. Do not create a second identity system. Use CidenDB as identity authority. Add CidenBridge widget or connector. Create verifiable proof hashes and audit logs. Prepare payment references for CidenPay, CBDCs, digital money rails.

Three-Layer Architecture

Layer 1: Identity Layer
User verifies through CidenDB. One human = one identity. CidenBridge does NOT create second identity authority.

Layer 2: Institutional Workspace
Manage: customer records, devices, services, warranty proofs, QR proof, audit logs, payment references.

Layer 3: Connector & SDK Layer
Public widgets and signed connectors. Proof hash generation. QR public proof URLs. Zero direct database access.

Record → Proof Workflow

Form Submission → Backend Verification → Signed Event → Record Creation → Proof Generation → QR Public Proof → Audit Log → Payment Reference

90-Day Pilot Model

Institutions test for 90 days without automatic billing. Post-pilot: subscribe | extend | partner | archive. Removes friction, provides safe testing.

06 / WORKID & SCHOOLID

Verified Real-Life Records Linked to Identity

Close gap between what someone claims and what they actually did. Powered by CidenBridge.

WorkID — Verified Employment
Employers link attendance, tasks, performance to verified CID. Tamper-proof history. Portable across employers.

SchoolID — Verified Academic
Schools link attendance, performance, certificates to verified CID. No ghost students. Life-long record.

07 / MARKETPLACE FLOW

How Trust Becomes Economic Value

Every transaction is identity-logged by CidenDB and protected by zero-knowledge verification.

01. Customer Request
Service details, location, budget linked to verified CID.

02. AI Matching
Providers ranked: Proximity 30% · Price 25% · Trust 20% · Speed 15% · Completion 10%.

03. Provider Actions
Accept, Counter-offer, Reject, Negotiate — all identity-logged.

04. Offer Comparison
Compare by Trust Score, Price, Reviews, Distance.

05. Live Negotiation
Private real-time 5–10 min session, agreement recorded.

06. Access Monetisation
Unlock leads, boost visibility, access premium tools.

08 / USE CASES

Real-World Applications Across Every Sector

Cidentia is sector-agnostic. CidenBridge extends to Web2 institutions with verified identity infrastructure.

- Finance — KYC & Onboarding in under 3 seconds
- Electoral — Verified Voting: one human = one vote
- Education — SchoolID: verified certificates instantly
- Employment — WorkID: verified work history
- Services — Marketplace: verified buyers and sellers
- Recovery — SafeLink: lost devices with privacy-preserving QR
- Repairs — Warranty via CidenBridge: tamper-proof proofs
- Verification — Credential verification in seconds
- Government — Global Mobility Pass: digital travel identity
- Payments — Payment references ready for CidenPay, CBDCs

09 / TRUST & SAFETY MODEL

Identity-Enforced at Every Layer

Trust is the architecture. Verified identity, protected privacy, earned access.

Verified Accounts Only
Every user backed by verified CID + biometrics

Real-Time Fraud Detection
CidenDB monitors behavioural signals continuously

AES-256 + TLS 1.3
Military-grade end-to-end encryption

Zero-Knowledge Proofs
Prove facts without revealing personal data

Self-Custodied Keys
Cidentia never stores private keys

GDPR · CCPA · eIDAS
Privacy-by-design built into architecture

A New Category: Unified + Bridged

First system addressing all trust problems while bridging to Web2 institutions.

Competitors	Cidentia + CidenBridge
Single-country	147+ countries from day 1
Identity-only	Identity + institutional + marketplace
No Web2 integration	Bridges all Web2 institutions
Ignores legacy systems	Extends existing systems
App download required	Works via widgets on websites

11 / ROADMAP

Building in Public

Phase	Timeline	Milestone	Status
01	Q1 2025	Project Conception	Done
02	Q1 2026	Prototype & CidenDB	Done
03	Q1 2026	Alpha Launch	Active
04	Q2 2026	CidenBridge Alpha	Active
05	Q3 2026	Public Beta	Upcoming
06	Q4 2026	Official Launch v1.0	Upcoming
07	Q1 2027	CidenBridge Scale	Upcoming
08	Q3 2027	Global Expansion	Upcoming

Identity is not a product.
It is a right.

Cidentia + CidenBridge is a unified trust infrastructure powered by CidenDB — verifying real humans, assigning trust scores, bridging institutions, and linking assets across applications.

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