

TECHNICAL WHITEPAPER · V1.0-DRAFT · JUNE 2026

Building Culture

A proof-first on-chain culture ecosystem — identity, reputation, utility economics, agent accountability, and RWA infrastructure on Base.

Canonical endpoint: app.buildingcultureid.space

Live verification: app.buildingcultureid.space/grant-proof

Contact: hello@buildingcultureid.space

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Abstract

Building Culture is a proof-first on-chain culture ecosystem on Base. It connects community participation, portable identity, utility token economics, AI agent accountability, and real-world asset (RWA) infrastructure into one inspectable stack. The platform ships culture receipts on-chain: verified identity (.culture names and BCID), reputation and credentials, BCC utility settlement, fractional property shares (Places REOC), provably fair experience drops, and agent identity on oG.

Every major claim is verifiable in minutes via automated production checks — not narrative alone. This document describes the problem, architecture, token model, compliance posture, agent economy, roadmap, and risks. It is technical protocol material — not legal, tax, or investment advice.

1. Introduction

1.1 The Gap

Web3 culture and real-estate participation today suffer from four structural failures:

1. **No portable professional identity** — Credentials live in silos. DAOs cannot cheaply verify shipped work versus social farming.
2. **High sybil cost** — Human-proof layers exist but are not integrated with builder reputation.
3. **Undefined agent accountability** — AI agents operate wallets without standard binding to human owners or revenue attribution.
4. **Opaque RWA settlement** — Fractional participation lacks inspectable settlement and compliance hooks.

1.2 North Star

Build a proof-first on-chain culture ecosystem where community actions, identity, and utility are measurable, attributable, and compounding across products.

1.3 Design Principles

Principle	Implementation
Proof-first	Automated /grant-proof verifier; on-chain addresses in ADDRESSES.md
Clear product boundaries	Play ≠ Places shares ≠ NFT marketplace
Non-speculative utility	BCC = community credits and product access, not yield promises
Interoperability	BCID complements ENS, EAS, World ID, ERC-8004
Honest compliance claims	Chainlink modules shipped; certification only with partner + audit evidence

2. Problem Statement

2.1 Builder Identity Is Not Portable

Professional credentials are platform-bound. Web3 grants cannot verify that an applicant has shipped work. Follower counts are poor proxies for contribution.

2.2 Sybil Resistance Without Reputation Integration

World ID proves humanity but not professional contribution. EAS provides schemas without a canonical identity namespace.

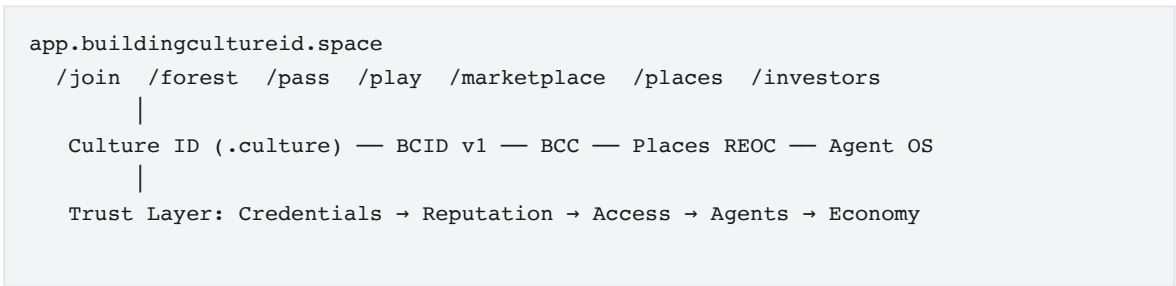
2.3 Agent Economy Lacks Ownership Graphs

AI agents need discoverable identity (ERC-8004), delegated wallets with spend caps, verifiable task history, and revenue attribution.

2.4 RWA Needs Compliance-Native Infrastructure

Tokenized real estate requires permissioned transfers, NAV-priced subscription/redemption, reserve-backed mint caps, and KYC-to-onchain hooks.

3. Solution Overview



3.1 Product Boundaries

Surface	What It Is	What It Is NOT
/play	Experience drops & raffle tickets (VRF)	Property share securities
/marketplace	ERC-721 secondary NFT market	Fractional real estate
/places	REOC property share tokens, compliance-gated	Generic NFT trading
/pass	.culture identity mint on Base	BCID soulbound identity (parallel)
Culture Pulse	Social digest anchor	Asset Proof of Reserve

4. Architecture

4.1 Trust Layer (Live Production)

Culture ID → Credentials → Reputation → Access → Agents → Economy

Layer	Description
Culture ID	Transferable .culture ERC-721 namespace on Base
Credentials	Builder, Contributor, Community Leader, Verified Human, Trusted Agent, Verified Project
Reputation	Culture Reputation score — credentials and contributions over vanity metrics
Access	Gated surfaces based on credential + reputation rules
Agents	Grove marketing agent, Agent OS, ERC-8004 registry, oG AgentId
Economy	BCC settlement, x402 payments, marketplace fees

Base is the live execution layer. **BCC** is the chain-agnostic economic layer. **XRPL** is an optional trust/payment rail (testnet intake on /investors; mainnet deferred).

4.2 BCID v1 (Parallel Identity Standard)

Building Culture Identity (BCID) is a soulbound, portable decentralized identifier complementing the live .culture trust layer.

Type	DID Namespace	Target
Human	did:bcid:human:{uuid}	v1 (live)
Company	did:bcid:company:{uuid}	Month 4
Asset	did:bcid:asset:{uuid}	Month 5
Agent	did:bcid:agent:{uuid}	Month 3–4

Four reputation scores: Builder, Trust, Contribution, Verification. No follower weight. Recovery via 2-of-3 guardians with 72-hour timelock. Interoperates with ENS, EAS, World ID, ERC-8004, and .culture bridge.

4.3 Places: Real Estate on Base (REOC)

Module	Function
PropertyRegistry	Property IDs, document root anchors
ComplianceRegistry + ChainlinkAceAdapter	KYC-gated transfers
RestrictedPropertyShareToken	uRWA surface (canSend/canReceive/canTransfer)
PropertyShareDTA	NAV-priced subscribe + redeem queue
PropertyReserveFeed	Mint caps vs attested backing
RaffleTicketCampaignVrf	Provably fair raffle winner selection

*Do not claim "Chainlink ACE certified" until partner sandbox + audit evidence is published.
PoR attests declared backing — not legal land registry title.*

4.4 Agent Infrastructure

oG AgentId (live): ERC-721 on oG Chain mainnet — contract `0x0451b1d37058ad57df22d7185aabc6b0a36fc41e` — proof at `/og/agentid`.

Agent BCID mint: 1 BCC → agent economy fund. x402 revenue split: 95% agent wallet / 5% treasury.

5. BCC Token Economics

Constant	Value
Token	0xb890a5289f789f1346032ccc1847939e855fab07
Chain	Base 8453
Discount	11.11% on priced features (pay 8889/10000 of list price)

5.1 Utility Rails

Surface	Contract
Identity /pass	CultureLayerIdentityV2 — mintWithBcc
Art tickets	BuildingCultureHubV2 — mintTicketsWithBcc
Places shares	PrimaryShareSaleBcc — buyWholeSharesWithBcc

Oracle: BccTwapOracle (Uniswap V3 TWAP + Chainlink ETH/USD). Stripe Culture Packs settle USD → BccSettlement queue → treasury BCC credit.

5.2 BCID Fee Model

Action	Price
Human BCID mint	~\$1.11 USD equiv (ETH or BCC with 11.11% discount)
Onchain credential issue	0.1 BCC + gas
Agent BCID mint	1 BCC
Bridge .culture → BCID	Free

5.3 BCID Mint Revenue Split

Destination	%	Purpose
Treasury (Safe)	70%	Ecosystem ops, grants
Burn	20%	BCC deflation
Validator pool	10%	Credential issuers + bridge validators

Treasury Safe (Base): 0xCe03F6E734cC48393Ce41b257E998c68b521EB5c

6. Security & Privacy

Zone	Contents	Exposure
On-chain	Token ID, owner, credential token IDs	Public
Postgres	Events, scores, linked accounts	App-trusted
Encrypted storage	PII, KYB docs	User-key encrypted
ZK proofs	Claim statements only	Zero-knowledge (Month 6+)

Treasury policy: No single EOA for protocol funds — Safe 2-of-3 multisig. Kill-switch: AGENTS_PAUSED=1. ownerMint disabled on BCC without multisig approval.

7. Ecosystem Orbit

Product	URL	Role
Unified app	app.buildingcultureid.space	Canonical front door
Places	places.buildingcultureid.space	REOC property investment
BCDAI	bedai.buildingcultureid.space	AI trading terminal
Ankommen AI	ankommen.buildingcultureid.space	Social impact (Austria beta)
KinderStimme	forkids.buildingcultureid.space	Child protection (Austria beta)

8. Competitive Positioning

BCID unique value proposition:

1. Four BCID types — Human, Company, Asset, Agent
2. Verifiable reputation without social vanity
3. Privacy by default — encrypted credentials + ZK selective disclosure
4. Recovery architecture — guardian timelock
5. Agent ownership — Agent BCID with wallet, reputation, revenue
6. Parallel to live .culture — no breaking migration

9. Roadmap

9.1 Completed

Deliverable	Status
Open source + grant readiness pack	Met
Base mainnet deployment + ADDRESSES sync	Met
/grant-proof verifier	Met
oG AgentId on mainnet	Met

9.2 Active Roadmap

Milestone	Target
100 Human BCIDs on Base mainnet	Month 3
3 DAO pilot integrations	Month 3
Company + Agent BCID + marketplace	Month 4
ZK selective disclosure	Month 6
External audit (Places + DTA + ACE adapter)	Roadmap

10. KPI Framework

KPI	Definition	Cadence
WAU (ecosystem)	Weekly active wallets/members	Weekly
Agent-attributed joins	agent_ref=* visits reaching join success	Weekly
Join → pass conversion	Joiners that mint identity pass	Weekly
BCC utility usage	Count/value of BCC discount transactions	Weekly
Reliability score	Production smoke pass rate	Weekly

11. Risks & Limitations

11.1 Technical Risks

Smart contract vulnerabilities (external audit required), oracle manipulation (Chainlink + TWAP), agent wallet compromise (spend caps, session key expiry).

11.2 Regulatory Risks

Property share tokens may be securities in relevant jurisdictions. This whitepaper is not a securities disclosure or offer.

11.3 Operational Honesty

Item	Status
Base mainnet contracts	Pass when contracts:audit OK
oG AgentId	Pass with ChainScan link
Chainlink ACE certification	Not claimed until partner + audit
ECON_LIVE=o	Full economics gated

12. Verification & Contact

1. Live grant proof — app.buildingcultureid.space/grant-proof
2. oG AgentId proof — app.buildingcultureid.space/og/agentid
3. On-chain index — [ADDRESSES.md](#) / [ADDRESSES.json](#)
4. Operator: `npm run grant:proof`

Channel	Address
General	hello@buildingcultureid.space
Feedback	app.buildingcultureid.space/voice
Grant submissions	laszlo.bihary@gmail.com

13. Conclusion

Building Culture unifies culture participation, portable identity, utility economics, agent accountability, and RWA compliance infrastructure into one inspectable stack on Base. The

live .culture trust layer serves production users today; BCID v1 extends with soulbound identity and verifiable credentials without breaking migration. BCC provides non-speculative utility across identity, art, and property surfaces.

The ecosystem invites protocol operators, DAO tooling teams, property partners, and identity researchers to verify shipped work at /grant-proof, pilot BCID integration, and contribute feedback via /voice.

Disclaimer: Technical summary for reviewers — not a securities disclosure, offer, or investment recommendation. Token and protocol parameters may change; verify live state at app.buildingcultureid.space/grant-proof.