

1-Page Pitch Deck Insert - CuttlefishVault + BuilderAgent

The CuttlefishVault + BuilderAgent Stack

Layer Description

Vault Contracts Secure, upgradable ERC4626-based vault holding site operating capital & reserves.

BuilderAgent Autonomous contract acting on AI or off-chain model signals, triggering trades, allocating funds across DeFi & future energy service contracts.

DAO Governance Golden NFTs grant Snapshot voting on vault parameters, fees, and Over/Under infrastructure expansions.

CarbonVaults On-chain ledgers transparently tracking renewable kWh and CO2 offset tied to each infrastructure module.

Why It Matters

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- Turns the site into a living AI treasury.

BuilderAgent decides when & how to execute trades, route power or capital, and eventually direct service payments for Over/Under modules.

- Fully Hardhat + Solidity tested.

Mock Uniswap integrations, ERC20 assets, and carbon fees are already simulated on Sepolia & local testnets.

- Bitcoin-backed DAO treasury.

Ensures resilience & multi-decade durability, with transparent treasury states visible on-chain.

Example Financial Flow

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- + DAO vault holds BTC-collateralized funds

- + BuilderAgent executes AI or rule-driven trades on Uniswap / other protocols

- + Profits accrue to vault -> performance fees flow to CarbonVault

- + CarbonVault funds new Over/Under modules, creating on-chain ROI + ESG reports

Investor & Grant Highlights

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- Autonomous, decentralized vault layer de-risks traditional financing - integrates seamlessly with C-PACE, ARDEF, SEID structures.
- Proof of R&D for DOE/OCED & NSF smart infrastructure initiatives - showing how AI can direct capital into modular public works with measurable carbon outcomes.

"The world's first AI-managed Over/Under infrastructure treasury - securing clean energy, sovereign compute, and parametric civic modules, all on-chain."