

BNB-Shield Web3 AML Solution: 1-Year Roadmap

Phase 1: Core Development & Testnet (Months 1-3)

Objective: Develop core infrastructure and validate technical feasibility.

Technical Implementation

- Develop **on-chain PEP record minting** on **opBNB**.
- Build **BNB Greenfield data storage layer** for off-chain data.
- Implement **Confidential Container** for secure work item publishing.
- Deploy **Polling Service** for real-time detection of PEP records.
- Develop bootstrap for **Swarm Agent Framework** Node Operators (TEE/ZK/FHE).
- Establish **staking & slashing mechanism** for economic incentives.

Testnet & Early Compliance Engagement

- Launch **BNB-Shield Testnet**.
 - Conduct **smart contract audits & security assessments**.
 - Engage **regulators & compliance firms** for integration feedback.
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Phase 2: Mainnet Launch & Initial Adoption (Months 4-6)

Objective: Deploy mainnet, establish partnerships, and onboard users.

Mainnet Deployment & Integrations

- Deploy **BNB-Shield v1** on **OpBNB mainnet**.
- Integrate **BNB Greenfield & encrypted compute layer**.
- Implement **agent-driven PEP & Sanctions Screening**.
- Establish **collateral-based trust scoring & dispute resolution**.

Partnerships & Compliance Expansion

- Partner with **3-5 blockchain AML/KYC providers**.

- Secure **collaborations with centralized & decentralized exchanges (CEX/DEX)**.
 - Begin pilot integrations with **TradFi institutions (banks, insurers, payment processors)**.
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Phase 3: Scaling & Institutional Adoption (Months 7-9)

Objective: Expand capabilities, optimize performance, and onboard enterprises.

Feature Expansion & AI AML Screening

- Deploy **Geographical Risk & Beneficial Ownership (UBO) Screening**.
- Integrate frameworks for decentralized agents to rapidly deploy **AI-powered anomaly detection & behavioral monitoring**.
- Enhance **cross-chain AML capabilities & API integrations**.

Enterprise Adoption & Risk Sharing

- Onboard **at least 10 financial institutions & TradFi entities**.
 - Expand **crypto partnerships (exchanges, DeFi platforms, remittance providers)**.
 - Launch **whitelisted counterparties for collaborative risk sharing**.
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Phase 4: Full Market Penetration & Governance (Months 10-12)

Objective: Establish BNB-Shield as the leading Web3 AML standard.

Global Compliance & Automation

- Expand **AML support for multiple jurisdictions (EU, US, Asia, MEA)**.
- Automate **dispute resolution & collateral adjustments**.
- Deploy **zk-SNARKs for privacy-preserving audits**.

Long-Term Ecosystem Growth

- Introduce **BNB-Shield token utility for governance & staking**.
 - Establish **DAO or hybrid governance model**.
 - Offer **AML-as-a-Service (AMLaaS) for businesses**.
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This **1-year roadmap** ensures **BNB-Shield scales rapidly**, achieves **regulatory compliance**, and becomes the **leading Web3 AML solution**.