

ZakCoin (ZAK)

The Data-Pegged AI Quality Index — Whitepaper v1.0

□ Live on BSC Mainnet · September 2026

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1. Abstract

ZakCoin (ZAK) is a BEP-20 token on BNB Smart Chain whose value is pegged to a real, measurable market metric: the price of **1 MB of high-quality AI training data**. A dynamic on-chain oracle derives the peg from live frontier-model pricing with transparent safety rails. Beyond the peg, ZAK functions as an **AI quality index**: model usage credits across the ZAK ecosystem are priced in ZAK relative to each model's measured quality score — earned publicly in the ZAK Chess League, where frontier AI models compete with Stockfish as neutral judge. Holders can spend ZAK at a fixed rate of 1 ZAK = 1 MB for metered access to a curated AI training-data corpus.

2. The Problem

Most crypto tokens have no intrinsic value anchor — prices are driven by speculation and sentiment. Meanwhile, the AI training-data market (projected at **\$15B+ by 2030**) has clear, benchmarkable per-MB pricing operated by providers such as Scale AI, Appen, and Labelbox. Two economies that should be connected — on-chain value and the AI data market — remain disjointed. Separately, "AI quality" is typically self-reported by vendors, with no transparent, comparable measurement.

3. The Solution: A Data-Pegged Token

ZakCoin bridges the two:

- **Data peg:** 1 ZAK represents the market value of 1 MB of high-quality AI training data (\$0.053333 at launch). The peg is stored on-chain (`dataPriceUsd`) and readable by anyone via `getZakValue()` .
- **Quality index:** AI model credits are priced in ZAK according to measured quality — above-average models cost more ZAK per credit, below-average cost less, benchmarked against the league average (1 credit = 1.000 ZAK at average).
- **Real utility:** ZAK is spendable today for tiered access to an AI training-data corpus at a fixed 1 ZAK = 1 MB metering rate.

4. Oracle Mechanics

The peg is not a hardcoded constant. A dedicated oracle computes the data price from live market signals — anchored to frontier models' output-token pricing (the true cost of generating data) — and writes it on-chain.

```
peg = f(frontier output price, intelligence, coding, latency)
```

Safety rails:

- The price **never decreases** (ratchet with hard floor at current peg).
- Maximum increase of **+5% per update**.
- Every update is a verifiable on-chain event via `setDataPrice(newPrice)` (oracle-only).
- Price precision: 6 decimals (USD × 1e6); current value `dataPriceUsd = 53333` → \$0.053333/MB.

The public [AI Data Quality Dashboard](#) shows the live inputs: frontier-model pricing, intelligence/coding scores, latency, and hallucination rates.

5. The AI Quality Index & ZAK Chess League

Quality scores are **earned, not claimed**. The [ZAK Chess League](#) pits frontier models (GPT, Claude, Grok, Gemini, Qwen, DeepSeek) against each other on the same board, with Stockfish as neutral judge. Three transparent signals are recorded: **ELO, win-rate, and evaluation accuracy**.

Credit pricing formula (illustrative):

$$\text{ZAK per credit} = \text{model ELO} / \text{league-average ELO}$$

Model quality	ELO	ZAK per credit
Average (baseline)	1200	1.000 ZAK
Above average	1231	1.026 ZAK
Below average	1142	0.952 ZAK

The chess league is free and public — pure measurement, no paywall. It is the transparent instrument backing ZAK-denominated model pricing.

6. Token Utility

- **Data access (live):** wallet-signature-gated corpus access in three tiers — Tier 0: aggregate stats (free); Tier 1: PII-redacted RAG search (holders); Tier 2: raw rows, metered at **1 ZAK = 1 MB** of retrieved data. Corpus: 4,725 vectors, FineWeb-Edu (ODC-By).
- **AI model credits:** pay for model usage across the ZAK ecosystem in ZAK, at quality-adjusted rates.
- **Store of value:** each ZAK tracks the on-chain value of 1 MB of AI training data.
- **Burnable:** any holder may call `burn(amount)`, reducing circulating supply.
- **ZAK Shield (free):** CVE lookup, threat intel, wallet screening, and contract audits — free to everyone; premium ecosystem access for holders.

7. Tokenomics & Liquidity

Parameter	Value
Total supply	1,000,000,000 ZAK (fixed at deployment)
Standard	BEP-20 (OpenZeppelin ERC20 + Burnable + Ownable + Permit)

Decimals	18
Launch peg	\$0.053333 / ZAK (1 MB data)
Trading	ZAK/USDT on PancakeSwap v2
Pool	<code>0xA2317F69c2983742bD80df1814c7e66B8Dc3272A</code>
LP lock	100% locked until 2027-09-18 in source-verified time-lock vault <code>0x8081AE8c33e7e1f4DCF0F96CECec1025773e0Dd5</code>
Mint function	Exists (owner-only) — every action visible on-chain; no stealth inflation

8. Contract Details

Item	Value
Token	ZakCoin (ZAK)
Contract (canonical v2)	<code>0x26EfC87470F9D84bC4875f31BE4b9797059e77f4</code>
Chain	BNB Smart Chain (mainnet)
Verified	☒ Source verified on BscScan (Solc ^0.8.27)
Oracle address	<code>0x66b6B9aF9d9eab476885Fb2467fd909610A6bd99</code>

Key functions: `getZakValue()`, `getMarketCap()`, `getDataPriceDisplay()`, `oracle()`, `setDataPrice(uint256)` (oracle-only), `setOracle(address)` (owner-only), `burn(uint256)` (any holder).

9. Ecosystem Components

- **zakcoin.net** — project home, live peg, tokenomics, docs.
- **dashboard.zakcoin.net** — public AI data-quality dashboard (live oracle inputs).
- **chess.zakcoin.net** — ZAK Chess League (free, live model-quality measurement).
- **Data gate** — wallet-signed, tiered corpus access with 1 ZAK = 1 MB metering.
- **ZAK Shield** — free AI security tools (CVE / threat / wallet / contract scans).
- **Oracle service** — daily automated peg updates with safety rails.

10. Roadmap

Phase	Scope	Status
0 — Launch	v1 on BSC, website live	☐ Complete
1 — Data Peg	v2 oracle contract, BscScan verification, daily oracle cron	☐ Complete
2 — Data Utility	Quality dashboard, 3-tier data gate, dynamic oracle feed	☐ Complete
2.5 — Public Trading	PancakeSwap pool seeded at peg; LP locked to 2027-09-18; aggregator listings	☐ Complete (Sep 18, 2026)
3 — Data Marketplace	Earn ZAK by contributing datasets; decentralized labeling & curation	☐ In progress
4 — Multi-Chain & Governance	Other chains; DAO governance over oracle & parameters; community data-price voting	☐ Q4 2026

11. Risk Factors

- The oracle is currently single-key (owner/oracle wallet); Phase 4 governance is designed to decentralize it.
- Early-stage project with a small liquidity pool; market prices can deviate from the oracle peg.
- The mint function exists (owner-only) and is fully visible on-chain.
- ZAK is not an investment contract; nothing here is financial advice. Do your own research.

12. Team

ZakCoin is built by **ZAK Technologies** — an independent software company developing AI platforms, marketplaces, and project-management systems, operating live production infrastructure (AI platform, security services, RAG pipelines) since 2025. Contact: info@zak-technologies.com · zak-technologies.com