Dorol (DRL)
Gold-Backed Digital Asset

White Paper

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Executive Summary

Dorol converts physical, investment-grade gold into a transferable digital token on Ethereum. Each DRL represents one troy ounce of 999.9-fine bullion that is professionally vaulted and fully insured. Supply is elastic: tokens are minted only after new gold deposits are audited, and they are burned when holders redeem metal. Ninety percent of the genesis supply was distributed to the public; the remaining ten percent funds operations and ecosystem growth under a strict four-year vesting schedule. Independent auditors verify reserves monthly, and attestation hashes are recorded on-chain. Dorol's near-term roadmap includes Tier-1 exchange listings, a mobile wallet, global redemption coverage, automated gold-bar ATMs and the design of Dorol Network, an L2 optimised for asset-backed settlement.

01. Introduction

• Project Overview

Dorol is a blockchain-based platform that converts investment-grade gold into a transferable digital token. Each **DRL** token corresponds to one troy ounce of 999.9-fine gold held in fully insured vault custody.

• Objectives and Purpose

The project aims to merge the enduring value of bullion with the settlement speed and composability of public-chain infrastructure, enabling frictionless transfer, trading and redemption of gold.

• Problem Statement

Physical gold is costly to store and move, while most digital assets lack intrinsic backing and show high volatility. Dorol closes this gap by tokenising vaulted gold and making it instantly portable on Ethereum.

02. Rationale

- **Tokenising Gold**

Tokenisation renders gold divisible, borderless and programmable, allowing automated settlement in DeFi protocols without sacrificing direct ownership of the metal.

- **Comparative Advantages**

Relative to exchange-traded products and vault certificates, DRL offers public, on-chain transferability and verifiable reserves. Compared with unbacked cryptocurrencies, DRL is anchored by a tangible asset with a centuries-long store-of-value record.

03. Asset backing & proof-of-reserve

- **Custody Framework**

Dorol partners with institutional-grade vaults in politically stable jurisdictions. Gold bars meeting LBMA Good-Delivery standards are held under bailment for token-holders and insured at replacement value.

- **Insurance Cover**

An investment-grade underwriter provides comprehensive coverage against loss or damage. Policy details are available to auditors under NDA.

- **Audit & Public Attestation**

An independent auditor reconciles the bar inventory each month. A signed inventory report is published on the Dorol website, and an attestation hash is recorded on-chain so that anyone can confirm reserves meet or exceed circulating supply.

- **Individual Reserve Verification**

Holders requiring certificate-based confirmation may request a bespoke verification report via **support@dorol.io**, subject to standard KYC procedures.

04. Token supply policy

- **Elastic Supply Model**

An initial **10 000 000 DRL** tokens were minted. Supply can increase only when fresh bullion is deposited and verified, or decrease when holders burn tokens to redeem metal.

- **Mint and Burn Controls**

Minting requires bullion delivery confirmation, an auditor's attestation and a seven-day public notice, then approval by a four-of-seven multi-signature committee. Burning is permissionless and removes the corresponding ounces from circulating reserves.

- **Governance Safeguards**

All mint, burn and treasury transactions pass through a 24-hour on-chain timelock and are summarised in quarterly disclosure reports.

05. Tokenomics

- **Genesis Distribution**

Public Allocation: 9 000 000 DRL (90%)
Operating Tranche: 600 000 DRL (6%)
Ecosystem Tranche: 400 000 DRL (4%)

- **Treasury Structure & Vesting**

Both tranches vest linearly over four years. Expenditures — audits, insurance, liquidity, grants, listings — require multi-signature approval and appear in monthly treasury statements.

- **Transparency and Reporting**

Circulating supply, reserve balances, vesting progress and cumulative operating outlays are disclosed quarterly on the Dorol website.

06. Current capabilities

• Token Acquisition and Storage

DRL may be purchased with USDT, Bitcoin or ETH through the Dorol portal or using any available DEX/CEX trading pair. Afterwards, the token can be stored in any ERC-20 wallet, including hardware devices.

• Physical Redemption Process

Holders can redeem one troy ounce or more by initiating a burn **transaction exclusively through the redemption interface on the Dorol.io website** and completing standard KYC. Collection or insured courier delivery is then arranged by the vault operator.

• Verified Smart Contract Address

The sole verified and authoritative DRL smart-contract on the Ethereum mainnet is **0x6085EF8f41c6A1006C6689620546B46F0d82f03c**
   This address is published on Etherscan with full source-code verification. Any token claiming to represent Dorol on a different contract address should be treated as unauthorised.

07. Use-case examples

• Retail Hedge

An individual concerned about inflation swaps stablecoins for DRL, holding a gold-denominated balance without leaving the blockchain. When expenses arise, they convert a fraction of their tokens back to fiat via a decentralised exchange.

• Institutional Settlement

A bullion dealer and a refinery settle a shipment by transferring DRL on-chain, eliminating correspondent banking delays and reducing FX risk.

08. Development roadmap

- **Phase I — Q3 2025**

Release of the Dorol Wallet mobile application for iOS and Android; completion of an independent smart-contract and proof-of-reserve audit; and preparatory work for Tier-1 exchange listings.

- **Phase II — Q4 2025**

Listing on two to three Tier-1 centralised exchanges and deployment of the first canonical bridge to an additional EVM chain. Opening of a second physical redemption desk.

- **Phase III — Q1 2026**

Expansion of bridge infrastructure to at least two further EVM chains. Establishment of one redemption location on every inhabited continent.

- **Phase IV — Q2 2026**

Pilot installation of Gold-Bar ATMs and commencement of Dorol Network design. A governance proposal will outline technical parameters and milestones.
  Quarterly progress reports track supply, vault inventory, cross-chain liquidity, wallet adoption and ATM utilisation.

09. Governance & treasury management

- **Multi-Signature Architecture**

Protocol privileges are secured by a geographically distributed four-of-seven multi-signature using hardware security modules.

- **Voting Parameters**

Token-holders may propose and vote on treasury disbursements, bridge deployments and protocol upgrades. Proposals require five-per-cent quorum and pass by simple majority.

- **Disclosure Cadence**

Monthly reserve and treasury statements, plus quarterly performance reports, are published on the Dorol website and notarised on-chain.

10. Risk considerations

- **Market Risk**

DRL's fiat value fluctuates with the gold price.

- **Operational Risk**

Vault failure, insurance disputes or smart-contract vulnerabilities could impair redemptions or compromise backing. Mitigations include diversified custody, comprehensive insurance, independent audits and a bug-bounty programme.

- **Regulatory Risk**

The regulatory treatment of tokenised commodities may change across jurisdictions. Dorol will adapt compliance measures accordingly but cannot guarantee unrestricted availability everywhere.

11. Glossary of terms

Bailment: Legal arrangement in which physical gold remains the property of token-holders and is merely held by the vault operator.

DRL: The ERC-20 token representing one troy ounce of 999.9-fine gold.

Elastic Supply: A model where token supply expands or contracts strictly in line with audited gold inflows and redemptions.

KYC: Know-Your-Customer identity verification required for redemption.

LBMA Good-Delivery: Industry standard defining weight, purity and physical characteristics of investment-grade gold bars.

Multi-Signature (Multi-Sig): Crypto-security mechanism requiring multiple private-key approvals to execute sensitive transactions.

Proof-of-Reserve: Independent verification that circulating DRL tokens are fully backed by vaulted gold.

DeFi: Decentralised-finance applications running on public blockchains.

12. Contact information

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13. Legal disclaimer

This document is provided for information purposes only and does not constitute an offer to sell or solicitation of an offer to purchase any security, commodity interest or other regulated financial instrument. Prospective purchasers should conduct their own due diligence and consult professional advisers before acquiring DRL tokens. Holding DRL exposes the holder to fluctuations in the international gold price and to operational risks associated with vault custody and smart-contract execution.