haidrun

BUSINESS LITEPAPER

The infrastructure layer behind digital money

The infrastructure layer behind digital money — a business overview.

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Haidrun AB · Stockholm, Sweden · Reg. no. 559259-8550
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Money is moving on-chain. Stablecoins have become a settlement layer for the global economy, and regulated institutions — banks, payment providers, and fintechs — now need infrastructure to issue and move digital money on their own terms: private, compliant, and under their own control.

> **Draft status.** First business-facing draft for internal review. Bracketed tags mark where input is required before publication: `[VERIFY]` market figures and performance claims; `[LEGAL]` all regulatory/compliance wording (pending legal sign-off); `[INPUT]` client-supplied material (references, certifications, logos). No statement here is a claim of current licensure or financial advice. A separate, deeper **Technical Whitepaper** covers architecture, consensus, and security.

Executive summary

Haidrun is the infrastructure layer behind digital money. **StablePay**, built on the Haidrun Network, is a turnkey, private blockchain platform that lets an institution issue its own stablecoin, run payments and settlement, and tokenize real-world assets — deployed inside its own security perimeter and live in weeks, not years. The platform pairs a proprietary Layer 1 engine with an industry-standard API layer and an application layer, so an organization can integrate at a high level or build directly on the chain.

Haidrun is engineered regulated-first, for compatibility with the major frameworks governing digital money `[LEGAL]`, with bank-grade key security and deterministic, sub-second settlement. It is built in Stockholm with Nordic engineering discipline: calm, precise, long-term.

The opportunity — the money layer is being rebuilt

The infrastructure that moves value is being rewritten around programmable, always-on digital money. The direction of travel is clear across public markets, payments, and asset issuance:

- **$33T** in stablecoin settlement volume (2025) *[VERIFY: source]*
- **$4T** projected by 2030 — Citi *[VERIFY: confirm figure & source; Citi's revised forecast is ~$1.9–4T]*
- **6×** market growth over five years *[VERIFY: source]*
- Significant capital flowing into digital-money infrastructure *[VERIFY: confirm any specific figure before use]*

For regulated institutions, the barrier has never been appetite — it has been infrastructure. Public chains conflict with data-sovereignty and compliance obligations; building in-house takes years and specialist teams. Haidrun removes that barrier: production-ready infrastructure that an institution runs itself, with compliance and settlement native to the platform.

What Haidrun is

Haidrun gives banks, payment providers, and fintechs a **private, compliant blockchain platform** to issue stablecoins, move money, and tokenize real-world assets — live in weeks, not years. The platform is one system with three layers:

- **Engine / Layer 1** — Haidrun's proprietary blockchain core: the settlement and execution engine. Deterministic, fast, and energy-efficient, with native interoperability built in. Build directly on it with the SDK.
- **API layer (B2B)** — Industry-standard REST APIs secured with TLS 1.3 and mutual TLS. Connect banks, KYC/AML providers, and external payment rails — plug-and-play, no custom development.
- **Application layer (B2C)** — Ship customer apps, wallets, and payment experiences on the same foundation, powered by the SDK.

Key terms. *StablePay* — the enterprise stablecoin platform built on the Haidrun Network. *HSC* — Haidrun StableCoin, the backed stablecoin model an institution issues and controls. *HVM* — the Haidrun Virtual Machine, EVM-compatible.

Why institutions choose Haidrun

- **Sovereign by design** — Your own private Layer 1, inside your perimeter. Your data, your rules, no external blockchain dependencies.
- **Native interoperability** — Interoperability at the core — no external bridges or Layer 2 to weaken security or speed.
- **HVM — EVM-compatible** — Reuse your Solidity tools and contracts, with an upgradable path to future standards.
- **Built for scale** — 15,000–30,000 TPS in production, sub-350 ms p99 latency, and sub-500 ms finality — with a documented path to higher throughput.
- **Deterministic finality** — An evolved Proof-of-Vote + DPoS consensus: transactions are final and irreversible, with no forks or reorganizations.
- **Regulated-first** — KYB, KYC/AML, reserves, and audit — built for compatibility with MiCA, the GENIUS Act, FATF, and VARA. `[LEGAL]`

> "Only the fastest is fast enough." — Jonas Lundqvist, CEO

What you can build

USE CASE	WHAT HAIDRUN PROVIDES
Stablecoin issuance	Mint and burn a backed stablecoin (HSC model) with reserve management, token lifecycle, and compliance in your controlled environment. Multi-currency issuance. White-label ready.
Payments & settlement	Instant, low-cost transactions and settlement — cross-border and domestic, B2B and B2C.
Tokenization	Turn assets into programmable digital tokens with compliance built in.
Real-world assets (RWA)	Issue and manage securities, funds, real estate, private credit, commodities, and carbon credits on-chain — compliant issuance, lifecycle, fractional ownership, custody, and secondary transfers, native to the platform.
Treasury & reserves	Manage reserves, balances, and flows with full visibility and on-chain attestation.
Consumer & B2C	Extend to retail: branded wallets, P2P transfers, and payment experiences on the same rails.

Compliance-first — `[LEGAL: pending sign-off]`

Security and compliance are built into Haidrun's architecture and data model, not bolted on afterwards. The platform is engineered for compatibility with the world's regulatory frameworks — with requirements embedded in the core workflows:

- **MiCA** — reserve requirements, on-chain reserve attestation, HSM key custody with audit trail, treasury controls, a built-in complaints workflow (Art. 71), and tiered client identification.
- **US GENIUS Act** — 1:1 reserve backing with real-time tracking, permitted reserve assets, monthly attestation, and redemption at par.
- **FATF** — real-time AML monitoring, risk-based limits, sanctions screening (EU, UN, OFAC), case management with SAR generation, and dynamic risk scoring.
- **VARA and beyond** — engineered to support additional frameworks as you expand.

> **For legal review.** Haidrun is in the process of applying for licenses. The platform is engineered to be compatible with, and to facilitate compliance with, these frameworks; this is **not a claim of current licensure**. Specific applications may require additional configuration and documentation. All wording in this section is pending legal sign-off.

Security & deployment (overview)

All signing keys reside in FIPS 140-3 Level 3 hardware security modules — private keys never leave the hardware boundary. Transport is protected with TLS 1.3 and mutual TLS; data is encrypted with AES-256 at rest; access is role-based with multi-factor authentication; and an immutable audit trail supports audit-ready operations.

Deploy on all major clouds — Oracle Cloud, Google Cloud, Microsoft Azure, AWS — or on-premises / private cloud, multi-availability-zone by default, with zero-downtime scaling. The deeper security model is covered in the Technical Whitepaper.

The company

Haidrun AB is a Swedish company headquartered in Stockholm (Reg. no. 559259-8550). The name comes from Norse myth: **Heiðrún** is the goat whose mead flows without end — a fitting metaphor for a reliable, ceaseless flow of digital money, engineered with Swedish precision.

- **2020** — Research: a market-leading consensus mechanism that eliminates the energy cost holding back existing protocols.
- **2020–2022** — Development: proprietary consensus, high throughput, and native interoperability built directly into Layer 1.
- **2023** — Launch: production-ready v1.0.
- **2023–2025** — Refine: security and compliance from institutional feedback, an industry-standard REST API, a native SDK, and EVM/wallet compatibility.
- **2025–** — Evolve: deepening enterprise payments, treasury, and real-world-asset capabilities.

[Confirm public wording of timeline milestones.] · **Leadership:** *[INPUT: bios & photos]* — Jonas Lundqvist, CEO; core team per the Company page.

Get started

See how Haidrun can power your stablecoin, payments, RWA, and tokenization strategy. **Request a demo** at haidrun.io · Read the docs at docs.haidrun.io · Stockholm, Sweden.

Footnotes & disclaimers. 15,000–30,000 TPS in production depending on infrastructure and network conditions; up to 65,000 TPS measured in optimized lab / closed-network environments. **[VERIFY]** Market figures marked [VERIFY] require source confirmation before publication. Regulatory statements marked [LEGAL] are pending legal sign-off and are not a claim of current licensure. This document is informational only and is not financial, investment, or legal advice. It may contain forward-looking statements regarding product capabilities and roadmap that are subject to change.