An Open Foundation for Dharma Life

Vyoma documents your processes. HelixNet gives you the platform to run them. No walled garden. No per-seat licensing. We build it together.

WHY NOT SAP

SAP Public Cloud costs €800K+ in licensing, locks you into a proprietary ecosystem, charges per seat, and takes 6-12 months to implement. For a non-profit scaling from 17K to 50K micro-entrepreneurs, it's the wrong tool at the wrong price.

VYOMA + HELIXNET

Vyoma provides AI-powered process documentation (replacing Signavio). HelixNet provides an open-source ERP and middleware foundation -- working REST APIs, authentication, data models, and containerized deployment. We configure and extend it to fit Dharma Life's needs.

WHAT HELIXNET HAS TODAY (BUILT & RUNNING)

COMPONENT	STATUS	DETAILS
REST API	Built	~80 endpoints across 12 route modules (FastAPI + Python)
Data Models	Built	20+ active SQLAlchemy models with PostgreSQL + Alembic migrations
Authentication	Built	Keycloak OIDC with JWT RS256, 5-role RBAC enforced per endpoint
Infrastructure	Built	Docker Compose multi-stack: PostgreSQL, Redis, RabbitMQ, Traefik, Celery workers, MinIO
POS Module	Demo-ready	Full checkout, barcode scan, shifts, loyalty, 12 web templates
HR / Payroll	Demo-ready	Time entries, approval workflow, payroll calculations
Dharma Life Modules	To Build	DLE registry, field data inputs, funder dashboards, interfaces

PLATFORM FOUNDATION (EXISTS)

FastAPI + PostgreSQL -- Production-grade Python backend with async support, database migrations, and seed data infrastructure

Keycloak SSO -- Enterprise authentication with role-based access. 5 roles defined and enforced: cashier, manager, admin, developer, auditor

Open REST APIs -- ~80 endpoints built. Every function API-accessible. Connect any frontend, mobile app, or third-party system

Docker Multi-Stack -- 14+ containerized services with health checks, orchestrated via Makefile. Traefik reverse proxy, Celery workers, object storage

DHARMA LIFE SCOPE (TO BUILD)

Data Inputs -- Custom forms for DLE onboarding, field data collection, sales tracking, inventory, and impact measurement. Built on existing model + API patterns

System Interfaces -- Connect DL's existing systems (CRM, accounting, funder portals) via new API endpoints. Open architecture, no vendor lock-in

Entrepreneur Registry -- New data models for 50,000 DLEs: profiles, locations, performance metrics, certifications. Extends existing customer/user models

Funder Reporting -- Dashboards for IKEA Foundation, FMO, DOEN. Built on existing PostgreSQL reporting patterns

Engagement Roadmap

Phase 1 -- Discover: Vyoma documents existing DL processes. Angelo maps data inputs, interfaces, and integration points. Output: requirements spec + architecture plan.

Phase 2 -- Pilot: Build DLE registry, core data input forms, and initial API endpoints on HelixNet. Deploy to a cloud server for stakeholder review. Target: one state as pilot.

Phase 3 -- Harden: UAT with Dharma Life team. Add funder reporting, system interfaces, role-based access for field coordinators and state managers. Production deployment.

Phase 4 -- Scale: Expand state by state. Mature infrastructure from Docker Compose to Kubernetes (K3s) as user count grows. Cost stays flat -- no per-seat licensing.