AVENIR AI SOLUTIONS

Al Growth Infrastructure - System Architecture Overview

Infrastructure de Croissance IA - Aperçu de l'Architecture Système

1

Lead Capture Layer

Couche de Capture de Leads

Website Form → /api/lead

Al Enrichment → GPT-4o-mini

Multi-Channel Sync

- Gmail auto-response
- Google Sheets logging

2

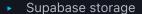
Al Memory System

Système de Mémoire IA

Email-Based Deduplication

Historical Tracking

- tone_history Evolution of tone
- confidence_history Confidence trajectory
- urgency_history Urgency patterns
- relationship_insight Al-generated insights



Intent/Tone/Urgency analysis

Next.js API

OpenAl

Gmail API

Supabase

- Bilingual insights (EN/FR)
- Automatic upsert (no duplicates)

PostgreSQL

JSONE

RLS

3

Growth Intelligence Engine

Moteur d'Intelligence de Croissance

Weekly Analysis → growth_brain

- Urgency distribution analysis
- Top intent detection
- Confidence trajectory tracking
- Tone sentiment scoring
- Engagement score calculation
- Predictive insights (EN/FR)
- Per-client + global analytics

Trigger: → Vercel Cron (Mon 00:00 UTC) +
Manual

4

Growth Copilot Dashboard

Tableau de Bord Copilote de Croissance

Real-Time Intelligence

- ► ✓ Trend Summary Urgency/tone patterns
- ST Recommended Actions Al suggestions
- Predictions Engagement forecasts
- ▶ ✓ Relationship Insights Lead evolution
- Activity Log Recent actions
- Lead Management Tag/Archive/Delete
- Bilingual UI (EN

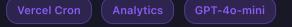
 FR)

Next.js

Framer Motio

next-int

Tailwind



5

Multi-Tenant API

API Multi-Tenant

Client Authentication

- API key management
- Per-client lead isolation
- API key rotation with audit logs
- Client dashboard access
- ► Row-level security (RLS)

JWT.

Supabase RLS

UUID Kevs

6

Automation Loop

Boucle d'Automatisation

Intelligence Feedback

- Weekly auto-analysis (Cron)
- Real-time lead updates
- Auto-refresh Growth Copilot
- Predictive insights generation
- Relationship tracking
- Action logging & audit trail

Vercel Cron

Real-time

Webhooks

Complete Data Flow / Flux de Données Complet



Database Schema / Schéma de Base de Données

lead_memory

- · id, name, email, message
- ai_summary, intent, tone, urgency
- · confidence_score, language
- tone_history (JSONB)
- confidence_history (JSONB)
- urgency_history (JSONB)
- relationship_insight (TEXT)
- last_updated, archived, deleted
- current_tag, client_id

growth_brain

- analysis_period_start/end
- total_leads, top_intents
- urgency_distribution
- urgency_trend_percentage
- tone_distribution
- tone_sentiment_score
- avg_confidence
- confidence_trajectory
- language_ratio
- engagement_score
- predictive_insights (JSONB)

Supporting Tables

lead_actions

- Audit trail (delete/archive/tag)
- timestamp, performed_by

clients

- Multi-tenant API keys
- Company isolation

api_key_logs

Key rotation audit trail

★ Key Features / Fonctionnalités Clés









Bilingual

Real-Time
Live updates

Al-PoweredGPT-4o-mini

AnalyticsPredictive

Avenir Al Solutions — Building intelligent infrastructures that think and grow.

Nous construisons des infrastructures intelligentes qui pensent et évoluent.

Tech Stack: Next.is 15 · TypeScript · Supabase · OpenAI GPT-4o-mini · Framer Motion · Tailwind CSS · Verce