



PANGEA Summit AI Solution: Metadata-Driven RAG with Automated Compliance

Our pioneering AI solution transforms content validation through advanced RAG architecture and automated compliance checking across text, image, and audio.



The Compliance Challenge



Time-Intensive Validation

Manual content validation consumes approximately 4 hours per document.



AI Content Gaps

Multimodal AI-generated content lacks built-in compliance mechanisms.



Compliance Necessity

Regulatory and brand requirements demand automated, metadata-driven solutions.



Our Mission



Advanced RAG Architecture

Build sophisticated retrieval-augmented generation for multimodal content.



Compliance Integration

Implement Compliance Controller (CC) with 16 domain checks.



Content Automation

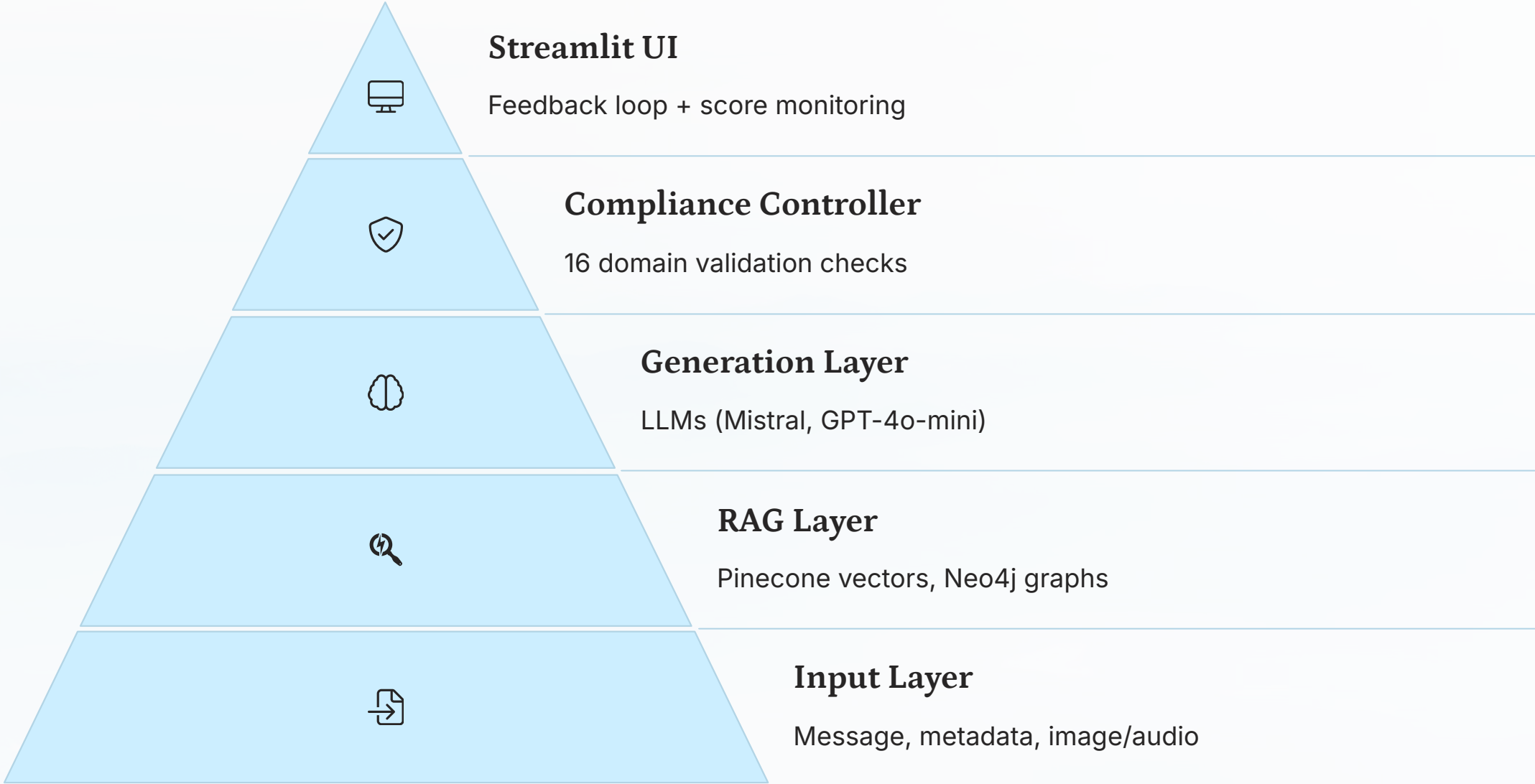
Automate GTM content across B2B sales, cloud, and manufacturing.



Data Enhancement

Leverage metadata, Pinecone vectors, and Neo4j graph relationships.

System Architecture



RAG & Compliance Flow

Message Processing

Extract metadata and prepare input

Feedback Loop

Score analysis and system adjustment



Intelligent Retrieval

Pinecone vectors + Neo4j graph connections

Content Generation

LLM with personalization features

Compliance Validation

CC checks across all domains

Key Features

Metadata Personalization

- Role-based tone adjustment
- Industry-specific terminology
- Context-aware formatting

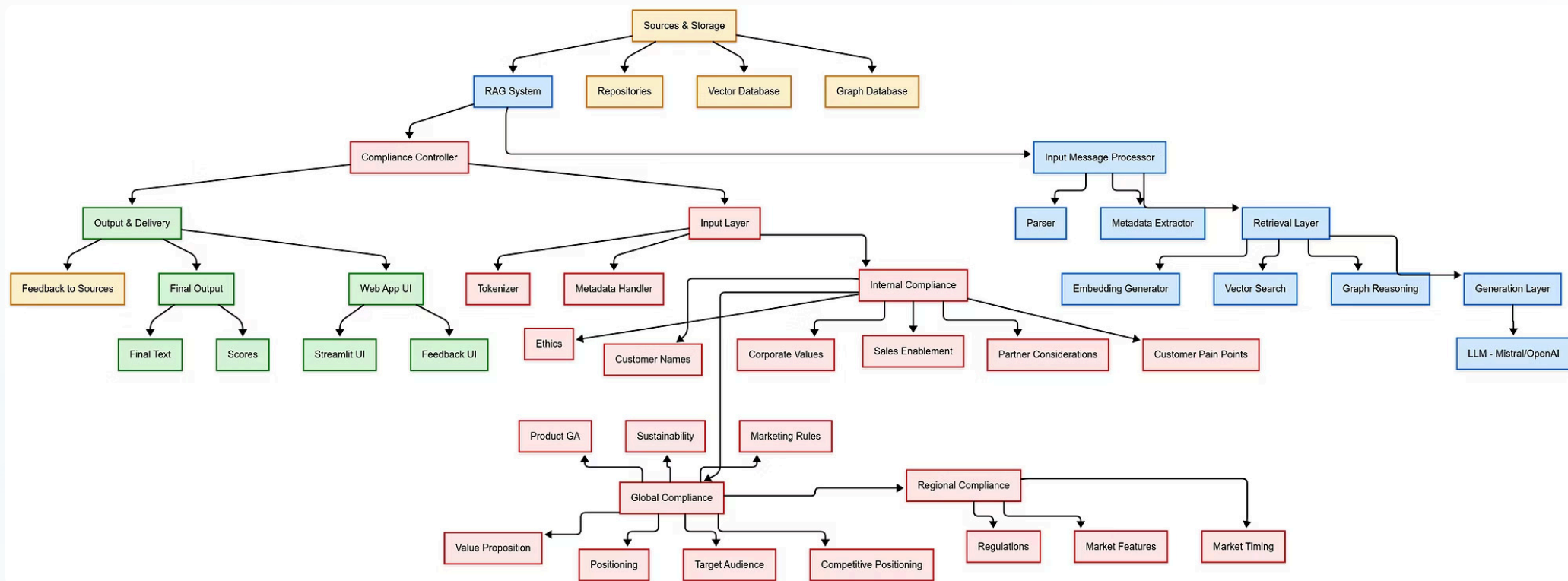
Multimodal Compliance

- Text content validation
- Image analysis (CLIP)
- Audio verification (CLAP)

Advanced Context

- Live source validation
- Graph-based relationships
- Automated scoring system







Future Enhancements

Real-Time User Metadata

Integrate location and language data for enhanced personalization.

Improve contextual relevance through user-specific attributes.

External API Connections

Link to regulations.gov and other compliance sources.

Enable real-time regulatory updates and validation.

Advanced Audio Compliance

Extend testing to comprehensive audio content analysis.

Implement tone and sentiment validation for spoken content.

Automated LLM Optimization

Create feedback loops to continuously adjust model weights.

Implement self-improving compliance mechanisms.

Transforming Business Communication



Powerful RAG Architecture

Advanced retrieval and generation capabilities



Integrated Compliance

Automated validation across all content types



Strategic Transformation

Revolutionary impact on B2B communication

This innovation drives efficient, accurate, and compliant content generation across industries and regions.

