



# GenAI HR and Accounting Assistant on AWS



# Executive Summary

**Cosmos Aluminium**, a leading Greek aluminium manufacturer, needed to transform how its HR and Accounting departments access knowledge across 1,000+ CVs and 170 accounting manuals.

**LCM Go Cloud** designed and delivered two specialised GenAI agents on AWS – a CV Intelligence Agent for the HR team and an Accounting Manual Agent – both accessible through a single, bilingual chat interface.

The solution replaced days of manual searching with seconds of AI-powered retrieval, achieving 95%+ accuracy and zero-training adoption across 25 users.



**1,000+** CVs Processed



**170** Accounting Manuals



**25** Users Day One



**95%+** Accuracy Rate

# About Cosmos Aluminium

A leading Greek aluminium extrusion company with complex HR and accounting operations.



**Industry**

Aluminium Manufacturing & Extrusion



**Headquarters**

Greece



**Target Users**

HR (15 users) + Accounting (10 users)



**Languages**

Greek & English documentation and interface



# The Business Challenges



## Scattered Information

1,000+ CVs across multiple formats and locations, 170 manuals with mixed Greek/English content



## Time-Intensive Search

14 days average to find candidates, 15 min to locate procedures



## Inconsistent Results

Different interpretations, missed candidates, incomplete retrieval



## Growing Volume

25 new CVs monthly, quarterly manual updates, rising complexity



# The Solution

Two specialised GenAI agents in a unified, bilingual experience



## CV Intelligence Agent

15 HR users

- Candidate search and matching
- Skills & experience extraction
- Job requirement gap analysis
- Multi-candidate comparison
- Duplicate detection
- Drag-and-drop CV upload



## Accounting Manual Agent

10 Accounting users

- Procedure extraction & guidance
- Screenshot & image interpretation
- Step-by-step instructions
- Cross-reference resolution
- 170 manuals processed
- Quarterly update support

# Platform Features

A production-grade enterprise application with role-based access



## Natural Language Chat

Ask questions conversationally in Greek or English. AI responds with sourced, accurate answers.



## Role-Based Access

Admin, Assistant, and User roles per department. IT Admin panel for user management.



## Document Management

Upload, search, view, and delete CVs and manuals. Antivirus scanning on every upload.



## AI-Powered Processing

Automatic metadata extraction, duplicate detection, and knowledge base indexing.



## Real-Time Monitoring

Token usage dashboards, user activity tracking, and system statistics for IT admins.

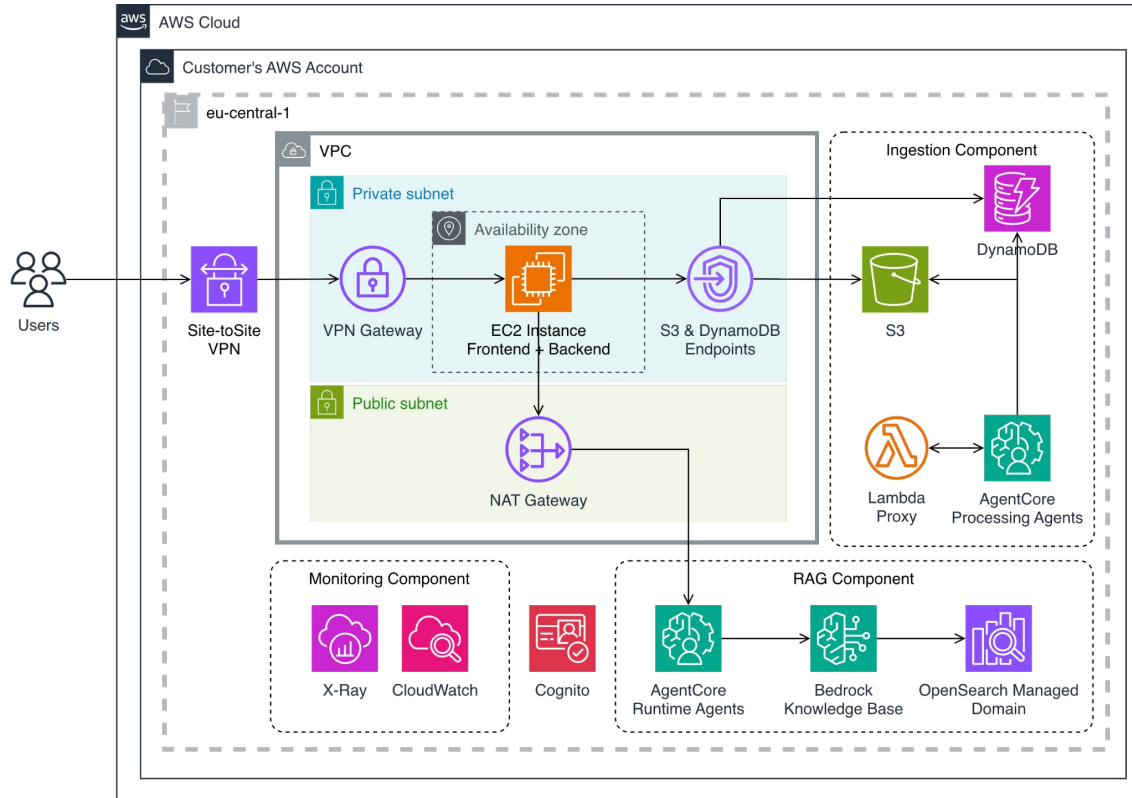


## Enterprise Security

MFA authentication, encrypted storage, WAF protection, VPC isolation, audit trails.

# AWS Architecture

Production deployment on 25 AWS services in eu-central-1 (Frankfurt)



# Built on 25 AWS Services

Production-grade architecture on AWS – secure, scalable, fully managed



## Amazon Bedrock

Claude Sonnet 4.5 & Haiku 4.5  
via AgentCore with Strands SDK  
– 5 AI agents



## Bedrock Knowledge Bases

3 KBs with Titan Embed v2 –  
hybrid semantic + keyword  
search via OpenSearch



## Bedrock Guardrails

Content filtering with Greek  
support – blocks prompt  
injection and harmful content



## AWS Lambda + SQS

14 functions, 6 queues – async  
document processing with  
dead-letter retry



## Amazon EC2

FastAPI + Nginx in private subnet  
– VPN-only access, no public  
exposure



## Amazon S3 + DynamoDB

5 S3 buckets, 8 DynamoDB tables  
– documents, metadata, chat  
history



## AWS Cognito + IAM

MFA enforced, 7 authorization  
groups, least-privilege roles



## VPC + Site-to-Site VPN

Private network, NAT Gateway,  
VPC endpoints – corporate VPN  
only



## CloudWatch + X-Ray

30 alarms, 38 log groups,  
distributed tracing on AI agents

# Security & Compliance

Data never leaves Cosmos Aluminium control



## VPN-Only Access

No public internet exposure – EC2 in private subnet, accessible only via corporate VPN



## Encryption Everywhere

AES-256 at rest via KMS, TLS in transit, VPC Gateway Endpoints for S3 and DynamoDB



## 7-Tier Access Control

Cognito with enforced MFA, 7 authorization groups, least-privilege IAM roles



## ClamAV Antivirus

Containerised Lambda scans every upload – SNS alerts on threat detection



## Bedrock Guardrails

Content filtering on AI agents – blocks prompt injection, harmful content, with Greek support



## Full Observability

30 CloudWatch alarms, X-Ray tracing on agents, 38 log groups, EU data residency

# Outcomes & Results

14 → 0

Days to find  
candidates

Instant AI search

95%+

Response  
accuracy

Source-cited answers

25

Users  
day one

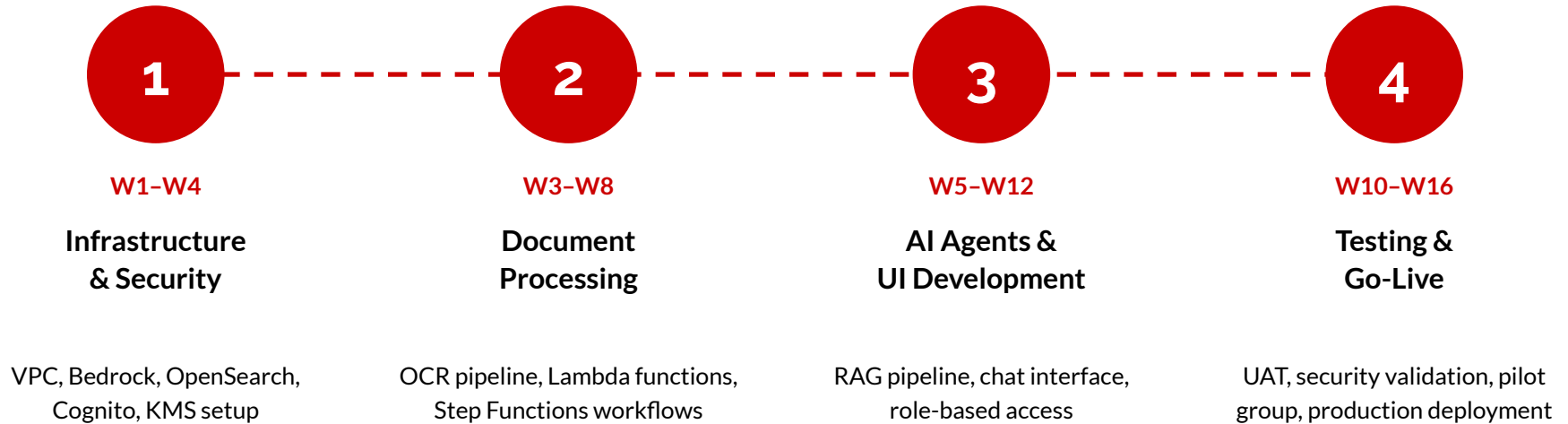
Zero training needed

- Single bilingual interface replaced fragmented, manual search processes across departments
- Chat-based interaction requires zero training — intuitive from day one for all user roles
- Role-based access ensures HR Admins, Assistants, and Users each see appropriate features
- IT Admin dashboard provides complete visibility into usage, tokens, and user management
- Serverless AWS architecture scales automatically with growing document volumes
- Enterprise security with MFA, encryption, antivirus, and full audit compliance



# Delivery Timeline

From kickoff to production in 16 weeks



# About LCM Go Cloud

## Advanced AWS Consulting Partner

Based in Athens, Greece with offices in Cyprus. LCM Go Cloud specialises in Cloud Resilience and GenAI solutions for enterprise clients, with deep expertise in AWS infrastructure, disaster recovery, and AI/ML workloads.

- ✓ 8+ active AWS certifications at Professional and Specialty levels
- ✓ GenAI solutions delivered across distribution, retail, manufacturing, legal, education, financial services
- ✓ ERP & E-Commerce Automation AI is part of the Applied GenAI portfolio
- ✓ Production-grade AI on AWS solving measurable business problems for mid-market enterprises

# Let's Talk!

Discover how GenAI can transform  
your enterprise knowledge management.

---

[www.lcmgocloud.com](http://www.lcmgocloud.com)

**Costas Kappos**  
Managing Partner  
LCM Go Cloud  
T: +306974899318  
[costas@lcmgocloud.com](mailto:costas@lcmgocloud.com)

**Leonidas Tosidis**  
Managing Partner  
LCM Go Cloud  
T: +306978890922  
[leonidas@lcmgocloud.com](mailto:leonidas@lcmgocloud.com)

**Yiannis Nikolarakis**  
Director Solutions Architect  
LCM Go Cloud  
T: +306932400019  
[yiannis@lcmgocloud.com](mailto:yiannis@lcmgocloud.com)