



Migrating & Modernising a Manufacturing IT Landscape on AWS



Executive Summary

Kri Kri S.A. — listed on the Athens Exchange and one of Greece's most prominent dairy manufacturers — operates an ultramodern production plant in Serres with a daily yogurt capacity of **200 tons**. The company exports to 30 countries, supplies 90% of Greece's private-label yogurt, and has announced a **€27 million investment programme** to expand capacity.

Starting in 2023, Kri Kri began a **phased migration to AWS**, initially moving non-critical workloads — the SCADA WinCC system for biogas monitoring and the Employee Self Service (ESS) portal — followed by the iAnywhere dairy sales application and S3-hosted Academy training videos. The next phase involved a comprehensive **VPC architecture redesign** with CheckPoint HA firewall, proper subnet segmentation, and the migration of production application servers to EC2.

LCM Go Cloud then delivered the **Amazon RDS modernisation** — migrating 10+ SQL Server databases from on-premises infrastructure to Amazon RDS for SQL Server, eliminating licensing overhead, automating backups, and enabling future Multi-AZ high availability. The full programme was delivered **within the planned 16-week timeline**, with SLA-backed operational support and continuous CloudWatch monitoring.

About Kri Kri

Greece's leading dairy manufacturer, listed on the Athens Exchange, with 70+ years of operations



Industry

Dairy Manufacturing
& Food Production



Market

Athens Exchange
(ATHEX: KRI KRI)



Production

200 tons/day yogurt
Ultramodern plant, Serres



Exports

30 countries
90% GR private-label yogurt



Investment

€27M three-year
capacity expansion



Regulation

GDPR, HACCP, ISO 22000
Athens Exchange governance

The Business Challenges

Modernising a manufacturing IT landscape while maintaining production continuity and cost discipline

Legacy On-Premises Infrastructure



Critical applications and 10+ SQL Server databases running on ageing local servers with limited redundancy, manual patching, and no automated disaster recovery capabilities.

Database Licensing & Management Burden



Microsoft SQL Server licences tied to on-premises hardware, with manual backup management, no automated failover, and growing administrative overhead for the IT team.

Security & Network Architecture Gaps



The existing AWS environment had evolved organically — multiple entry points, no centralised firewall, inconsistent subnet design, and no structured security assessment.

Scalability for Future Growth



With a €27M investment programme and a future SAP S/4HANA migration planned, the architecture needed to be extensible, resilient, and cost-optimised from the start.

The Solution

A three-phase approach: Application Migration + Database Modernisation + Architecture Redesign

Migration & Compute Layer

- EC2 instances for ERP, production planning, logistics, and sales applications
- SCADA WinCC for biogas production monitoring
- Employee Self Service (ESS) portal
- iAnyWhere dairy sales support application
- S3-hosted Academy training video platform

Database Modernisation (Amazon RDS)

- 10+ SQL Server databases migrated to Amazon RDS for SQL Server
- License Included model — no separate Microsoft licences required
- Automated backups with 7-day retention
- Initial Single-AZ deployment, architected for Multi-AZ expansion
- Auto-scaling storage up to 16 TB without downtime

Network & Security Architecture

- VPC redesign with public, private app, and private database subnets
- CheckPoint HA firewall cluster for north-south traffic inspection
- Site-to-Site VPN to Serres plant + Client VPN for remote users
- CloudFront CDN + AWS WAF for web application delivery
- CloudWatch monitoring dashboards with SLA-backed support

Key Capabilities Deployed



Amazon RDS for SQL Server

10+ databases migrated with License
Included model, automated backups, and
Multi-AZ readiness



CheckPoint HA Firewall

Dual-instance firewall cluster in dedicated
subnets for north-south traffic inspection
and policy enforcement



VPC Architecture Redesign

Nine subnets across public, app, DB, and
firewall tiers with 90% address space
reserved for growth



Hybrid Connectivity

Site-to-Site VPN to Serres plant plus three
Client VPN endpoints for full-tunnel
remote access



CloudWatch Monitoring

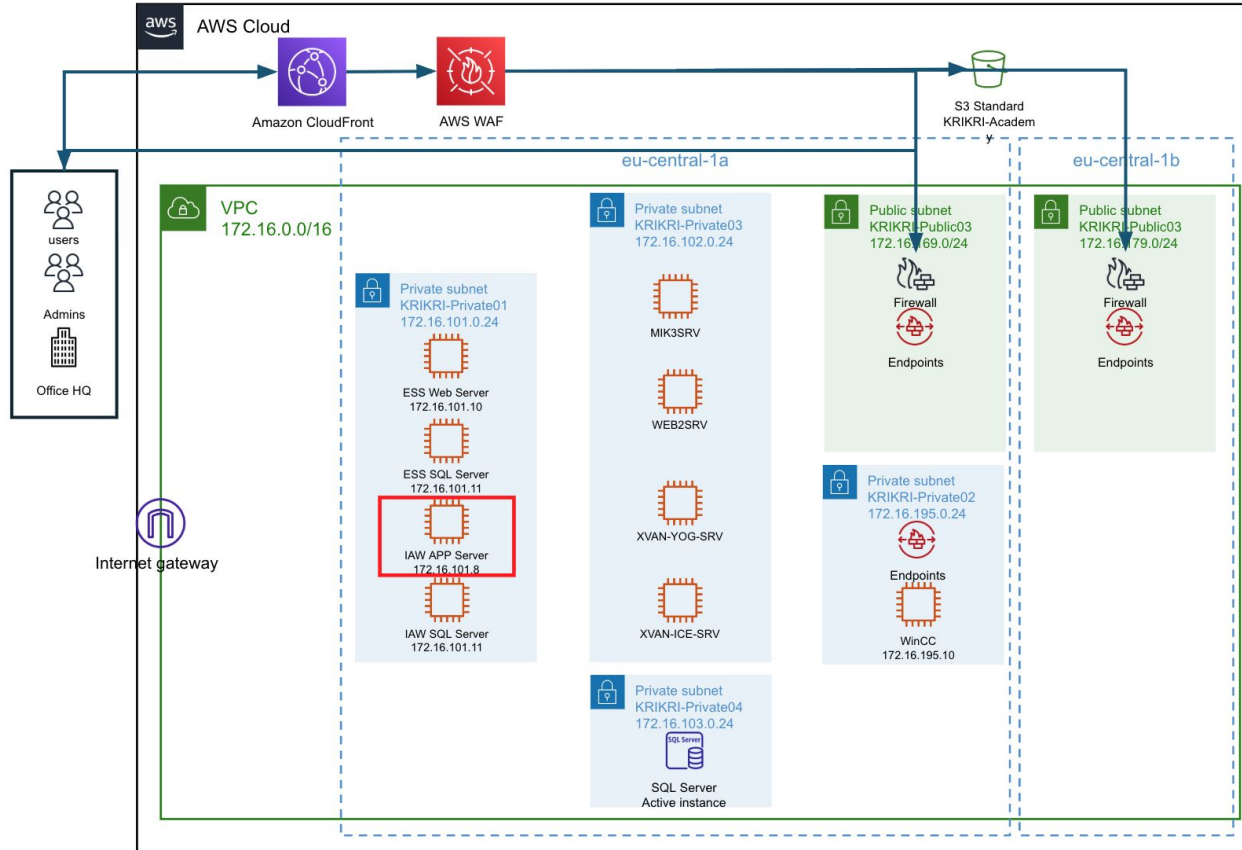
Dashboards for EC2, RDS, network, and
cost metrics with SLA-backed response
times



Infrastructure as Code

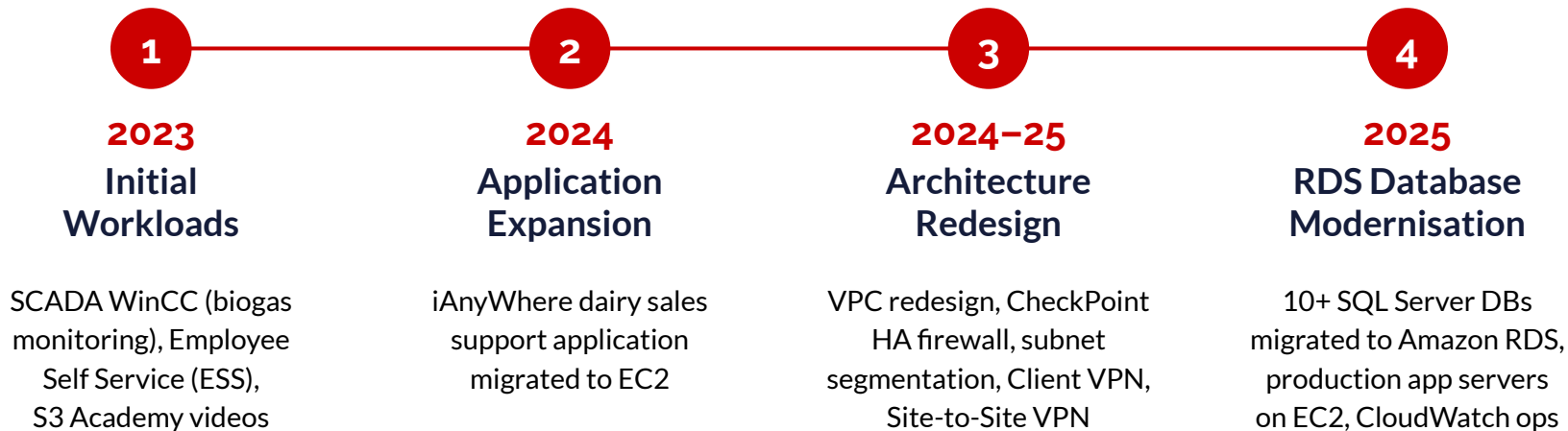
Full environment documented via
CloudFormation for auditability,
repeatability, and disaster recovery

Solution Architecture



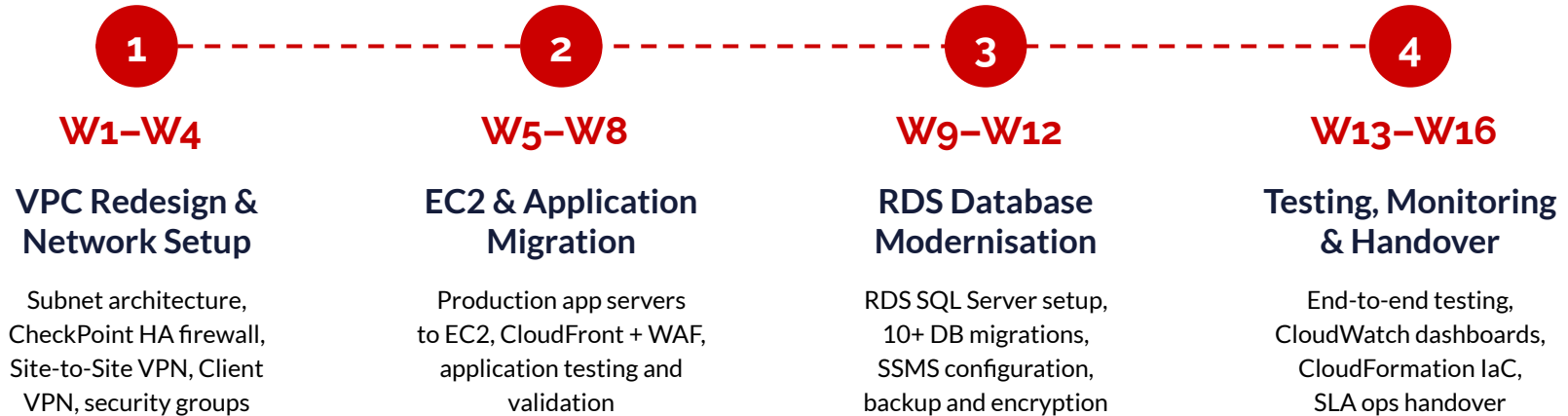
Migration Journey

A phased approach — from non-critical workloads to full database modernisation



Delivery Timeline

From VPC redesign to production handover in approximately 16 weeks



Outcomes & Results

10+

SQL Server DBs
Modernised

Migrated to Amazon RDS

5+

Applications
Migrated to EC2

Production & support workloads

0

SQL Server
Licences Needed

License Included with RDS

- ✓ Full VPC architecture redesign with CheckPoint HA firewall, 9 subnets, and 90% address space reserved for growth
- ✓ 10+ SQL Server databases modernised to Amazon RDS – automated backups, patching, and Multi-AZ readiness
- ✓ Microsoft SQL Server licensing eliminated through RDS License Included model – direct cost reduction
- ✓ Hybrid connectivity established: Site-to-Site VPN to Serres plant + 3 Client VPN endpoints for remote users
- ✓ CloudWatch monitoring with dashboards for EC2, RDS, network, and cost metrics – SLA-backed support

Security & Compliance

Multi-layered security protecting manufacturing workloads during and after migration



CheckPoint HA Firewall

Dual-instance firewall cluster in dedicated subnets controlling all north-south traffic with policy enforcement and intrusion prevention



VPC Subnet Isolation

Public, private app, private DB, and firewall subnets with security groups and ACLs controlling all traffic flows



Encryption & Backup

RDS automated encrypted backups with 7-day retention, EBS snapshots for EC2 instances, S3 server-side encryption



CloudWatch Monitoring & Alarms

Dashboards for EC2, RDS, network metrics, and cost tracking with alerting for anomalous behaviour and SLA-backed response



AWS WAF & Shield

CloudFront CDN with Web Application Firewall against exploits and bots, plus AWS Shield for continuous DDoS protection



Compliance & Governance

GDPR data residency (Frankfurt), HACCP/ISO 22000 traceability support, CloudFormation IaC for auditability and reproducibility

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
- ✓ Proven track record in cloud migration, database modernisation, and infrastructure redesign for manufacturing enterprises
- ✓ Full lifecycle AWS delivery: architecture design, migration execution, security hardening, and managed operations
- ✓ Production-grade AI solutions on AWS solving measurable business problems for mid-market enterprises
- ✓ Full-stack ownership: infrastructure, application migration, database modernisation, operational support — one partner, one SLA

Let's Talk!

Discover how LCM Go Cloud can migrate
and modernise your IT landscape on AWS.

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