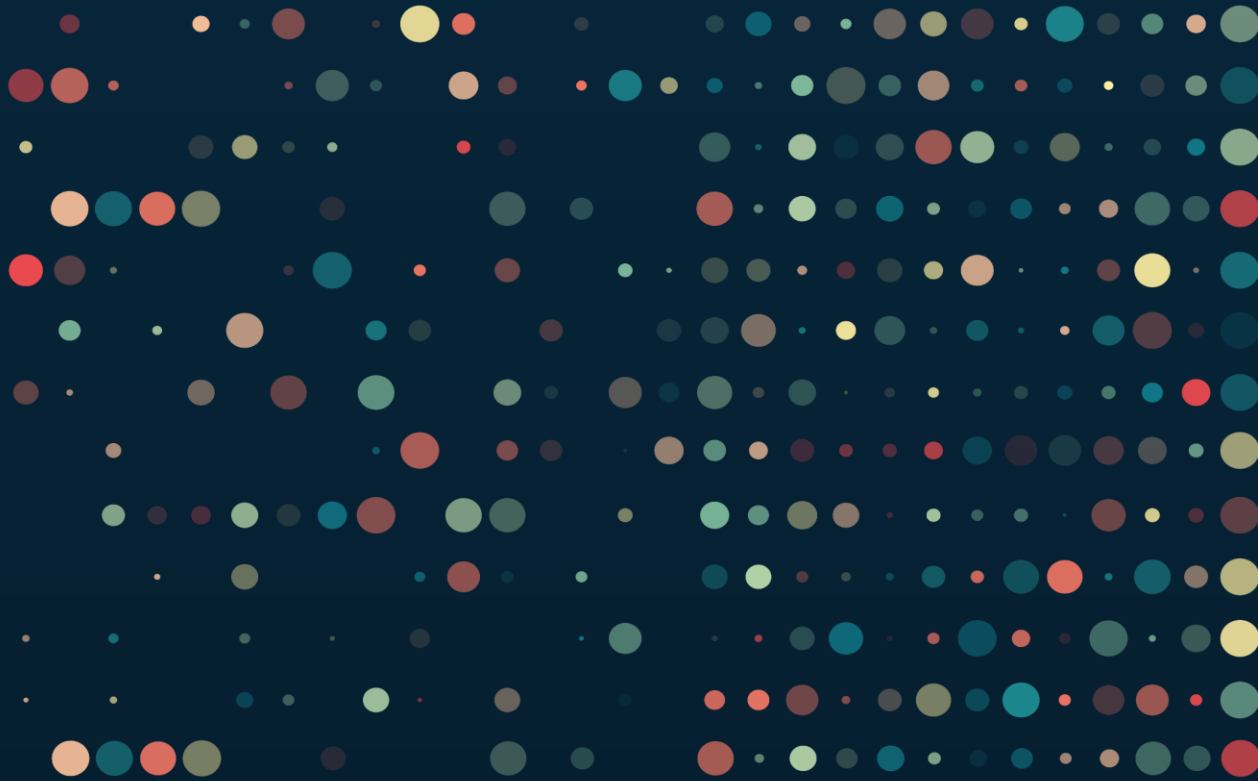




The Foundation of Data
Management:

The eu-LISA Platform
Journey

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Sector

The Starting Point: Siloed Complexity

Fragmented Infrastructure

Historically, setup was siloed per application. Every system had its own unique infrastructure configuration, hardware and operational processes

Cumbersome Management

This lack of synergy meant managing the estate was highly complex, requiring specialized knowledge for individual silo

Bottlenecks to Scale & Innovation

Extending capacity or adding new features required lengthy painful cycles

The IO challenge

Interconnecting isolated systems was difficult and time-consuming



The Solution: A Shared Platform Architecture

The “Smart Hosting Umbrella”

We created a Shared Platform to host applications, unifying infrastructure under one strategic approach. This moved us away from bespoke setups toward a standardized scalable model.

Seeking Synergies

We established common security controls, unified backup and restore processes and shared observability, storage and networking layers. Compliance became a platform feature, not a per-app hurdle

Delivering Faster

By streamlining infrastructure provisioning and introducing automation, we made the backend more efficient. Most importantly, this allowed application teams to deliver business value significantly faster

Multitenancy by Design

The platform is multitenant by design, enforcing strict separation of data and workloads between applications. This guarantees legal compliance for each system



Accelerating Delivery with Cloud & Containers

Cloud for Dev & Test

Leveraging cloud environments meant application design could kick off immediately. Teams no longer had to wait for lengthy on-premise capacity extensions to start building

Container Technology

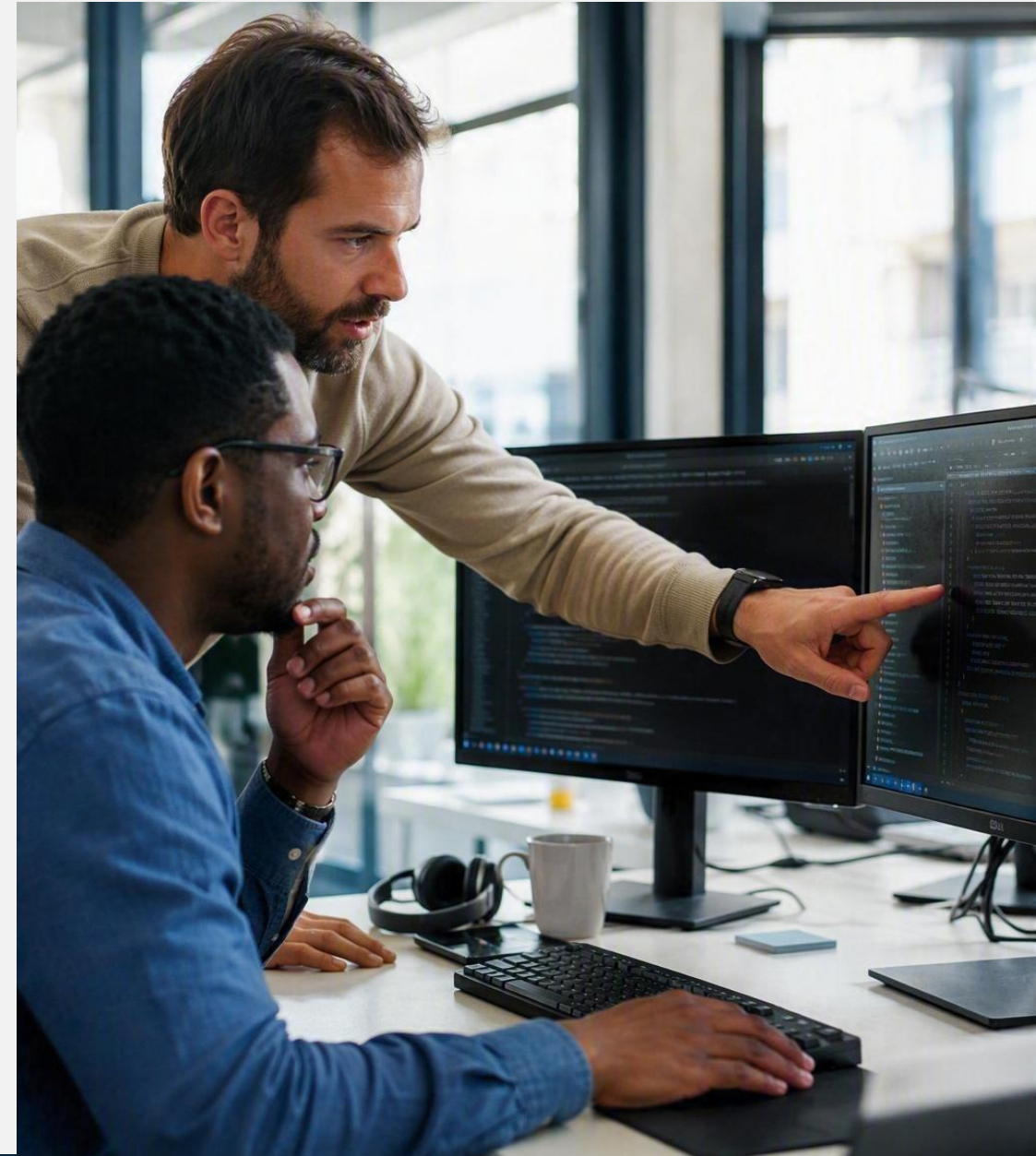
Introducing containers allowed us to move faster, package applications consistently and deploy with confidence across environments

Agile Interconnections

Network interconnections between systems could be enabled much faster to support interoperability, while staying strictly under our control and security governance

Hybrid Multi-Cloud

Production data always resides on our sovereign on-prem platform, in compliance with legal regulations. A hybrid approach leverages that data while avoiding lock-in to one cloud provider



Transforming Our Operating Model

Direct Vendor Engagement

We shifted away from relying solely on a single integrator. Instead, we engage directly with active vendors, leveraging expertise where it lives while ensuring our internal staff members learn, augment their knowledge, and build deep capabilities

Internal Ownership & DevSecOps

We took ownership of the entire stack – designing, building from scratch, and operating it internally. Adopting agile DevSecOps approach eliminated costly, time-consuming handovers, allowing us to act as a true Platform-as-a-Service provider within eu-LISA



Measurable Impact: The Platform in Action

Accelerated Delivery

By eliminating traditional hardware procurement cycles, automated infrastructure provisioning deployment dropped drastically from months to mere hours or days

Inherited Security & Compliance

Common Platform controls means that strict security and compliance baselines are inherited automatically by all hosted applications

Common Non-Functional Requirements

Crucial capabilities like observability, backup & restore are now standardized across the platform, eliminating duplicated effort and ensuring a consistent baseline of reliability

Improved Collaboration

We enhanced collaboration with application teams by taking ownership of design for a smoother transition to operations. Joint PI planning now aligns everyone on activities for the upcoming quarters



The Roadmap: Next Steps in Platform Evolution



CRRS Onboarding & Go-Live

Onboarding and go-live of CRRS (Central Repository for Reporting and Statistics) and other systems entrusted to the agency



Sovereign Cloud & FinOps

Greater control over cloud operations, cloud technology and data residency. FinOps discipline to optimise and transparently manage infrastructure spend.



Hosting EU Institutions

Opening our platform to host applications from other EU institutions, leveraging infrastructure synergies at a broader scale



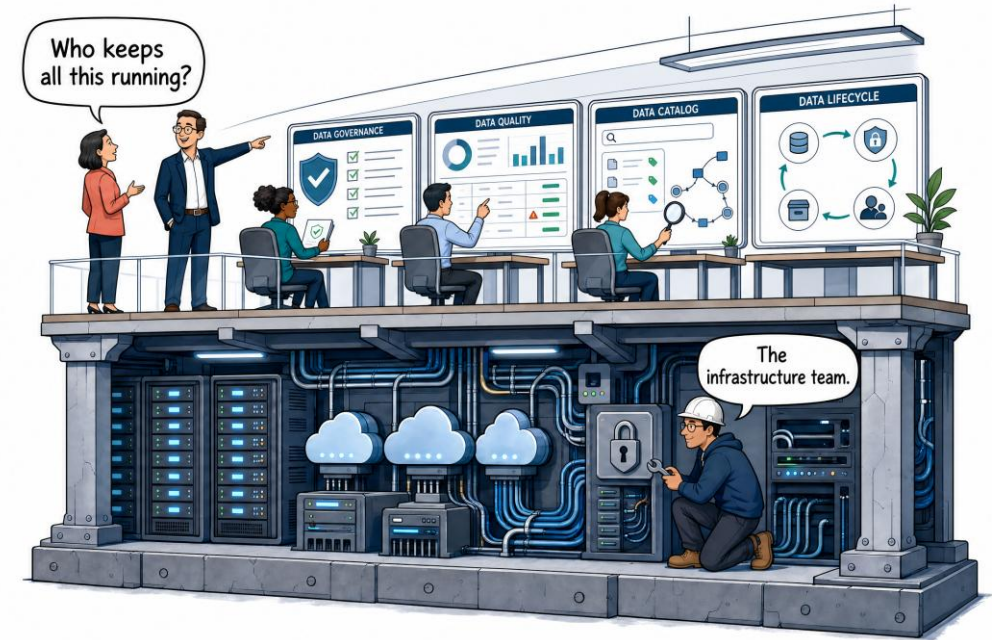
AI & LLM Integration

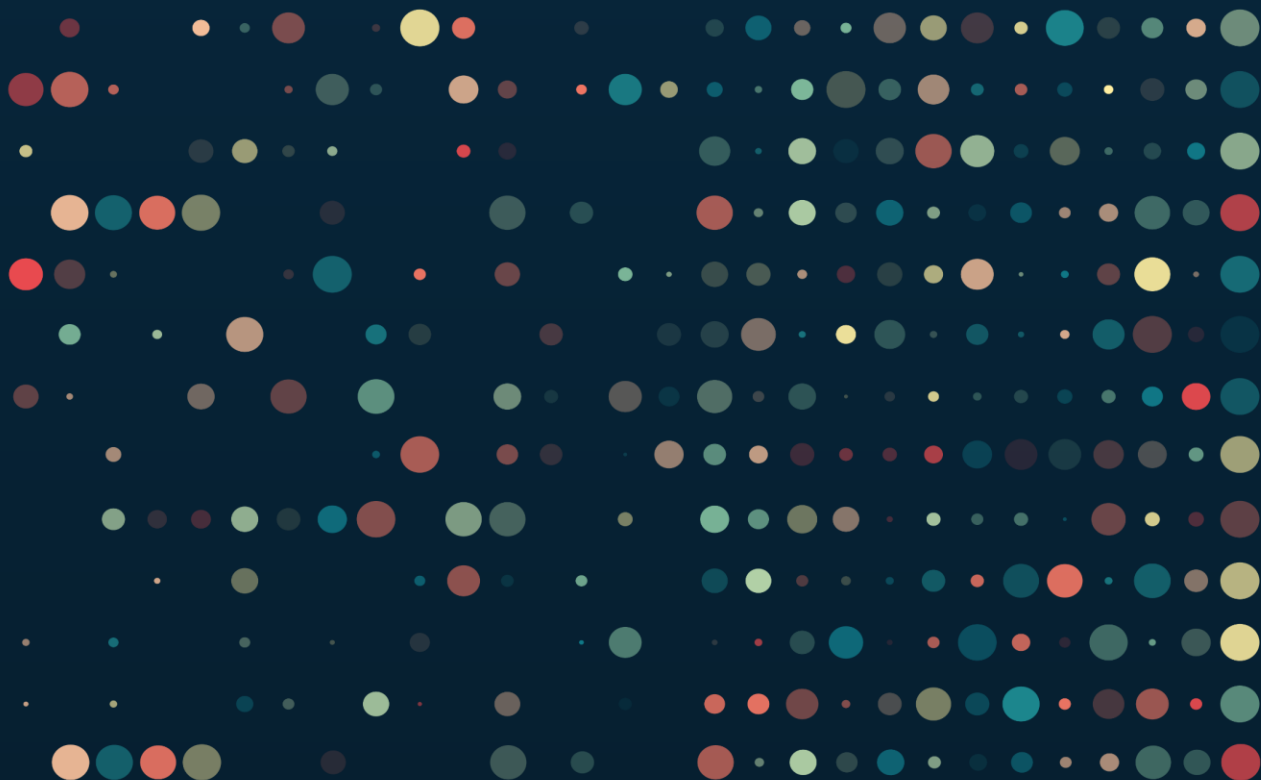
Laying the secure compliant foundation to host and leverage Large Language Models and advanced AI functionalities directly within our platform



A resilient platform turns data management from a promise into a capability

By transforming our infrastructure into a unified, secure, compliant, automated, and sovereign platform, we have built the resilient foundation required for the future of Justice and Home Affairs data





Thank you !



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DATA GOVERNANCE MODEL

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