

Medical Information and Analytical System

Client Federal healthcare and biomedical agency
Role Project Manager
Period 2012-03 — 2015-09

CONTEXT

The agency had no consolidated analytical view of athletes' medical data, so performance forecasting and training adjustments leaned on fragmented information and individual interpretation — limiting any scientifically grounded approach to athlete preparation and health-risk identification.

APPROACH

Framed the system as decision support, not opaque prediction: consolidated heterogeneous medical sources with traceability back to each assessment, treating consistent data capture and curation as an operating discipline ahead of analytics — balancing data breadth against consistent interpretation.

OUTCOME

Delivered a centralized medical analytics platform that gave Federal healthcare and biomedical agency a single, traceable basis for forecasting athlete performance and structuring training-plan decisions from health assessments.

- Centralized platform deployed and running in production, consolidating heterogeneous medical sources into a single store.
- Performance-forecasting and training-planning support for medical staff and Olympic-team coaches.
- A consistent, repeatable, traceable basis for health-assessment decisions where interpretation had been fragmented.

KEY RESULT

Delivered a production medical analytics system that consolidated heterogeneous athlete health data into a single, traceable basis for performance forecasting and training-plan decisions.