Finding the Cure for Pathology Data Management Challenges

with OQLIS at the Namibia Institute of Pathology

OQLIS
The Data Insights People

oqlis.com

Namibia Institute of Pathology Limited

Finding the Cure for Pathology Data Management Challenges

with OQLIS at the Namibia Institute of Pathology

The Namibia Institute of Pathology (NIP) is a state-owned enterprise, responsible for providing pathology services across Namibia. With 38 laboratories serving over 300 health facilities nationwide, NIP processes vast amounts of sensitive medical data daily. Their operations generate big pathology data annually, supporting over 4 million yearly tests and monitoring over a million requisitions. For this esteemed organisation, ensuring accurate, secure, and timely data management is paramount.

The Business Challenges

Despite their critical role, NIP faced significant challenges in managing their data:

Data Autonomy: The sensitive nature of pathology and medical data requires strict adherence to data sovereignty rules. Their existing solution relied on a U.S.-based data center, causing concerns about data security and compliance with local regulations.

Performance Issues: Reporting on their data was cumbersome and slow. The previous well-known international platform struggled to handle its vast data volumes, resulting in delays and inefficiencies. Quarterly reporting required intense manual effort, with data time-consumingly extracted into Excel for analysis.

High Costs: The licensing fees for the previous platform exceeded 2 million NAD annually, a significant investment for a solution that couldn't meet their performance or compliance needs.

> Working with OQLIS has been phenomenal. Their ability to answer our questions, solve our problems, and deliver a powerful, customisable platform has transformed how we operate. Business decisions are now informed by real-time data, and we're excited about the future, especially with OQLIS's AI and IoT capabilities.

Melvin April, Head of Business Application Support, NIP

OQLIS

The Data Insights People

Namibia Institute of Pathology Limited

The Solution

NIP partnered with OQLIS to transform its data analytics and reporting capabilities. After a seamless demonstration and a three-week proof-of-concept, OQLIS deployed an on-premise solution tailored to NIP's unique needs. The implementation included:
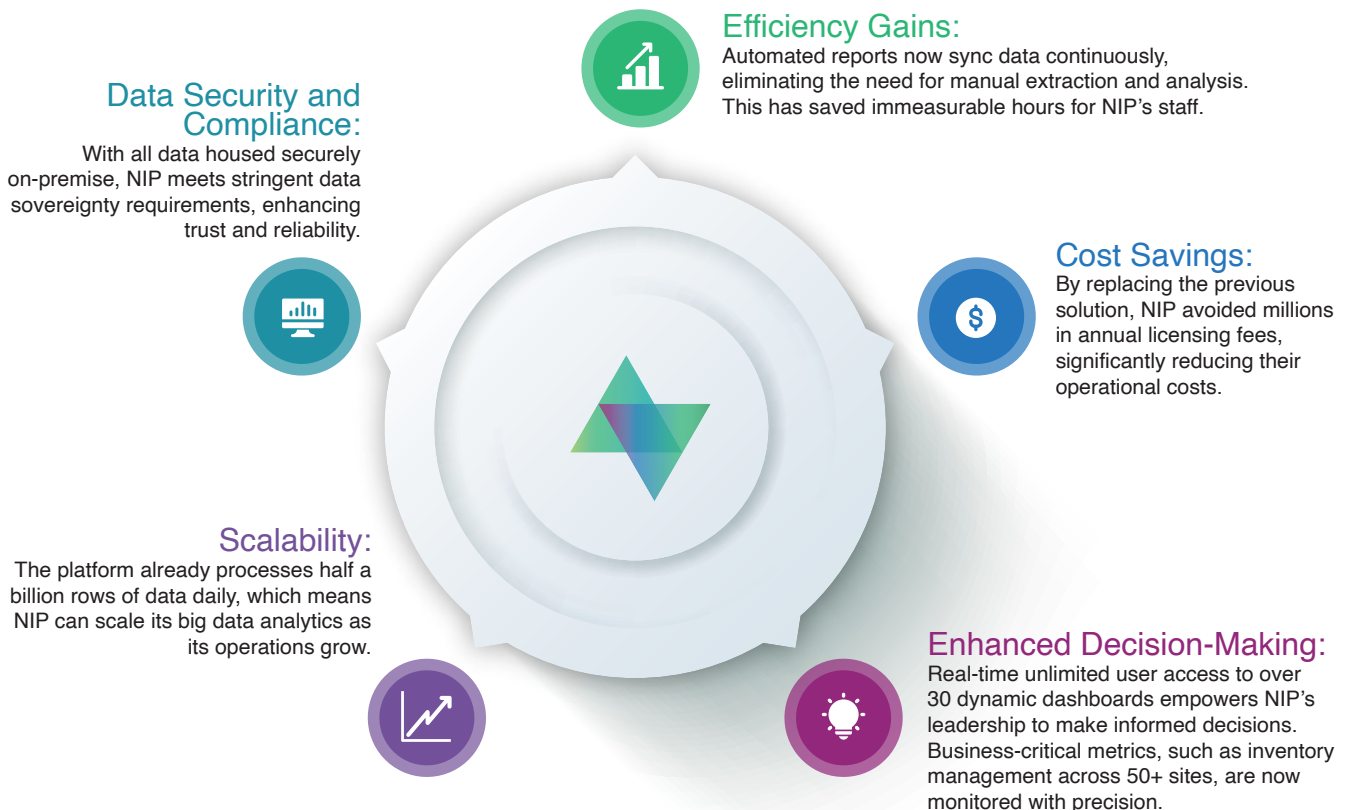
Data Autonomy Assurance: OQLIS installed their platform within NIP's network on-premise, ensuring no data left the country or even their internal environment. The servers were non-public-facing, guaranteeing complete control over sensitive data.

High-Performance Data Warehouse: OQLIS implemented a high-speed analytical data warehouse, enabling rapid reporting and analysis of their operational data.

Custom ETL with Unify: Using OQLIS's Unify feature, custom ETL (Extract, Transform, Load) processes were established, extracting and synchronising data seamlessly from production systems to the analytical environment.

OQLIS
The Data Insights People

The Impact

The OQLIS solution transformed NIP's operations, delivering measurable benefits:

Efficiency Gains:
Automated reports now sync data continuously, eliminating the need for manual extraction and analysis. This has saved immeasurable hours for NIP's staff.

Data Security and Compliance:
With all data housed securely on-premise, NIP meets stringent data sovereignty requirements, enhancing trust and reliability.

Cost Savings:
By replacing the previous solution, NIP avoided millions in annual licensing fees, significantly reducing their operational costs.

Scalability:
The platform already processes half a billion rows of data daily, which means NIP can scale its big data analytics as its operations grow.

Enhanced Decision-Making:
Real-time unlimited user access to over 30 dynamic dashboards empowers NIP's leadership to make informed decisions. Business-critical metrics, such as inventory management across 50+ sites, are now monitored with precision.

Key Success Metrics

50+ healthcare sites integrated

30+ dynamic dashboards actively used

Over **4 million** tests analyzed annually

Half a **billion** rows of data are processed daily

Significant cost savings of over **2 million** NAD per year

The partnership between NIP and OQLIS exemplifies the power of innovative data analytics in healthcare. By leveraging OQLIS's expertise and technology, NIP has overcome longstanding challenges, reduced costs, and improved operational efficiency. With plans to integrate AI and IoT in the near future, NIP is poised to remain at the forefront of healthcare innovation in Namibia.

Watch podcast episode

Watch award acceptance

Contact us

hello@oqlis.com

+27 79 499 9833 | oqlis.com

OQLIS
The Data Insights People

An OQLIS Case Study: NIP