

# BIRD Analytics

A Seamless Full Stack Business Intelligence Platform

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HEALTH CARE DOMAIN





# About BIRD

- An agile and seamless full-stack data management platform that provides real-time access to any of your data
- Allows users to analyze the data using powerful KPI-driven dashboards or through augmented machine learning insights
- With BIRD, enterprises can build instant data pipelines with transformations and design data warehouses with logical data models
- With BIRD, you have access to the broadest range of structured, semi-structured, and unstructured data sources, like databases, ERPs, flat files, big data sources, and streaming and IoT devices
- BIRD helps reduce the BI team's efforts with its no-code or low-code transformation and universal data model framework
- BIRD Augmented Analytics integrates advanced data science capabilities into the platform, allowing for faster discovery and delivery of new insights to assist every business user in making better, more accurate decisions
- BIRD's intuitive, responsive, web-based client in mobile browsers lets you easily create and explore analytics on the device of your choice.

## The Company

The health ministry of an emerging country is responsible for formulating and implementing national policy on health, nutrition, indigenous medicine, and other subjects that come under its purview. A total of 1103 hospitals, accounting for 77,300+ hospital beds, are managed by the ministry.

## Problem

To deliver better treatment with a great deal more efficiency, the ministry sought to have a unified perspective of the nation's health data. They wanted reporting and analytics on data from medical devices that contained diagnosis and smart card data for the entire population, lab information systems, hospital ERP systems, and medical devices. It was a sizable project that generated a sizable amount of data from several batch and real-time systems.

## Solution

- Leveraging BIRD's strong ingestion capabilities, the data from disparate sources (ERP systems, databases with Smartcard, and medical diagnostic data) was brought to one central location.
- A universal data model that gives a holistic view of the data was built using our flexible modelling engine.
- Module-based analytics for macro- and micro-level insights that can reveal pathways to improvement in patient care quality, clinical data, diagnosis, and administration
- Advanced geo-maps with drilldowns to enable users to start with a province and work their way down to street-level data

## Result

- A single source of truth analysis for data coming from multiple sources
- Self-service analytics for all departments Ministry, Hospital Admin, Staff and other roles using BIRD Analytics as the common platform

# HEALTH CARE

## The Company

The customer specializes in the holistic transformation of healthcare delivery at a national level. They are solution providers and technology integrators that offer a full stack of healthcare products and services

## Problem

The customer was working on offering nation-wide digital health care transformation solutions. They had approached 13 African countries for the implementation of a digital transformation solution. They sought an analytics partner to help with the implementation of this solution who could offer a 360-degree perspective of healthcare analytics covering several layers, including the hospital layer, the citizen layer, the emergency layer, the governance layer, etc.

## Solution

- Leveraging BIRD's strong ingestion and modelling capabilities, the data from multiple sources was ingested and joined to build a common data model to give a holistic view of the entire country's health care data.
- A country-wise health care analytics module was created. Each module portrayed descriptive analytics and predictive analytics as parts of the solution.
- The descriptive analytics offered insights at the macro and micro levels that captured the key performance areas and identified the gaps for improvement in physician-to-patient ratios for higher quality healthcare, clinical data, diagnosis, administration, improved customer satisfaction, reduced wait times, etc.
- Capacity Planning prediction- Prediction of hospital bed occupancy over a period to optimize patient placement

## Result

Healthcare business intelligence solution, to extract actionable insights from the massive amounts of data that follow everyone from clinic to specialist to hospital and back again. Streamlined insights for quality healthcare, improved customer satisfaction, reduced wait times, the number of patient beds, and overall costs

**Thank You.**

