

Title	The Groote Schuur Hospital Data Centre
Organisation	Groote Schuur Hospital, Western Cape Province
Innovation	The Department of Health is under increasing budgetary pressures, whilst dealing with an increasing demand for clinical care. Under these conditions, hospitals need to develop rigorous systems of financial accounting, which can demonstrate cost-effective service delivery of a high quality to citizens. To do so required a thorough analysis of all data collection and reporting activities at the hospital, which were reviewed as such - clerical staff enter paper-based records into desktop computers, where checklists and other relevant data are maintained. This information is collected from various sources, inclusive of: • Finance, Supply Chani and Stores, • Human Resources, • Pharmacy, • Laboratory, • Blood Bank, • Nursing Pavilions, • Clinical Departments, • Support Services, • Patient Administration; and • Third Party Software Service Providers. Data is then categorised and collated in Excel or Access formats in a central repository; the Groote Schuur Hospital Data Warehouse, the hospital's on-site storage drive with cloud backup and VPN access. The collated data is then mapped and cross-referenced using the provincial Patient Master Index, the hospital Cost Centre Masterfile and standardised location names to generate reports. The data is then processed and visualised through customisable Power BI dashboards, which are customisable to each manager. The resulting reports are then stored in a general access report repository (G Drive), where they can be accessed as needed by hospital managers.
Impac	The implementation of an integrated Heath Information System at the GSH Information Management Unit has proven instrumental in managing scarce resources, monitoring and improving the quality and efficiency of care, and meeting regulatory audit requirements. The hospital has been managed within budget since implementation of the data centre. The HIS receives data from all patients and staff and is utilised by all hospital managers and Senior Clinicians to understand and improve their services. Process improvement data tracking has resulted in an improvement in theatre start times over the last quarter, and now more than 50% of the Hospital's Operating Rooms are commencing on time, unlike in previous years before the implementation. There has been a sustained improvement in the hospital's revenue generation, with the facility having recovered above its revenue targets. Thanks to the instituted standardisation of ward names and cost centres, the hospital has been able to create filtered reports based on Functional Business and the locations associated with each Unit. This has enabled reporting of adverse events back to the relevant manager for review and further prevention. The Hospital's Data Dashboard also visualises the latest Ideal Hospital Norms and Standards Audits by location and theme, so that managers can quickly identify gaps in compliance.

