



## National Health Data Warehouse (MyHDW)

MyHDW is a trusted source of truth of comprehensive healthcare data structured and unstructured for query and analysis from various health data in government hospitals, private hospitals, university hospitals, and military hospitals as well as public and private clinics. Big Data Analytics, Artificial Intelligence and Geographical Information System are utilised to manage huge volumes of structured and unstructured data. More than 90 percent of the MyHDW technology is homegrown, and developed by MIMOS.

### Overview

A national healthcare information gathering and reporting system (MyHDW – Malaysian Health Data Warehouse) was developed by MIMOS, covering all government and private healthcare facilities and services. MyHDW includes a patient treatment information system (SMRP) and patient registry information system (PRIS).

### Features

MyHDW is a solution developed from various applications equipped with a web portal that enables access to the data and information at any given time and permission. MyHDW provides the following advantages.

- **Fixed Format Report / Ad-Hoc Query Analysis**  
Predefined format for uniformity and ease of comparison for data and information. Explores data on-the-fly to answer business questions.
- **Dashboard**  
Visualisation of data and information, interactive with drilldown capability.
- **Statistics and Predictive Analysis**  
Analyses current and historical data to make inference and prediction about the future.
- **Geographic Information System**  
Enables users to capture, store, analyse and manage spatially referenced data.
- **MyHarmony**  
Manages unstructured textual data with codification to generate analytics reports.

### Technology Benefits

The main impacts of MyHDW solution are:

- **Security**  
Multi-factor User Authentication following the guidelines provided by MAMPU in 'Rangka Kerja Keselamatan Siber Sektor Awam' (RAKKSSA).
- **Privacy and Confidentiality**  
MyHDW subscribes to the Personal Data Protection Act (PDPA) 2010 and all the data in MyHDW is being pseudonymisation process using Privacy Anonymisation System (PAS) to conceal patient information.
- **Data and Information Governance Committee**  
Data and Information Governance Committee was established to manage the security and privacy process in MyHDW to address User Access Control, Data Ownership, Privacy, Use of Data, and Data Quality.
- **Sustainable, cost-effective and patented local technology**
  - I. 15 MIMOS platforms has been utilised in this solution.
  - II. 19 patents filed at the Malaysian patent office (MyIPO), with two patents co-invented with the Ministry of Health.

### Technology Summary

#### MyHDW

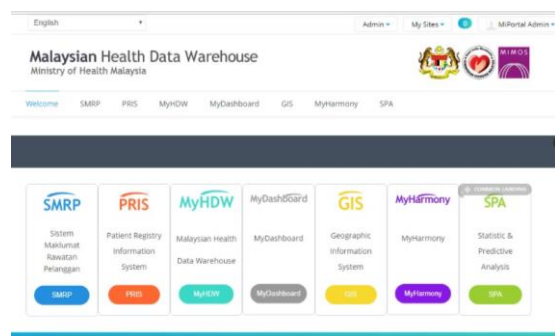
Trusted source of truth of comprehensive healthcare data structured for query and analysis purposes.

#### Features

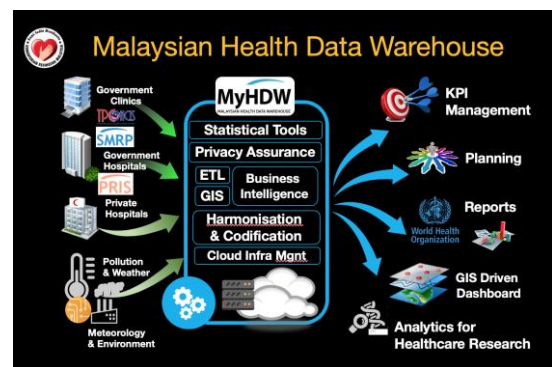
- Fixed format report / ad-hoc query analysis
- Dashboarding
- Statistics and predictive analysis
- Geographic information system
- MyHarmony

#### Technology Benefits

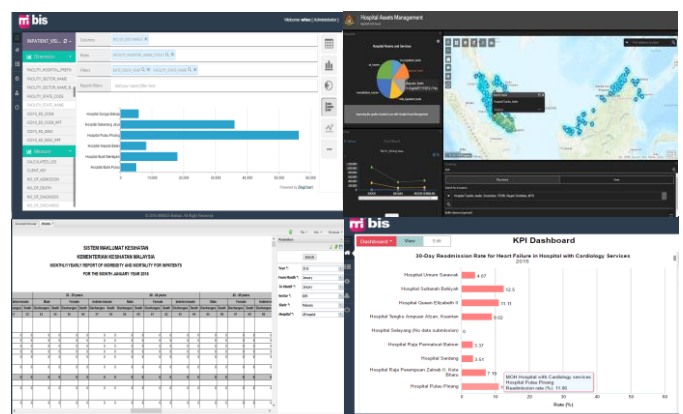
- Security
- Privacy and confidentiality
- Data and information governance committee
- Sustainable, cost-effective and patented local technology



MyHDW portal homepage



MyHDW system architecture



MyHDW interface

