



## HEALTH INFORMATICS CENTRE, MINISTRY OF HEALTH SISTEM MAKLUMAT RAWATAN PESAKIT (SMRP)

### Overview

- Vertical / Sector:  
Health
- User Profile:  
Ministry of Health Malaysia (MOH)

### Problem Statement

- Requirement for granular data with many medical variables
- Needs to ensure the integrity of granular data
- Responsive systems to facilitate data entry works and reduce errors
- Critical to safeguard the security of data
- To encourage health informatics data sharing within healthcare services in Malaysia from both public and private sectors

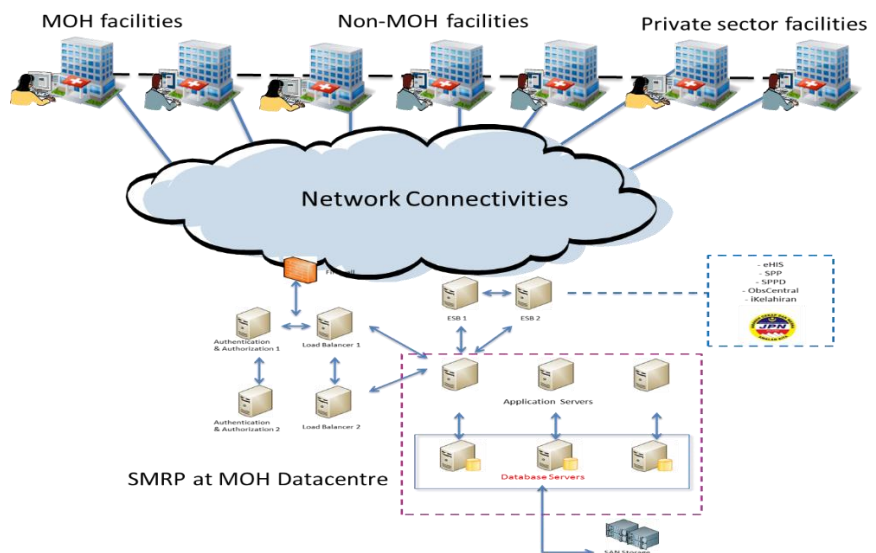
### Description

Health Informatics Centre, HIC (or Pusat Informatik Kesihatan, PIK) roles in Malaysia Ministry of Health is to collect, manage and turn relevant health data into valuable information for the nation. These information, that are published and disseminate by HIC annually, provides insight into statuses of health services to MOH management for making strategic decisions. These data and statistics are also used as indicators for national health status for global consumption such as by WHO. Sistem Maklumat Rawatan Perubatan (SMRP) data collection system focuses on data of:

1. Daycare visit
2. In-Patient (Hospitals)
3. Labour Room
4. Out-patient (Hospitals & Clinics)
5. Procedures
6. Clinical Supports – pathology, radiology, forensic, physiotherapy, audiology, dietetics, medical social works and nuclear
7. Traditional and Complementary Medicine

With almost 150 hospitals and 2000 health clinics within MOH nationwide plus a number of other non-MOH health facilities, the system must be robust to provide services to a high number of users and responsive enough not to consume much of valuable time of health personnel at sites to do data entry. Stringent functional and performance system requirements are achieved by using various MIMOS technology platforms and expertise to develop the right solutions.

### Solution Framework



## Technology platform

- Mi-UAP
- Mi-ARMC
- Mi-Cloud
- Mi-ROSS
- Mi-MOCHA
- Mi-Portal

## Solution Description

- Cloud and web based application with centralized database
- Intuitive front end for user friendly interface using HTML 5 technology
- Robust back end architecture to speed up data entry processes and fast data crunching
- Secured by latest technologies and well-designed application architecture design
- Support sustainability through local expertise development plan in both IT and Health Informatics areas

## Features

- Responsive and scalable applications capable of handling a high number of simultaneous connections with high throughput
- Interactive and quick-responding web applications
- Simple to use - point and click web-based application
- Includes load balancers in the solutions to improve performance by preventing a single application server being overloaded
- Integration with HIS and several other external systems
- Data quality and security is of the highest level

## Benefits

- High rate of SMRP system data entry at facilities in both public and private healthcare sectors
- Richer health informatics information is available for MOH to provide more insights into its services.



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