

The Malaysian Cohort (TMC) Biobank

A national resource for basic and translational research

- » This national project was approved by the Cabinet in 2005 with funding initially from MOSTI and later MOHE.
- » TMC is a long-term prospective cohort study that aims to systematically build a comprehensive resource constituting a biobank of body fluid samples and big data on healthcare that is obtained from over 100,000 participants from all over Malaysia.



LOCATION

CENTRAL BIOBANK, UMBI

Equipped with 40 units of -80°C freezer as well as 43 units of -196°C liquid nitrogen tank with temperature monitoring system.



-80°C Freezer Units



Liquid Nitrogen Tank

SATELLITE BIOBANK

(Additional storage sites)



UKM-MTDC



Basement, HCTM

KEY RESEARCH INITIATIVES



Gene-environment interaction for NCDs including diabetes.



Omics-driven biomarker discovery for early detection of cancers and NCDs.



Large scale microbiome studies in different diseases.



MyPRECISE: Precision Health Malaysia.

HIGH SECURITY STORAGE



Unique sample identification data (SID) for each participant.



2D barcoded sample tubes.



Redundant sample storage in -80°C and -196°C .

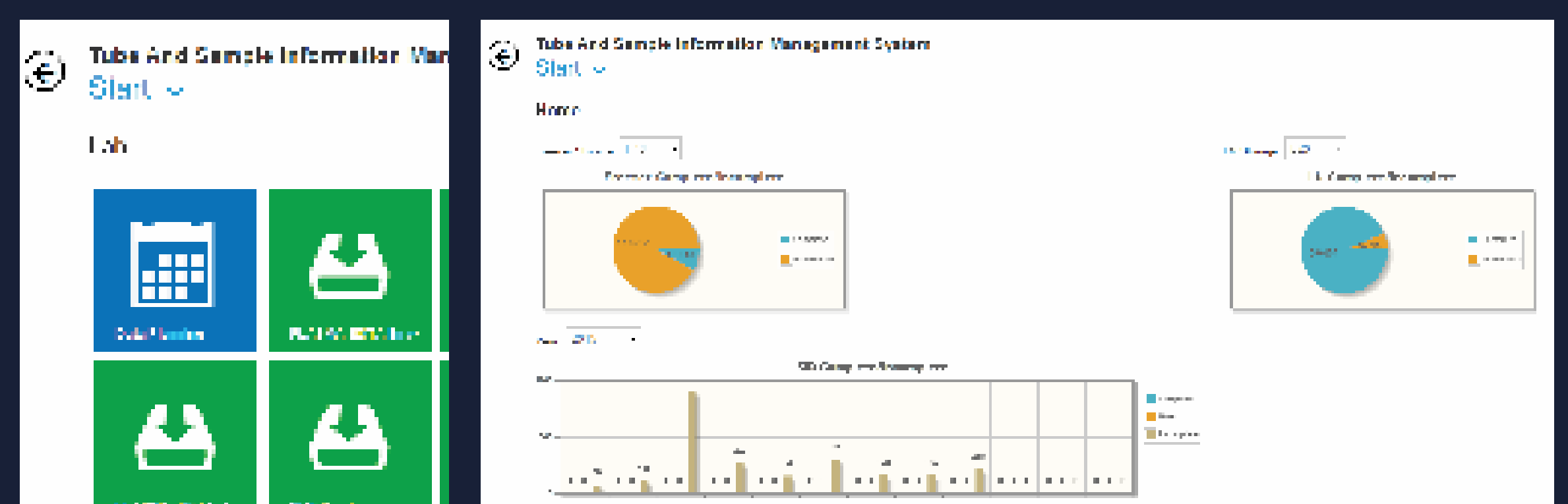


Compliance with Personal Data Protection Act (2010).



Information management system with privacy framework.

In-house Tube and Samples Information Management System (TSIMS) stores all data and inventory



2D barcoded tubes used

