

7th Malaysia Statistics Conference 20th & 22nd October 2020

In conjunction with World Statistics Day & MyStats Day 2020

Department of Statistics Malaysia, Putrajaya

"Census Shapes Nation's Future"



MY STATS 2020

Census Shapes Nation's Future

Prof. Dato Dr. Nor Aieni Binti Haji Mokhtar

Vice Chancellor, Universiti Malaysia Terengganu











GOOD & QUALITY DATA



Precision



Legitimacy and Validity



Availability and Accessibility



Timeliness and Relevance



Reliability and Consistency



Completeness and Comprehensiveness



Granularity and Uniqueness

PRODUCTIVITY

with good data, company
will be more organize and
productive with ease of
data access and availability

COST EFFICIENT

reduce unecessery cost, uneeded duplication and better effeciency of workforce

OPERATION ADROITNESS

reduce time for
responsiveness via efficient
and up to date data availability.
company could response
effeciently to market change
and reaction of competitiors

IMPORTANCE OF GOOD DATA

data loss reduce due to non-redundancy of data, strategic backup of important data and state to the art data management proper data management reduce the risk of data breach. strong data management protect important data from information theft and attacks

proper data management and update keep workforce on the same analysis and up to date trend and changes. this help company to ensure decision making were adhire to latest market movement and analysis

REDUCE DATA LOSS

SECURITY

ACCURATE DECISION

4 USES OF DATA

DESCRIPTIVE

What happened?

Accurate and fast descriptive analytics will reduce time spent

- in report generating
- and enable better
- decision making

DIAGNOSTICWhy did it

happened?

Diagnostics will
identify the most
valuable content to
optimize future
activities

PREDICTIVE

What will happened?

Analytics help decision maker to opt on most likely scenario and make use of it

PRESCRIPTIVE

What should happen?

Improve conversion by prescribing what content, product or advert to recommend

UMT'S DIGITAL ECOSYSTEM FUNCTIONS



Collecting data on staff, students, research, teaching and learning, transfer of knowledge and industry networking



Development of system integration for all UMT's databases



Management of data for ranking and rating (QS Ranking, SETARA, MyMohes, MyRA)



Ensuring data integrity and security



Preparation of various reports for the university



Repository for official data and documents



Data analytics for decision making



Advisory services on strategic issues on ICT and data management

UMT'S DATA INTEGRATION SYSTEM







NOTA JEMAAH MENTERI (NJM)/ MEMORANDUM JEMAAH MENTERI (MJM)/ **ANNUAL REPORT**



Ministry Performance Indicator (MPI)





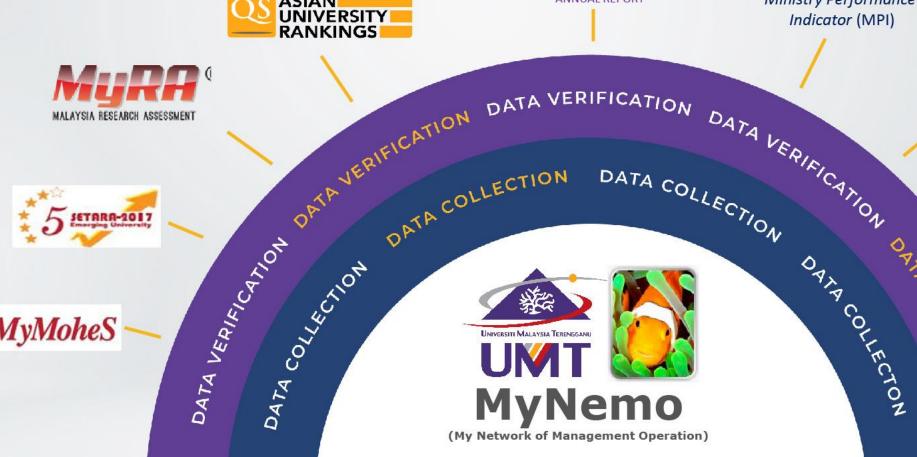








MyMoheS



DATA VERIFICATION OPTA COLLECTON

OTHER INSTRUMENTS

Apllication in Higher Education



INPUT

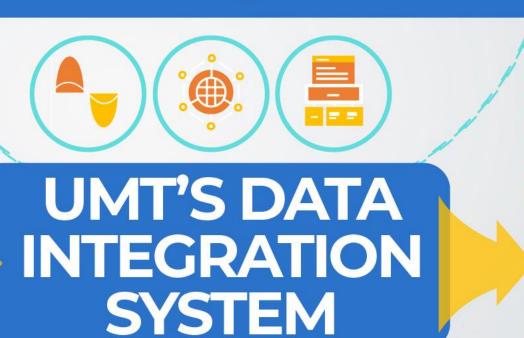
General Data

Management Data

Academic Data

Research Data

Other Data









OUTPUT

MYMOHES
MYRA
SETARA
QS RANKING
STRATEGIC PLAN
UMT'S KPI
ISO
REPORT TO TOP
MANAGEMENT

SYSTEM INTEGRATION FRAMEWORK





Oceania
e-Pembelajaran untuk

Pelajar Ijazah



e-Pembelajaran untuk
Pelajar Diploma/Asasi



e-Pembelajaran untuk

Siswazah/Kakitangan



Estuary
Open Distance Learning

Platforn



Laksamana

Global Online Learning



UMTMOOC

Massive Open Online Courses



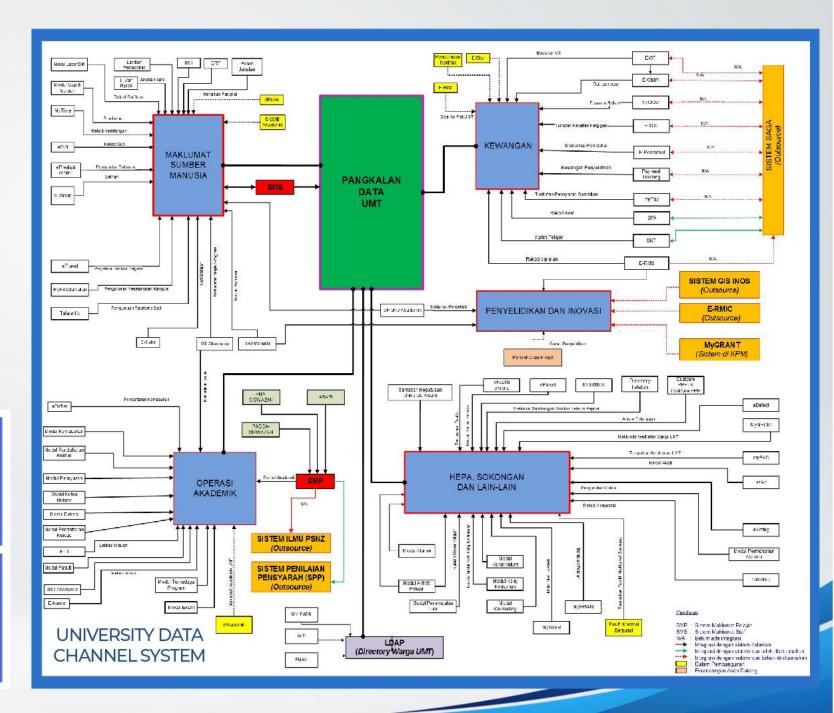
Malaysia MOOCs Kursus-Kursus MOOC Rintis

Universiti Awam Malaysia



Lentera.tv

Video Streaming



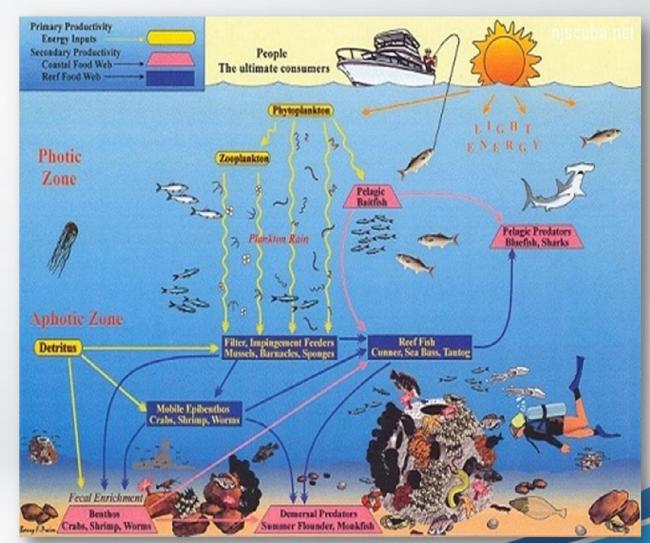
Information Visualization Tools as a Determinant of the Effectiveness and Efficiency of Artificial Reefs Development Project Using Multiple Types of

Database Integration Approach

Malaysia Fisheries Department builds artificial reefs aiming to provide natural reproduction area to marine life until commercial size is achieved

Artificial reefs are the core to marine natural resources. The majority of marine species are dependable on artificial reefs for food source and sanctuary.

It also can protect various species of marine fish from fisherman threat which uses trawl and seine constrict.



SIDIF

Spatial Information Data Integration Framework





Special Diving Task Force – Current Practice : Artificial Reefs Growth (AR Location – DB1)











Fish Landing: Daily activities – Sorting by type of species (Fish Statistic–DB3)



What is MyNODC?

O Background:

As a focal point for all oceanographic activities in Malaysia, NOD has initiated the Malaysian National Oceanographic Data Centre (MyNODC).

O Purpose:

To provide stewardship and access for the national resource and exchange of oceanographic data. This effort requires the process of identifying, gathering, storing, archiving and disseminating oceanographic data, information and knowledge to its stakeholders.



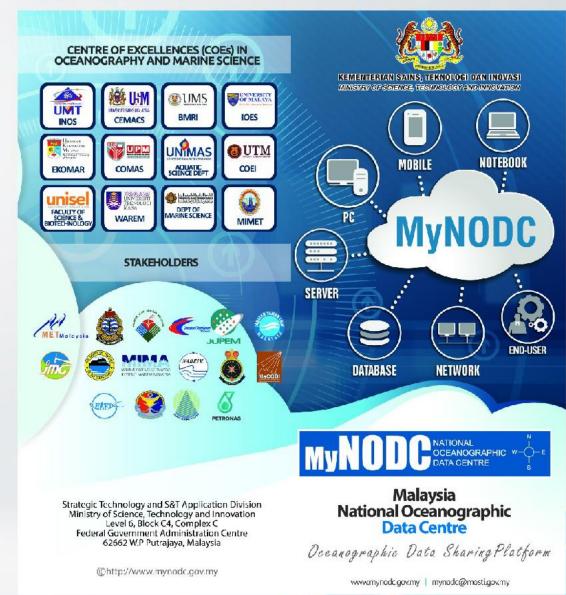






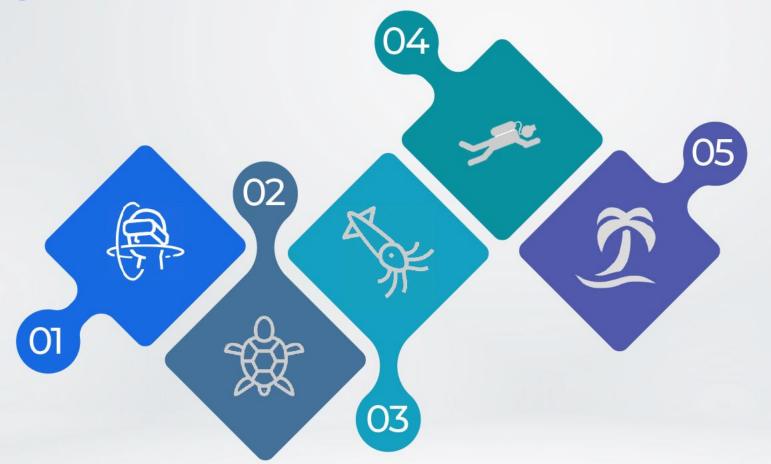


Malaysian Oceanographic Data Aggregation & Archiving System (MyDAS)



O How data on Terengganu Marine Parks help us to make decision?

OData on carrying capacity is crucial



Adapt the best practices - MSP Govern the biodiversity & environment Implement the sustainable planning Propose zoning for the socioeconomic growth Redesign development in the marine park



Data on:

- Congestion
 - Volume
- Berthing

OFFSHORE WORK



Data on:

- Offshore support vessel
- Oil and gas demand

Logistics

CRUISES & FERRIES



Data on:

- Service network
 - Safety
- Environmental issues

CARGO SHIPPING



Data on:

 Vessel Capacity Equipment

Liner shipping companies

IMPORTANCE OF

MARITIME DATA

HOW TO SHARE

MARITIME DATA

HOW TO GET

MARITIME DATA

MARITIME SECURITY



Data on: Military operations Coastal defence

Piracy

FISHING



Data on:

- Illegal fishing Local and foreign
- fishing vessel

Planning for maritime economic and environmental sustainability

Comprehensive research

Boost maritime operations performance

Supply chain sustainability

Collaboration (University + Industry)

Integration among maritime players

Cloud computing

Using integrated data system between university and industries

Role of Data Science in Socioeconomic Development - Achieving SDGs

Data Science &

Socioeconomics

Assessing social impact metrics









Investing in healthier communities





Empowering women



Optimise social performance & financial performance





Alleviating the pressures of the working poor







Addressing the environmental concerns





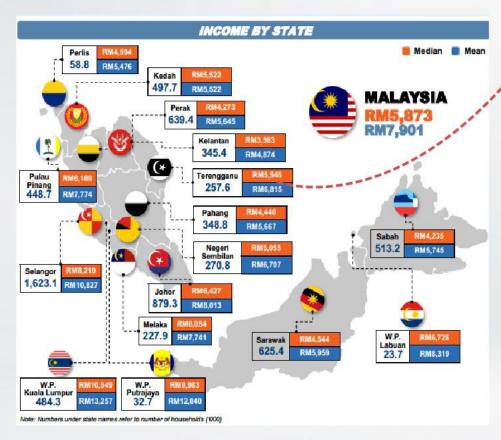






Using Census Data for Socioeconomic Development – SDG 1 (Poverty Eradication)

Malaysia Poverty Line (new methodology 2019): RM2208 compare to previous methodology (2005) RM980



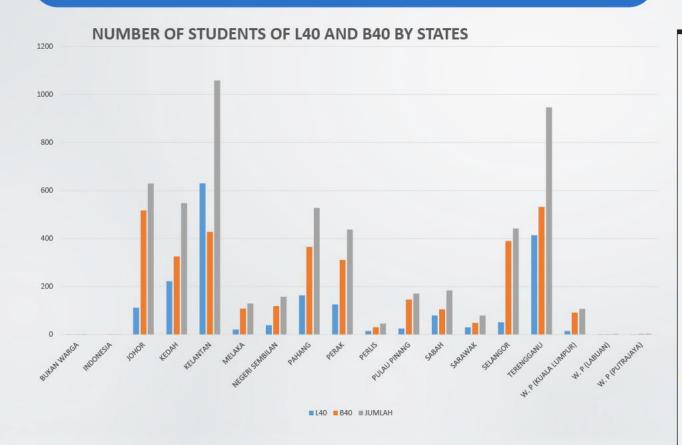
Terengganu median income is below national average

SDG 1 (Poverty eradication)

- UMT actively engaged to empower community for their livelihoods and resilience.
- Social Innovation community project by UMT; ECERDC Akuapolitan Kuala Nerus, Women empowerment in Setiu and Sea Horse Community Project.
- With data, specific communities are targeted all the above projects have created social innovation benefit, not only to the participants, but also their families through better jobs and entrepreneurial opportunities.



DATA OF UMT B40 STUDENTS AND TARGETED ASSISTANCE FOR THEM



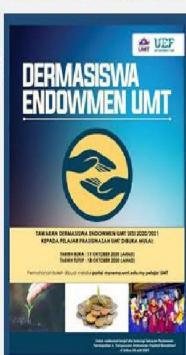
Source: Student Affairs Department UMT (Data until August 2020)

UMT committed in assisting the welfare of B40 Students

DERMASISWA ENDOWMEN UMT

INFO DERMASISWA

- Bartuan kewangan minima sebanyak RMB,000.00 setahun yang diberikan kepada pelajar PRASISWAZAH UMT
- Bartuan untuk menampung keperluan pembelajaran dan sara hidup pelajar
- Jumlah pembiayaan tertakluk kepada tempoh program pengajian pelajar di UMT semasa tawaran
- Agihan dana dibuat pada setiapsemester RM1,500.00
- Terbuka kepada semua pelajar PRASISWAZAH UMT termasukpelajar baharu
- Ditawerkan mulai Sesi 2017/2018
- Permohonan dibuat di atas talian melalui Sistem Dermasiswa Endowmen



Cara Memohon Dermasiswa Endowmen UMT:

- 1. Log in MyNEMO Pelajar
- Klik tabSOKONGAN
- 3. Klik ENDOWMEN
- 4. Lengkapkan MAKLUMAT PELAJAR
- 5. Klik BUAT PERMOHONAN

Senarai Dokumen Yang Diperlukan:

- 1. Salinan Kad Pengenalan Pelajar
- 2. Salinan Nombor Akaun CIMB Bank Pelajar
- 3. Salinan Sijil Kematian jika anak yatim
- 4. Selinan Slip Gaji Ibubapa/Penjaga
- semien seh geli innnehet LeideRe

5. Surat Akuan Pengesahan Pendapatan Ibubapa Penjaga



DATA SCIENCE DASHBOARD



CLIMATE CHANGE



OCEAN ENGINEERING & TECHNOLOGY



ECONOMIC & SOCIAL



BIOLOGY & BIO-D



LEGAL & POLICY

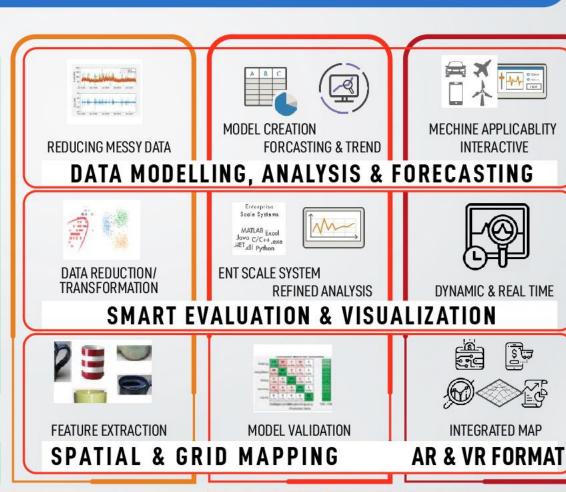


MARINE & ENVIRON-MENTAL POLLUTION



FOOD SECURITY





RAW DATA

STANDARDIZE DATA PRE PROCESS DATA DEPLOY PREDICTIVE & DYNAMICS MODELS

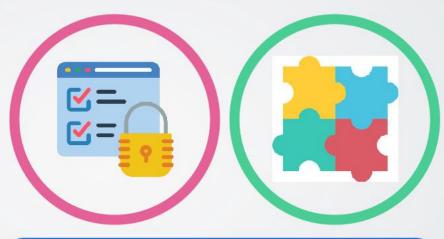
INTEGRATED ANALYTICS WITH SYSTEM

INSIGHT

STRATEGIC PLANNING

GOVERNMENT POLICY

Strengthening data security

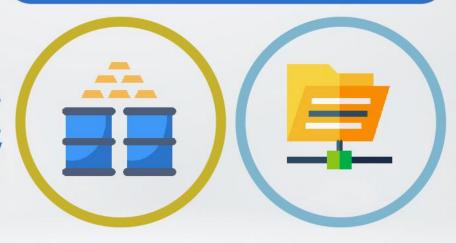


Close collaboration between public-private sector

Future Trends (IR4.0)

WAY FOWARD

Policy on data as commodities the "new oil" / "new revenue"



Policy on data sharing policy / Open government data

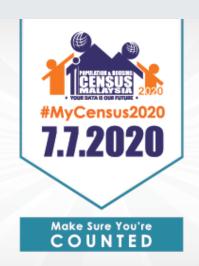
THANK YOU BANCI MALAYSIA

7.7.2020 - 21.12.2020 (e-Census)

20.1.2021 - 6.2.2021 (Face To Face)

POPULATION & HOUSING MALAYSIA

YOUR DATA IS OUR FUTURE



For More Info: www.dosm.gov.my www.mycensus.gov.my





















