

SOIL RESOURCES MANAGEMENT DIVISION

DEPARTMENT OF AGRICULTURE



SOIL RESOURCE IN THE COUNTRY



The total land area of Malaysia is
329,847 km²



Peninsular Malaysia makes up
132,090 km² (39.7%)
while East Malaysia (Sarawak and Sabah
covers 198,847 km²
(60.3%).



Agriculture land - 10,985,453 (33.3%)



OUR FUNCTIONS

01

Lead agency & custodian for soil information in Peninsular Malaysia

02

Manage soil resource repositories, issue base maps and derivative maps as well as control the security of information distribution

03

Develop a national land use geospatial inventory to determine land suitability for crops

04

Provide soil fertility management technology recommendations

05

Provide recommendations on soil resource management technologies to address the effects of climate change and soil degradation

OUR SERVICES



SOIL SURVEY AND EVALUATION

Verification of soil-crop suitability.

Soil suitability reports for crops are issued for agricultural project planning

Soil Survey

Systematic land surveys are conducted to build a national land database.

Three types of soil survey:

- i) Schematic Reconnaissance Survey
- iii) Semi-detailed Survey
- iv) Detailed Survey



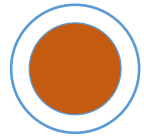
Highlight profile description, analytical data and suitability evaluation for common soil series in Peninsular Malaysia



- Geotanih (geo – geography; tanah – soil) is a soil information system developed by Soil Resources Management Division, Department of Agriculture Malaysia (DOA)
- to highlight the soil profile description, analytical data and the suitability evaluation for common soil series in Peninsular Malaysia which have been gathered during soil survey mapping and soil correlation tour.

The screenshot shows the Geotanih website interface. At the top, there is a teal header with the Geotanih logo on the left and navigation links (Home, About, Term & Use, Help, Feedback, Services, Contact Us, Sign in) on the right. Below the header is a gallery of images. On the left, there are three soil profile images: one labeled 'BOK KIAM', one labeled 'Brown Mottle', and another showing a soil cross-section. To the right of these is a large image of a palm tree plantation. Below the gallery, the text reads 'About Geotanih' followed by a paragraph: 'The Department of Agriculture Malaysia is the lead agency and custodian for soil information in Peninsular Malaysia. It is responsible for carrying out soil survey and mapping for Peninsular Malaysia through a systematic soil survey program and maintaining the database of registered soil type. The products of these surveys are soil maps and soil...'. At the bottom of the browser window, there are two tabs titled 'PENGENALAN BA...ppt' and a Windows taskbar showing the time as 10:48 AM on 15/4/2022.

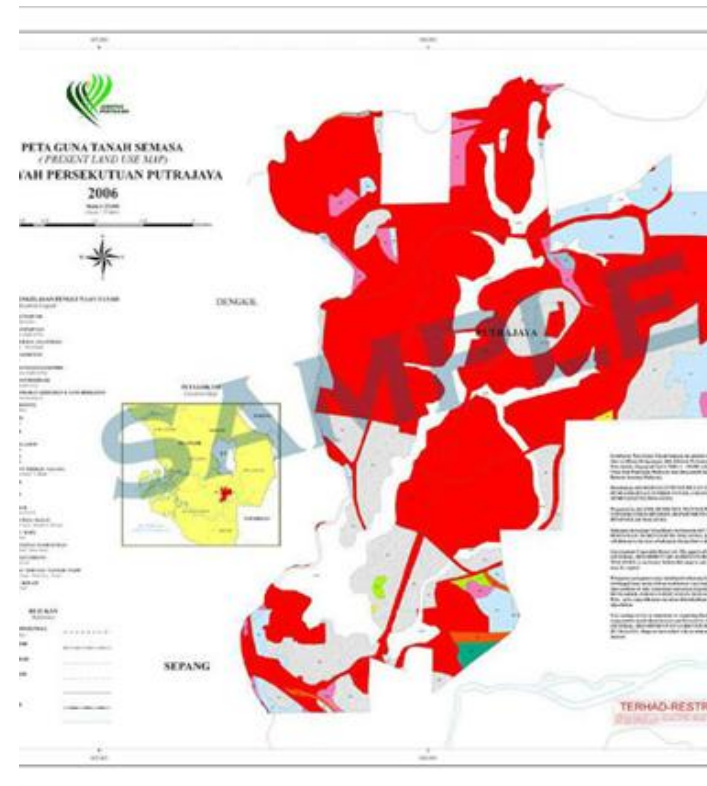
OUR SERVICES



LAND USE SURVEY

Production of maps and land use statistics for area development planning

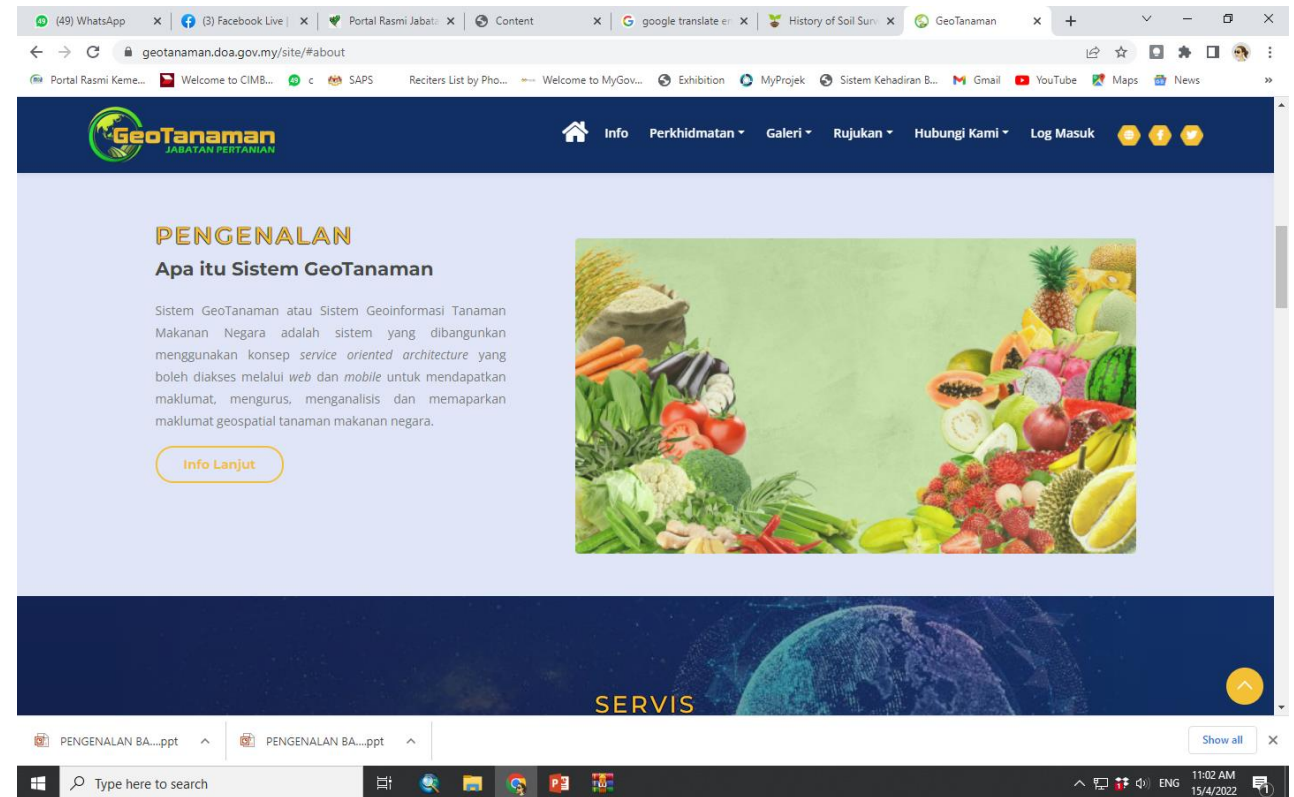
Provide a database of current land use in Peninsular Malaysia



LAND USE MAP



- A system developed using the concept of service oriented architecture that can be accessed via web and mobile to obtain information, manage, analyze and display geospatial information of national food crops.

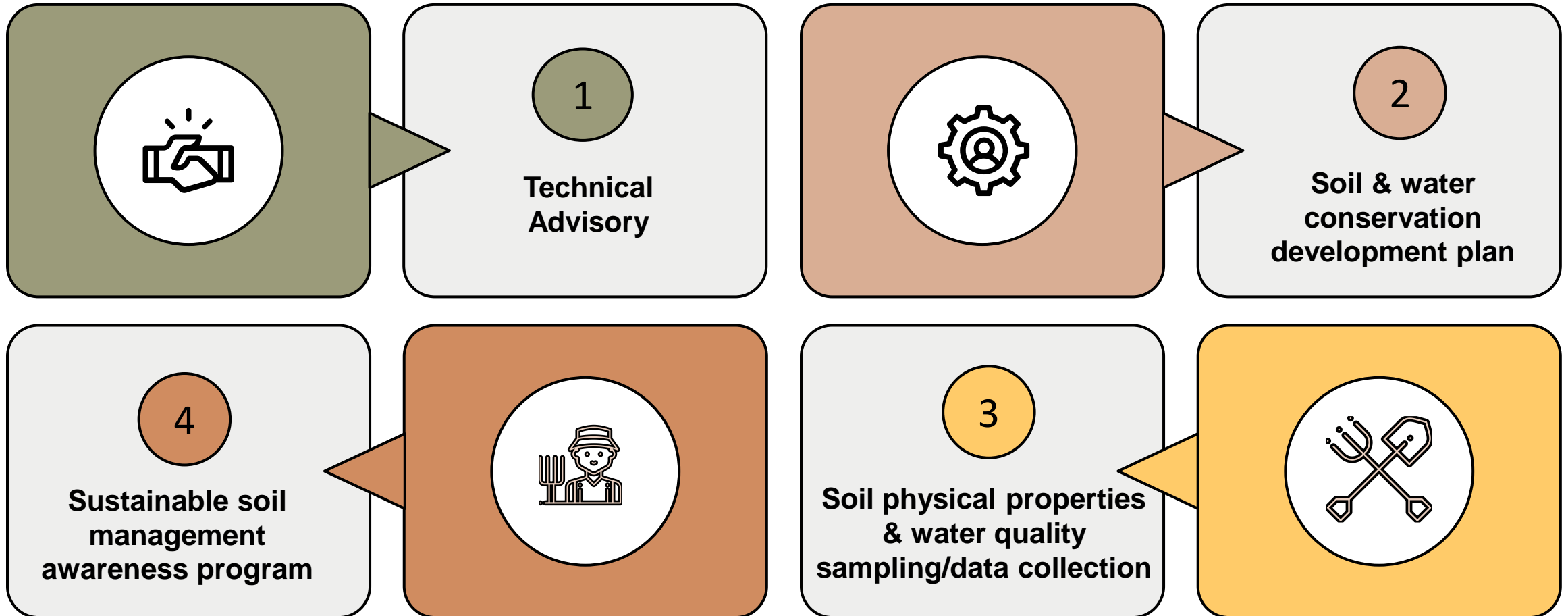


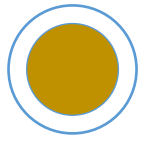
OUR SERVICES



SOIL CONSERVATION & AGROECOSYSTEM

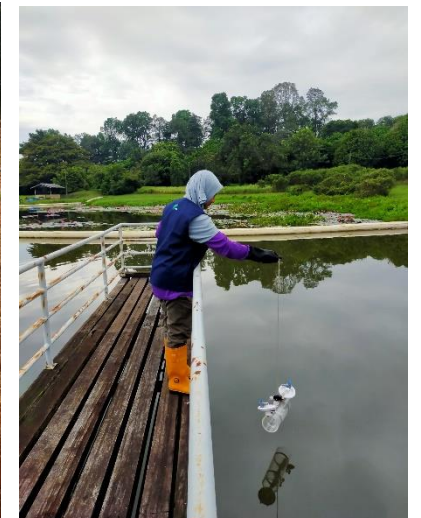
- Services for planning agencies, project implementers, entrepreneurs and smallholders.
- Relevant data to be integrated into GeoTaniH System.





SOIL CONSERVATION & AGROECOSYSTEM

- Services for planning agencies, project implementers, entrepreneurs and smallholders



Training and knowledge sharing to farmers and technical officers

Water sampling



Soil Awareness Campaign through Billboard

OUR SERVICES

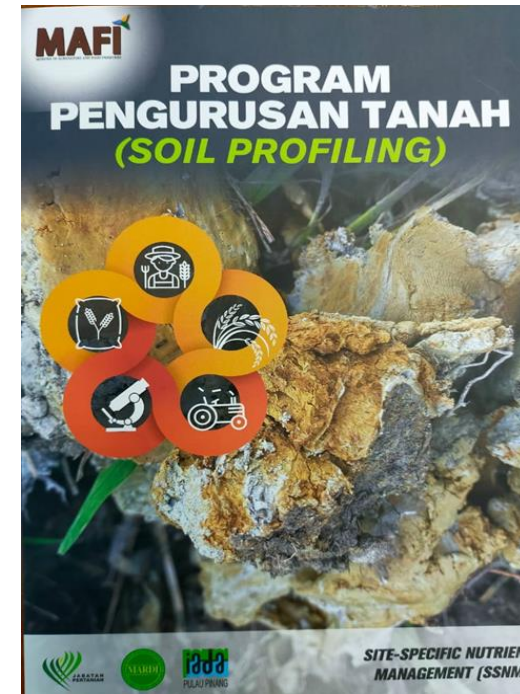


SOIL FERTILITY & PLANT NUTRITION SERVICES

- providing technical advisory services on soil fertility management and fertilization to farmers
- responsible for conducting fertilizer sampling activities to control the quality of national paddy fertilizer



leaf and soil sampling



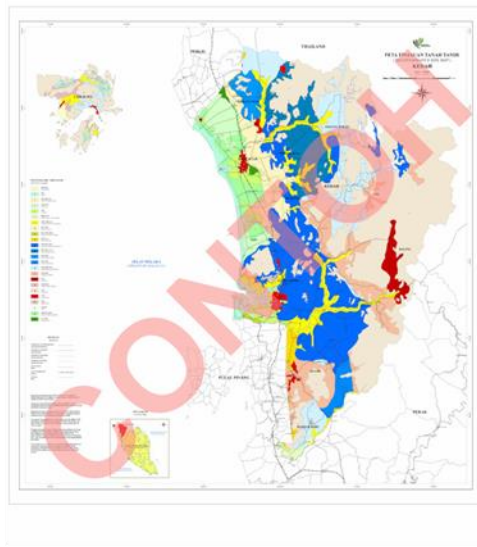
Site Specific Nutrient Management (SSNM) in rice production system through the approaches soil nutrient analysis, mapping and fertilizer application base on crop requirement

OUR SERVICES

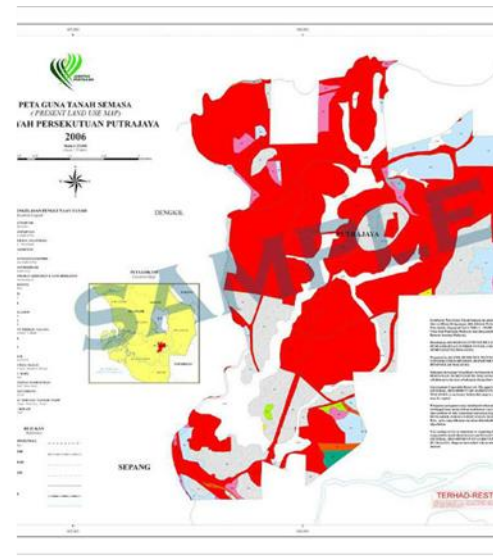


SOIL GEOINFORMATION SERVICES

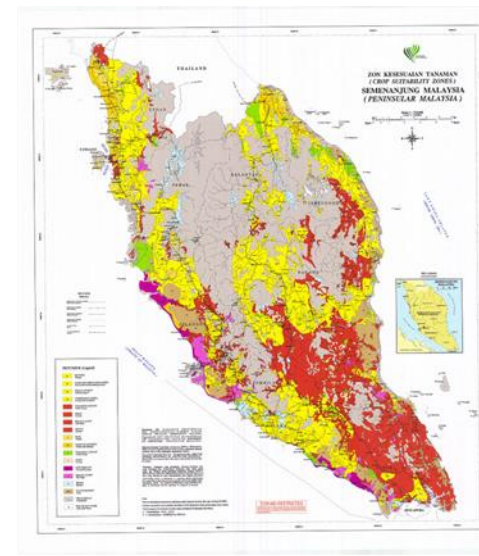
- create a repository of soil, land use, climate, soil conservation and data related to soil resources for Peninsular Malaysia
- Sale of geospatial data related to soil resources



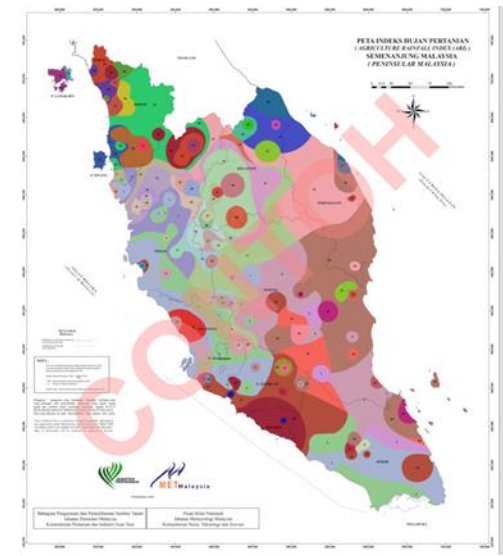
SOIL SURVEY MAP



LAND USE MAP



Crop Suitability Zone
Map



Agriculture Rainfall
Index Map



TERIMA KASIH

THANK YOU

