

THEMATIC MAP OF POLITEKNIK SULTAN HAJI AHMAD SHAH (POLISAS) KUANTAN , PAHANG .

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ABSTRACT

This paper present the creation of thematic map of Sultan Haji Ahmad Shah Polytechnic, Kuantan Pahang. This map is created using aerial image and AutoCAD software. Rationally, this innovation can present the right of information with exciting cartographic display. The objectives of this paper focus on producing thematic maps for general uses and learning references. The purpose of this thematic map generated because there is no specific map related to the POLISAS area to be refer and most of the pictures acquired by searching on internet which is there have no directions and tag for each places or buildings. The advantages of this map is it can be used as a reference to public uses especially on development area or behave on POLISAS management in strategic planning of development and future land use. We also can apply what we have learned in producing these thematic maps while studying in POLISAS. The picture we get to produce this map are from the assets of Ministries of Higher Learning Malaysia and also refer to the paper produce by Polytechnic Kuching Sarawak tittle "PEMETAAN TEMATIK BERDIGIT POLITEKNIK KUCHING SARAWAK MENGGUNAKAN PENDEKATAN GIS". Hopefully this thematic maps will give benefit to all and give a good picture of the POLISAS environment.

Keywords: Thematic maps, aerial image, AutoCAD software

1. INTRODUCTION

POLISAS is the eldest Institution of Higher Learning in Pahang established by the Malaysian Government in 1976 . This institution is the oldest 7th in the list of public institution under government control . Everyone can search the location , background history and also image of POLISAS through the internet but ; there no any map that can shows the exact information about the POLISAS .

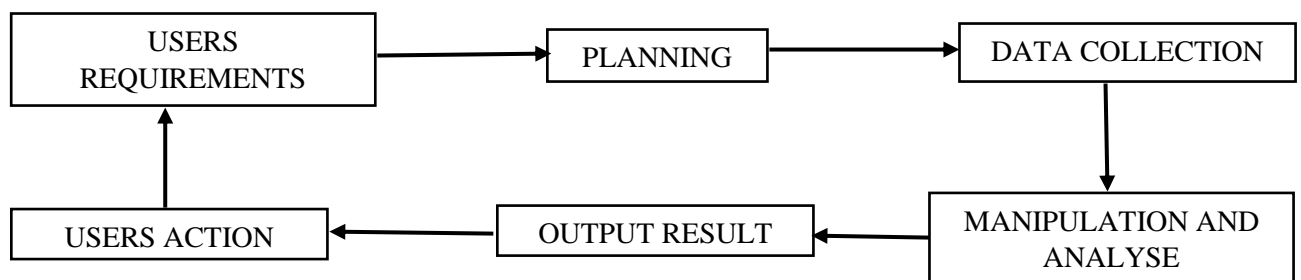


Figure 1 : Information System

Information system brief (Image 1.0) shows the process work required to achieve the target that has been plan . We observe the requirements of the users , make a plan to get the data needed . We process the aerial image by using AutoCAD Software . Before this , people prefer to refer image in the

Google Image to see the area of POLISAS but ; the image result did not help a lot . Based on this problems , we found that we need to make the Thematic Map of POLISAS .

2. LITERATURE REVIEW

A map is a representation of all or part of the Earth drawn on a flat surface at a specific scale . Refer to Dr. Mohamed Said bin Mat Lela and Bakeri bin Mamat [Peta Sebagai Sistem Komunikasi] Map is a graphic document that contain all the information . Everyone can understand all the content in the map if they have basic knowledge in mapping . All the information was present in graphic form such as in drawing image , diagram or picture presentation naturally . Also , the main purpose of the map in a broad sense is as a communications agent to the map users .

Thematic maps , also referred as a special-purpose maps , illustrate the geographical distribution of a particular theme or phenomenon . Qualitative thematic maps simply show the location or spatial distribution of a phenomenon ., while quantitative maps display aspects of numerical data associated with the phenomenon shown . Landforms , aspects of climate , vegetation and soil types , demographics , industry , manufacturing , and natural resources are examples of common thematic maps . Refer to Norina binti Omar , Fauzul Azhan bin Abdul Aziz and Alvajuri bin Affandi [Pemetaan Tematik Berdigit Politeknik Kuching SarawakMenggunakan Pendekatan GIS] said that the purpose makin of this thematic maps because there are no suitable maps to be used and to be refer that capable ofpresenting geographical information .

Next , refer to the other research made by Zulkepli bin Majid and Dr. Mohamed Said bin Mat Lela [Rekabentuk Peta Tematik Dengan Perisian CorelDRAW!] computer assisted cartography known as the most sophisticated technique in mapping field especially in thematic mapping . There are many hardware and software that can be used for the income of the thematic maps such as AutoCAD . AutoCAD IS A 2-D and 3-D computer-aided drafting software application used in architecture , construction , and manufacturing to assist in the preparation of blueprints and other engineering plans .

3. METHODOLOGY

Below is the flow chart process that required to make this project (Image 2.0)

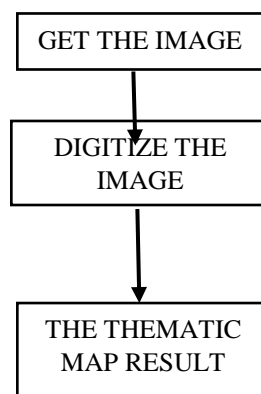


Figure 2: The flowchart of the thematic map process

We get the image from the assets of Ministries of Higher Learning Malaysia and used as a based map . The aerial image (Image 3.0) was go through digitization process use AutoCAD Software to produce this thematic map .



Figure 3: Aerial Image of POLISAS

Below is the flow chart process of digitization (Image 4.0)

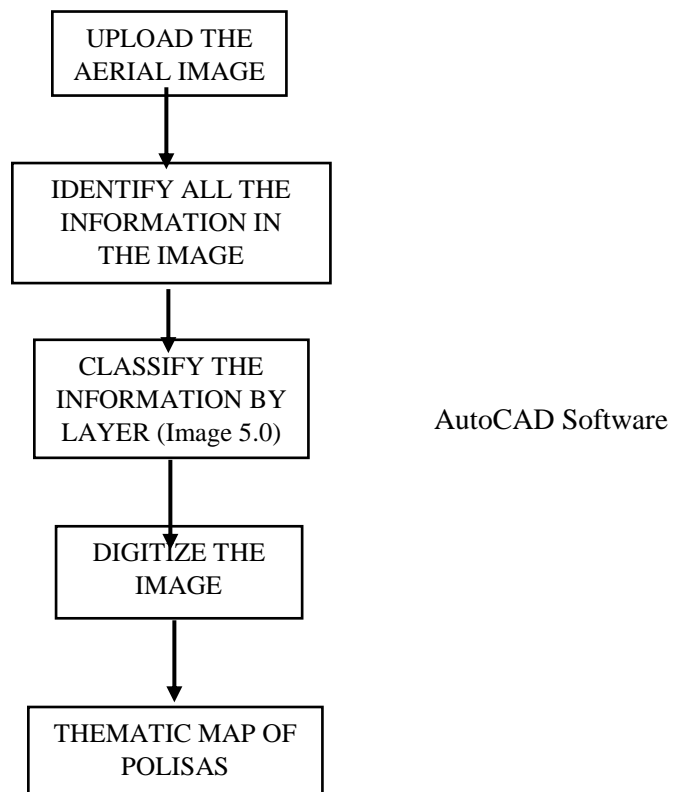


Figure 4: Flow chat Digitize Process

St	Name	On	Freeze	Lock	Color	Linetype	Lineweight	Plot Style	Plot	Description
0					wh...	Continuous	— Defa...	Color_7		
	bangunan jika				162	Continuous	0.50 ...	Color_1...		
	bangunan tm				149	Continuous	0.50 ...	Color_1...		
	dewan				24	Continuous	— Defa...	Color_24		
	hutan				96	Continuous	0.35 ...	Color_96		
	hutan primer				116	Continuous	— Defa...	Color_1...		
	jalan				40	Continuous	0.35 ...	Color_40		
	kamsis a				162	Continuous	— Defa...	Color_1...		
	kamsis b				162	Continuous	— Defa...	Color_1...		
	kamsis c				162	Continuous	— Defa...	Color_1...		
	padang				203	Continuous	0.50 ...	Color_2...		
	pasir				33	Continuous	— Defa...	Color_33		
	rumpit				70	Continuous	— Defa...	Color_70		

Figure 5: Layer for each class

After finish all the digitizing process, we get the output of Thematic Map of POLISAS .

4. RESULTS AND DISCUSSIONS

This project ease everyone who need it especially all the students , lecturer and staff of POLISAS to search and recognise place all around the POLISAS based on the thematic maps that we have done . Colourful maps , variety symbol , legend to refer and many more .

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