



UNIVERSITI TEKNOLOGI MARA

**AN ASSESSMENT OF THE COVID-19 CASES ON
WORKPLACE CLUSTER USING GEOSPATIAL
INFORMATION: A CASE STUDY IN SELANGOR**

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Thesis submitted in fulfilment of
requirements for the degree of
Bachelor of Surveying Science and Geomatics (Hons)

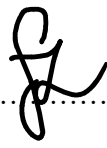
Faculty of Architecture, Planning, and Surveying

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AUTHOR'S DECLARATION

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ABSTRACT

COVID-19 cases recorded a high number in the world nowadays. Malaysia faced an increase in the number of workplaces cluster that were the highest contributor to the COVID-19 cases after many companies conducted mass testing on their employees. Therefore, it is crucial to monitor the highest cases, especially in the Selangor area to maintain the high level of protection of the workplaces cluster. This study aims to assess the number of cases involved in workplaces cluster using geospatial information. The objective is to develop an animation map of COVID-19 cases among the workplaces cluster in Selangor and to analyze the COVID-19 cases pattern based on the cluster of workplaces in Selangor using an animation map. The data use of COVID-19 cases to the workplaces cluster are free accessed online by the Crisis Preparedness and Response Centre, Ministry of Health Malaysia (MOH). Thus, the data are manually inserted and processed in ArcGIS Pro. The geolocating method will be used in animation mapping that will help assess the number of workplaces cluster. The use of geospatial technology can be supportive to detect and identify potential hotspots requiring a timely response for the early detection of COVID-19 cases against workplaces cluster. Therefore, the map information will also help the MOH access health epidemic COVID-19 and apply elsewhere.

TABLE OF CONTENT

	Page
CONFIRMATION BY PANEL OF EXAMINERS	
SUPERVISOR'S DECLARATION	
ABSTRACT	
ACKNOWLEDGMENT	
TABLE OF CONTENT	
LIST OF TABLES	
LIST OF FIGURES	
LIST OF ABBREVIATIONS / NOMENCLATURE	
CHAPTER 1	1
INTRODUCTION	1
1.1 Research Background	1
1.2 Problem Statement	3
1.3 Research Question	4
1.4 Aim and Objectives	4
1.5 Scope of Study	4
1.6 Significant of Research	5
1.7 Summary	5
CHAPTER 2	6
LITERATURE REVIEW	6
2.1 Introduction	6
2.2 Description of the spread of COVID-19 cases	6
2.3 COVID-19 among Cluster Workplaces	7
2.4 Spread of COVID-19 disease by Delta Varian	8
2.5 Demonstration of GIS mapping in the spread of COVID-19	9
2.6 ArcGIS Software	10
2.7 Summary	10

CHAPTER 3	11
METHODOLOGY	11
3.1 Introduction	11
3.2 Study Area	11
3.3 Flow Cart	13
3.4 Data Acquisition	14
3.5 Data Processing	15
3.5.1 Animation keyframe	15
3.5.2 Animation Timeline	16
3.6 Export Animation	17
3.7 Animation Mapping of COVID-19 cases of Cluster Workplaces	17
3.8 Summary	18
CHAPTER 4	19
RESULT AND ANALYSIS	19
4.1 Introduction	19
4.2 Confirmed Cases Cluster Workplace of COVID-19	19
4.3 Current Cases	19
4.4 Summary	27
CHAPTER 5	28
CONCLUSION AND RECOMMENDATION	28
5.1 Introduction	28
5.2 Conclusion	28
5.4 Recommendation	29
5.5 Summary	29
REFERENCES	30
APPENDIX	32