WEB GIS SOLUTION AND VISUALIZATION TOWARDS SUSTAINABILITY OF WORLD HERITAGE SITE.

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1. Letter of Report Submission

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PENOLONG NAIB CANSELOR
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Y. Bhg. Prof.,

LAPORAN AKHIR PROJEK PENYELIDIKAN (DANA KECEMERLANGAN)
Tajuk Projek : WEB GIS SOLUTION AND VISUALIZATION TOWARDS
SUSTAINABILITY OF WORLD HERITAGE SITE.

Dengan hormatnya perkara di atas adalah dirujuk dan berkaitan.

2. Sukacita dimaklumkan, seperti yang telah dilaporkan kepada Unit Pemantauan Penyelidikan RMI sebelum ini menerusi borang RMI (DANA KCM)-2012/6, juga telah dimaklum-sahkan oleh iRMIs bahawa projek ini telah ditutup dan telah ditamatkan dengan jayanya.

3. Bersama ini disertakan laporan akhir penyelidikan dalam bentuk satu (1) salinan cakera padat (CD).

4. Adalah diharapkan projek penyelidikan ini dapat menyumbang kepada kecemerlangan Universiti Teknologi MARA.

5. Sehubungan dengan ini juga saya ingin merakamkan setinggi-tinggi penghargaan dan ucapan ribuan terima kasih kepada UiTM dan RMI diatas segala usaha baik dan kerjasama yang telah diberikan disepanjang tempoh penyelidikan dilaksanakan.

Sekian, terima kasih.

Yang Benar,

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5. Report

5.1 Proposed Executive Summary

E-government is a promotion from the government side to encourage local authority using of new technologies for better operation. Web GIS is the one system which occupies e-government condition for geography information data sharing within organization and outside world. Sharing Information by using Web GIS by local authorities will probably improve performance inside organization to be more efficient, and could develop positive relationship with visitor and the public. Good Information presentation for spatial and non spatial information will facilitate relationship with public and also easy to produces decision for every development and planning which operates. This is easy system and can be increased internally and external inside each local council. Web based GIS is one of the systems who can used by local council in department of town planning for each local council to achieve objective inside of contents the agenda 21 produce in Earth Summit at Rio De Janeiro's conference in June 1992. Agenda 21 have produce are goals for Local Authority to implement negotiation process with society to formulate Local Agenda 21 respectively. So to deliver that meaning local authority must having equipment to channel information such as Geography's information environmental area inside cater to societal involvement, private sector and powerful to cooperative the authorities inside planning and manage their environmental area direction to sustainable development. In the local council party for department of town planning it must have a Web based GIS system to channel information to civilians, private sector and local authority to be doing something planning result and development inside administration area by quick and accurate.

5.2 Enhanced Executive Summary

The proposed project is to develop Web based GIS solution and visualization for sustainability of Goergtown as World Heritage Site. The aim of this research study is to establish a Web Based GIS and visualization of Georgetown as world heritage site. The spesific objectives of this research are to study concept and principles of sustainable development and to construct the Web based GIS solution with visualization of Georgetown. Methodology used to generate 3D building from building footprints that have actual height and produce a virtual 3D city model environment. Through the Web based, the users will enable to visualize the present and for future of urban development. With the advanced Geographic Information data which were made accessible on the Internet by Web based GIS solution technology offered an effective medium for public participation. For Web based GIS solution, each of building will have information about category of building, section, architecture style, road name, building name and building number. This Web based also provides and demonstrates the capacity to view, manipulate and distribute geographic data via WWW in an effective, organized user friendly manner. The platform can be used by a user to access and acquired geospatial data and information. As the final outcome from Web based GIS solution will enable user to interact with GIS data and maps on the Web without have to own GIS software. Planners, architects, urban designers, and land use planners are able to visualize the impact of urban design projects and proposed land use and zoning changes or predict the results of smart growth initiatives towards sustainable development of Georgetown as world heritage site.