
Assignment 1: GIS Case Study Summary

The purpose of this assignment is to assist students to understand, develop skills to review technical documents, and comprehend information. It is also expected that, this assignment will help students in understanding the standard GIS tools, techniques, methodologies and approach to attain problems / challenges.

Search an article, project and/ or case study which describe deployment of GIS technology to solve a problem. Based on the study, provide following pieces of information:

1. **Statement of problem:** State the problem being addressed by the organization, program, or activity
2. Briefly describe the purpose of the project / case study
3. Prepare a list of all the hardware and software involved within the scope of this project.
 - i. GIS software(s)
 - ii. Printer / plotter etc.
4. What kind of input data source (s) like paper maps, satellite imagery, survey, remote sensing etc. used to address the problem?
5. List the data acquisition sources such as government (Federal, provincial or municipal), data warehouses and/or research based data creation etc.
6. Describe the data storage and retrieval mode (spatial, tabular) used in the project?
7. Identify and describe the GIS methodology used for entire or part of the project.
8. Which geographic coordinate system was used to geo-processing purpose? Also, describe the reason for choosing this particular system.
9. List all the key findings from the case study (in tabular or bullet form).
10. Briefly describe the summary, conclusions and lesson(s) learned from the project.

Some of the research disciplines include:

- Wildlife Habitat
- Recreation Resources
- Floodplains
- Wetlands
- Agricultural Lands
- Forestry
- Hazard Lands
- Erosion
- Geomorphology
- Environmental Assessments
- Hydrogeology
- Hydrology
- Soils
- Ecological Land Classification
- Environmentally Sensitive Areas (ESA)

- Areas Of Natural And Scientific Interests (ANSI)
- Natural Feature Inventory

Case studies are to be between **500 and 750** words long. Please include the link to the article's web site at the end of your assignment.

Hard copy of this Case Study assignment is **due on (date will be announced in class)**. Do not include the print out of any part of the article with your assignment.