

2.30 Preparation of natural resources and environmental management framework using GIS technology for sustainable livelihood in Anamaduwa DSD

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ABSTRACT

An efficient, effective and user friendly strategy should be with planners, policy makers and general public to manage natural resources and environment in a sustainable manner. The main objective of the current study is to prepare such a program using Geographical Information Systems (GIS).

The GIS is an automated and well developed computer based technology. This technology is used widely in the world. GIS plays a major role in many fields such as water management, land use management and traffic management.

The livelihood of people in Anamaduwa DSD depends mainly on agricultural sector. Therefore, natural resources and environment should be managed properly to develop the economy in the area. This study attempts to combine GIS technology and the factors that determine the livelihood to create a database on natural resources and environment. GIS would help to maintain the database, analyze data and identify the problem and propose possible solutions for the problems of the study area. Also, GIS can display results effectively to understand even for an ordinary person. The findings of this study may help those who need variable and viable data on natural resources and environment of the study area.

Key words: GIS, Natural Resources and Environmental Management