GIS based decision support system for Sri Lankan agriculture sector

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The agriculture plays a dominant role in the economy of Sri Lanka while it contributes nearly 17.9 % to the Gross National Products (GNP) or Gross Domestic Product (GDP). Moreover, agriculture sector of Sri Lanka has generated more than one-third of the labour force and provides a livelihood for more than 800,000 farm families. Several government and non-government organizations involves with various sectors of agricultural related activities including management, research, and policy planning in the country. However, there is a gap in between these organization to integrated agricultural related data in order to provide a frame for better decision making practices. In this context, the development of a computer based tool is very important. The main objective of the study is to develop a user friendly GIS based decision support tool for the benefit of agricultural sector of Sri Lanka. Specifically, this will help both GIS users and non-GIS users who involves in agricultural related decision making process. Basically, this tool facilitates the user to find several agriculture related information, like suitable crop, suitable place, suitable time for farming and harvesting in Sri Lanka.

Keywords: NADSS, Decision making, spatial information

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