



Validity of using of GIS, SDI, Remote Sensing and Environmental factors for site selection of zones of coffee agriculture localization suitability modeling in Maraba sector, south province of Rwanda

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Abstract:

In these last recent years farmers in the sector of Maraba in South Province of Rwanda had face challenges to keep producing good quality coffee and to be the 1st place in competition of cup of Excellence. We conducted this research in order to show how the use of Geographic Information Systems (GIS) and Spatial Data Infrastructure (SDI) models as the research method for growing and producing good quality coffee in taking into consideration environmental factors like: Elevation and temperature, Rainfall and water supply, Soil, Aspect and slopes.

The findings in this research about the selection of zones of coffee plantation and relation relationship to coffee quality will be published on Geo-Portal where maps and metadata created or collected will be available to the public and particularly to Maraba sector community.

The results of this research will be presented to Maraba sector community in a workshop so that they can gain knowledge of the land and the good quality of Maraba coffee.