

Dutch funded “National Geoinformation centre for natural resource management (NGIC for NRM)” project

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This is three years project that aims at support of macro-level environmental decision/policy making, improving capacity through both national and international educational programs, support the provinces with data for an optimal management of the natural resources including pasture, support and collaboration with environmental projects /programmes /institutes with data and harmonised approaches that shall apply spatio-temporal methods including multiple disciplines. It is not just for collecting and establishing environmental data but it should be analysed and linked to practical grassland/ natural resource management to support the local level authorities through the existing network with the aimags.

The project has four principal components that include GIS as a tool for natural resource management, geographic information and database, remote sensing based decision support system for pastureland management and human capacity strengthening.

Successful implementation of the project shall reveal the Government regulation on database management, data exchange and flow inclusive geodata standards. Apart from that, meta-database and geo-database design shall be developed and its completion shall be initialised. Spatial database for water, forest, flora and fauna shall be carried out in collaboration with related institutions. To support monitoring of the pasture and natural resources, MODIS and GMS receiving stations shall be installed and be in full operational mode. Use of satellite data shall be also used development of the systems related to the natural disasters. The end users of the project products shall be not only the officials, planners, decision makers but also the data access will be open to everyone at all level depending on the data confidentiality. The local authorities will have access to the products through VSAT system for drawing decisions at the local scale. There shall be operational geodata centre for natural resources at the aimag level whereby the specialists shall be trained and become skilled in data entry, retrieval, storage, analyses and delivering to the management in comprehensive way. Equal importance is paid to the part of the application of geodata for management of the natural resources. In this context, the project shall perform case studies in selected areas of Mongolia to show how certain issue can be resolved with application of GIS/RS. Every research shall be accompanied with accuracy assessment and management recommendations. It is expected that the project shall become a model project on natural resource management with GIS/RS and multidisciplinary approach.