Forest Resource Database System



**Introduction**

Forest resource data has a key role in almost every forestry activity. Therefore, several forest inventory cycles have been implemented in Vietnam to collect forest resource data since 1990. In order to enable easy access to the forest resource data for the whole forestry sector, FORMIS II Project has integrated data from several inventory cycles into one, centralized Forest Resource Database System.

**Purpose and benefits**

The purpose of the Forest Resource Database System is to store key forest resource data in one centralized database. All data is stored in a systematic way following a defined database structure. Several data sets, containing data around the country, have been harmonized in order to ease the use of data.

The data, stored in the Forest Resource Database System, can be used by various applications via Internet and the FORMIS Platform. Thus, different stakeholders do not have to store the data in their own servers. The Forest Resource Database System enables the forestry sector operators to access legal and reliable data in an easy and cost-effective manner.

**Data Content of the Forest Resource Database**

The Forest Resource Database System contains the following nationwide data sets:

* Updated forest resource and monitoring data
* National Forest Inventory and Statistics (NFIS) data (2013-2016)
* Forest inventory data from earlier inventory cycles: 1990, 1995, 2000, 2005 and 2010
* Forest status map 2007
* Forest function map 2007

Updated forest resource and monitoring data is plot (stand) level data, which is annually updated by local forest rangers through the Forest Resource Monitoring System (FRMS). It includes also information on forest ownership. The NFIS data is forest resource data in inventory plot level, collected by the National Forest Inventory and Statistics Program. Forest inventory data from earlier inventory cycles are in status plot level.

More nationwide and local forest resource data sets can be integrated into the database system according to user needs and data availability.

**Technical Information**

The Forest Resource Database System is based on open source PostgreSQL database management system with PostGIS spatial extension, thus ensuring effective management of geometric data.

The system is integrated into the FORMIS Platform to ensure that forest resource data is available for multiple user groups and various purposes, depending on their defined user rights.

**More information** can be found from the Vietnam Forestry Information Portal: <http://formis.vnforest.gov.vn/>