



INFORMATION ON THE COMPLETED PROJECT  
CONTRIBUTION AGREEMENT

# Forest Biomass Supply Information System (FBSIS)

The British Columbia Ministry of Forests, Lands, Natural Resource Operations and Rural Development (FLNRORD) is currently facing challenges in the sustainable development of the local forest bioeconomy. One of its main challenges is that forest managers lack information on their forests' residual supply of biomass.

## PROJECT TITLE

Forest Biomass Supply  
Information System (FBSIS)

## ORGANIZATION

British Columbia Ministry of Forests, Lands,  
Natural Resource Operations and Rural  
Development

## CONTACT

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## START DATE

April 1, 2020

## END DATE

March 31, 2023

## COLLABORATORS

FPIInnovations  
GeoBC

Residual forest biomass is the leftover biological material from forest management, such as the wood offcuts from the timber industry. In many cases, residual materials still have value, but are left at harvesting areas and roadsides. For example, wood offcuts can be made into biofuel used to produce energy.

The British Columbia Ministry of FLNRORD and its collaborators (FPIInnovations and GeoBC) are creating a cutting-edge digital system to take inventory of residual forest biomass, so forest managers can ensure it goes to use. The Ministry and its collaborators aim to finish the system, entitled "Forest Biomass Supply Information System (FBSIS)," by the spring of 2023.

The Ministry's two collaborators will play key roles in FBSIS's development. GeoBC will host FBSIS on its user-friendly online mapping platform. The Ministry and GeoBC will use this platform to create the basis of FBSIS—an interactive multilayered mapping system. FPIInnovations will gather information for FBSIS's creation in a series of studies on the quantity and quality of biomass in experimental areas designated by the Ministry of FLNRORD.

FPIInnovations has also developed a companion mobile application to FBSIS—BiOS App. This easy-to-use application can calculate the volume of roadside biomass in real-time, alongside a suite of other useful features. It is currently available for download on [iTunes](#) and [Google Play](#).

While FBSIS is as a tool designed for residual forest biomass information, it also has alternate uses. These additional uses can be expanded upon in the future. To date, the project team has already added a "Fuel Hazard Assessment & Abatement Fire Risk" feature. This feature suggests the location and quantity of the fuel load for forest fires (i.e., the combustible contents of a forest such as trees, ground debris and litter). This information can be used to diminish the likelihood of a fire starting, its potential rate of spread and its resistance to control. The team also plans to add socioeconomic and environmental benefit information to the system.