

## **Description of INNOVATION**

Innovation	
Title	Project "Insense" (soil diagnosis)
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Domain	Sylculture, risks managment
Source of wood	Stemwood and woody biomass
Location	France
Implementers	forest owners, forest manager, forest logger
Actual status	Closed
Approach	Easily assess the sensitivity of forest soil to increased biomass harvesting. The owner or manager must enter soil characteristics into the digital or paper application, which indicates the sensitivity level for several mineral elements.
Main results	This tool is complementary to the ADEME's guide "sustainable forest slash harvesting" of 2006 which indicates how to describe the soil (type of humus, soil texture, pH,) and gives management recommendations according to the different types of sensitivity.  This application takes into account the pedoclimatic zone, humus type, pH, soil texture and prospective depth. The soil is described 25 cm deep. The result of the analysis gives 3 sensitivity levels: low, medium or high applied generally to the soil or for each mineral element (calcium, magnesium, potassium, phosphorus, nitrogen).
Lessons learned	This tool allows more intensive forest management to be applied in areas where the risk of soil depletion is low. It is necessary to train forest owners to describe soil horizons.
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Link to website	https://www.ademe.fr/insense-indicateurs-sensibilite- ecosystemes-forestiers-soumis-a-recolte-accrue-biomasse
Code	IN_FR_03

## **Innovation assessment**

Region	France
Time scale	Since 2018
Mobilization Potential	NA
Kind of wood	Woody biomass
concerned	



Sustainability Potential	Medium: diagnostic tool that can be used throughout the country but must be tested in the field
Impact on	Limits the impact of slash harvesting on soil fertility in sensitive
environment	ares
& biodiversity	
Ease of	Difficult: a lot of climate and soil data to integrate
implementation	Difficult. a for of cliffiate and soil data to integrate
Economic impact	NA
Job effect	NA
Income effect	NA
Specific knowledge	NA
needed	
Costs of	NA
implementation	
Technical readiness	Applicable in the next years
level	
Key information for	Association, organization of meeting days, responding to the
adoption	NA