

## Project “Insense” (soil diagnosis)



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.

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.

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).

## DETAILS

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### ORIGIN OF WOOD

Forest

### TYPE OF WOOD

Stemwood

### KIND OF WOOD CONCERNED

Woody biomass

### IMPACT ON ENVIRONMENT & BIODIVERSITY

Limits the impact of slash harvesting on soil fertility in sensitive areas

### INCOME EFFECT

NA

### EXPLOITATION POTENTIAL

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### HUB

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### ECONOMIC IMPACT

NA

### SPECIFIC KNOWLEDGE NEEDED

NA

### MOBILIZATION POTENTIAL

NA

### SUSTAINABILITY POTENTIAL - VALUE

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### EASE OF IMPLEMENTATION

Difficult: a lot of climate and soil data to integrate

### EASE OF IMPLEMENTATION - EVALUATION

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### KEY PREREQUISITES

Association, organization of meeting days, responding to the NA

### TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED

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### JOB EFFECT

NA

### COSTS OF IMPLEMENTATION ( EURO - € )

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## MORE DETAILS

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### CHALLENGE ADDRESSED

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### DOMAIN

Forest management, ecosystem, resilience

Forest disturbances, risks

### TYPE OF SOLUTION

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### KEYWORDS

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### DIGITAL SOLUTION

No

### INNOVATION

Yes

### COUNTRY OF ORIGIN

France

### SCALE OF APPLICATION

National

### START AND END YEAR

2018 -

## CONTACT DATA

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### OWNER OR AUTHOR

### REPORTER

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## REFERENCES AND RESOURCES

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### MAIN WEBSITE

<https://www.ademe.fr/insense-indicateurs-sensibilite-ecosystemes-forestiers-soumis-a-recolte-accrue-biomasse>

### RESOURCES

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### PROJECT WEBSITE

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### PROJECT REFERENCE

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## PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood

## POST DATE

27 Sep 2019

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## A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

