


Description of innovation

Innovation	
Title	ForestMap
Picture	
Domain	Remote Forest Inventories
Source of wood	Above and below ground woody biomass
Location	Spain
Implementers	Agresta S.Coop
Actual status	Running
Approach	<p>ForestMap is an e-commerce platform that allows users to make reliable and on-line forest inventories of a specific area in a rapid and simple way. It estimates all relevant variables included in a professional forest inventory through combination of pre-processed remote sensing data and powerful predictive models. ForestMap intuitive interface allows anyone to automatically generate forest inventories of a chosen area without the need of field work and unnecessary delays. ForestMap is an unprecedented solution that delivers accurate, quick and cost-effective forest inventory reports.</p>
Main results	<p>ForestMap has a positive impact for a major mobilisation of wood resources allowing forest-owners, operators and industries to assess stands in an easy and remote way. ForestMap is able to provide valuable reports on demand.</p> <p>An operative version of the web platform (link) is working for 10 provinces in Spain, that covers more than 3 mio. ha.</p> <p>ForestMap models showed a high performance in terms of accuracy (volume BIAS< 20%) and response times being able to produce a full inventory of less than 500 ha in minutes.</p> <p>ForestMap has been used to produce tailor-made products for specific uses and clients, based on innovation projects:</p> <ul style="list-style-type: none"> -Tool for calculating (link) the amount of carbon in forest masses in the province of Bizkaia (Basque Country, Spain). -Inventory mapping of fuel models tool and for the prevention and management of forest fires in La Rioja (link).
Lessons	It is necessary to integrate a maximum of information sources to

learned	generate the most accurate, complete and updated inventories possible: LiDAR, satellite, photogrammetry, available terrain data... Stakeholders in the forestry sector are not used to working with technological tools, so it is important to do important demonstration work and support.
Contact information	dgarcia@agresta.org
Link to website	https://forestmap.es/en/
Code	INNO_ES_05

Innovation assessment

Region	Spain
Time scale	2018 -
Mobilization Potential	Unknown
Kind of wood concerned	All kind of wood
Sustainability Potential	Very positive
Impact on environment & biodiversity	Positive
Ease of implementation	Easy, basic digital skills
Economic impact	Positive - better knowledge about harvestable wood potential
Job effect	Positive – better valorization of available wooden resources
Income effect	Positive – better valorization of available wooden resources
Specific knowledge needed	Very high skills and knowledge in remote sensing, forestry and software development
Costs of implementation	300.000 - 1.000.000 €
Technical readiness level	Immediately applicable
Key information for adoption	to know its existence