

SPACEBEL, a leading space company active in Earth Observation Applications

SPACEBEL is a software engineering company operating in the Space infrastructure and Earth observation applications sectors.

Relying upon our long-standing expertise, we offer value-added Earth observation services and consultancy to public and private organizations for optimized management of forests, agriculture and soil movements.

Our Earth observation services are based upon automated processing of optical, radar and hyperspectral satellite images and thematic mapping. Our technologies use geospatial and statistical analysis methods as well as machine and deep learning algorithms.

OUR PRIORITY: OUR CUSTOMERS

Customer satisfaction is our top priority, hence our continuous strive for quality, excellence and long-term commitment.

Our earth monitoring applications for the forestry sector address several stakeholders:

- Public forest managers
- Private forest owners
- Forestry experts
- Wood industries



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OVANNI



SERVING FORESTRY WITH GEOSPATIAL INFORMATION

DYNAMIC MONITORING SOLUTIONS FOR SUSTAINABLE FOREST MANAGEMENT

www.spacebel.com

UNDERSTANDING THE IMPORTANCE OF DYNAMIC FOREST MONITORING

In the current context of climate change and the loss of biodiversity, sustainable forest management has become a crucial challenge.

At local, regional and national level, forest management involves environmental, economic and social implications.

High-performance monitoring systems offered by SPACEBEL can help national and regional authorities, industries and private owners to improve their forest management practices.

Through the collection and analysis of satellite data combined with field information, we assess species inventories and their change over time (cuts, diseases, wind damage).

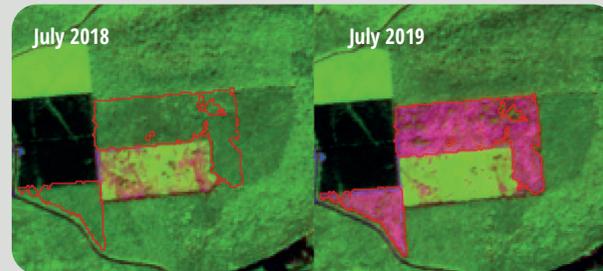
OUR FOREST SERVICES IN A NUTSHELL

Our dynamic monitoring services include :

- Forest type differentiation (deciduous / coniferous)
- Tree species identification
- Assessment of vegetation changes (deforestation, degradation, fires, diseases)

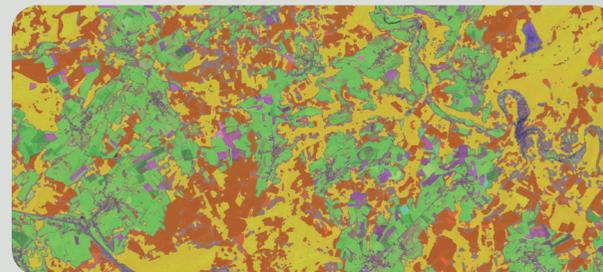
Our dynamic forest monitoring tool provides a technical and scientific framework for the provision of forest services based on geospatial and Earth observation data in different ecosystems around the Planet from temperate to tropical forests. The services are based on the use of multi-temporal images (the SENTINEL-1, SENTINEL-2 images of the European Copernicus program) in combination with reference data collected in the field in collaboration with local partners.

For services requiring higher resolution input data, Very High Resolution (e.g. Pleiades) satellite data are used.



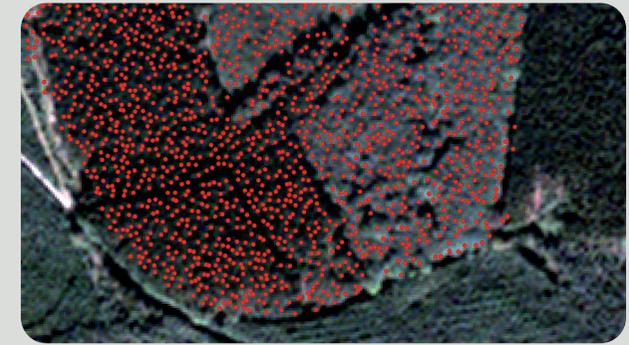
Clearcuts between July 2018 and July 2019

- Clear cut delimitation



Deciduous/Evergreen mapping

- Deciduous
- Coniferous
- Confusion / mixed



Estimation of tree densities

- Detection of individual trees

OUR ASSETS : FROM CUSTOMIZATION TO A DEDICATED MARKETPLACE

Your guarantee of quality : our forest monitoring services are validated through field measurements and testing.

Looking for a tailor-made solution ?

Do not hesitate to contact us to discuss together your specific needs or requests : EOservices@spacebel.com

Our forestry services are available on the EORegions platform ! : the marketplace dedicated to sharing and marketing Earth observation services.

www.eoregions.com

