Use our technology resources to manage the production chain and monitor your plantation.

**Industries**

- Paper, Pulp and Energy Forests
- TIMOs, Asset Managers and Cooperatives
- Wood Producers
- Sawmill and Wood Panels
- Native Forest
- Nursery

**Technical Features**

We search, innovate and bring to you quality solutions.

Our systems are provided in the WEB platform to be accessed from any place with internet, with flexibility to do parameterization of yours company business rules. It can be used the infrastructure available in your company or use it in the cloud.

They are multilanguage and multiuser with possibility to create profile rules and different access credentials. Allows data extraction through several reports, cubes and Excel spreadsheets.
Plan and control all stages of the productive chain monitoring physical and financial variables

Simulate scenarios, set targets, calculate costs, compile incomes and generate performance kpi’s

INFLOR is the leader on the market for Forest Management systems

Complete technology dedicated on bio-asset management
System in Mobile Devices

Solution Benefits
Access areas, maps and operation information directly in the field

- Agility in the data collection in the field, whether for own or outsourced operations;
- Reporting errors elimination because the data is inputted directly in the app, without paper filling;
- Validation errors anticipation because execute several validation to prevent inconsistency information get to the office;
- Improvement in the office and field communication. All programming is downloaded to the app, this way there will not have questions about what needs to be done, ensuring the goals are clear for all the team;
- The use of advanced data transmission techniques between the team devices allows the number of smartphones with internet access to be reduced considering the others devices will receive from these smartphones the needed data updates;
- Operation without the need for constant connection (offline). This way the user can register all needed data and then synchronize whenever there is internet connection or other smartphone with internet access;
- Information at any time in the palm of your hand. Visualization of management and indicators in the smartphone, allowing the decision making to be fast and effective. These information, once synchronized with the smartphone, can be consulted even with no internet connection.

Main Functionalities

In the seedling nursery
- Batch classification and separation of it;
- Seedling movement by location;
- Expedition control.

In the inventory
- Collection programming download;
- Collection of variables defined by type;
- Validation of collected variables limits.

In roads construction
- Registration of construction and maintenance roads operations;
- Registration of used resources such as equipment, labor and material;
- Registration of signaling;
- Control of worked hours for payment or generation of production, mechanical availability and operational efficiency indicators;
- All information inputted in the smartphone is georeferenced. This way it is possible to cross data to know, for example, if the report of operation were made close to the indicated location.

In silviculture
- Registration of operations, whether own or outsourced;
- Registration of used resources such as equipment, labor and material;
- Control of worked hours for payment or generation of production, mechanical availability and operational efficiency indicators;
- All information inputted in the smartphone is georeferred. This way it is possible to cross data to know, for example, if the report of the operation were made close to the indicated location.
- Validation of the worked area so the user is not able to report more than the area of the stand;
- Control of reported resources by tolerance ranges. This type of validation allows reports to get to office previously validated in the acceptable limits.

In harvest
- Download of operational programming, which contains activities to be executed and the location;
- Visualization of the harvest sequence in maps;
- Operations report;
- All information inputted in the smartphone is georeferred. This way it is possible to cross data to know, for example, if the report of operation were made close to the indicated location;
- Report by amount of tree for cut and amount of travels for forwarding;
- Control of harvest machines fuel supply;
- Production control for operation, mechanical and administrative downtime registration for posterior productivity, mechanical availability and operational efficiency calculation;

In logistics
- Registration of the truck’s load in the field through a smartphone;
- Registration of the truck’s unload in the destination deposit or mill;
- Quality control of the load and truck through the filling of a pre-defined form;
- Registration of events related to the trip, such as accidents, equipment break, road block stopping the continuity of its movement until the destination;
- Control of the driver’s shift.

In quality inspection
- Validate if the amount of collected samples is according to the configuration of the form, defined by the quality team for data collection in the field;
- All information inputted in the smartphone is georeferred. This way it is possible to cross data to know, for example, if the report of operation were made close to the indicated location.

In approval control
- Download of all possible approval items. Examples: operations, payment, work orders, etc;
- Approval works offline and is georeferred. This way, in case of operations approval it is possible to indicate to the system to block approvals in case the user is not in an X meter radius from the location where the operation were executed.

In maps, events and reports
- Maps offline;
- Any information of the management system that has relation with the area that is desired to be consulted can be accessed through the smartphone by clicking in the map of the location. Examples: operations executed in the location with individual amount and cost, complete description of the location, city, responsible manager, estimated cost by hectare, executed cost by hectare, among others;
- Registration of events in the field such as fire, theft, damage by frost, wind, etc. User can configure which types of events that can be registered;
- Availability of theme maps to facilitate the area identification according to a characteristic. Examples: area where there was a higher investment and areas where happened a most immobilizing resources;
- Routing through navigation functions common in car GPS, it is possible to navigate through the controlled areas of the company, just inform the user where he want to go.

In management panels
- Visualization of variables process indicators controlled by the system;
- Option to visualize offline or online indicator, with data updated instantly if exits an internet connection;
- Possibility to save and freeze the position of the indicators with the inclusion of comments for latter consult with operational team.
Technical Features

We search, innovate and bring to you quality solutions

INFLOR mobile applications were developed using the “user-friendly” concept, meaning, application with a friendly layout easy to use.

A great advantage in our application is that it runs without the need of a constant connection to the internet, allowing the record of information occurs and later, when an internet connection is available, these data registered in the mobile are sent to the main server.

There is also the possibility of geographical coordinates registration, allowing information to be spatially evaluated.

Information restricted access by user. Some user can have access only to some regions or functionalities.

Frequent Doubts

How the software update works?
For the solution in the Android platform, all updates will occur through Google Play store, being necessary to do the download and installation. For the Windows mobile solutions, the updates are available for the client’s IT team.

Do I need internet connection to use the app?
To use the application there is no need for a constant internet connection or company network. This access will be required every time there is a need to synchronize data (from the app to INFLOR Forest/Agri or in the opposite direction).

Do I need to do a backup of the data inputted in the mobile devices?
There is no need to do backup of the information inputted in the apps but it is essential to maintain a synchronization routine of these data with INFLOR Forest/Agri. This routine, besides generate more agility in the availability of the data for follow up of the operations in the field, will also ensure the inputted data is available in the corporate solution.

Can I use the application in smartphones and tablets?
Solutions developed in the Android platform can be used in both smartphones and tables. Windows mobile solutions depends on this operational system, that might be embedded in data collectors devices or even tablets that use it.

How does occur the communication between the mobile solution and the INFLOR Forest/Agri?
INFLOR developed a solution called HUB. This solution has as its main objectives to provide connectors for the mobile devices or embedded in equipment from the most variable types, centralize authorizations / integration access and maintain a traffic information log.

Our mobile solutions connect with this HUB through web services and from this HUB, data is integrated to the INFLOR Forest/Agri.
Solution benefits

- Land use control identifying plantation, vegetation, fire line, riparian forest, legal reservation, permanent reservation and other uses areas;
- Increase of the operational productivity through land use’s occupations hierarchy control integrated with georeferred information;
- Stratification of forest costs providing greater visibility of the production by grouping the stands by any variable that is forestry register interest.
- Cost reduction in the operation avoiding improper payment problems by area/polygon overlap and/or municipality tax;
- More agility and optimization of the geographical information analysis processes;
- Productivity gains with the increase of the traceability of forest projects history;
- Operational efficiency optimization with the treatment of the field occasions with more visibility of the events from the forestry register;
- Possibility of spatial analysis, planning and topological validations.

Main Functionalities

- Control of forest base area through topological analysis;
- Integration with Silviculture and Harvest modules to automatize the cycle turn and filling of plantation and cut values;
- Creation of forest stratum for productivity and prescription parameterization;
- Forestry register records mass update;
- Generation of a monthly consolidated base to management and external reports and safety copies;
- Update and validation of cartographic base;
- Visualization of spatial history;
- Publication and visualization of maps created by the user;
- Map to plan harvest sequence;
- Management and operational information as a theme map;
- Collection and availability of field information and routing.
Solution Benefits

- More assertive production planning through the integration with plantation demands planned by silviculture module;
- Effectiveness gain with the follow-up and operations scheduling at the correct moment, according to each genetic material;
- Stock traceability in the several nursery locations;
- Flexibility in the movement registration allowing to inform the amount of moved trays or seedlings.

Main Functionalities

- Seedling batch generation;
- Seedling selection registration;
- Expedition registration;
- Supply and demand control;
- Stock control;
- Nursery products;
- Clonal garden;
- Phase survival configuration;
- Silviculture demands import;
- Indication of genetic material recommendation for plantation;
- Production goal simulation;
- Daily production follow-up;
- Rooting indexes follow-up.
Roads

Solution Benefits

- Control tasks needed to open, construct and maintain main, secondary and fire line roads, making viable the trafficability of machinery and vehicles in a continuously, fast and secure way;
- More predictability of resources demands in the case of enlarging the forestry base;
- More predictability between estimated and executed costs, through the consolidation of activities and its equipment, separating it by administrative or regional units;
- More control and traceability of prices, through the history of purchase and service delivery contracts.

Main Functionalities

- Budget, program, order and control roads operations, calculation real and estimated productivity as well as material and equipment allocation;
- Allow the follow-up of the operational plan maintaining the history of generated budgetary reviews;
- Productivity and price tables to simulate scenarios;
- Release of activities for outsource report and approval and payment control, drawing performance and productivity indexes;
- Allows the configuration of activity cost allocation according to the needs of the company.
Silviculture

Solution Benefits

- More assertiveness in the strategic decisions through the generation of analysis productivity and cost production information for each administrative unit;
- Flexibility of the production process given the possibility of stand projection, making them available for silviculture activities, even the ones where the harvest or transport is not completely done;
- More visibility between estimated and executed costs through the consolidation of them by administrative unit;
- More control and traceability of prices, through the history of purchase and service delivery contracts.
- Optimization of silviculture operations logistics through georeferenced concepts and tools.

Main Functionalities

- Budget, program, order and control silviculture operations, calculating real and estimated productivity as well as material, labor and equipment allocation subsidizing the negotiation with clients and suppliers;
- Allow the follow-up of the operational plan maintaining the history of generated budgetary reviews;
- Release of activities for outsource report and approval and payment control, drawing performance, productivity and gap between activities indexes;
- Detail immobilization of the forestry cost separating formation and maintenance costs associated to depletion;
- Integration between harvest planning and planting;
- Integration with specialist systems of fertilization recommendation, ant combat and control and weed monitoring;
- Prescription, productivity and price tables to simulate scenarios.
Solution Benefits

- Flexibility is the main characteristic, qualitative or quantitative and processing collect variables, models and graphics parameterized;
- Automation of processes that simplify the daily tasks; Attributes classification, stratification and inventory processing are automatized through rules previously defined according to the need that;
- Reliability and productivity in the data collect through a data collector device which allows an activity and consistencies standardization that minimize rework in the field;
- Fast and accurate planning is reached by GIS integration and flexible rules by inventory type.

Main Functionalities

- Attributes configuration to automatically generate the stratification;
- Field, processing and growth validation, change in tree classification between measurement, value limits of stratum and error/warning classification variables;
- Use of GIS tool integrated for portion release and inventory result obtainment;
- Automatic generation of programming based in the prescription configuration;
- Variables flexibility to collect data in the field;
- Integrated data collector;
- Models and equation configuration for processing;
- Volume and regression models to adjust volumetric models;
- Processing of different volumetric and hypsometric models, besides assortment, prognosis and volume processing.
Partnership/Contract and Land Management

Solution Benefits

- Enables viability analysis and internal return rate (IRR) according to the desired contracting model;
- Management of contracts drafts. The drafts is transformed in templates with the contracts being automatically generated by the system;
- Control of supplier’s debt centralizing all advance, payment or receipt to the supplier in one place, being able to check the contract extract at any time;
- Safety control the fulfillment of contracts obligations;
- Automatic calculation of wood purchase through the integration with transport system to receive wood and integration with supplier debt executing the debt discount and calculating the amount to be paid. Possibility of bonus calculation.
- Minimization of tax assessments risks by unconformities generated related to legal demand of environmental agencies;
- Cost reduction related to overpayments of taxes and fees related to land property documents;
- More traceability of the history of a property succession chain.

Main Functionalities

- Land control;
- Legal and non legal contracts control;
- Internal return rate (IRR) calculation;
- Electronic input of contracts and contract additives;
- Budget control;
- Master plan of programmed activities and material (prescription) during the years of forest formation;
- Contract management through the requests in the contracts and electronic control of additives such as extension period, exchange proprietor, area change, dissolution, among others;
- Advance payment, financial and material control;
- Approval workflow;
- Wood delivery timetable;
- Producer / Investment Banks debt control;
- WEB Portal with contract extract (access for the producer);
- Integration with GIS module;
- Allows integration with Real Estate (RE-FX) SAP ERP module;
- Property prospection;
- Property registration control;
- Succession chain control;
- Legal and property titration process;
- Contracts (Partnership, lease, purchase, servitude, exchange, rent, lending and others).
Harvesting

Solution Benefits

- Productivity, efficiency and availability gains by indicators and possibility to extract the main causes of operational inefficiency;
- Cost reduction by non-programmed changes once being possible the definition and clear visualization of the budgetary harvest sequence considering its direct and indirect costs;
- More predictability of the wood supply plan operations through the harvest programming by prescription, operations standard and work orders;
- Stock management, real and adjusted production as the information is inputted in the system and the operational calendar is closed, consolidating the information and making impossible the input of information in closed periods;
- More budgetary control, consolidated and independent of the administrative unit;
- Team distribution efficiency increase through the operations sequencing according to the distance and drying curve considering the forest productivity;
- Planning and cost reduction with the purchase and machine contract or team redistribution need estimated.

Main Functionalities

- Harvest systems and activities configuration;
- Activities group and interdependence configuration;
- Definition of monthly demands (road and field stock, wood yard stock, purchase information, partnership and other deliveries);
- Update of executed data (rolling forecast);
- Determination of restrictions such as hours, resources, holidays and productivities;
- Production and supply simulation considering stock, capacity and demand restrictions;
- Result analysis – graphics and numeric data of the simulation;
- Integration of the result with Harvest, Silviculture and Transport budget;
- Import of the harvest annual cut plan sequence;
- Harvest sequence update;
- Harvest fractionation (monthly harvest vision and mixed cut);
- Read of inventory data and providing of official inventory number;
- Adjustment of operated and downtime hours and volumes;
- Production and stock adjustments according to pre-cut inventory and/or volume delivered at the mill or in wood yard patios by transport or operations;
- Productivity, mechanical availability and operational efficiency indicators;
- Stock vision by harvest stages (felling, forwarding and processing);
- Payment calculation;
- Integration with ERP systems to input production and/or payment.
Solution Benefits

- Operation control flexibility in several models;
- Operational efficiency gain through the programming and freight reprogramming monitoring based in characteristics;
- Productivity gain due to the integration with measurement systems;
- Fiscal suitability to special regime available for the company by the government and payment of forest fees.
- Chain of custody continuity until the delivery of the wood in the destination, knowing the percentage and volume of each origin;
- Uninterrupted operation guarantee in extreme cases through the offline module functionality to issue the special regime document or invoice in contingency mode;
- Total traceability of the wood origin controlled through the wood yard panel that offers in a detail form the information of stored wood;
- Establishment of monthly and daily goals through the integration with annual supply plan;
- Easy search of the pile characteristics through the presentation of the panel with values classification;
- Decrease of stay expenses through the control of permanence of trucks at the mill using a visual monitor;
- Pile and wood yard vision through simple reports and visual monitors;
- Piles snapshots history are taken from the piles, registering its cycle. There so it is possible to know how was the pile in a given past moment.

Main Functionalities

- Integration with measurement systems (Scale, Pivotex, Logmeter);
- Wood yard automation;
- Transport routes and deviation definition;
- Vehicle control: registration, inspection, stay and block;
- Issue of wood transport note (special regime) and invoice;
- Status control of vehicle maintenance;
- Treatment of wood type: Own, partnership or outsource;
- Unit conversion routines;
- Wood sampling control;
- Cerflor and FSC stamp tracking;
- Custody chain management;
- Follow-up reports;
- Transport programming and payment (suppliers and forest fees);
- Wood yard stock control;
- Stay payment;
- Pile status control (empty, emptying, filling, filled);
- Pile history; Operational indicators (consumption, mill receiving, average distance, average time, stock, mix);
- Management (production, time, people, financial, machine and fiscal).
Cost Management

Solution Benefits

- More visibility of all forest budget as well as the follow up of its execution and possible deviations;
- Important source of information to assist the management decision making;
- Visibility of formation and stratification of production costs allowing to check bottlenecks or distortions in the wood cost formation;
- More control and safety in the appropriation and depletion of the costs in the biological assets;
- Elimination of risks of differences between the georefered and biological asset defrayal structure seen that modifications in the georefered base such as patching and expropriation of land will always reflect in costs;

Main Functionalities

- Cost budget elaboration for all forest chain process covering nursery, silviculture, harvest, logistics, roads and others processes;
- Comparison between budget and executed costs and its deviations in all forest process;
- Follow-up of the biological asset balance evolution;
- Stratification defrayal for the analysis of the cost formation origin;
- Cost analysis by operational phase and forestry module;
- Cost control by several levels of the forestry register and management levels;
- Cost control of own activities or outsourced;
- Modifications executed in areas reflect automatically in the costs of the biological asset, showing all cost traceability and maintaining the same formation origin of it;
- Possibility of partial depletion, maintaining part of the asset in regeneration management;
- Apportionments of costs through consolidators objects such as cost centers and orders, with parameterization possibility of different apportionment criteria;
- Manual cost transfer to reflect non programmed changes resulting from asset loss, for example in fire;
- Biological asset cost depletion based in the volume taken from forest;
- Cost provisioning and deferral that need cost distribution incurred in the accounting period of the launch;
- Possibility to integrate with corporative financial accounting.
Solution Benefits

- Allows to analyze in a critical way the data collected by the climate stations allowing the decision making of forest management areas to be influenced by climate variations;
- Ensure the consistency and correction of the collected data in a way to eliminate manual validation work, that besides costly is inaccurate;
- Flexibility through a series of configurations, the system evaluate and treat imported data in a transparent way for the user and still makes possible the send of alert notifications.

Main Functionalities

- Registration of climate measurement and pluviometric variables;
- Generation of climatological calculation;
- Register of monitoring climate stations;
- Data registration for validations of consistency;
- Measurement equipment registration;
- Registration of the data collect by the climate station through and interface;
- Validation of the loaded records and treatment of it;
- Fire risk report.
Research and Genetic Material

Solution Benefits

- Productivity gain through the assertiveness in clones recommendations by year and silviculture operational plan;
- More control in the in and out genetic material movements by operation type;
- Productivity gain elevation by controlling the genetic material cross;
- More traceability of the genetic material batches movements by type in all productive chain.

Main Functionalities

- Registration and control of genetic material;
- Genetic material origin control;
- Stock control;
- Cross control;
- Genealogical traceability;
- Collecting control
- Experiment registration;
- Experiment’s attributes definition;
- Experiment levels creation;
- Experiment’s evaluation determination;
- Planning to execute experiment measurement;
- Execution of experiment measurement;
- Data collector interface.
Wood Purchase

Solution Benefits

- Wood origin control being possible to demonstrate the feedstock traceability linked to sustainable management sources;
- Fiscal suitability to the requirements of invoice issue and taxes payment;
- Integration with accounting system (Bills / costs) and physical (stock);
- Allows financial advance and value compensation at the moment of the supplier payment;
- Payment conditions differentiated according to the needs of the company;
- Productivity gains by making possible the follow-up of invoice issue at real time;

- Allows the creation of several wood purchase modality such as wood purchase at the mil or standing wood purchase;
- Allows variable payment according to the forest productivity and actual volume calculation;
- Establishment of monthly and daily goals making possible to compare commercial volume, delivered and projection for delivery.

Main Functionalities

- Integration with measurement systems (Scale);
- Wood purchase contract with validity and prices;
- Differentiated modalities for wood purchase;
- Payment condition according to clients need;
- Financial advance and balance compensation for payment;
- Purchase order: supplier, period, receiving center and warehouse, price, material, freight, approval;
- Integration with accounting system (Bills / costs) and physical (stock);
- Vehicle control: registration, inspection, stay and block;
- Wood purchase invoice issue with triangular operation in or out the state of the issuer, for national and foreigners suppliers and possible cancellation of the invoice within each state deadline;
- Unit conversion routines;
- Traceability of origin of the purchased wood;
- Freight programming / payment (suppliers and forest fee).
Solution Benefits

- Productivity gain by making possible to follow-up the invoice issue in real time;
- Fiscal suitability to the invoice requirements of each state government and payment of forest fees;
- Chain of custody continuity until the delivery of the wood in the destination, knowing the percentage and volume of each origin;
- Uninterrupted operation guarantee in extreme cases through the functionality of invoice issue in contingency mode with the use of currency paper;
- Total traceability of the wood origin controlled through the wood yard panel that offers in a detail form the information of stored wood;
- Establishment of monthly and daily goals making possible to compare commercialized, delivered and the projection for delivery volumes.

Main Functionalities

- Integration with measurement systems (Scale);
- Sales order: client, period, expedition location, price, material, freight, approval;
- Vehicle control: registration, inspection and block;
- Wood sale invoice issue with triangular operation in or out the state of the issuer, for exporter client and possible cancellation of the invoice within each state deadline;
- Previously issued invoice correction letter and the disable of the value range of the invoice sequence that will no longer be used to issue;
- Receiving of weighing counterpart executed by the customer who made the purchase in order to maintain volumes/weights adjusted between sales and receiving according to the generated sales order and later information emission for duplicates generation and freight payment;
- Invoice supplement emission due to difference of the receiving weight measurement between destination and issuer;
- Packing list use for controlling operations within the farm, being the invoice issued when the truck arrives at the farm gatehouse;
- Control of the need to tare measurement;
- Unit conversion routines;
- Cerflor and FSC stamp tracking;
- Chain of custody;
- Freight programming / payment (suppliers and forest fee);
- Wood Output Control.
Sawmill – Production Control

Solution Benefits

- More assertiveness in the production planning through the integration with silviculture module projected planting demands;
- Effectiveness gain through the operations agenda follow-up and execution in the correct moments, according to each species;
- Stock traceability in the several sawmill locations such as sawn yard, finished product yard and greenhouse;
- Consumed log traceability through the generation of the custody chain;
- Package reclassification ease through its composition or dismemberment or due to a transformation after planing activity.

Main Functionalities

- Log batches creation;
- Package generation;
- Package movement registration such as packing, location changes, greenhouse transfer;
- Package reclassification;
- Creation and follow-up of client’s order;
- Registration of package’s expedition to clients;
- Stock control;
- Pieces standard sizes;
- Generated waste control;
- Chain of custody;
- Log quality;
- Package quality redefinition;
- Log consumption;
- Generated sawn report;
- Daily production report;
- Log productivity report.
Solution Benefits

- Traceability is the main characteristic it is possible to keep track of the log since its geographical position until its arrival at the sawmill;
- Reliability and productivity in the data collection which allows a standardization of the activities and consistencies that minimize field rework;
- Fast and accurate planning is reached by GIS integration and flexible rules that supports each activity planning.

Main Functionalities

- GIS tool use integrated for tree identification;
- Automatic activities programming generation through pre-set rules;
- Variables flexibility to collect data in the field;
- Field validations such as variable limits and intermeasurements validations;
- Error / warning classification;
- Integrated data collector;
- Models and equations configuration for processing;
- Complete solution since census to identify trees activity until log transport and arrival at the sawmill.
INFLOR in numbers

- First company in Systems for Forestry Management;
- Present across 4 continents;
- 80% Brazil market share;
- +12,000,000 hectares of forests managed by INFLOR’s solutions;
- +20 years of experience in forestry business;
- 2x received ASUS Impact Awards prize;
- Present in 7 of 10 bigger producers of eucalyptus fiber in the world.

High Performance in Bio-Asset Management

INFLOR is changing bio-asset management all over the world. Since its creation, we collaborate with who has the incredible mission to seed and harvest. Thus, there are more than 12 million hectares spread across 4 continents.

With a history of more than 20 years of experience, our solutions supports people in maximizing performance in forestry and agricultural assets, allowing companies and producers improve its profits through conscious use of natural resources and socioenvironmental respect. Its essence is transform technology in solid roots.