Our solutions support people in maximizing performance in forestry and agricultural assets, allowing companies and producers to improve profits through conscious use of natural resources.

Industries

Technical Features
We search, innovate and bring to you quality

Our systems are provided in the WEB accessed from any place with internet, with parameterization of your company. It can be used in the available your company or in the INFLOR cloud.

The solution is multilingual and multiuser, to create user profiles to manage different credentials. Allows data extraction through data 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 to bio-asset management.

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Mobile Device Apps

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;
- Errors reduction when inputting data, eliminating paper and retyping;
- Validation and anticipation of errors considering data validations occurring directly on the app, preventing inconsistencies;
- Improvement in the communication, office x field;
- All scheduled activities can be downloaded to the app, preventing questions during its execution and ensuring the goals;
- Allows Bluetooth communication, reducing the number of devices with internet connection needs;
- Offline operation allowing the users to register all data needed without an internet connection. The connection will be requested just to synchronize (download or upload) the data with the server;
- Information at any time in the palm of your hand. Visualization of management indicators in the smartphone or tablet, allowing the decision making to be fast and effective. This information, once synchronized with the device, can be consulted, even with no internet connection.

Main Functionalities

In nursery
- Batch classification and selection;
- Seedling movements by location;
- Expedition control.

In forest inventory
- Data collection scheduling;
- Collection of variables defined by type;
- Validation of collected variables limits.

In roads construction/maintenance
- Registration of the operations for roads construction or maintenance;
- Registration of used resources such as equipments, teams and materials;
- Registration of signaling;
- Control of worked hours for payment purposes or production evaluation;
- Mechanical availability and operational efficiency indicators;
- Georeference to evaluate if the reported operation was performed on the correct location.

In silviculture
- Registration of operations, whether own or outsourced;
- Registration of used resources such as equipments, teams and materials
- Control of worked hours for payment purposes or production evaluation;
- Mechanical availability and operational efficiency indicators;
- Georeference to evaluate if the reported operation was performed on the correct location.
- Validation of the amount of hectares or acres scheduled. The user is not able to report more than the planned area for the stand;
- Control of reported resources by tolerance ranges. This type of validation allows the data get to the office previously validated, in the acceptable limits.

In harvest
- Download of operational program, which contains activities, scheduled dates, location, and the resources involved on the harvest operation;
- Visualization of the harvest sequence in maps;
- Operations registration;
- Georeference to evaluate if the reported operation was performed on the correct location;
Operations registration by amount of trees harvested, amount of travels for forwarding, or slashed logs;
Production control for operations, mechanical and administrative downtime. It allows the evaluation of the equipment productivity, mechanical availability and operational efficiency;

In logistics
- Registration of the truck’s load in the field through a smartphone or tablet;
- Registration of the truck’s unload in the destination deposit or mill;
- Quality control of the loads and of the trucks, through pre-defined forms;
- Registration of events related to the trip, such as accidents, equipment break, road block, that can stop the continuity of the wood supply;
- Control of the driver’s shift.

In quality inspection
- Validate if the amount of collected samples is according to the configured form, defined by the quality team;
- Georeference to evaluate if the reported data was collected on the correct location;

In the approval control
- Download of all possible approval items. Examples: operations, payments, work orders, material consumed, etc;
- Approves the operations reported in a offline way and having the georeferenced information to support your decision. In this way, in case of operations approval, it is possible to indicate buffer zones to allow the approval just when the user got to the location where the operation was performed.

In maps, events and reports
- Maps offline, efficient data collection, reduce paper forms, works anywhere and improve the data accuracy;
- Any information from the INFLOR Forest can be linked to the maps using data cubes. The data can be filtered desired areas and can be accessed through the smartphone by clicking on the maps shared. Examples: operations performed in the location with individual costs, materials consumed and equipments, complete identification and attributes of the location, responsible manager, estimated cost by hectare, among others;
- You can define specific workflows and data forms to collect data in the field. These data can be related to forest events such as damages caused fire, frost, wind, and others like wood theft, etc.;
- The GIS users can share any theme map created to support field operations, inspections or validation;
- Routing through navigation functions, similar to car GPS, allowing the user to navigate through the controlled areas of the company.
Technical Features

We research, innovate and bring quality solutions

INFLOR mobile applications were developed using the "user-friendly" concepts, focused in the user experience and taking all feedbacks received into consideration. All of our mobile apps work offline, allowing the users to register their information in the field and, when an internet connection is available, the data is synchronized back to the servers. Security policies can be applied to the mobile users, filtering or restricting the access to specific data the user has rights to access and to specific features the user has rights to access as well. The mobile apps can record the geographical positioning during its operation, allowing the user to evaluate the reported information spatially, after received in the servers.

Frequent Asked Questions

How does the software update works?
The Android-based apps receive its updated through the Google Play Store. Customers, which uses Windows-based apps, will receive new versions through the company IT team and this team will be responsible to deploy the application to the users.

Do I need internet connection to use the apps?
To use the application is not required to have a constant internet connection. This connection will be required just to synchronize data from the app to INFLOR Forest 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 a backup of the information inputted in the apps but it is essential to maintain a frequent synchronization routine of these data with INFLOR Forest. This routine, besides to generate more agility in the availability of data to follow up the operations in the field, will also ensure the inputted data is available in the servers.

Can I use the application in smartphones and tablets?
Android-based apps can be used in both devices. Windows-based apps will depend on the operational system used on that.

How does occur the communication between the mobile solutions and the INFLOR Forest?
INFLOR developed a solution called HUB. This solution provides connectors for the mobile apps, centralizing authorizations and integration access, maintaining a traffic information log between the devices and the servers.
Solution benefits

- Land use control identifying productive areas and its status, if planted, available to harvest, available to plant and other kind of classification, such as fire breaks, protected areas, legal or permanent reservations, water, and others;
- Stratification of the forest, providing greater visibility of the production and costs by grouping the stands using any variable available in the forest register.
- Prevent improper allocation of costs considering that the operations will occur in the mapped area, as stands, tracts, funds or others;
- Streamlines and optimizes the geographical information analysis;
- Productivity gains with the increase of the traceability of forest projects history;
- Operational efficiency optimization with the treatment of the field and forest events;
- Possibility of spatial analysis, planning and topological validations.

Main Functionalities

- Control of forest base through topological analysis;
- Integration with all operational modules of the solution to keep the status classification updated;
- Creation of forest strata to apply productivity and prescription parameterizations;
- Batch update for the forestry register attributes;
- Generation of a monthly consolidated database allowing historical traceability and comparison;
- Validation of the spatial database;
- Visualization of spatial history of changes;
- Publication and visualization of maps created by the user;
- Maps to support spatial planning;
- Management and operational information as a theme map;
- Collect data in the field, using predefined forms;
- Share maps and information to be consumed offline in the field;
- Routing features to use your device like a GPS, to navigate in your own/private roads.
Solution Benefits

- Integration with the plantation plan and plantation operations, to generate updated demand of seedlings/plants, considering scheduled dates, amounts, location and species/genetic material recommended;
- Effectiveness gain with the operations follow-up and operations scheduling to occur in the correct moment, according to each genetic material;
- Stock traceability in all nursery locations controlled;
- Flexibility in the movement registration allowing to inform the amount of moved trays or seedlings;
- Production traceability, including individual production.

Main Functionalities

- Seedling batch generation;
- Seedling selection registration;
- Expedition registration;
- Supply and demand control;
- Stock control;
- Nursery products;
- Clonal garden control;
- Survival rates configuration, by phase;
- Plantation demand integration;
- Indication of genetic material recommendation for a plantation;
- Production goal simulation;
- Daily production follow-up;
- Productivity indexes follow-up.
Roads

Solution Benefits

- Control tasks needed to open, construct and maintain roads to support the trafficability of machinery and vehicles in a continuously, fast and secure way;
- Predictability of resources demands;
- Predictability between estimated and performed costs, through the consolidation of activities and equipment used, splitting the information by the desired classification, such as by fund, by region, by stand, etc;
- Control and traceability of prices, through the history of purchases and services contracts.

Main Functionalities

- Budget program, planning, and control of roads operations, calculating the real and estimated productivity and material and equipment allocation as well;
- Allow the follow-up of the operational plan;
- Control the history of budget revisions;
- Capability to use distinct productivity and price tables/rates to calculate scenarios;
- Allow field teams or outsourced teams to report the operations in the field;
- Field reports approval and payment control;
- Performance and productivity indexes;
- Allows the configuration of cost allocation objects, according to the needs of the company.
Silviculture

Solution Benefits

- Assertiveness in the strategic decisions;
- Analysis of productivity and cost generated in the forest formation and maintenance;
- Costs and operational productivity information across multiple levels of detail such as by stand, tract, fund, administrative regions, etc;
- Possibility to plan and work with "projected" areas, which was not released by harvesting areas or in the purchasing process;
- Better visibility between estimated and performed costs across multiple levels of detail;
- Improve the control and traceability of prices and costs, through the history of purchases and service contracts.
- Optimization of silviculture operations and resource usage through planning and control tools.

Main Functionalities

- Budget program, planning and control of silvicultural operations, calculating the real and estimated productivity and resources usage;
- Allow the follow-up of the operational plan;
- Control the history of budget revisions;
- Capability to use distinct productivity and price tables/rates to calculate scenarios;
- Allow field teams or outsourced teams to report the operations in the field;
- Field reports approval and payment control;
- Performance and productivity indexes;
- Allows the configuration of cost allocation objects, according to the needs of the company;
- Generates information for biological asset maintenance;
- Possibility to integrate with other specialist systems to get recommendations for fertilization or pest control.
Solution Benefits

- Flexibility is the main characteristic of this solution;
- Create and configure templates to collect qualitative or quantitative data and process it using R statistical library, generating models and graphs;
- Modelling tools to create customized models for your plantations;
- Automate processes to simplify the daily tasks such as attributes classification, stratification and inventory processing;
- Reliability and productivity in the field data collection through a mobile app which improves standardization and consistencies, minimizing rework;
  - Fast and accurate planning through GIS tools;
  - Flexible rules by inventory type.

Main Functionalities

- Automatic strata generation based on attributes configuration;
- Inventory planning and teams allocation;
- Field data validation and processing;
- Growth and yield modelling;
- Growth and yield projection;
- Regression models to adjust volumetric models;
- Volumetric and hypsometric models;
- Integrated GIS tools;
- Integrated mobile app;
- Trees classification based on the data collected.
Partnership/Contract and Land Management

Solution Benefits

- Enables viability analysis and internal return rate (IRR) calculation, according to the desired contracting model;
- Manage your contract drafts and templates;
- Automatic contracts generation based on configurable templates;
- Control of supplier’s account centralizing all the advance payments;
- Monitoring of contractual obligations;
- Automatic calculation of wood purchase through the integration with logistic systems to receive the wood;
- Automatic calculation of payments, discounting the advance payments;
- Risks and costs reduction related to taxes payment and legal documentation;
- Traceability of the property history and 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;
- Plan of programmed activities and chemicals (prescription) during the years of the forest formation;
- Advance payment, financial and material control;
- Approval workflows;
- Wood delivery timetable;
- Land Owner / Producer debt control;
- WEB Portal with contract details available for the land owner / producer access;
- Integration with GIS tools;
- Allows integration with Real Estate (RE-FX- SAP ERP module);
- Property prospection;
- Property registration control;
- Succession chain control;
- Legal and property taxation management;
- Contracts management (partnership, lease, purchase, servitude, exchange, rent, lending and others).
Solution Benefits

- Productivity, efficiency and availability monitoring by indicators (yearly, monthly, weekly and daily, by team, by equipment or by machine operator);
- Clear visualization and comparison between the budget plan and the operational plan;
- Clear harvesting sequence, helping the user to address unplanned changes with less impact;
- Prediction of the wood supply plan and its operations through the harvest programming;
- Field stocks management, considering all product generated;
- Management of the budget, costs, productivities, and stocks by administrative regions and/or by property;
- Team distribution support through the sequencing of the operations, according to the distance, drying curve, and considering the forest productivity;
- Integrated with the inventory module, keeping the estimated volume updated based on the harvesting plan;
- Possibility to capture the production information directly from the production files generated on the machine’s computer;
- Mobile app available to report the harvest operation and its production in the field.

Main Functionalities

- Harvest systems and activities configuration;
- Activities group and interdependence configuration;
- Definition of demands by destination and per month;
- Definition of the stock policy (field stock, roadside stock, mill yard stock, etc) by product; Definition of supply goals for purchase or partnership contracts;
- Updated projection of the plan based on the performed operations and operations to perform (rolling forecast);
- Restrictions definition such as hours, resources, holidays and productivities;
- Production and supply simulation considering stocks, capacity and demand restrictions;
- Result analysis based on graphics and numeric data of the simulation;
- Integration between Harvest, Silviculture and Logistics budget and operational planning;
- Harvest fractionation (monthly harvest vision and mixed-cut);
- Inventory data integration providing official inventory numbers for the harvesting team;
- Adjustment of operated and downtime hours and volumes;
- Production and stock adjustments according to pre-harvesting inventory and/or the volume delivered at the mill yard or wood yard;
- Productivity, mechanical availability and operational efficiency indicators;
- Stock vision by harvest stages (felling, forwarding, and processing);
- Integration with ERP systems.
Solution Benefits

- Flexible operating model, allowing distinct logistics modals;
- Improved operational efficiency through logistics program;
- Integration with measurement systems (scaling, scanners, and others);
- Fiscal documents issuing in the same platform, to support the product transport;
- Chain of custody monitoring until the delivery of the wood in the destination, knowing the percentage and volume of each origin;
- Uninterrupted operation guaranteed through offline features to issue the fiscal documents in a contingency mode;
- Total traceability of the wood, since its origin, controlling each pile through a visual wood yard panel that offers detailed information regarding the stored wood;
- Establishment of monthly and daily goals through the integration with annual supply plan;
- Easy access to the wood characteristics, including the mixing of products presented in a same pile;
- Generation of logistic indicators such as transport distance, equipment usage, transport cycle time, and others;
- Expenses reduction through the control of trucks permanence at the mill, using a visual dashboard;
- Snapshots of wood piles history, allowing you to evaluate the pile cycle.

Main Functionalities

- Integration with measurement systems (Scales, Scanners, Archimedes, and others);
- Wood yard automation;
- Transport routes and deviation definition;
- Issuance of fiscal documents;
- Status control for vehicles and loadre cranes;
- Treatment of wood type: Own, partnership, outsourced, and other;
- Unit conversion routines (tons, m³, stereo, etc);
- Wood sampling control;
- Certified wood tracking;
- Custody chain management;
- Follow-up reports;
- Logistic program and payments;
- Wood yard stocks control;
- Wood pile status control (empty, consuming, filling up, full);
- Wood pile cycles history;
- Operational indicators (consumption, mill receiving, average distance, average time, stock, mix);
Costs Management

Solution Benefits

- Visibility of all forest budget, operational program execution and possible deviations;
- Single source of information to support the decision making;
- Visibility of formation and forest maintenance costs, allowing you to identify distortions in the wood cost formation;
- Better control in the appropriation and costs depletion;
- Costs integrated with the forest movements, such as splits and merges, keeping the costs updated and tracking the changes;
- Possibility to connect the costs module to the company’s ERP to allocate indirect costs as needed.

Main Functionalities

- Biological asset balance evolution;
- Costs stratification at the maximum level of detail, allowing analysis, grouping and evaluation of the costs formation;
- Cost analysis by forest phase;
- Cost control by several levels of the forestry register and management levels;
- Cost control for own activities and outsourced;
- Costs traceability, including changes made in the forestry register;
- Possibility of partial depletion, maintaining part of the asset for the next cycle;
- Apportionments configuration based on the criteria defined by the Company, using cost center, investment orders, or others;
- Manual cost transfer to reflect non-programmed changes, that can result in an asset loss, such as fire, wind or other forest damages;
- Biological asset cost depletion based on the volume harvested;
- Cost provisioning or deferral which needs distribution in the accounting period;
- Possibility to integrate with corporate financial accounting.
Climatology

Solution Benefits

- Allows to analyze in a critical way the data collected by the climate stations supporting the decision making;
- Ensure the consistency and correction of the collected data to eliminate manual validations;
- Flexibility to configure the station data;
- Generation of fire risk alerts.

Main Functionalities

- Climate and pluviometric variables register;
- Generation of climatological calculations;
- Climate stations register;
- Data consistance validations;
- Climate station data import;
- Fire risk report;
- Climatology reports.
Research and Genetic Material

Solution Benefits

- Productivity increase with the correct recommendation of the genetic material to be applied, according to the plantation establishment plans;
- Improves the control of the movements of the genetic material;
- Controls the crossing of genetic materials;
- 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;
- Genetic material crossing control;
- Genealogical traceability;
- Collecting control;
- Experiment registration;
- Experiment’s attributes definition;
- Experiment levels creation;
- Experiment’s evaluation;
- Planning to execute experiment measurements;
- Execution of experiment measurements.
Solution Benefits

- Follow-up the invoices issuing in real-time;
- Fiscal suitability to the invoice requirements of each state government rules;
- Traceability of the chain of custody, until the timber is delivered to its destination;
- Allow you to keep your operation through offline features, issuing the invoices in a contingency way;
- Traceability of all the information related to the timber, controlling all the steps through a visual wood yard panel, offering detailed information about the characteristics of the wood;
- Establishment and follow-up of sales goals, allowing you to compare what was planned, what was achieved and the sales projection.

Main Functionalities

- Integration with measurement systems (Scale, and others);
- Sales order: client, period, dispatch location, prices, products, freight fees, approvals;
- Vehicle control: registration, inspection and block;
- Timber sale invoice issue;
- Previously issued invoice correction;
- Adjustment of the weight and volumes sold, based on the measurement made by the customer (data import features);
- Supplementary invoice issuing;
- Control of the truck's weight (tare weight, gross weight, etc);
- Unit conversion routines (tons, m³, stereo, etc);
- Timber certification traceability;
- Chain of custody;
- Freight programming / payment.
INFLOR in numbers

- First company in Systems for Forestry Management;
- Present across 4 continents;
- 80% Brazil market share;
- +12.000.000 hectares 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;
- Headquarters in Brazil and United States (on-going)

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 improves its profits through conscious use of natural resources and socioenvironmental respect. Its essence is transform technology in solid roots.