

*Convenzione tra Legno Servizi s. c. e infoFACTORY
stipulata in data 4 Dicembre 2017 per lo*

**SVOLGIMENTO DI UN'INDAGINE PRELIMINARE DI MERCATO DEI
SISTEMI SW PER UTILIZZAZIONI E MISURAZIONI BOSCHIVE**

RELAZIONE TECNICA FINALE

Udine, 28 Giugno 2018



PSR
2014-2020

FRIULI VENEZIA GIULIA



"Progetto di innovazione per la valorizzazione e la sostenibilità della filiera dell'Abete bianco del Friuli", finanziato dall'Unione Europea mediante il FEASR - Fondo Europeo Agricolo per lo Sviluppo Rurale PSR 2014/2020 - Programma di Sviluppo Rurale della Regione Autonoma Friuli Venezia Giulia, Misura 16.2.1

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Executive Summary

In questa relazione si presentano i risultati delle attività previste nella Convenzione per lo SVOLGIMENTO DI UN'INDAGINE PRELIMINARE DI MERCATO DEI SISTEMI SW PER UTILIZZAZIONI E MISURAZIONI BOSCHIVE, stipulata tra Legno Servizi s.c. e infoFACTORY srl in data 04/12/2017.

Obiettivo

Obiettivo primario del lavoro è stato indagare i metodi e gli strumenti software e hardware che possono migliorare l'efficacia e l'efficienza nelle utilizzazioni e nelle misurazioni boschive.

Fase iniziale delle attività

L'attività è iniziata con la ricerca su Web di strumenti software a supporto delle operazioni boschive. Ben presto, già dopo i primi strumenti considerati, si è rilevata la notevole varietà di servizi offerti, molti dei quali hanno funzionalità che si basano sull'elaborazione di dati che vengono acquisiti da specifici dispositivi hardware (che quindi, nella maggioranza dei casi, costituiscono parte integrante del servizio). La stragrande maggioranza delle informazioni relative agli strumenti analizzati è in lingua inglese, con poche eccezioni per l'italiano.

Per ciascuno degli strumenti raccolti, è stata compilata una scheda e a ciascuna scheda sono stati allegati (solo se reperibili) uno o più (se possibile) documenti che forniscono maggiori informazioni, dati e illustrazioni su ciascuno degli strumenti considerati. La scheda presenta informazioni di sintesi e di orientamento: per approfondire ulteriormente i dettagli funzionali e tecnici è necessario consultare i documenti allegati o il sito web del produttore. In generale non sono state trovate informazioni commerciali, per le quali è necessario prendere contatto con i venditori.

Criteri di Classificazione utilizzati

Un'altra modalità ritenuta utile per inquadrare il mercato e le caratteristiche di queste tipologie di strumenti, sono stati due schemi di classificazione, progettati ad hoc in base ai dati raccolti. I corrispondenti valori, per ciascun strumento, sono inclusi nei due campi indicati con i termini TIPO e CATEGORIA. In particolare:

- Il TIPO indica le modalità tecniche (informatiche) di fornitura del servizio, quali ad esempio il dispositivo da utilizzare per fruire del servizio, l'eventuale utilizzo di dispositivi Hardware, ecc. I valori utilizzati sono i seguenti:
 1. *Desktop System*: indica un sistema software che dev'essere scaricato ed eseguito su computer desktop o laptop;
 2. *Mobile App*: indica un'applicazione mobile da eseguire su smartphone o tablet
 3. *HW*: indica che il servizio fornito richiede l'utilizzo di un dispositivo Hardware Speciale, che di norma gestisce uno o più sensori per acquisire dati utili all'elaborazione che viene effettuata. Molte le tipologie di dispositivi Hardware riscontrati nei vari strumenti. In particolare i seguenti 13 valori del campo TIPO indicano che lo strumento utilizza Hardware speciale e identificano anche il tipo specifico di Hardware:
 - a. HW-Bluetooth
 - b. HW-GPRS
 - c. HW-Terrestrial Laser Scanner
 - d. HW-Phone Camera
 - e. HW-Special Unit
 - f. HW-RFID reader
 - g. HW-Barcode Scanner
 - h. HW-Tag Printer
 - i. HW-GPS
 - j. HW-UAV (drone)
 - k. HW-RFID nail
 - l. HW-Tag
 - m. HW-Satellite Phone
 4. *Service*: indica un servizio per la cui erogazione non è utilizzato alcun dispositivo HW o modulo SW da parte dell'utente finale. Sono state rilevate 4 tipologie di servizio, ed in particolare:
 - a. *Service-Consultant*: Si riferisce ad un generico servizio di consulenza, non ben meglio specificato.
 - b. *Service-Certification Tool*: Questo servizio si riferisce a qualche forma di certificazione.
 - c. *Service-Aerial Data*: Si riferisce a servizi che utilizzano ed elaborano dati e immagini, acquisiti ad esempio da sistemi GIS o da sistemi di telerilevamento (LIDAR, basato su Laser, ecc.).
 - d. *Service-WoodPrice*: Questo servizio computa ex-ante informazioni economiche relative a boschi/legname.
 5. *SaaS (Software as a Service)*: si tratta di un tipico modello di fornitura di servizio software in cui il software è eseguito in remoto, tipicamente su cloud, acceduto via rete Internet. Solitamente viene concesso in uso tramite varie forme di licenza o abbonamento.
 6. *Browser-Based Application*: Applicazione software che viene utilizzata mediante un normale browser Web via Internet, tramite PC, smartphone o tablet.

Il TIPO è un campo multivalore, in quanto un unico strumento può essere descritto da più di uno dei valori sopra riportati: ad esempio, uno strumento può essere utilizzato sia via desktop che tramite App, e può prevedere un Hardware speciale; in tal caso il campo contiene tre valori.

Il campo CATEGORIA indica la tipologia del servizio fornito, in termini dei processi e dei dati che vengono utilizzati nelle varie fasi delle utilizzazioni e misurazioni boschive, e più in generale nell'ambito della filiera della selvicoltura. Anche il campo CATEGORIA è multivalore.

I valori possibili sono i seguenti:

1. *Manage*: è una categoria generale che include i processi che consentono di pianificare, schedare e controllare in modo efficiente ed efficace varie operazioni boschive.
2. *Harvest*: è una categoria generale che si riferisce a tutte le operazioni eseguite in bosco durante le varie fasi dell'utilizzazione boschiva.
3. *Measure*: è una categoria generale che include varie tipologie di servizi per la pianificazione dell'inventario, la raccolta dei dati, la misurazione del volume dei tronchi, incluse operazioni di analisi, rendicontazione e calcolo.
4. *Inventory*: Si riferisce a servizi legati all'inventariazione forestale, ossia la raccolta sistematica dei dati e delle informazioni forestali per la valutazione e l'analisi dei lotti boschivi.
5. *Logs Volume*: indica uno specifico servizio che mediante qualche specifico strumento hw è in grado di calcolare automaticamente Diametro e Volume di un tronco o di una pila di tronchi.
6. *Productive Area*: indica che lo strumento calcola l'area produttiva di zone boschive.
7. *Business Management*: si tratta di una categoria generale che include diverse possibili fasi della gestione relativa al business di attività boschive in senso generale, quali: Vendita, Analisi di mercato, Acquisto, Contabilità, ecc.
8. *Carbon Strategies*: riguarda servizi relativi alle strategie che possono essere implementate al fine di ridurre la quantità di carbonio rilasciato nell'atmosfera.
9. *Risk Management*: Questa categoria è correlata a tutte le azioni e prestazioni utili a ridurre il rischio.
10. *Reporting Tool*: indica genericamente un servizio utilizzabile per gestire e archiviare dati raccolti in bosco per varie operazioni boschive.
11. *Safety*: Questa categoria indica servizi relativi alla gestione della sicurezza nelle operazioni boschive.
12. *Certification*: Indica servizi legati alla certificazione del settore forestale, standard, ecc..
13. *Sawmill*: Si riferisce a servizi utilizzabili nei processi di segazione.
14. *Simulation*: Questa categoria riguarda servizi che permettono di simulare operazioni boschive.
15. *Gaming*: indica un computer game, ossia un software per l'effettuazione di un gioco in campo forestale, con intenti educativi.
16. *Infotracing, Traceability and Tracking*: Queste categorie riguardano strumenti e servizi utili per il tracciamento di tutte le informazioni relative al legname attraverso la filiera forestale-produttiva.
17. *Road Design*: indica un servizio utilizzabile per progettare e gestire le strade necessarie per raggiungere le aree ed i lotti produttivi del bosco.
18. *Data Processing, Aerial Imagery*: questa categoria indica servizi utilizzati per elaborare e interpretare dati di immagini aeree, ad esempio GIS o LIDAR.
19. *Mapping*: Questo strumento viene utilizzato per costruire mappe di aree specifiche del bosco.

L'attribuzione dei valori ai due campi TIPO e CATEGORIA ha posto spesso dei problemi, in quanto quanti e quali valori inserire non è sempre chiaro dalla documentazione reperita. Si è quindi cercato di usare un criterio di buon senso, e sono stati attribuiti soli i valori che apparivano affidabili (al di là delle descrizioni che per motivi commerciali spesso fanno trasparire aspetti anche non realmente presenti).

II DATA BASE ForestryDB

Tutto il materiale raccolto è stato inserito in un DataBase sviluppato con MS ACCESS, anch'esso consegnato a Legno Servizi. ForestryDB contiene le schede di 63 strumenti e 69 documenti allegati.

Statistiche

Per mettere in risalto alcune delle caratteristiche dei vari aspetti considerati per ciascuno strumento, sono state calcolate alcune semplici statistiche. In particolare:

1. Distribuzione numerica della tipologia dei 30 casi di dispositivi HW speciali inclusi nei tool analizzati, riportata in Figura 1.

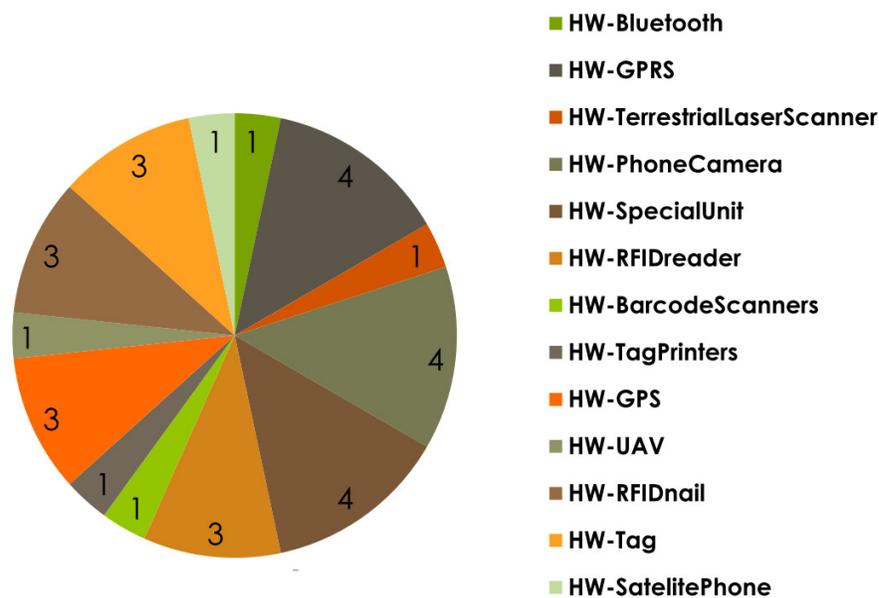


Figura 1.

2. Distribuzione numerica delle varie tipologie del campo TIPO nei 63 strumenti inclusi nell'indagine, illustrata in Figura 2.

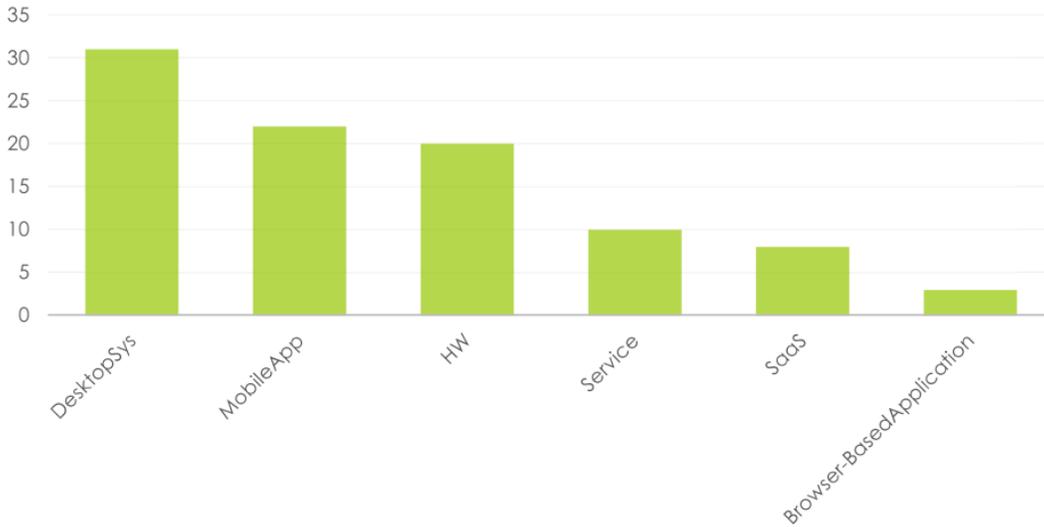
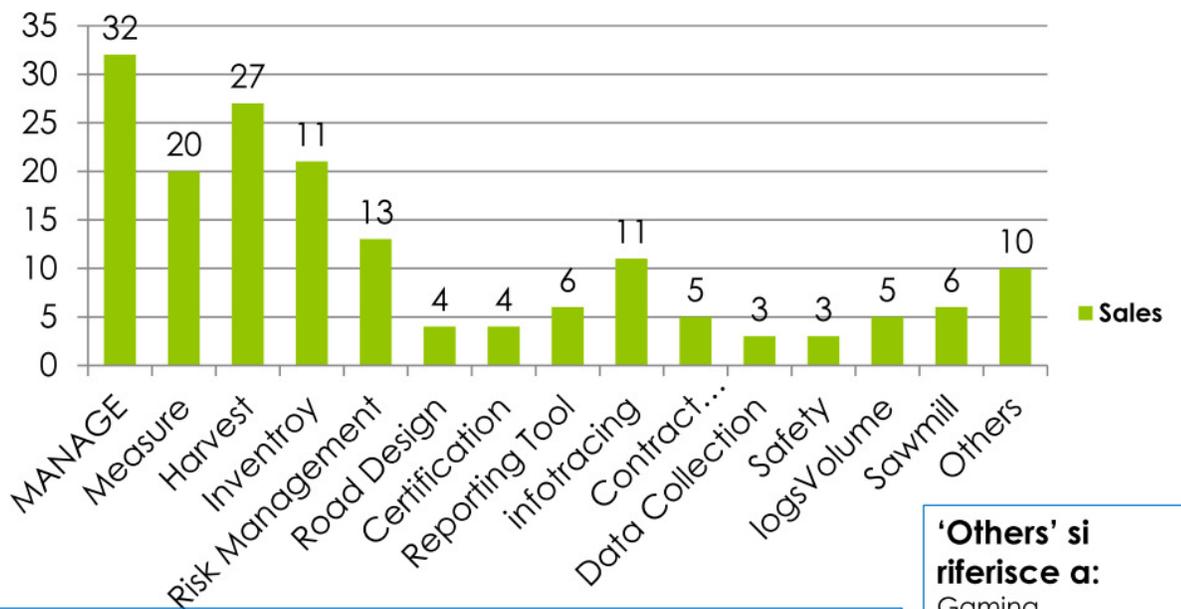


Figura 2.

3. Distribuzione numerica delle varie tipologie del campo CATEGORIA negli strumenti inclusi nell'indagine, illustrata in Figura 3.



NOTA BENE. IL GRAFICO È OTTENUTO TENENDO CONTO DEL FATTO CHE CIASCUNO DEI 63 STRUMENTI CONSIDERATI È CARATTERIZZATO DA PIÙ DI UN VALORE NEL CAMPO 'CATEGORIA', POICHÈ FORNISCE PIÙ DI UN SERVIZIO.

'Others' si riferisce a:
 Gaming
 Transportation
 Data Processing
 Carbon Strategies
 Simulation

Figura 3.

4. Distribuzione percentuale dei valori del campo CATEGORIA, illustrata in Figura 4.



Figura 4.

5. Distribuzione geografica della sede delle società che producono i tool analizzati, in Figura 5.

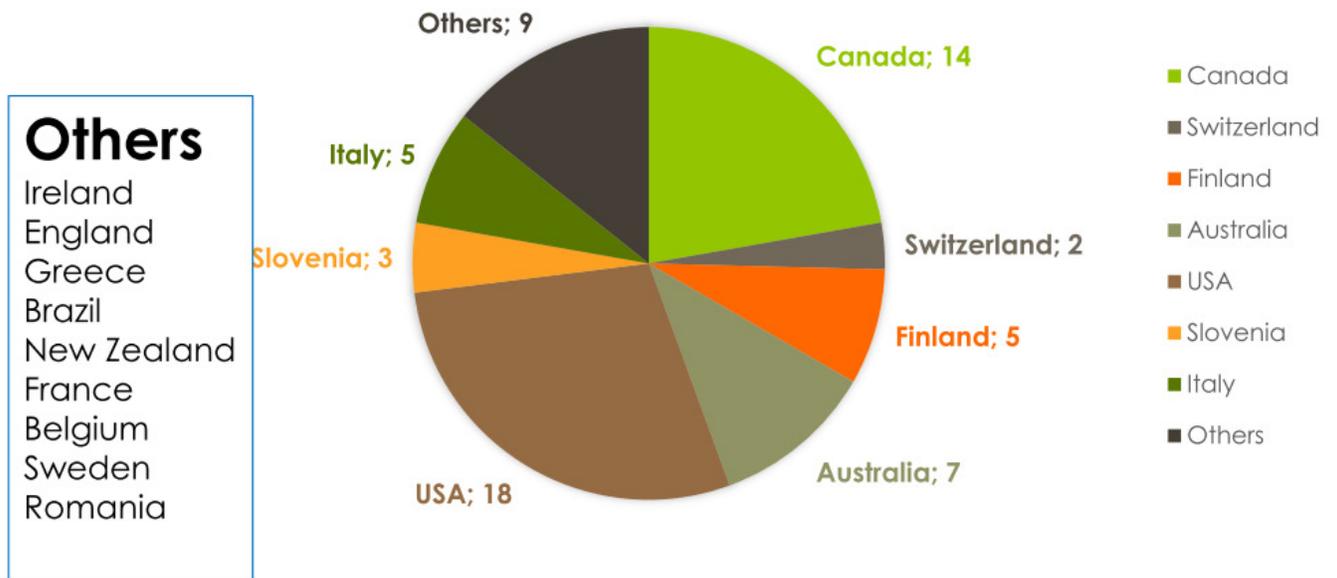


Figura 5.

6. Distribuzione delle lingue utilizzate nei 63 tool analizzati, in Figura 6.

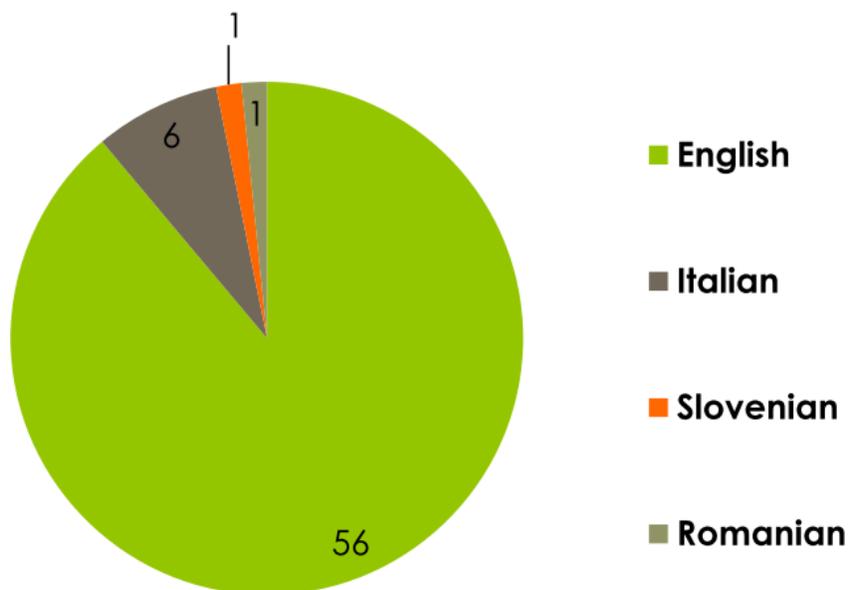


Figura 6.

Copertura della filiera forestale

Le categorie utilizzate per descrivere i servizi degli strumenti analizzati evidenziano una buona copertura della filiera del legno, a partire dalle operazioni di pre-raccolta, fino alle operazioni di segheria, che rientrano nella fase di trasformazione e produzione di prodotti legnosi.

Documentazione

Per documentare i risultati delle attività previste nella Convenzione è stato prodotto il seguente materiale:

- Forestry DB, file fornito accessibile sul sistema MS Access;
- Relazione Tecnica Finale (questo documento)
- Presentazione dei risultati in PowerPoint
- Tutti i file relativi ai documenti (comunque inclusi ed archiviati nel ForestryDB).

ELENCO DEGLI STRUMENTI ANALIZZATI

Company name

TREEMETRICS

Name

1.

Forest HQ

Type

DESKTOPSYS, HW-BLUETOOTH, HW-GPRS, HW-TERRESTRIALLASERSCANNER, SAAS

Category

HARVEST, MANAGE , MEASURE

Description

FOEREST HQ È UN SOFTWARE GENERALE CHE PUÒ ESSERE UTILIZZATO PER LA GESTIONE, LA MISURAZIONE E LA RACCOLTA.

TUTTE LE INFORMAZIONI E GLI STRUMENTI SONO CONNESSI AD UNA PIATTAFORMA CENTRALE.

Country

IRELAND

Language
ENG

Company Website:

www.treemetrics.com/

“Forest HQ” From TREEMETRICS

Forest-HQ has a central platform ,The **advantage** of this software is that allow many different tools communicate in real time.

How does the App works ?

-It has 3 different main Modules :

MANAGE , MEASURE AND HARVEST

1. Managing :

All the data from LiDAR, Drone, Satellite imagery and GIS data work together.

The main parts of managing module :



Online GIS :

Online Editing Tools you can draw forest boundaries , modify compartments.

Activity Scheduling :

Reporting tool , Share information with contractors and clients , Schedule operations in advances , Check current state of operation .

Management Planning :

Manage single and multiple operations from a central view ,Plan forest operations supported by latest mapping capabilities

Forest Certification :

Documents and licenses uploaded and stored and retrieved from platform with cloud storage , Monitor all contracts and licenses from one central platform , The system automatically keeps track of license deadlines , Take control of your forest from one central place

2.Measuring :



CREATE INVENTORY PLAN :

Plan inventories using **remote sensing** (aerial imagery, LIDAR), **Estimate productive area**, Create strata and sampling plots in advance of field visits, Upload shape files or draw your own shapes or boundaries , Store and analyze your aerial imagery.

COLLECT DATA WITH MOBILE APP :

Hands free mobile app displays individual plot and tree locations to facilitate navigation through the forest . Forest HQ app works with Bluetooth enabled inventory tools including electronic calipers, range finders, **RFID scanners**.

COMMUNICATE WIRELESSLY :

Only solution that supports collection of inventory data using a **terrestrial laser scanner**

Transfer data seamlessly and safely from field to Forest HQ cloud.

GENERATE REPORT AND HARVEST SIMULATION :

****Calculate productive area and create reports**

Traditional inventory or terrestrial laser scanner data can be analyzed for tree volume and timber product estimation

Existing growth models can be integrated into the platform to **predict growth and future value**

****THE CUTTING INSTRUCTION FOR EACH STAND CAN BE OPTIMIZED BY THE SOPHISTICATED SOFTWARE.**

3. Harvest Monitoring :



This tool connects to the (harvesting machine by sending production information in real time) to the “Forest HQ” platform. Information about each cut can be seen. Improve the supervision of the harvesting and make real time decisions.

****THE SYSTEM INCLUDE AN ONBOARD NAVIGATION SYSTEM AND INCREASE EFFICIENCY DURING THE CUT.**

****Also it has alert based on the position of harvesting machine.**

Improve Log Yield:

Once logs are cut, the data is transmitted to the platform for real-time analysis , Log product breakout, volumes and locations of activity easily accessed , Automated transmission of stem files, log production, calibration reports and GPS data , Simulate and optimize your cutting decisions to improve yield of higher value logs. Real Time Information , Real time data communication , Android app runs on a tablet mounted inside harvesting and forwarding machines , Suitable for all CTL machine types, New work instructions sent to machine remotely, Satellite and GPRS dual communication facilitates 100% data transfer, even in extreme conditions

Light Detection and Ranging : generate precise, three-dimensional information about the shape of the Earth and its surface characteristics.

A LIDAR instrument principally consists of a laser, a scanner, and a specialized GPS receiver. The data analyzed by the terrestrial LIDAR , Also creation of the 3D models of the stems.

Company name

TIMBETER

Name

2.

Timbeter

Type

HW-PHONECAMERA, MOBILEAPP

Category

LOGS VOLUME, MEASURE

Description

QUESTA APPLICAZIONE ELABORA L'IMMAGINE DELLA TESTA DI UN TRONCO O DI UNA CATASTA DI TRONCHIE E RICAVA IL NUMERO DEI TRONCHI, IL RELATIVO DIAMETRO E VOLUME.

UTILIZZA LA FOTOCAMERA DELLO SMARTPHONE.

Country

ENGLNAD

Language

ENG

Company Website:

<http://www.timbeter.com/en>

PILE MEASUREMENT :

Give the volume in cubic meter by using fixed pile density. It gives the possibility to measure every load separately on the truck.

ALL THE DATA IS STORED WITH THE PICTURE SUCH AS ; SIZE , LOCATION ,DATE AND TIME AND ALL OF IT STORED IN A CLOUD SERVICE AND CAN BE ANALYZED OR FORWARDED AS YOU CAN SEE IN THE FOLLOWING PHOTO.

Species	Alder
Quality	Sawlog
Assortment	
<hr/>	
Latitude	57.78677
Longitude	26.96103
County	Võru maakond
<hr/>	
Length	3.0 m
Reference size	1.0 m
Volume	34.29 m ³
Volume formula	Cylinder



The location of the pile :



All the diameters of the logs in a pile are stored in an excel file :

Log diameters Save as Excel

12cm	1
13cm	2
14cm	9
15cm	18
16cm	24
17cm	32
18cm	37
19cm	37
20cm	49
21cm	35
22cm	27
23cm	21
24cm	13
25cm	12
26cm	6
27cm	6
28cm	3
29cm	4
30cm	3
31cm	3
32cm	3
42cm	1

Total	346
Average	20.1 cm

After the measurement has been done the user can mark cull on different logs and specify the reason such as : *Wrong length, Rot, Crooked Log and Wrong diameter*

	Volume	%	Count
Total	26.78m ³		309
Birch	26.11m ³	97.47%	302
Cull	0.68m ³	2.53%	7

Reason	Volume	Count
Wrong length	0.36m ³	4
Crooked log	0.12m ³	2
Wrong diameter	0.19m ³	1

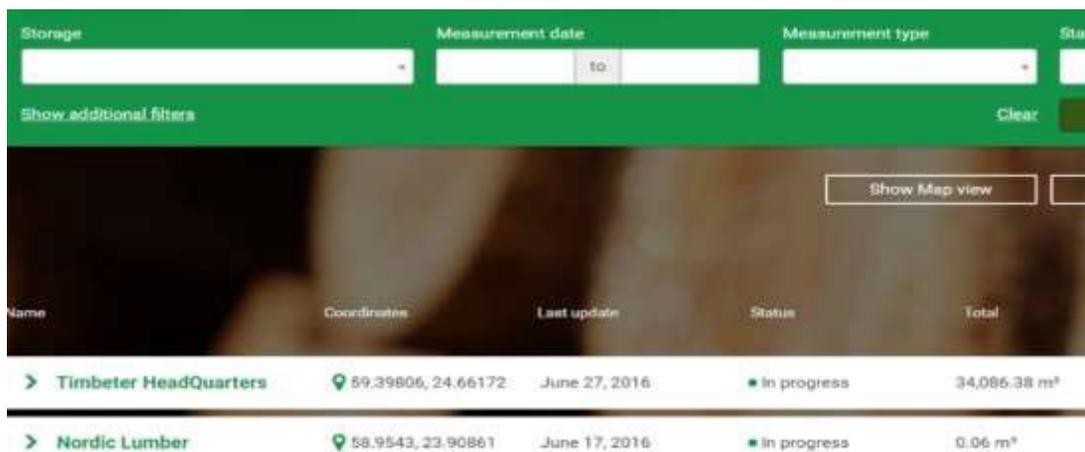
Log length: 2.5m

Reference size: 1m

Timbeter also has a **warehouse module** that gives an up-to-date overview of the warehouse
,Also it can be integrated CRM or Customer relationship management, bookkeeping; payroll or ERP or Enterprise resource planning.

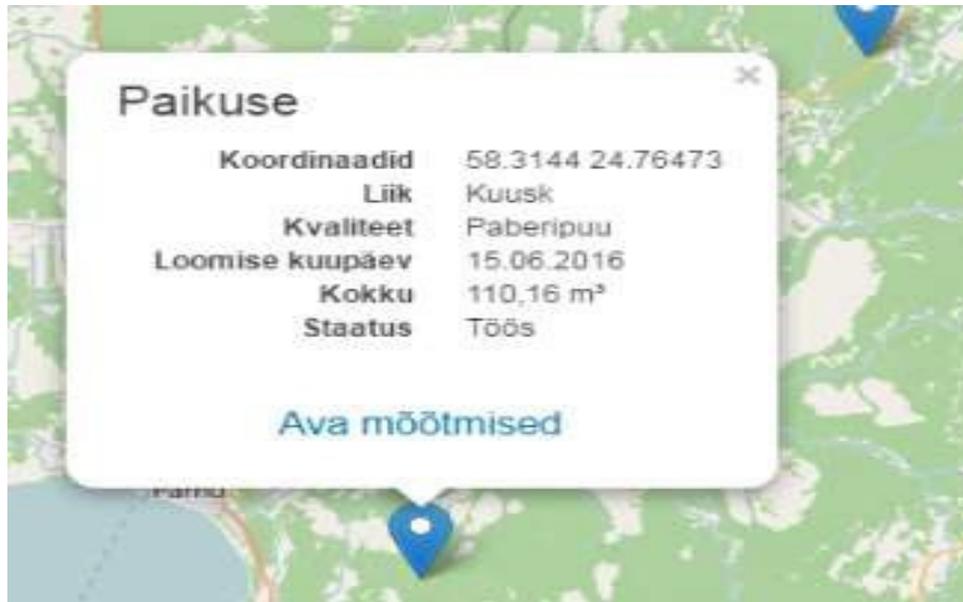
Storage Module :

Provide a real time overview of different measurements that have been made. The storage module has two views as a **map application** or as a **table view**. Where users can filter according their requirements ;Contact number , Location ,tree species and many more.



Name	Coordinates	Last update	Status	Total
> Timbeter HeadQuarters	59.39806, 24.66172	June 27, 2016	● in progress	34,086.38 m³
> Nordic Lumber	58.9543, 23.90861	June 17, 2016	● in progress	0.06 m³

TABLE VIEW



Customized assortments are all synchronized with measurement application
 Assortments include the following characteristics: **species, length, quality and price.**

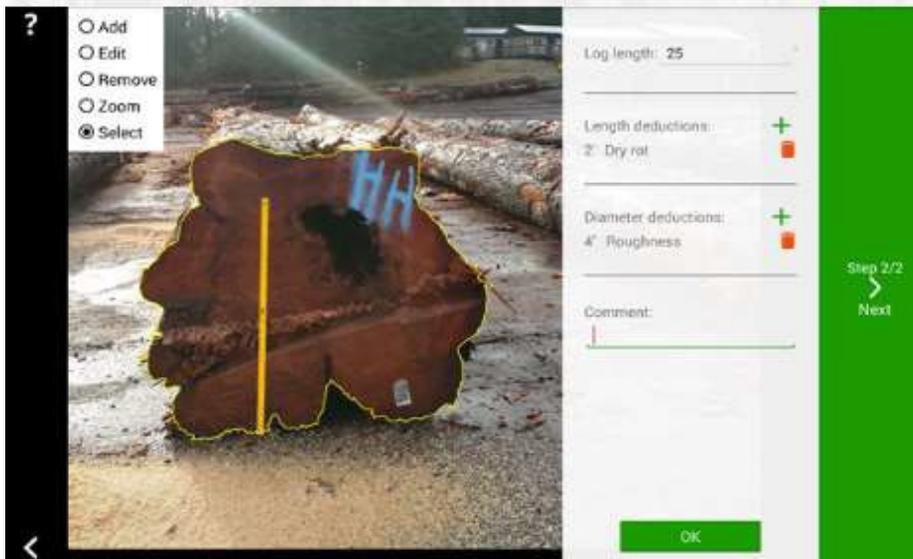
***Real-time overviews of the storage status makes it easier to plan additional activities .*

Wood assortments						Add wood characteristic
Name	Wood type	Wood quality	Log length	Price	Archived	
Assortment 1	Spruce	Small-diameter sawlog	3.0 m	€50 / m ³	no	
Assortment 2	Pine	Small-diameter sawlog	3.0 m	€55 / m ³	no	

Storage module has a first class **Reports** functionality, enabling you to create measurement reports easily in a few clicks. Users select specific measurements and Timbeter automatically generates reports, calculating the value of different assortments.

Single high-value logs measurement feature

Some logs which has been torn down can be measured individually by the feature which is called SHVL , This feature is used for irregular shaped logs. You will have the diameter , Log surface and Volume quickly.

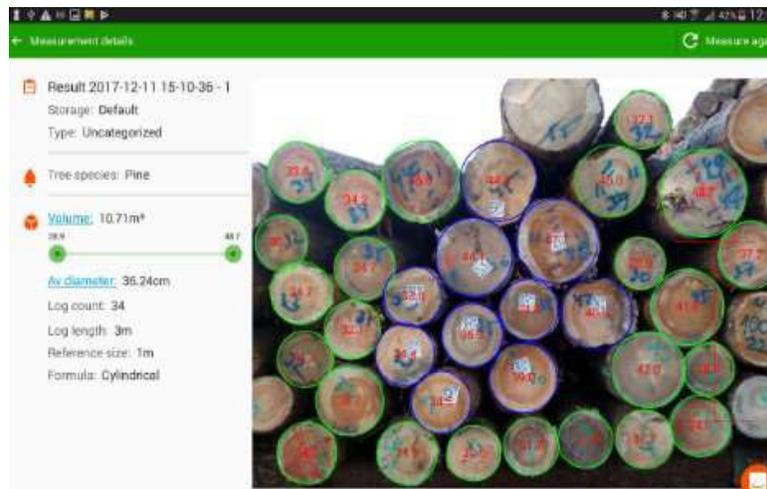


Plus, all the information will be available in real-time in the storage module, which means managers in the office can start processing the data for reports, sales or logistics planning.

QR code detection :

There is the possibility also to **read the QR code** on the surface of the logs, This is an optional step when measuring piles in diameter mode.

So after QR detection it will be decoded and all it's information would be accessible. So within one picture all the information stored on the QR of the logs can be reached.



Company name

ObjectRaku

Name

3.

The Timber Species Identifier (TSI)

Type

DESKTOPSYS, HW-PHONECAMERA

Category

MEASURE, PRODUCTIVEAREA

Description

TIMBER SPECIES IDENTIFIER (TSI) È UN SISTEMA DI MODULI SOFTWARE CHE ELABORANO E ANALIZZANO I DATI LIDAR PER DETERMINARE LA POSIZIONE E LA SPECIE DI SINGOLI ALBERI ALL'INTERNO DI UNA ZONA BOSCOVA.

Country

CANADA

Language

ENG

Company Website:

<http://www.objectraku.com/about/>

Objectraku

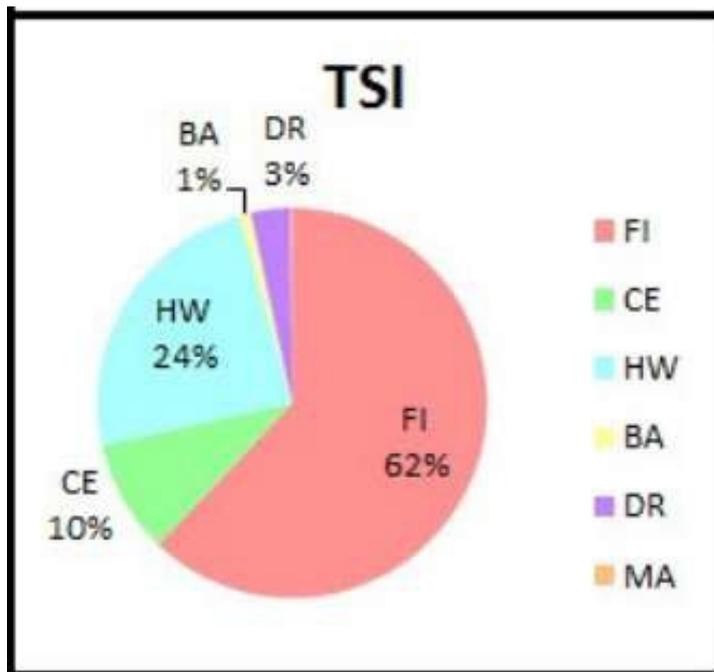
Timber Species Identifier :

Timber Species Identifier (TSI) is a System of automated software components that analyzes LiDAR data to determine the location and species of individual trees.



Is TSI a software or a service ?

TSI is both software and service. It is more economical as a service so avoiding license cost and training requirement.



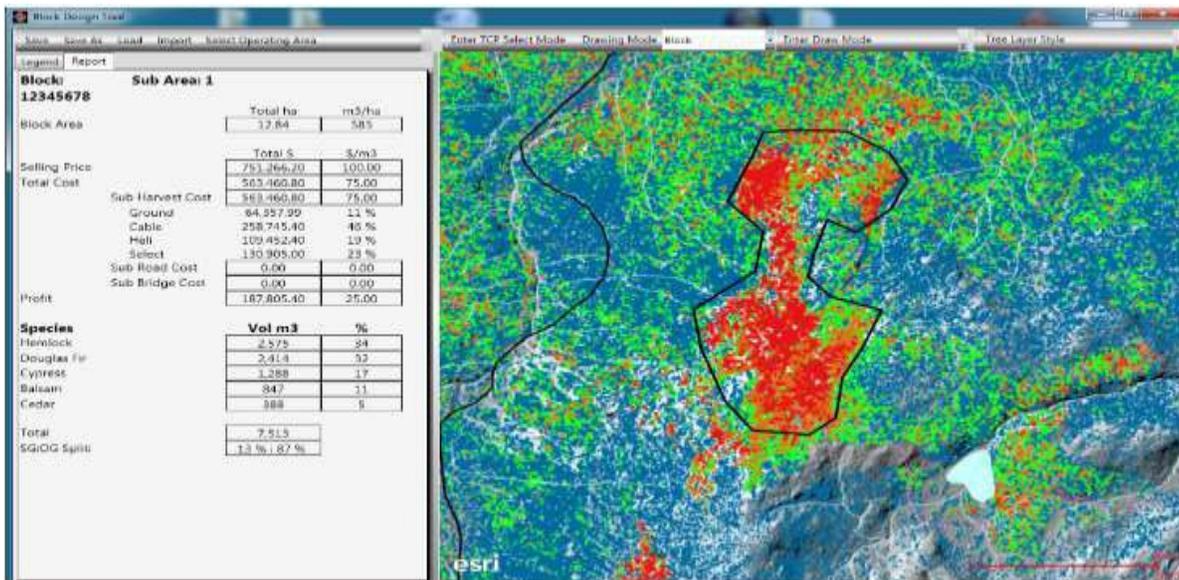
TSI results on 19 harvest blocks with a volume just over 300,000 cubic meters

TSI analysis module :

Block Design Tool or BDT is the TSI analysis tool that Increases the profitability from planned timber harvest areas , **Determine potential profitability based on harvest cost and revenue parameters.**

Harvest cost figures are calculated based on the slope of the proposed harvest area. Approximate costs for roads and bridges are also included in the report and so provide a rough magnitude of input costs.

****The important issue about TSI is that it tell us the approximate cost for roads and bridges based on the slope of the harvest area.**



Company name

TIMBERSOFT

Name

4.

The TimberSoft

Type

DESKTOPSYS, HW-SPECIALUNIT

Category

INVENTORY, MANAGE, PURCHASES, SALE

Description

QUESTA APPLICAZIONE FORNISCE UN SUPPORTO DI AUTOMAZIONE AI PROCESSI DI ACQUISTO E DI VENDITA DEL LEGNAME. ANALIZZA I SINGOLI TRONCHI, TRACCIA LA LORO SPECIE, INDIVIDUA LE LORO MISURE (DIAMETRO, LUNGHEZZA) E UTILIZZA DEI TAG PER IDENTIFICARE I SINGOLI TRONCHI. UTILIZZABILE SIA DA VENDITORI CHE DA ACQUIRENTI.

Country

CANADA

Language

ENG

Company Website:

<http://www.timbersoft.com/>

TimberSoft :

Log Purchases for log buying :

Automates the log buying process by counting each log, tracking species, log tagging, calculating board footage, cutbacks on both length or width, and value vs cost on a purchase-by-purchase basis.

Any specified species, and their respective grades, can be purchased on any selected scale rule. Logs can also be purchased by weight.

Log Sales for offering logs :

Automates the log selling process by creating sales tallies and providing instant insight into realized profits by calculating sales value vs actual cost.

Log Reporting PC Software

Import the raw data from TimberSoft modules to your PC which enables powerful reporting such as sales analysis, purchase analysis, standing timber reports, log profitability analysis, and more! Our system comes with over 1,000 standardized reports which have been developed based on 30 years of experience. We also support tailored reports specific to your needs

Handheld Units

TimberSoft's Log Purchases & Sales System comes with Motorola handheld units which give you an edge in on-location inventory tracking, purchases, and sales!

With the mobile apps, you can easily see how much of each grade you are buying or selling, allowing you the competitive power you need.



Remove all of your pencil and paper work with instant log tagging and mobile Scanning. Analyze log purchases on the spot by specie, grade, or log by log. With your mobile device you will have the ability to upload data instantly while accurately monitoring all phases of the purchase and sales process.

Motorola Handheld Devices :

The Motorola MC9590 is built to withstand the same harsh field conditions and relentless weather a forester must face, but, retains mobility by weighing less than 2 pounds. Equipped with an 806 Mhz processor, 3.7" color touch screen, WiFi, 3.7 V battery, and barcode scanning technology, this versatile hardware chops down a forester's otherwise tedious work process. The Windows Mobile 6.5 Operating System ensures seamless connectivity to a Windows PC

Company name

Trinity Systems

Name

5.

Timber Tracking and Volume Estimation

Type

DESKTOPSYS, HW-RFID-READER

Category

HARVEST, TRACKING

Description

SISTEMA CHE USA RFID PER IL TRACCIAMENTO DEI TRONCHI E UTILIZZA IMMAGINI 3D PER IL CALCOLO DEL VOLUME. IL SISTEMA OFFRE BUONE PRESTAZIONI ANCHE IN CONDIZIONI METEOROLOGICHE ED AMBIENTALI DIFFICILI.

Country

GREECE

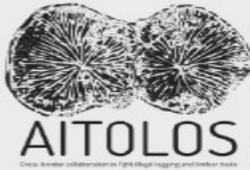
Language

ENG

Company Website:

<https://www.trinitysystems.gr/>

Automatic timber-tracking and volume estimation using 3D imaging sensors & Gen2 RFID technology



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 ☎ +30 2310 473 470

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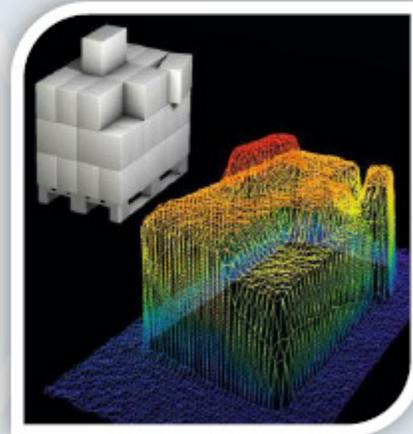
RFID technology components



3D image sensor technology



- ⦿ 3D PMD sensor
- ⦿ ToF (time-of-flight) camera
- ⦿ 3.200 infrared beams for illuminating the object
- ⦿ Redundant processing information (2 cameras & moving object)



Pilot installation @ Mount Paiko



Pilot installation @ Mount Paiko



Pilot installation @ Mount Paiko



Company name

Trestima

Name

6.

Trestima

Type

HW-MOBILEPHONE, MOBILEAPP, SAAS

Category

INVENTORY, LOGSVOLUME, MEASURE

Description

È UN'APPLICAZIONE MOBILE IN GRADO DI CALCOLARE IL VOLUME DEI TRONCHI, MISURANDO DIAMETRO E ALTEZZA; INOLTRE IDENTIFICA LA SPECIE. LE FOTO ACQUISITE DA SMARTPHONE O TABLET SONO INVIATE A TRESTIMA CLOUD PER L'ANALISI. DATI RACCOLTI, MISURE E LOCATION SONO ARCHIVIATI PER COSTRUIRE UN INVENTARIO.

Country

FINLAND

Language

ENG

Company Website:

https://www.trestima.com/products_en/

TRESTIMA

This is a Mobile Application, Sample photos are automatically transferred to TRESTIMA cloud for analysis.

What Does it Measure :

Trunk widths and heights as well as tree species from each sample .

How does it work :

Every measuring data with pictures and location are stored automatically on a cloud service.



Benefits of TRESTIMA measuring system :

Objective results : person carrying out the measuring task has little impact to the final result.

Accurate results : less than 5% error for total basal area can be achieved. Measuring can be continued until the error is at low enough level.

Fast measurement : average measuring speed is under five minutes per hectare.

Documented measurement : samples with the position data are stored for the future use.

TRESTIMA Stack :

TRESTIMA Stack is a tool for measuring the volume of a log stack from images taken using a smartphone or a tablet device.

How to use TRESTIMA stack :

- 1. Capture an image of the log stack***
- 2. Input the outer boundary of the log stack***
- 3. Indicate the end points of the yardstick***
- 4. Type in the average length of the logs in the stack***



Log pile that don't fit to one picture are simply measured with several shots. The system uses only the stacks surface area, log length and an automatically generated coefficient factor when determining the actual volume of the pile.

Company name

Forest Matrix

Name

7.

Forest Matrix

Type

DESKTOPSYS, MOBILEAPP, SAAS

Category

INVENTORY, MEASURE, SALE

Description

È UN SOFTWARE PER COSTRUIRE INVENTARI FORESTALI. FUNZIONA SU TUTTI I PIÙ COMUNI SISTEMI OPERATIVI, PERMETTE AGEVOLI MODALITÀ DI INSERIMENTO DEI DATI E UNA VOLTA COSTRUITO (POPOLATO) IL DATA BASE DELL'INVENTARIO, PERMETTE DI PRODURRE REPORT IN VARIE MODALITÀ.

CREA UNA SERIE DI RAPPORTI E TABELLE. QUESTI POSSONO ESSERE PUBBLICATI DIRETTAMENTE O ULTERIORMENTE MANIPOLATI (FILTRATI, MODIFICATI, ...) DALL'UTENTE

Country

CANADA

Language

ENG

Company Website:

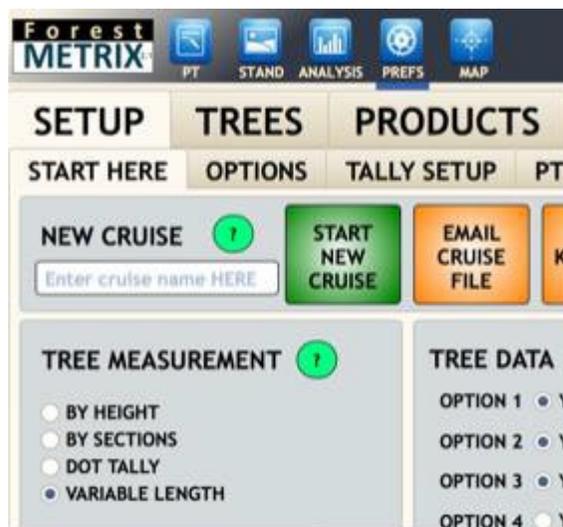
http://forestmetrix.com/wp2/?page_id=87

Forest Metrix

Forest Metrix is a fast system and fully functional for everyone.

Forest Metrix can be used for timber stocking level and species composition or complete evaluation of volumes by multiple products.

Forest Metrix is straightforward and easy to learn. It offers easy touch screen data entry and simple language. There are no hidden menus or complex functions, and no need to be a technology expert.



How Forest Metrix works:

Forest Metrix is a database that runs on Apple iPads or iPhones, or on a Mac or Windows 7/8/10 machine. All of the data entry and analysis happens here. Once a timber cruise or inventory project is complete, an Excel spreadsheet of the timber data gets emailed to your desktop, and you open the Forest Metrix Report Engine. This Excel workbook is a bunch of code that imports your data and creates a series of reports and tables. These can be published as-is, or manipulated by the user to perform pretty much any sort of filtering, sorting, and analysis.

Company name

Trimble

Name

8.

Scaler – Supply – Trade

Type

DESKTOPSYS, SAAS

Category

CONTRACTMANAGEMNET, HARVEST, MANAGE, PURCHASES, SALE, TRACKING

Description

SCALER GESTISCE L'ARRIVO E LA PARTENZA DI TUTTI I TIPI DI CARICO DI LEGNAME.

SUPPLY SUPPORTA LA GESTIONE DEI CONTRATTI DI ACQUISTO E VENDITA, FATTURAZIONE E INVENTARIAZIONE; FORNISCE FUNZIONI DI REPORTING PER ANALIZZARE L'ANDAMENTO DELLE ATTIVITÀ.

TRADE PEREMTTE LA GESTIONE DELLA LOGISTICA DEL LEGNAME E FORNISCE STRUMENTI DI ANALYTICS IN TEMPO REALE.

Country

CANADA

Language

ENG

Company Website:

<http://www.bosforestry.com/>

Trimble Forestry

Scaler _ supply _ Trade are suite of software solutions designed for the Forest industry to manage harvesting operations.

Scaler :

Scaler is a Ministry approved weigh scale system certified for use with the MOF Harvest Billing System (HBS). Scaler records all scale data information necessary to transmit directly to HBS and export contract settlement data to Supply. Most industry handheld export piece scale data to Scaler for reporting and managing quality programs.

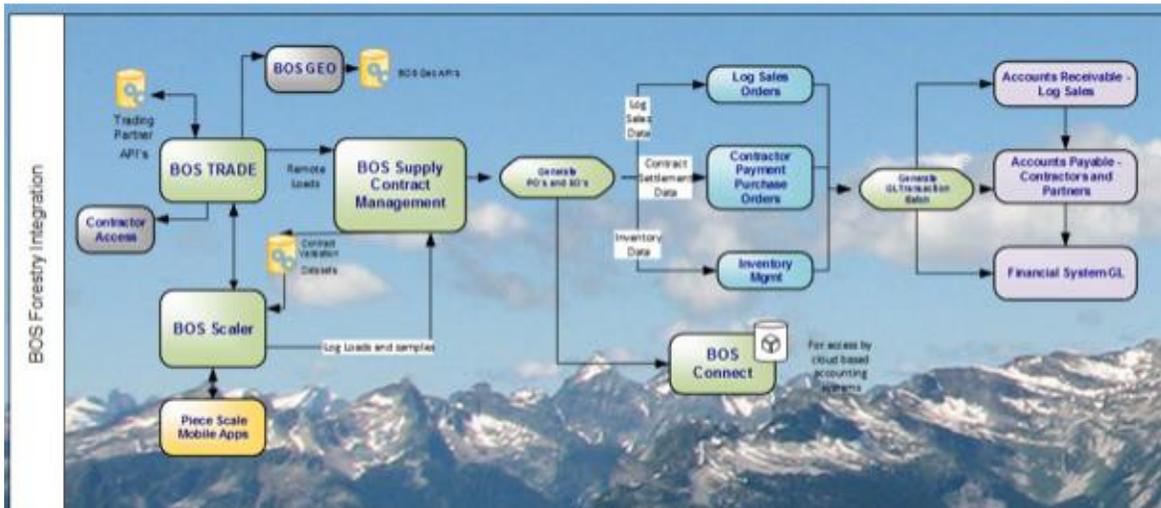
Scaler manages Arrivals and Departures of all load types :

Scaler manages Arrivals and Departures of all load types including quota wood from company timber marks, purchased logs, weighing of other mills logs as a service and sales of logs from company log yards. Scaler imports piece scale data directly from handheld computers to facilitate the flow-through of specie, volume, length waste, defect, grade and quality information for settlement purposes.

Supply :

Logging Contract Management, Purchasing, Sales and Inventory

Supply is a multi-user database application that manages all core business functions of harvest management contracts, forecasting , contractor, vendor and 3rd party settlements, inventory, sales, and invoicing. The easy-to-use interface along with extensive reporting capabilities let you track your wood supply, fiber costs and sales efficiently. Supply integrates seamlessly with Trade to eliminate the need for inputting load information for bush-direct and yard sales.



BOS Supply – Features

Contract Management

Contractor, Freight and 3rd party settlement

Sales and Invoicing

Inventory control

Integrates with Financial software

Includes BOS Scaler HBS certified scale site software

Trade :

Woodflow logistics and real-time analytics

Trade provides forest industry trading partners, including sawmills, contractors, log vendors, scale sites and trucking companies with a customizable internet based portal to monitor, analyze and download log load details. In addition to automating collection of Bush and Yard sales data from remote scale sites, this portal improves business-to-business efficiency through integration with our Scaler and Supply applications.

Company name

INFLOR

Name

9.

INFLOR FORESTRY

Type

DESKTOPSYS, MOBILEAPP, SAAS

Category

HARVEST, MANAGE, MEASURE

Description

SGF FOREST MANAGEMENT SYSTEM È UN SISTEMA INTEGRATO PER LE OPERAZIONI E IL SUPPORTO PER LE DECISIONI FORESTALI. PERMETTE DI PIANIFICARE, MONITORARE E CONTROLLARE TUTTE LE FASI DELLA CATENA PRODUTTIVA, CONSIDERANDO SIA VARIABILI FISICHE CHE FINANZIARIE. PERMETTE DI SIMULARE SCENARI, IMPOSTARE TARGET, CALCOLARE COSTI, CALCOLARE RICAVI E MISURARE LE PRESTAZIONI ATTRAVERSO OPPORTUNI KPI.

Country

BRAZIL

Language

ENG

Company Website:

www.inflor.com.br/



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

Industries



Technical Features

We search, inovate 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.



INFLOR is the leader on the market for Forest Management systems

Complete technology dedicated on bio-asset management



Mobility



Forestry Register/GIS



Plant Nursery



Roads



Silviculture



Forest Inventory



Partnership/Contract Management/Land Management



Harvesting



Logistics



Cost Management



Climatology



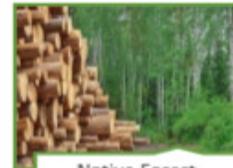
Research and Genetic Material



Wood Purchase and Sales



Sawmill Production Control



Native Forest 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.

Company name

Remsoft

Name

10.

Remsoft

Type

DESKTOPSYS

Category

CARBON STRATEGIES, INVENTORY, MANAGE, RISKMANAGEMENT, SAFETY

Description

QUESTO SOFTWARE FORNISCE FUNZIONI DI MODELLIZZAZIONE PREDITTIVA E DI ANALYTICS CHE PERMETTONO DI GESTIRE LA PIANIFICAZIONE E LA SCHEDULAZIONE DELLE ATTIVITÀ. LE POSSIBILI APPLICAZIONI SVILUPPABILI RIGUARDANO, FRA LE ALTRE: ASPETTI FINANZIARI, CARBON MODELLING, SCHEDULAZIONE DELL'UTILIZZAZIONE BOSCHIVA.

Country

CANADA

Language

ENG

Company Website:

<http://www.remsoft.com/>



Remsoft Analytics helps organizations

REMSOFT ANALYTICS

For Forestry and the Environment

Remsoft Analytics is a predictive modeling and advanced analytics solution that provides the platform for fact and goal-based planning and scheduling. It delivers fast time-to-value, better managed costs and risks, right time/right place decision making and planning, sustainable results, increased transparency and provable justification, optimized business processes and competitive differentiation.

Only Remsoft Analytics offers the ability for key stakeholders to collaborate and create goal-based plans with unprecedented accuracy, flexibility, simplicity and speed.

APPLICATIONS INCLUDE:

- Financial analysis
- Carbon modeling ▫
- Biomass
- Certification and compliance ▫
- Natural disturbance mitigation ▫
- Ecosystem management
- Highest and best use ▫
- Resource allocation ▫
- Trade-off analysis
- Land use and cumulative effects
- Harvest scheduling
- And more

REMSOFT[®]

*Our solution is designed for those
who need to justify spending
decisions based*

Company name

Assisi Software

Name

11.

Assisi

Type

MOBILEAPP

Category

INVENTORY, MANAGE, REPORTINGTOOL

Description

ASSISI FORNISCE STRUMENTI PER LA GESTIONE FORESTALE: ANALISI DELLA CONSISTENZA BOSCHIVA, INVENATRI, PIANIFICAZIONE, SIMULAZIONE DELLA CRESCITA E STIMA DEL VOLUME A BREVE E LUNGO TERMINE. FORNISCE INOLTRE UNA DATA BASE PER LA GESTIONE CENTRALIZZATA DI TUTTI I DATI DI INTERESSE.

ASSISI MANAGER

Country

USA

Language

ENG

Company Website:

<https://www.assisisoft.com/>

Assisi Compiler

Comprehensive Timber Survey and Cruise Compiler



Assisi Compiler is the most flexible and easy to use timber survey software available. There are many ways to measure a forest. Don't be limited by your forestry software to only a small set of survey designs. Assisi Compiler includes the variety of volume, value, taper, site, measurement and survey options proper timber surveys require. If you want the flexibility to choose the best cruise designs for your projects, we think Assisi Compiler deserves a close look.

Assisi Inventory

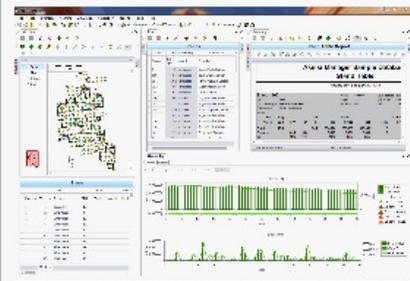
Forest Survey, Inventory and Growth Projection



To carry an ongoing inventory of forest resources requires not only compiling forest surveys to create an inventory, but updating that inventory for management activities and tree growth. Assisi Inventory carries a forest inventory that is updated as harvests occur and grown forward each year to give the best possible estimate of your current standing timber. With all the features of Assisi Compiler, Assisi Inventory will both compile an inventory and estimate growth to a future date.

Assisi Manager

Forest Inventory, Planning and Simulation



Assisi Manager is our "field to future" product, combining all the survey and inventory features of Assisi Inventory with long term planning and simulation. An all inclusive product, Assisi Manager is designed to keep both an ongoing inventory of your forests as well as help you create and simulate long term management plans.

ASSISI INVENTORY

Forest surveys typically cover only a portion of a landscape every year so forest inventories require a way to project older cruise data forward to the current year. Assisi Inventory provides the answer with integrated growth models. Its models project growth and simulate past management to give you up to date estimates of your current inventory.

Assisi Inventory includes all the timber analysis of Assisi Compiler, all the forest surveys of Assisi Resource and adds growth models for inventory projection.

- ORGANON - Published by Oregon State University for use in the US Pacific Northwest.
- Acadia - US Northeast and SE Canada implementation of University of Maine growth models.
- NE TWIGS - US Northeast implementation of historic FVS models.
- User Defined - User entered equations for height, diameter, crown, site index and others. Many growth models can be entered by hand as needed.

ASSISI MANAGER

Assisi Manager is a comprehensive forest inventory and planning tool. Assisi Manager includes the forest surveying and inventory tools of Assisi Inventory and adds long term planning and simulation. Assisi Manager stores all your field data and inventory projections plus long term management plans and historical records. Packaged in an elegant and expandable system you have come to expect from Assisi Software.

ASSISI ENTERPRISE

Assisi Enterprise brings all the features of Assisi Manager to an entire organization. With Assisi Enterprise there is a single database with everyone working off of the same field, inventory and planning data. User locking allows each user to prevent others from making changes while working on data. Program scripting is available to create complex and routine analyses as well as custom reports in any C# compatible tool like Excel or Word. With SQL Server and Assisi Enterprise, you have the ultimate in productivity, access and customization.

Company name

IT for Nature

Name

12.

SmokeD

Type

MOBILEAPP

Category

FIREDETECTION, SAFETY

Description

SMOKED È UN SOFTWARE CHE UTILIZZA TECNICHE DI INTELLIGENZA ARTIFICIALE E VISIONE ARTIFICIALE CHE RILEVA FUMI O FIAMME NELLE IMMAGINI PROVENIENTI DA TELECAMERE DIGITALI E VIENE UTILIZZATO PER IL MONITORAGGIO DI GRANDI AREE PER LA PREVENZIONE INCENDI. IL SISTEMA INTERAGISCE CON LE COMUNITÀ LOCALI CHE INFORMANO SULLA PRESENZA DI INCENDI. QUANDO IL SISTEMA RILEVA FUMI O FIAMME NOTIFICA LE SQUADRE DI INTERVENTO, I SERVIZI FORESTALI ED I RESIDENTI LOCALI.

Country

USA

Language

ENG

Company Website:

www.itfornature.com/

SmokeD

Smart Fire Camera for commercial and Residential Use :

First ever, innovative early flash fire detection system

Artificial Intelligence - powered computer enclosed within a camera Plug-and-play

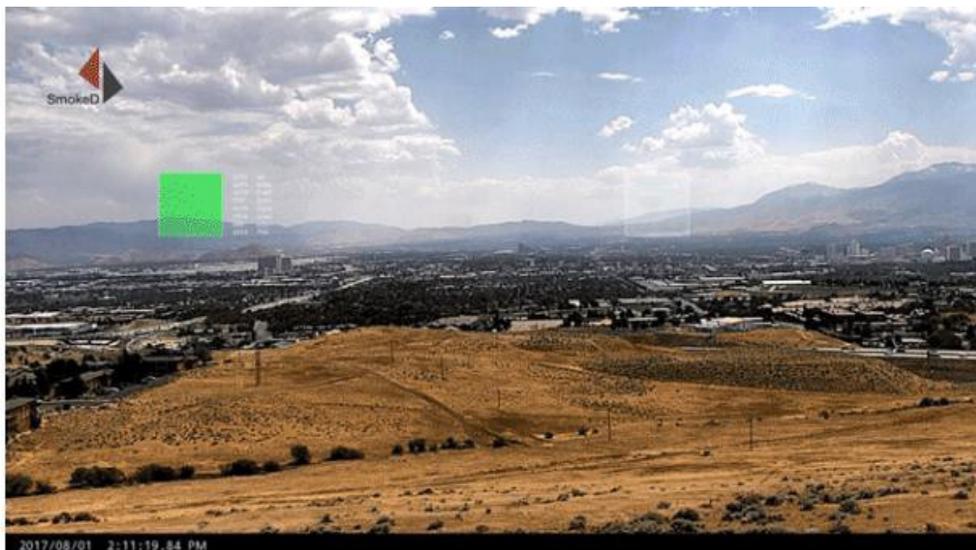
Average flash fire detection time – 10 minutes

24/7 fire detection

Notifications sent directly to your smartphone (texts, e-mails or via the app) No costly infrastructure or fast Internet connection necessary

What is SmokeD ?

SmokeD is a solution which detects smoke or flames in pictures fed from digital cameras and is used for fire prevention monitoring.



Detection and Reliability

Artificial Intelligence

24/7 fire detection

Company name

Fountains Forestry

Name

13.

TwoDog Forest Inventory Software

Type

DESKTOPSYS, HW-GPS

Category

ANALYSIS, INVENTORY, MEASURE, REPORTINGTOOL

Description

TWODOG FOREST INVENTORY FORNISCE MOLTE FUNZIONALITÀ PER LA COSTRUZIONE (DATA ENTRY) E LA GESTIONE DELL'INVENTARIO FORESTALE.

Country

USA

Language

ENG

Company Website:

<http://twodogsoftware.com>

KEY FEATURES

- ROBUST INVENTORY DESIGN OPTIONS
- EASILY ADAPT TO ANY FOREST REGION
- HIGHLY CUSTOMIZABLE DATA ENTRY
- MULTIPLE USER DEFINED FIELDS
- POINT, PLOT, 100% AND DOUBLE POINT SAMPLING
- COMPREHENSIVE REPORTS INCLUDING STATISTICS
- RUNS ON MICROSOFT WINDOWS XP, VISTA AND WINDOWS

Calculations

ProductGroup	Volume	BA	NTrees
Overall	1207 Board Feet	20	13
Grade Sawlogs	982 Board Feet	13	8
Low Grade Sawlogs	224 Board Feet	3	2

Stats For: Overall- Volume

LCL	Mean	UCL	# Req
605.57	1206.66	1807.75	Per Acre
Std Error	% Error	C.V.	Options
155.98	49.81	22.39	

Stand: 1 Area: 1 NPoints: 3

Stand: 1- 1

File: cruise_1

Main Menu

File

- Open/Create Cruise File
- Cruise Specifications
- Edit Prices

Data

- Cruiser Info
- Tract Data
- Stand Data
- Point Data

Help

- About
- Instructions

File: cruise_1

Company name

TradeTec Computer Systems

Name

14.

TallyWorks

Type

DESKTOPSYS, HW-SPECIALUNIT

Category

ACCOUNTING, ANALYSIS, INVENTORY, MANAGE, MARKET ANALYSIS, MEASURE, REPORTINGTOOL

Description

SOFTWARE PER LA GESTIONE DELL'INVENTARIO E PER LA GESTIONE DELLE OPERAZIONI DI UTILIZZAZIONE, IN PARTICOLARE DELLA RACCOLTA DEI TRONCHI, PER LA QUALE UTILIZZA UN DISPOSITIVO HARDWARE DEDICATO.

Language

ENG

Company Website:

<https://www.tradetec.com/index.php?page=9>

TRADETEC

The TallyWorks log inventory and procurement software solution is able to manage standing timber and log inventory by location and facilitate all the transactions that occur during the procurement process.

Timber Management. TallyWorks provides you the tools to enter your

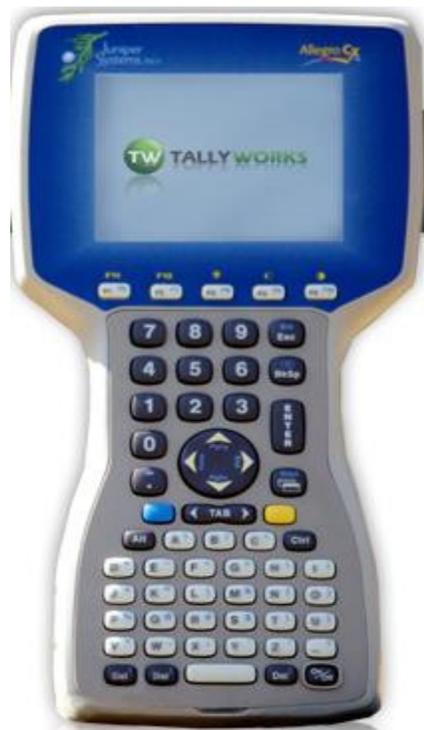
cruise/harvest data into a defined Timber Tract.

Log Procurement. Once a bid is successful its status is changed and it becomes standing inventory at cost and market.

Handheld Computers. LogMaster is TallyWorks scaling and grading handheld software. Logs can be scaled in your yard or remotely and can be scaled as a received load or as a potential purchase or sale.

Log Inventory. This module is popular on the coast and several rivers systems providing you the tools to acquire your logs in rafts or booms and track all associated gear etc.

Reporting & Analysis. TallyWorks comes complete with hundreds of reports each with extensive filters and layout configuration options.



Company name

Baywood Technology

Name

15.

CPM

Type

MOBILEAPP

Category

BUSINESSMANAGEMENT, ACCOUNTING, INVENTORY, MANAGE, REPORT

Description

CPM PERMETTE DI GESTIRE L'INVENTARIO FORESTALE IN MODO INTEGRATO CON I MODULI DI AMMINISTRAZIONE. SUPPORTA NELL'ACQUISTO E VENDITA, GESTIONE CONTRATTI.

Country

USA

Language

ENG

Company Website:

<http://www.baywoodtech.net/>

[\(sito inaccessibile in Giugno 2018\)](#)

What Is CPM

Baywood's Commodity ProManage System is a browser-based application designed to manage the tasks related to the overall procurement activities for bulk commodities. The five core processes that are handled within the application are:

- ▶ Management of company owned resources (company land and stumpage purchase agreements)
- ▶ The acquisition and management of services through the authorization and purchase order process
- ▶ The management and coordination of raw materials delivery including payment calculation and payment generation for all suppliers
- ▶ Inventory Management
- ▶ Integration with corporate accounting

System Benefits

- ✓ User-friendly web-based portal technology
- ✓ Integrated scaling application
- ✓ Seamless integration with accounting applications
- ✓ Mobile access capability
- ✓ Reduces Operating Costs
- ✓ Improves productivity
- ✓ Generates payments, settlements & invoices
- ✓ Supports multiple payment

Accounting

CPM is designed to interface with myriad accounting packages, including SAP, JD Edwards, Microsoft AX, SBT, and Epicor and facilitates trial Settlement Report reconciliation prior to commitment to your accounting application. In the event reversal processing is needed, CPM's streamlined reversal process and bulk ticket processing makes exception processing quick and efficient.

The screenshot displays the CPM Settlement Report interface. At the top, it shows the CPM logo and the title 'Baywood CPM - Settlement'. Below this is a navigation menu on the left with options like 'Home', 'Supplier Portal', 'Recently Modified', 'CPM Help', 'Reports', 'Authorizations', 'Tickets', 'Setup', 'Lists', 'Commodity', 'Application Data', 'Scale', 'Land Management', and 'Contract Approval'. The main content area includes search filters for 'Payment Start Date' (7/1/2014) and 'Payment End Date' (7/26/2014), along with 'Org ID' (Baywood, Baywood Region, Baywood) and 'Account' (A.J. Miller Jr. Inc. - C1005, Ar). A 'SETTLEMENT REPORT' section is visible, showing account details for 'A.J. Miller Jr. Inc.' and a table of settlement data.

Total Number	Total Date	Supplier Total Number	Product Name	Qty Units	Rate/Unit	Price/Weight
19999	07/01/2014			26.8280	\$25.00 / TN	\$2,604 LB
922613	07/03/2014			27.1365	\$25.00 / TN	\$3,259 LB

Features

- Interfaces with most company accounting systems
- Generates all supplier settlement reports
- Tracks company commodity assets
- Easy search and selection of specific accounting activities
- Calculates and reports ad valorem, severance and timber taxes
- Historian data to audit changes to documents having a financial impact on the company

CPM (Commodity ProManage) is a bulk commodity procurement system that simplifies the purchase, receipt, sale and shipment of bulk commodities. Industries such as the Wood Fiber, Recycling, Wood Pellets, Agriculture, Rock Aggregate, and Chemical are just a few industries directly supported by CPM.



Flexible

Using CPM's customizable framework, any commodity or business process can easily be modeled and supported within CPM. With CPM you can manage:

- Purchase and sales authorizations
- Releases/quotas scheduling for deliveries/ shipments
- Inventory
- Receipt and shipment ticket processing
- Certified materials accounting
- Land and resource assets

CPM's comprehensive reporting features provide the user with a deeper level of business intelligence critical for corporate forecasting across multiple commodity types.

Company name

Compagnia delle Foreste

Name

16.

Compagnia delle Foreste

Type

SERVICE-CONSULTANT

Category

INVENTORY, MANAGE

Description

SERVIZI DI CONSULENZA IN CAMPO DI GESTIONE ED INVENTARIAZIONE FORESTALE, IVI INCLUSI PROGETTI DI R&D

Country

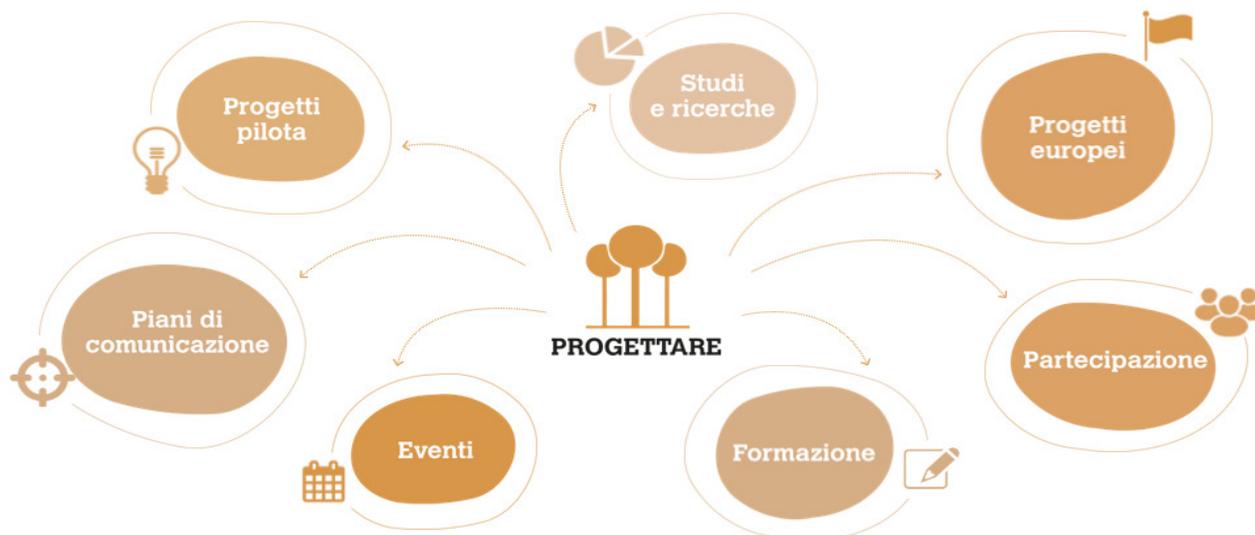
ITALY

Language

IT

Company Website:

<http://www.compagniadelleforeste.it/>



Visione e missione

Visione

Dobbiamo contribuire alla consapevolezza che la gestione attiva e sostenibile delle foreste, delle piantagioni da legno e del verde urbano, è una delle principali fonti di benessere per l'umanità di oggi e del futuro.

Missione

Ottenere utile d'impresa comunicando e promuovendo l'innovazione e le buone pratiche nella gestione attiva e sostenibile di alberi e foreste. Avere come riferimento per ogni attività i valori, le strategie e le tecniche capaci di avvicinare la Compagnia delle Foreste alla propria Visione del futuro. Coniugare il profitto con la responsabilità d'impresa, utilizzando le risorse umane e finanziarie non solo per sviluppare nuove competenze, nuovi prodotti e servizi, ma anche per iniziative senza fini di lucro coerenti con i valori espressi nella visione di Compagnia delle Foreste

Company name

Pro Silva

Name

17.

Pro Silva

Type

SERVICE-CONSULTANT

Category

CERTIFICATION, COMPLIANCES, MANAGE, STRATEGIES

Description

SERVIZI DI CONSULENZA FORESTALE.

PROSILVA È UNA FEDERAZIONE EUROPEA DI OPERATORI FORESTALI PROFESSIONISTI PRESENTE IN 24 PAESI EUROPEI CHE PROMUOVONO E FORNISCONO SERVIZI DI GESTIONE DELLA FORESTA NATURALE COME ALTERNATIVA ALLE PIANTAGIONI DI ALBERI A BREVE TERMINE.

Country

SLOVENIA

Language

ENG

Company Website:

<http://www.prosilva.org/>

PRO SILVA

Pro Silva is a European federation of professional foresters across 24 European countries. Pro Silva was founded in Slovenia in 1989 and is made up of forest owners, foresters, forestry students .

General Principles :

Pro Silva promotes forest management strategies which optimize the maintenance, conservation and utilization of forest ecosystems in such a way that the ecological and socioeconomic functions are sustainable and profitable.

These are:

- *production of timber and other products ,*
- *protection of soil and climate,*
- *maintenance of ecosystems ,*
- *recreation, amenity, and cultural aspects.*

Company name

Wood Chain Manager

Name

18.

WCM

Type

SERVICE

Category

MANAGE, SUPPLY-CHAIN-MANAGEMENT

Description

QUESTO È UNO STRUMENTO PER LA GESTIONE (ED IN PARTICOLARE DEL COMPUTO) DEI COSTI NELLE VARIE FASI DELLA FILIERA FORESTA-LEGNO. PERMETTE LA SELEZIONE DEL MODELLO DI PRODUZIONE, LA SELEZIONE DELLE MACCHINE, DEGLI ACCESSORI OPZIONALI, ECC. CON I RELATIVI COSTI DURANTE LE VARIE FASI LUNGO LA FILIERA.

Country

SLOVENIA

Language

ENG_SLOV

Company Website:

<http://wcm.gozdis.si/domov>

REPORT: STANDARD TIMES IN FORESTRY

WCM application was developed by researchers at the Slovenian Forestry Institute (Department of Forest Engineering and Economics). Calculations of standard times in forestry are recapitulated from

»Decree on the concession for the exploitation of forests owned by the Republic of Slovenia (Official Gazette of RS, Nos. 98/10 , 98/12 , 62/13 , 90/13 and 108/13) - Annex 2)«.

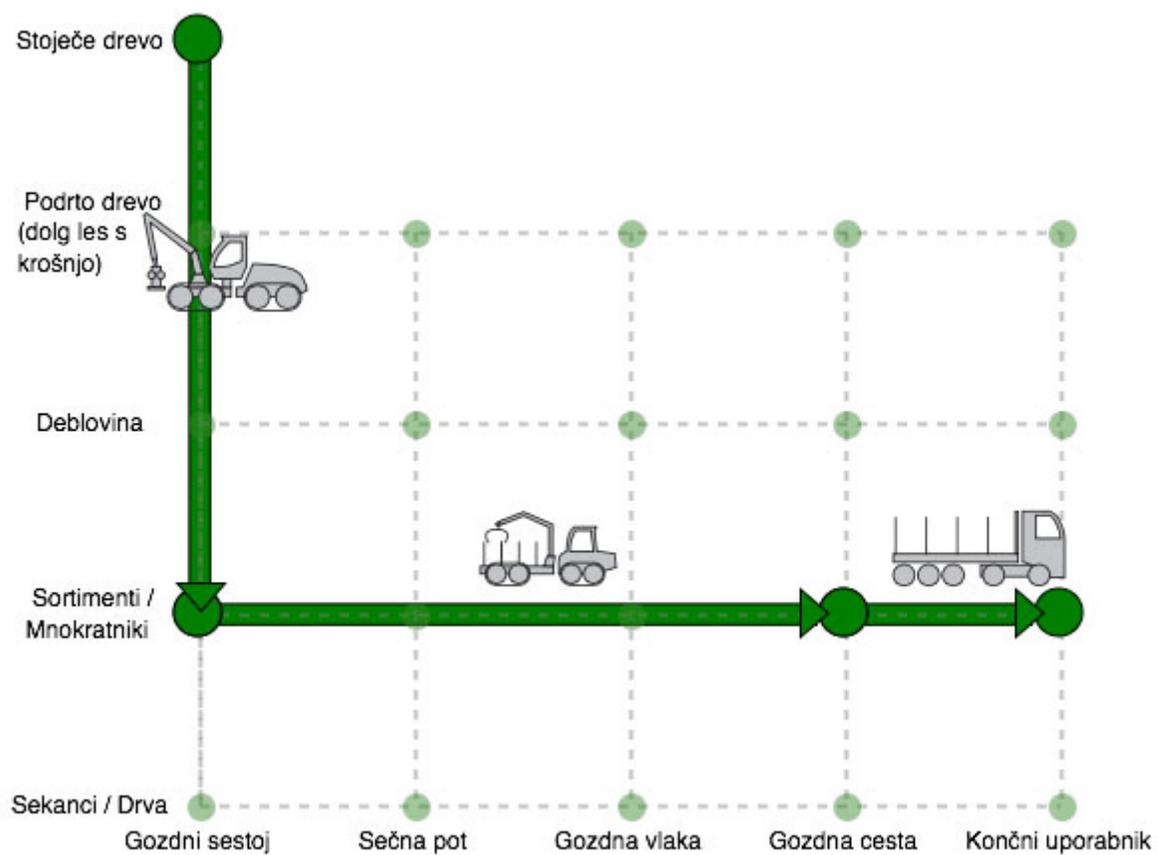
Figure 1: Amounts of trees selected for determining the standard times

Thickness class	Coniferous									Broadleaved									SUM			
	Pine trees			Other coniferous trees			SUM (Coniferous trees)			Oak trees			Other broadleaved trees			SUM (Broadleaved trees)						
	GR [*]	NT ^{**}	Nr ^{***}	GR [*]	NT ^{**}	Nr ^{***}	GR [*]	NT ^{**}	Nr ^{***}	GR [*]	NT ^{**}	Nr ^{***}	GR [*]	NT ^{**}	Nr ^{***}	GR [*]	NT ^{**}	Nr ^{***}	GR [*]	NT ^{**}	Nr ^{***}	
1. (10-19 cm)																						
2. (20-29 cm)																						
3. (30-39 cm)																						
4. (40-49 cm)																						
5. (50-59 cm)																						
6. (60-69 cm)																						
7. (70-79 cm)																						
8. (80-89 cm)																						
9. (>90 cm)																						
SUM m ³																						
Average tree volume (m ³)	0.0			0.0			0			0.0			0.0			0						

* GROSS - tree volume over bark more than 10 cm in diameter at breast height. Includes the stem from ground stump height up to a top diameter of 7 cm, and may also include branches to a minimum diameter of 7 cm.

** NET - Wood assortments measured and classified according to trading rules.

*** Number of selected trees





				Standard times			from	to								
		Tree species	Correction factors owing to													
				atypical working conditions	the low concentration of sanitary felling											
Felling	Felling with chainsaw	Average norm	Coniferous	0		0		0h 0min	0h 0min							
			Broadleaved					0h 0min	0h 0min							
			SUM					0h 0min	0h 0min							
	Standard times at the workfield level	Coniferous	additional work		bonifications		malifications		0h 0min	0h 0min						
		Broadleaved							1.0	0.0	0.0	0h 0min	0h 0min			
		SUM							0h 0min	0h 0min						
	Fully mechanized harvesting	Correction factors														
		Coniferous	1.0					0h 0min	0h 0min							
		Broadleaved						0h 0min	0h 0min							
	SUM	0h 0min						0h 0min								
Wood extraction	Hand wood extraction		SUM	1.0			0h 0min	0h 0min								
	Hauling with horses		SUM	1.0			0h 0min	0h 0min								
	Cable yarding	large multi-drum yarder cranes with towers – up to 600 m line, carrying capacity up to 2.5 t		Coniferous	1.0		1.0		0h 0min	0h 0min						
				Broadleaved					0h 0min	0h 0min						
				SUM					0h 0min	0h 0min						
		large multi-drum yarder cranes with towers – up to 800 m line, carrying capacity up to 3.0 t		Coniferous	1.4		1.0		0h 0min	0h 0min						
				Broadleaved					0h 0min	0h 0min						
				SUM					0h 0min	0h 0min						
		medium multi-drum cranes with towers – up to 400 m line, carrying capacity up to 1.5 t		Coniferous	1.0		1.0		0h 0min	0h 0min						
				Broadleaved					0h 0min	0h 0min						
				SUM					0h 0min	0h 0min						
		small multi-drum cranes with towers – up to 200 m line, carrying capacity up to 1.0 t		Coniferous	1.0		1.0		0h 0min	0h 0min						
				Broadleaved					0h 0min	0h 0min						
				SUM					0h 0min	0h 0min						
		standard yarder cranes – 2,000 m line, carrying capacity up to 2.5 t		Coniferous	1.0		1.0		0h 0min	0h 0min						
				Broadleaved					0h 0min	0h 0min						
				SUM					0h 0min	0h 0min						
		Tractors and forest skidders	Agricultural tractor	Coniferous	wood extraction		wood gathering		wood hauling		0h 0min	0h 0min				
				Broadleaved							1.0	1.0	1.0	1.0	0h 0min	0h 0min
				SUM							0h 0min	0h 0min				
	Large forestry skidders		Coniferous	1.0		1.0		1.0		0h 0min	0h 0min					
			Broadleaved							1.0	1.0	1.0	1.0	0h 0min	0h 0min	
			SUM							0h 0min	0h 0min					

Company name

Elimbs

Name

19.

Elimbs

Type

DESKTOPSYS, HW-BARCODESCANNERS, HW-SPECIALUNIT, HW-TAGPRINTERS

Category

BUSINESSMANAGEMNET, INVENTORY, MANAGE

Description

ELIMBS FORNISCE UN SERVIZIO (HW E SW) PER IL TRACCIAMENTO MEDIANTE BAR CODING DEI PRODOTTI LEGNOSI, PARTENDO DALLE PIANTE IN PIEDI E CONTINUANDO POI CON IL PROCESSO DI RACCOLTA DEI TRONCHI, PRODUZIONE E FABBRICAZIONE FINO ALLA VENDITA.

Country

USA

Language

ENG

Company Website:

<http://www.elimbs.com/>

HARDWOODS MADE EASY

eLIMBS is a Software Solutions and Hardware Solutions provider serving the wood products industry with easy-to-use tools for tracking wood products from the initial standing timber process clear through the harvesting, production and manufacturing process up to and beyond the point of sale.



TIMBER



- Contract Solutions
- Cruise and Bid Solutions
- Handhelds



LOGGING



- Purchase and Settlement
- Inventory Solutions
- Sales and Invoicing
- Consumption and Production
- Scale and Inventory Handhelds



LUMBER



- Grading and Tally Handhelds
- Kiln Loading
- Order Picking
- Inventory Reconciliation



TIMBER MANAGEMENT

We all know that the hardwood lumber production process starts in the forest. Here at eLIMBS, we fully understand the importance of this piece of the puzzle which is why we offer a powerful Timber Management solution.

Contract Management

The management of contracts made with customers, vendors, partners, or employees. Contract management includes negotiating the terms and conditions in contracts and ensuring compliance with the terms and conditions, as well as documenting and agreeing on any changes or amendments that may arise during its implementation or execution.

It can be summarized as the process of systematically and efficiently managing contract creation, execution, and analysis for the purpose of maximizing financial and operational performance and minimizing risk.

Contract Payables

Amounts due on contracts for assets, goods, and services provided by loggers, loaders, dozers and any contract based employment.

Contract Bids

Using our system you will be able to evaluate tree(s) on timber cruise and write a formal proposal to purchase timber.

Contract Depletion and Reconciliation

When you bid you are expecting a certain grade distribution, with our system you are able to compare what grades and prices you were expecting to get with what grades and prices you actually received.

Timber Bid Process and Projections

We all love when numbers work out evenly, however we all know that is not usually the case. We are able to take your cruise data and project out how much you should be receiving based on the sample information for what has previously been done. The bigger the sample is the more precise accuracy we will be able to provide.



TAGGED LOG INVENTORY

eLIMBS' Tagged Log Inventory system is a comprehensive solution, encompassing the entire process from log purchase, all the way through receipt and final consumption.

Management, Production, and Consumption

eLIMBS Log Inventory System is designed to manage your log inventory from purchase, through production and consumption.

Purchasing and Settlement

Our mLog system is entirely integrated with our mTreeTracts timber system providing excellent consistency tracking logs, as well as incoming timber. This portion of mLogs can also help with other tasks such as paying contractors, and purchasing logs that have already been cut.

Bids and Purchase Orders

You are able to tally logs, print out prices 'on the go', and keep track of buyer response.

Sales and P&L Analysis

We have included a toolset that will allow you to monitor sales of logs whether they are purchased or through contract. You will also have the ability to run a comparison from the price paid and the price they were sold for.

Bid Tallies

The eLIMBS Log handheld offers the capability to place bids, based upon estimated logs, in order to help track potential incoming inventory.

Load Tallies

After you purchased the logs and they show up at your location you will be able to see what information about the logs such as: Purchase Agreement, Vendor, Trucker and go through each logs diameter, grade, species, and price.



COMPLETE LUMBER INVENTORY

The eLIMBS complete lumber inventory management system is designed to provide instant access to all of the business critical information, at any point, from any computer or any handheld in your operation, including the following capabilities:

Inventory Locator

Whether you're looking for in-yard inventory, loading a kiln, moving lumber from place to place in your yard(s), the inventory locator is the place to start. By simplifying and integrating all functions, reports, and activities into a central location and search utility, you are quickly up and running and don't have to go different places, following different procedures, for each and every action. Everything begins with the inventory locator, which offers you powerful combined search options to meet all your needs.

Kiln Management

Our kiln management process can be handled directly in the yard, running inventory searches, scanning bar codes with the handheld devices while loading kilns, keying the tag numbers into the handheld, or using the computer system to load the kilns. In addition we have long range scanners allowing you to scan the bundles from the seat of the fork truck, while loading the kilns to eliminate office data entry and transcription errors when handwriting or marking bundle numbers. Unloading kilns is just as easy as loading.

Shipment Management

Managing shipments is easier than ever with eLimbs Handheld shipment management. Simply scan bundle tags or key the tag numbers while loading the truck, select customer/destination information and quickly & easily capture pictures of the loaded truck, and the driver's signature and print the bill of lading.

Customer/Vendor Management

eLIMBS provides a complete management tool for your customer and vendor management that tracks the history of customer and vendor purchase and sales trends, down to the individual load, and shipment detail.

Bar Code Printing, Scanning, and Inventory Control

The eLIMBS system is capable of generating and printing bar coded tags directly from the handhelds or through the computer system. Using high speed bar code printers you can place tag generators at key production locations for ease of use, efficiency, and lower cost than purchasing preprinted tags. If you prefer preprinted tags, you can also scan the tags while entering estimated or full detail bundles.

STOP STENCILING!

Make the Switch to eLIMBS INK™

587245
AS 5/4 1C KE

All species
All surfaces
All conditions

- ✓ Faster
- ✓ Easier
- ✓ Cleaner
- ✓ More Accurate
- ✓ Cost Effective

www.eLIMBS.com 888.520.1951

eLIMBS ink™
Continuing the Handheld Revolution

INBOUND	
	
F0380	
DATE	
THICKNESS	GRADE
SPECIE	LENGTH X LAYERS/PCS

Initializing the Handheld Transfer ...

eLIMBS Control Center

Inventory Tools

- Inventory Locator
- New Bundle (Detail)
- New Bundle (Estimated)
- Received Loads
- Kiln Management
- Import Final Grading Data
- Import eLIMBS Handheld Data
- Production Tracking
- Inventory Verification

Sales Management

- Customer Administration
- Shipment Management

Exit eLIMBS System Setup Support Request

Company name

Enfor Consultant Ltd.

Name

20.

Enfor

Type

DESKTOPSYS

Category

BUSINESSANALYSIS, MANAGE, ROADDESIGN

Description

ENFOR SVILUPPA SOLUZIONI INNOVATIVE PER LA GESTIONE FORESTALE. LE APPLICAZIONI SONO RELATIVE AL PREZZO DEL LEGNAME, L'ANALISI DELL'ORGANIZZAZIONE, LA CRESCITA E LA RESA DEL BOSCO E L'ANALISI VISIVA. LE APPLICAZIONI SONO UTILIZZATE PER RISOLVERE I PROBLEMI DI PIANIFICAZIONE FORESTALE E MIGLIORARE LA COMPETITIVITÀ.

Country

CANADA

Language

ENG

Company Website:

<https://www.enfor.com/>

Waste & Residue :

Logging waste and Residue survey software for BC

Designed for Waste and Residue Surveyors, Forest Industry, Ministry staff and private landowners.

- *For your handheld data collector, laptop and Personal Computer*
- *User friendly and simple data entry*
- *Easy electronic transfer to MOF Waste System*
- *Volume and stumpage compilations on the fly*
- *Crown timber and Private timber modules*



Software Features :

Key Features of Enfor Waste include:

- *User-friendly*
- *Complete logging residue and waste data collection system*
- *Collects all field data for FS161 and FS444*
- *Merge multiple surveyor block data*
- *User adjustable screen format to suit your needs*
- *Create MOF format XML file for uploading to the BC Ministry of Forests, Lands and Natural Resource Operations Waste System*
- *Report for volume and stumpage*
- *Piece Report*
- *Error checking as you work - See below*
- *On-the-fly compilations*
- *All features available on handheld and PC*
- *Pre-programmed with all MOF codes*
- *Replaces old Fox Pro, Residue & Waste System 2.70 (RWS)*
- *Interior and Coastal BC*

Private land module available

Company name

Forest Products Accounting Software

Name

21.

FPA

Type

DESKTOPSYS

Category

ACCOUNTING, INVENTORY, MANAGE

Description

QUESTO SISTEMA È UN SISTEMA DI CONTABILITÀ INTEGRATO COMPLETO PROGETTATO SPECIFICAMENTE PER L'INDUSTRIA DEI PRODOTTI FORESTALI. IL SISTEMA FORNISCE INFORMAZIONI E SOLUZIONI FINANZIARIE IN TEMPO REALE. IL DESIGN AVANZATO PER WINDOWS FORNISCE UN'ARCHITETTURA APERTA BASATA SU STANDARD.

Country

USA

Language

ENG

Company Website:

<http://www.forestproductsaccounting.com/products.html>



FIBER INVENTORY

**Automated Accounting
Systems, Inc.**

PO Box 436

Livingston, AL 35470

The Procurement People

Phone: 800-237-0252

Email:

sales@forestproductsaccounting.com

Overview

The Fiber Inventory module provides a flexible and easy way of tracking products in and out of inventory.

Receipts update the inventory history file when tickets are entered or scale house tickets are posted to the system. The inventory is depleted when shipments are made, or inventory consumption is recorded. The inventory can also be increased or depleted by the entry of inventory transfers and adjustments.

Features

- Full-featured Log Inventory system
- Maintains multiple perpetual inventories
- Tracks inventory movement between intra-company inventories
- Option to book inventory to cost of sales or inventory



**Innovative
Software
Solutions
for the
Forest Products
Industry**

Inventory General Information Window

The screenshot shows a software window titled 'Inventory' with two tabs: 'General Information' (selected) and 'Balance'. The 'General Information' tab contains the following fields and options:

- Code:** 01
- Description:** Log Yard Inventory
- Default G/L Information:**
 - Inventory Base No.:** 1009 (dropdown menu: Inventory - Log)
 - Adjustment Base No.:** 5010 (dropdown menu: Purchases - Production)
- Destination:** DC (dropdown menu: Demo Company Log Yard)
- Source:** LOG YARD (dropdown menu: Demo Log Yard)
- Deplete Inventory At Average Cost
- Status:** Active (radio button selected), Inactive (radio button)

At the bottom of the window are three buttons: 'OK', 'Cancel', and 'Help'.

Log Inventory Reports

- Transaction Detail
- Transaction Summary
- Volume Comparison
- Inventory Balance Summary



FPA

Forest Products Accounting

FIBER INVENTORY

Inventory Transaction

The "Adjustment G/L Information" is only displayed if the inventory transaction type is "adjustment"

The "Transfer "To" Inventory" information is only displayed if the inventory transaction type is "transfer".

The system provides for a thirty-character description field to describe the inventory transaction.

The system provides for a fifteen-character "reference, or ticket number" field.

All applicable fields provide "lookup buttons" that display a selection list of all valid items for the selected field.

The user can print a general ledger posting register for the inventory transaction entered during the current session.

Inventory Transaction

Enter Transaction

Transfer "From" Inventory

Inventory:

Date: Acct. Period:

Description:

Ref/Tick. No:

Type:

Product:

Unit:

Volume:

Cost Per Unit: Total Cost:

Transfer "To" Inventory

Inventory:

Product:

Unit:

Volume:

Cost Per Unit: Total Cost:

Inventory G/L Information

Base:

Division:

Dept. No.:

Inventory Balances Window

The Inventory Balances window displays the volume, total value, and value per unit for all products currently stored in inventory.

If applicable, the total logs and total stems for each product is also displayed.

The total value for all products is also displayed at the bottom of the window.

The inventory balances are increased or decreased by ticket entry, or scale house transactions.

Inventory

General Information Balances

01 - Log Yard Inventory

Code	Description	Unit	Volume	Value	Logs	Stems	Avg Cost
HPW	Hardwood Pulwood Tree Length	TN	117.000	2,574.00	0	0	22.00
PPW	Pine Pulwood Tree Length	TN	59.000	1,180.00	0	0	20.00
R01	Red Oak #1 Sawtimber Cut To Lg	MBF	6.117	3,070.00	71	0	502.01
			Totals ==	6,824.00	71	0	

"The Procurement People"

Company name

Ganinimobile

Name

22.

Ganinimobile

Type

MOBILEAPP

Category

BUSINESSMANAGEMNET, HARVEST, MANAGE, TRACKING

Description

QUESTO SISTEMA PERMETTE DI UTILIZZARE LO SMARTPHONE O IL TABLET E CONSENTE DI COLLEGARE ANCHE DISPOSITIVI E SENSORI "BLUETOOTH" PER RACCOGLIERE DATI SUL CAMPO, POI GEOLOCALIZZABILI. E' RIVOLTO GENERICAMENTE AD ATTIVITÀ AGRICOLE.

Country

USA

Language

ENG

Company Website:

<https://ganinimobile.com/>



Ganinimobile

Mobile Data Collection for Agriculture and Field Services

Data Collection

- *Capture your data for labor, equipment, materials, inspections, etc. for all Agricultural businesses, Harvesting, Sales, Procurement, Commercial services (Lawn Maintenance, Landscaping, Pool Services, Pest Control) and any other business where you collect data in the field.*

Easy to Use

- *All of the data is captured on an “Android” smartphone or tablet, the system uses “Drop-down” menus and with a few clicks and entries you can collect all the data right in the field, no need for messy pencil and paper.*

Cost Effective

- *There is no software to purchase, no need for expensive, proprietary handheld units, the “Free” app loads into any “Android” smartphone or tablet, your staff can use the one they already have.*



Company name

iCruisePro

Name

23.

iCruisePro

Type

DESKTOPSYS

Category

DATACOLLECTION, INVENTORY, MEASURE, REPORT

Description

UNA APP DI RACCOLTA SUL CAMPO DI DATI SUI TRONCHI.
I DATI RACCOLTI VENGONO ARCHIVIATI E POSSONO ESSERE POI UTILIZZATI VIA
DESKTOP. RACCOGLIE ANCHE FOTO E COORDINATE.

Country

USA

Language

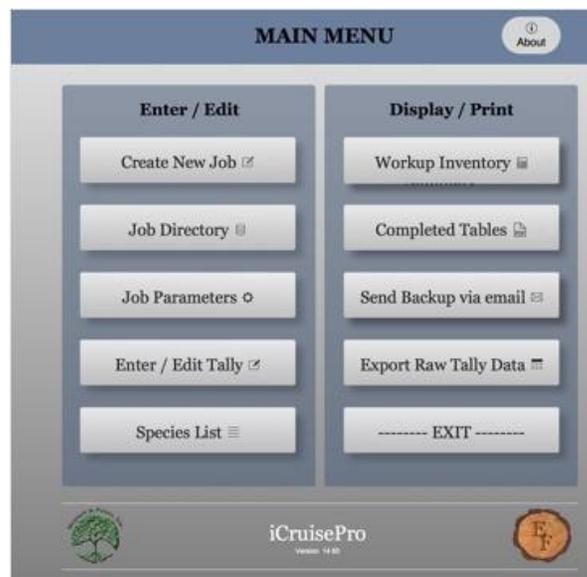
ENG

Company Website:

www.icruisepro.com

iCruisePro

A timber data collection app for the iPhone/iPad where everything is done in the field. You do not need to transfer anything to and from a computer. The iPhone/iPad does all the work. You simply enter the tally data, and create the reports on your mobile device. You can then e-mail or text the final reports to anyone you choose. It also collects photos and latitude/longitude of the plots - if you need them.



iCruisePro for desktop offers most of the same features from the IOS version to be able to manage, organize, and distribute forest inventory data. It is available for Mac and Windows**

iCruisePro for iPad and iPhone is an innovative software that utilizes the portability and computing power of these handheld devices. You can tally the timber for your cruise, record GPS data, email files and reports from the field, etc. Powerful, flexible, portable, and affordable.

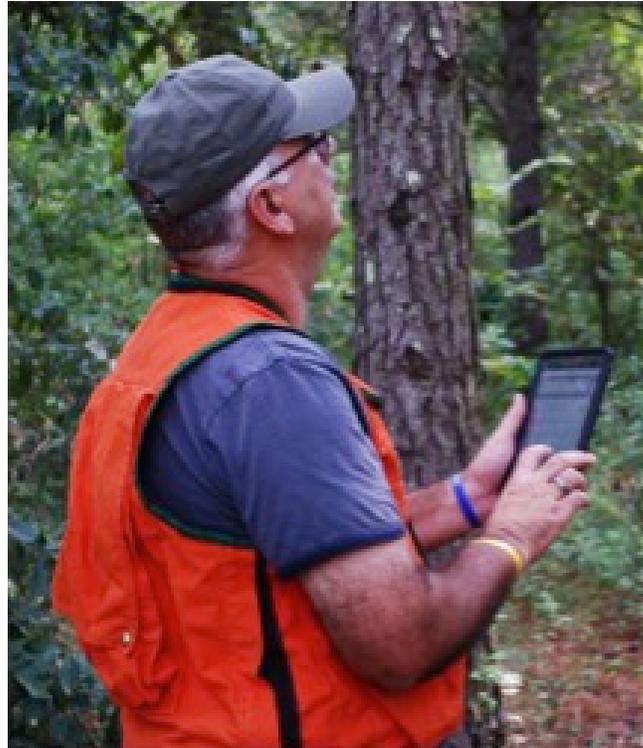
The screenshot shows the iCruisePro desktop application interface. At the top, it displays 'AT&T' and '7:03 AM'. The main window is titled 'Landscape Name: Lands of Pitt Enterprises' and 'Plot Data'. It contains several data tables and controls.

Plot Information				Site Index Readings			Notes
Plot	Unit	Stand	Stand Acres	Tree1	Species	Age	Height
5	301	1	157				

Site	Origin	Age	Brush	SI	Tree2	Tree3
1	2	23	2	2		

Tree Data					
Tree #	Product	Species	DBH	Height	#Trees
1	3	2	6	2.5	1
2	3	2	6	2	1
3	2	2	8	2	1
4	2	2	10	2	1

At the bottom of the interface, there is a 'Get GPS Location' button and a status box showing: 'Lat: 30.402339', 'Long: -90.907641', 'Alt: 16.4'. There are also 'Take Photo' and 'View Photo' buttons, and a 'Modified By: Pomeroy (iPad Mini)' field with a timestamp 'Modified: 10/27/2016 7:03:34 AM'.



Company name

3LOG Systems

Name

24.

LIMS

Type

DESKTOPSYS, MOBILEAPP

Category

BUSINESSMANAGEMNET, INVENTORY, MANAGE

Description

IL SOFTWARE DI INVENTARIO E DI GESTIONE DI 3LOG (LIMS) È UN PRODOTTO MULTI-FUNZIONE PROGETTATO PER SODDISFARE LE ESIGENZE OPERATIVE, CONTRATTUALI, AMMINISTRATIVE, CONTABILI, DI PIANIFICAZIONE E DI RENDICONTAZIONE, SU TUTTA LA FILIERA LEGNO.

IL SISTEMA È DISPONIBILE SU SMARTPHONE. LIMS È INTEGRABILE AL SISTEMA DI CONTABILITÀ.

Country

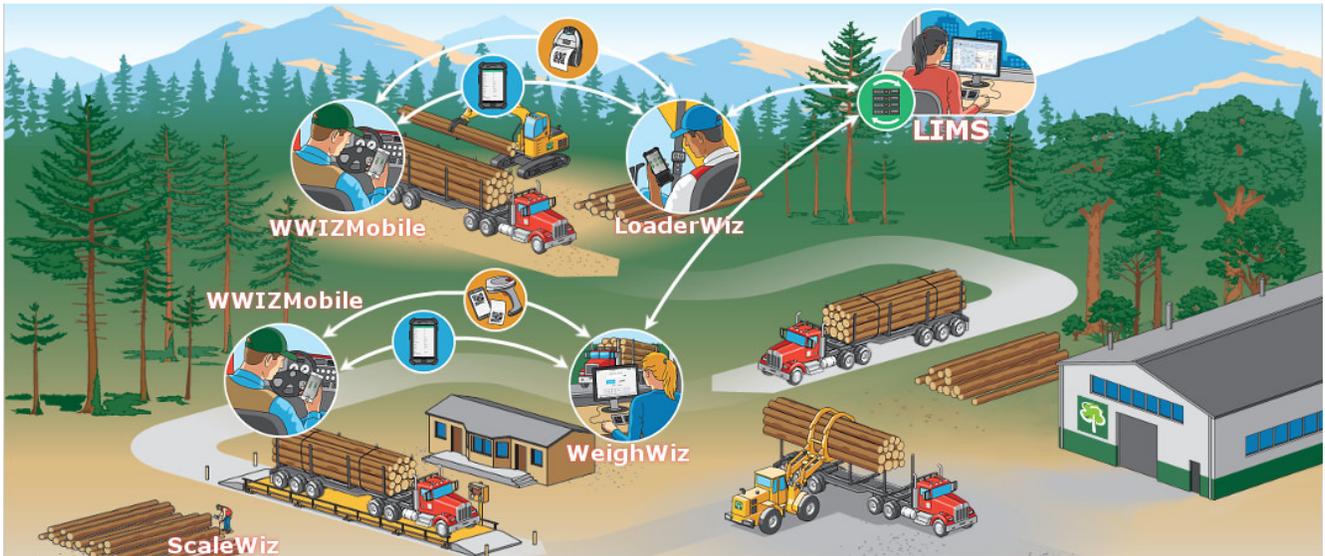
CANADA

Language

ENG

Company Website:

www.3log.com



Log Inventory & Management System (LIMS)

LIMS — the comprehensive business management solution

LIMS is powerful business management software for the timber and wood products industries. It combines the features of a log or timber accounting system with support for silviculture, wood procurement, contractor payables, vendor and contract management, log and wood products inventory, sales and consumption, business planning, querying, reporting, and accounting.

Whether you are a timber investment management organization, a real estate investment trust, a forest or wood products company, a biomass facility/utility, a softwood/hardwood lumber mill, pellet mill or pulp and paper mill operator, LIMS is the full-featured system you've been waiting for.

As an integrated system, LIMS requires that data be entered once and only once. The software uses a modern, centralized database design, so all your business information is available in one place in continual real-time. Your staff need only learn one, easy-to-use Windows-based system.

Weight scaling made easy with WeighWiz

Our Solution

WeighWiz is one of the most advanced weigh scale applications available in the market today. WeighWiz can operate in attended mode or unattended mode for peak times when there is no Weigh Master available. It records information entered by the truck driver or your company weigh master and captures readings from the weigh scale equipment. WeighWiz can operate on a single scale platform functioning as both the weigh-in and weigh-out scale. It can also control dedicated weigh-in and weigh-out scales.



The software creates a completed TM9 ticket, which is used by the **Log Inventory & Management System (LIMS)**, to pay the respective contractors, record inventory, report stumpage due, and manage resources. As the system captures data, it translates it into an easy-to-understand formatted display in a user-friendly graphical interface.

LIMS (Log Inventory and Management System) - Demo Company

Quick Search

File Configuration Administration Reports Contract Delivery Timber Payment Inventory WeighScale Window Help

Company Division Business Unit State County Document Setup Approval Setup Approver Approval Request Approval Status Audit Setup Audit Info

Maintenance Approval Audit

Task

Vendor Supervisor Source Trip Ticket

Standard Rates Contract Loads

Advance/Holdback Settlement Manager

All Contract

DivisionID	ContractID	BuID	VendorID	Effective Date	Finish Date
1	0000016590	AMO	0003037084	9/18/2009	12/31/2009 11:59:59 PM
1	0000016569	AMO	0003132445	4/16/2009	12/31/2009 11:59:59 PM
1	0000016570	AMO	0003061021	4/16/2009	12/31/2009 11:59:59 PM
1	0000016594	AMO	0003037084	10/15/2009	12/31/2009 11:59:59 PM
4	0000016566	APM	0003136266	4/14/2009	12/31/2009 11:59:59 PM
4	0000016567	APM	0003136266	4/14/2009	12/31/2009 11:59:59 PM
4	0000016568	APM	0003136266	4/14/2009	12/31/2009 11:59:59 PM
4	0000016571	LGV	0003136266	4/17/2009	12/31/2009 11:59:59 PM
4	0000016572	LGV	0003136266	4/17/2009	12/31/2009 11:59:59 PM
4	0000016573	LGV	0003136266	4/21/2009	12/31/2009 11:59:59 PM
4	0000016574	LGV	0003141448	4/21/2009	12/31/2009 11:59:59 PM

(2/25/2009, 2/24/2010)

Related Reports

Report Name	Last Run
Schedule C-DIRECT LOG PURCHASE	12/15/2009 3:15:17 PM
Schedule C-SERVICE	1/22/2010 5:19:43 PM
Schedule C-STUMPAGE SALE	7/17/2009 3:40:39 AM

Lims Service Status

Notification

Company name

StumpGeek

Name

25.

Logged It

Type

DESKTOPSYS

Category

BUSINESSMANAGEMNET, MANAGE

Description

QUESTO È UN SOFTWARE DI GESTIONE DELLE ATTIVITA' IN BOSCO, RELATIVE ALLA RACCOLTA DEI TRONCHI E AD ALTRE INFORMAZIONI RELATIVE AL LAVORO IN BOSCO (ORE DI LAVORO, NUMERO PEZZI, ECC.).

Country

USA

Language

ENG

Company Website:

www.stumpgeek.com/



StumpGeek

Business Management Software

Logged It is a business management software application designed by a Logger for Loggers, to work the way a timber professional thinks. This new application strives to simplify the management of your timber harvesting business.

Logged It allows you to track your loads of timber hauled by job with the associated money in and money out. The entry forms have built in conversions to do the calculations for you. Invoices or payment statements can then be generated based on the load entries you made, so you can pay the land owner, freight, contractors, etc... Logged It also allows you to track other work related items, such as hours, tanks of fuel, loads skidded, essentially anything else you want to track, summarize, pay, or invoice. Logged It also provides a simple checkbook style money management log, so you can easily track expenses for a job or for your entire business.

Jobs

It	\$0.00
pw15	\$19,953.73
pw14	\$9,700.95
rrf13	\$6,240.00
win3	\$118,302.26
tp13	\$0.00
a13	\$8,924.48
dm13	\$2,738.06

Timber

Last 12 Month Summary

Total Cords	1279.608
Per Cords	\$123.84
Total	\$158,466.11

Money

Expense	\$3,830.42
business	\$13,179.41
test	\$0.00

Invoices

Not Invoiced: \$158,585.37
Not Received: \$0.00

Payment Statements

Not Created: \$7,568.25
Not Paid: \$17,945.80

Contact
Call or text Wes 715-612-6189
Email team@stumpgeek.com

Company name

Mason Bruce & Girard

Name

26.

MB&G Mobile Map

Type

MOBILEAPP

Category

INVENTORY

Description

MB&G MOBILE MAP PERMETTE LA RACCOLTA DATI PER COSTRUIRE L'INVENTARIO FORESTALE E LA SUCCESSIVA GESTIONE COMPLETA

Country

USA

Language

ENG

Company Website:

www.masonbruce.com



MB&G MobileMap™ Cruise: Forest and Timber Field Data Collection Made Easy.

Timber cruising has never been easier! Loaded with industry-leading MBG Cruise software, MobileMap™ gives you command of your forest inventory program from planning to data delivery. With GIS functionality, efficient data collection, data validation, streamlined workflows, and improved information management, you can now collect quality inventory data utilizing low cost consumer mobile devices.



MBG Cruise contains everything you need to collect detailed forest inventory data including:

- Stand, plot, tree and log data
- Critical information on when and who collected the data
- Stand level data including stand ID, type of plots, and Basal Area Factor (BAF)
- Tree level data including species, age, Diameter at Breast Height (DBH), tree height, taper diameter and height, crown ratio, tree component or group codes
- Log level data including log grade, length, defect and notes
- Completely configurable attributes including data type (such as text, integer, floating point) and allowed values (such as code lists, range of values)
- Validation rules can be applied at the individual attribute level (such as allowed species codes) or among multiple attributes (such as height is required if tree has a broken top)



MobileMap



Built using Esri technology from the ground up, MB&G MobileMap™ seamlessly fits into your enterprise GIS and syncs with ArcGIS Server and ArcGIS Online; this means your data is safe, up-to-date, and securely assessable to your team—all without an Internet connection! While other cruising applications offer basic offline functionality, none rival MobileMap Cruise's flexibility, capability, and performance.

MBGTools C:\Users\sfairwea\Desktop\AstoriaWatershed_Inventory_YE2013.mdb - [Stand Selector]

File Inventory Data Operations Reports Utilities Database Management User GIS Window Help

Show
 All Stands
 Selected Stands

	StandID	Sel	Src	Net Acre	In
▶	1	1	C	14.2	20
	2	1	C	21.3	20
	3	1	C	16.8	20
	4	1	C	67.7	20
	5	1	C	36.2	20
	6	1	C	44.9	20
	7	1	C	12.5	20
	8	0	N	22.8	0

Stand Selection

- Select All
- Unselect All
- Reverse Selection
- Select By Cruise

Reports menu items:

- Stand Summary
- Group Summary Reports
- Custom Group Summary
- Volume by Product Report
- Log Stock Report
- Log Stock Report 2
- Harvest Scenario Reports
- Net Board Feet By Age Class
- Net Cubic Feet By Age Class
- Down Woody Debris - Tons per Acre

Cruise & Collect



Inventory is easily verified or corrected with the industry's leading software loaded right on your device.



Software runs on any Android device, leaving you to pick the one best for your use.



Built for Foresters

Made for Large Inventories - Need imagery at multiple scales and over large geographic areas? MobileMap Cruise supports large data sets as well as unlimited base maps and feature types. Android devices with MicroSD cards make for easy load capabilities and you can even use multiple cards for larger data sets!

Powerful Field Data Capture Tools - With MobileMap Cruise you are continually aware of your location and can search for stands and plots using any attribute. Our navigation tools show distance and direction to your destination, and can even alert you when you arrive.

Streamlined Mobile Data Workflow - No more cabling to your data logger, emailing cruise stand and plot location Shapefiles, or worrying if your team is all viewing the latest data set. MobileMap Cruise streamlines cruise data collection and dissemination for improved efficiency and collaboration.

Custom Data Collection Forms - You can use our standard cruise specification or implement your own specifications and custom collection forms. Form design is optimized for speed and accuracy.

Advantages of Android Platform

With the freedom to choose your own field devices, the Android platform is the ideal application for performance, capability, and durability. From its inception, Android focused on providing options – options like manufacturers, connectivity, and batteries – all at a lower cost. We built MobileMap Cruise on the Android platform to capitalize on



Company name

MillTech

Name

27.

Mill Tech Inventory Management

Type

DESKTOPSYS

Category

INVENTORY, MANAGE, PURCHASE, SALE

Description

SOFTWARE PER GESTIRE UN INVENTARIO DI PRODOTTI FORESTALI (AD ESEMPIO IN SEGHERIA). UTILIZZA BARCODING / RFID, PERMETTE DI GESTIRE ANCHE ASPETTI AMMINISTRATIVI, CONTABILITÀ, GESTIONE CLIENTI, GESTIONE FINANZIARIA, TRATTAMENTO DEGLI ORDINI, GESTIONE DEI PREZZI, TRACKING DELLA PRODUZIONE.

Country

CANADA

Language

ENG

Company Website:

milltechims.com/

Mill Tech

Inventory Management Solutions :

The Inventory module consists of Receiving, Production, Shipping and Transportation. You can enter volume or tagged products along with associated costs to create your inventory.

Add value by manufacturing, remanufacturing or cut to order processes and finish by shipping your goods to your customers.

The screenshot displays the 'Inventory Management' window. At the top, there are tabs for 'Customer Information' and 'Product Search'. Below these are fields for Customer Name, Product Name, Unit Price, and YTD Sales. The 'Selected Products' section contains a table with columns for Location, Description, and weekly quantities (0-24). The table shows two product entries with their respective weekly quantities and an 'Available' row. The bottom of the window has a 'Product Display' section with options for 'Inventory' and 'All Products', and a 'Show Product In' section with options for 'Pcs / Pkg' and 'Volume'. There are also buttons for 'Create Order' and 'Create Order'.

Location	Description	0	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
DELTA	2 x 4 DP 2BTR BSH GRN	20	25	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	Week Of: 01/15/2007	3	2	3	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Week Of: 01/22/2007	3	3	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	Week Of: 01/29/2007	4	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	Orders	4	6	2																						
	Available	22	30	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
	Price	210	210	228	229	228	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240
	Enter Total	3	2	1	2																					
DELTA	2 x 6 DP 2BTR BSH GRN	20	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	Week Of: 01/15/2007	3	2	3	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Week Of: 01/22/2007	6	2	7	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3
	Week Of: 01/29/2007	11	6	6	5	5	7	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4
	Orders	2		2																						
	Available	28	29	31	32	32	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34

Receiving

Enter received tags or volume via handhelds or touch screen or simply right click and create a receiving from the MillTech PO system.

Track your purchase costs and convert currency, unit of measure and display as straight or random length.

Shipping

Easily create shipping documents from orders, or via Handhelds, that capture signatures and load pictures. Straightforward back-order system for partial shipments.

Production / Transfers / Kiln Runs

Consume and produce volume or tags and let the system track costs and value your outturn products based on a number of proven methods.

Kiln runs or Transfers? Keep the same tag numbers on the outturn with a click of an option

Flexibility

MillTech offers multiple currency and units of measure to allow you to store your inventory the way you want it.

Interface ready: Along with our handhelds and touch screens, MillTech can provide interfaces to PLC and other in-mill data collection devices.

Costing

Benefit from many different costing methods including average, actual, market and standard. Let the system track labor, material and freight costs for your reporting and accounting needs.

Reporting

Produce fully customizable forms and reports (including your logo) on either pre-printed or laser generated documents.



Company name

I.R.I.S.(R) Institute

Name

28.

PC CRISALIS(R)

Type

DESKTOPSYS

Category

ACCOUNTING, CONTRACTMANAGEMNET, HARVEST, MANAGE, TRACKING

Description

SOFTWARE PER LA GESTIONE DI RISORSE NATURALI, UTILIZZABILE SIA DA PC CHE SMARTPHONE. INCLUDE IMMAGINI GEOGRAFICHE (GIS) DEL TERRITORIO USA. INTEGRA ASPETTI AMMINISTRATIVI QUALI GESTIONE DEL CONTRATTO, CONTABILITÀ DEI COSTI, GESTIONE DEL CLIENTE, GESTIONE FINANZIARIA, GESTIONE DEL RACCOLTO, TRATTAMENTO DELL'ORDINE, GESTIONE DEI PREZZI, TRACKING DELLA PRODUZIONE, GESTIONE DEI FORNITORI.

Country

USA

Language

ENG

Company Website:

www.irisinfosys.org



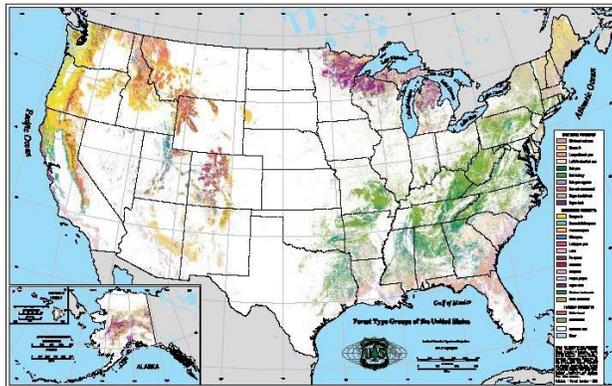
PC CRISALIS(R)

by I.R.I.S.(R) Institute

CRISALIS(R) is a "super-app" software program that ties together office PC's and handheld PC's; 20+ For-Fee and 55+ For-FREE Natural Resources-related software programs; hundreds of FREE imagery/mapping/GIS datasets; and technical reference libraries into an ALL-IN-ONE Natural Resources Information System! Since 1998, CRISALIS(R) has helped all kinds of professionals improve Natural Resources Management and Conservation, while also helping them work faster, cheaper, and smarter!

Forestry Features :

- *Barcoding / RFID*
- *Contract Management*
- *Cost Accounting*
- *Customer Management*
- *Financial Management*
- *Harvest Management*
- *Order Processing*
- *Pricing Management*
- *Production Tracking*
- *Supplier Management*
- *Transportation Management*
-



Company name

D. R. Systems

Name

29.

Phoenix

Type

DESKTOPSYS

Category

CONTRACTMANAGEMNET, INVENTORY, MANAGE, ROADDESIGN

Description

PHOENIX È UN SOFTWARE PER LO SVILUPPO E LA GESTIONE DI SISTEMA INFORMATIVI PER LA GESTIONE DEL BOSCO

Country

CANADA

Language

ENG

Company Website:

www.drsystemsinc.com

Phoenix^{PRO} is the most widely used Silviculture Activity tracking

DRS

Phoenix^{PRO}®

Forest Information System

system in British Columbia. Forest practitioners need tools that make their jobs easier, improve their efficiency, and still provide timely and valued data for planning, monitoring and reporting. Phoenix^{PRO} is the result of years of accumulated knowledge in software design combined with an understanding of “on the ground” needs of foresters. With many locations throughout BC, our clients continue to contribute their ideas and suggestions making Phoenix^{PRO} an advanced, sophisticated land management system that is both flexible and easy to use.

The screenshot displays the Phoenix PRO software interface. On the left is a navigation sidebar with options like 'Dashboard', 'Openings', 'Timber Admin', 'Configuration', 'Master List', 'Data Entry Tools', and 'Manage DCR Rules'. The main content area is titled 'Summary' and shows details for 'File ID: 25-1-A12345'. It includes fields for 'Early Harvest Start' (2004-12-01), 'Regen Due' (2008-12-01), 'Green Up Met' (2008-05-04), and 'FG Due' (2019-12-01). Below this are two tables: 'Standard Units' and 'Forest Cover'. The 'Standard Units' table has columns for SU, Area, Regen Due, Regen Met, FG Due, and FG Met. The 'Forest Cover' table has columns for Stratum, SU, Area, State, Inventory Status Type, and Inventory Label.

SU	Area	Regen Due	Regen Met	FG Due	FG Met
1	42.5	2008-12-01	2008-05-04	2019-12-01	
2	16.7	2014-12-01	2008-05-04	2024-12-01	
Total	79.2				

Stratum	SU	Area	State	Inventory Status Type	Inventory Label
A	1	42.5	FG	BMA ART	PU/SO[1;0;2]B/C[0;0;5]Sw[20][1;0;3]



Company name

Softree Technical Systems

Name

30.

RoadEng Forest Engineer

Type

DESKTOPSYS

Category

MEASURE, ROADDESIGN

Description

SOFTWARE PER IL SUPPORTO ALL'ATTIVITÀ DI PROGETTAZIONE DELLE STRADE
DA UTILIZZARE PER L'ESBOSCO

Country

CANADA

Language

ENG

Company Website:

www.softree.com



Consistently **Better** Design

- **Interactive Access Road Design**
- *Design access roads from start to finish with constant feedback from real-time window interactivity. Enter survey data, create accurate terrain models, design horizontal and vertical alignments, edit cross sections, and perform earthwork calculations. A template editor allows you to easily create turnouts, widen curves, and put in bridges, landings and cut benches.*
- **LiDAR-Based Route Planning**
- *Both RoadEng and Terrain Tools handle more than 5 million LiDAR points with ease and include functions for LiDAR thinning outside your areas of interest. Design and cost multiple roads in the context of each other. Plan road networks. Evaluate road options before going into the field. Take your LiDAR map & preliminary design with you to the field, if you want to.*
- **Field Solutions**
- *Designed to work on all Windows 10 enabled tablets and compatible with most internal/external GPS devices. GPS integration in all modules allows you to view where you are in Plan, Profile, or Section view at any time. Create GPS tracks on your primary survey data.*
- **Site Design**
- *RoadEng and Terrain Tools both contain tools for creating site plans for bridges, log-dumps, major culverts, fish passage and stream restoration projects.*
- **Logging Analysis**
- *Analyze payload, clearance, and line tensions. Evaluate different types of*

equipment and logging configurations. Plot various carriage positions for a given midspan deflection (third point method).

Survey Data Management

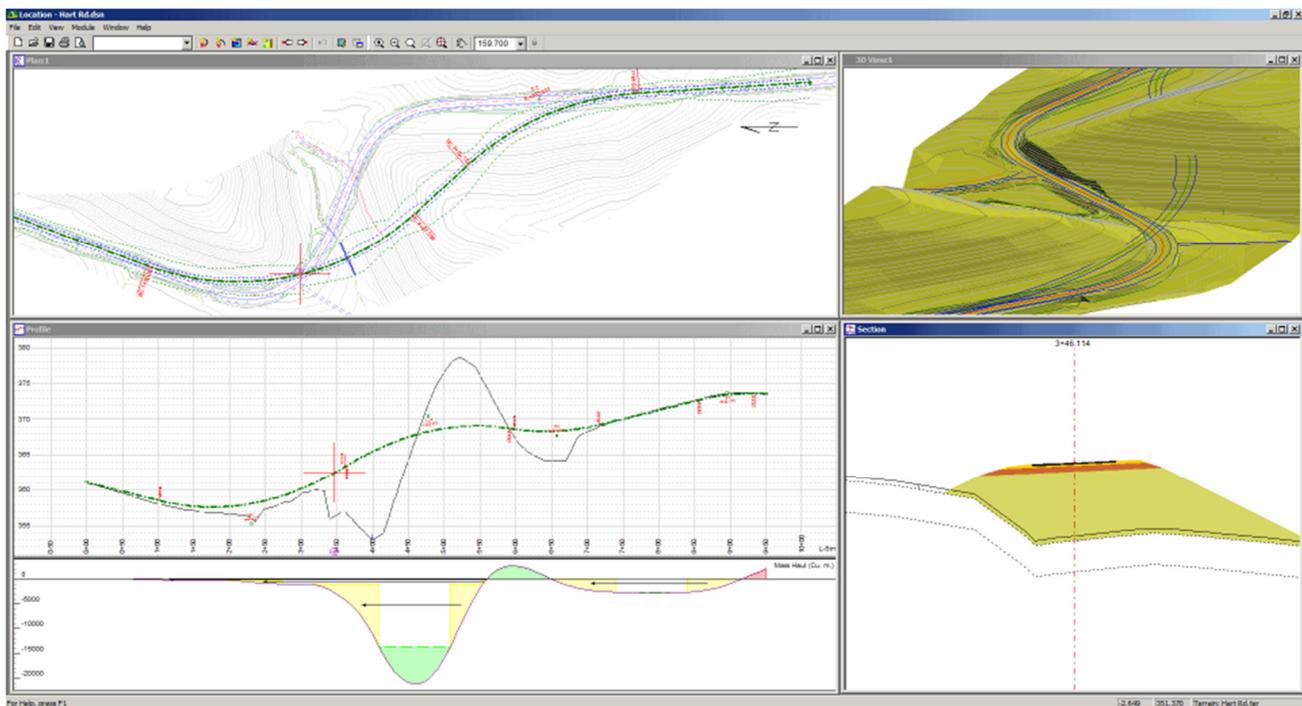
Traverse or P-Line data entry or import from a tablet device. Boundaries, tie lines, cable deflection lines, and road & site surveys can be entered in a variety of formats.

Culvert Design

Interactive culvert editor panel allows you to modify culvert position, diameter, type, length, skew and gradient. Add, edit and remove culverts using the culvert editor panel. Design options available for both natural stream crossings and cross drains.

Multi-Plot Report Builder

Easily share and showcase your design with Multi-Plot Report Builder. Print out plan, profile, and cross-section data as one document. Simplify your presentation of deliverables with single document control.



Company name

BCS Woodland Software

Name

31.

The Logger Tracker

Type

DESKTOPSYS

Category

HARVEST, TRACKING

Description

LOGGER TRACKER È UN PACCHETTO PER LA SIMULAZIONE OFF-LINE DELLE ATTIVITÀ FORESTALI, DAL LIVELLO DI GESTIONE DEI TRONCHI AL LIVELLO DELLE ATTIVITÀ IN SEGHERIA.

Country

AUSTRALIA

Language

ENG

Company Website:

www.halcosoftware.com/

Please visit our web site at www.halcosoftware.com for more information.

Please send resume and covering letter to:

HALCO Software Systems Ltd.

Attention: Ms. Mabel Chu

E-mail: hr@halcosoftware.com

Company name

Timbersmart

Name

32.

Timbersmart

Type

DESKTOPSYS

Category

BUSINESSMANAGEMNET, INVENTORY, MANAGE, PLANNING, PURCHASES, SALE, SAWMILL

Description

TIMBERSMART È UNA SOLUZIONE COMPLETA PER LO SVILUPPO DI SISTEMI INFORMATIVI PER L'INDUSTRIA DEL LEGNAME E DELLA TRASFORMAZIONE DEL LEGNO CHE INCLUDE GESTIONE DEL LEGNAME, DELLE ATTIVITÀ DI SEGHERIA, GESTIONE DEL CLIENTE, COMMERCIALIZZAZIONE, ACQUISTO, IMPORTAZIONE E DISTRIBUZIONE DI LEGNAME, GESTIONE DEL PUNTO VENDITA.

Country

NEW ZEALAND

Language

ENG

Company Website:

<https://www.timbersmart.co.nz/>



Timbersmart Australia provides a suite of products specifically at the timber and timber-related industries - including sawmilling, timber processing, custom processing, timber trading, timber importing, timber distribution, remanufacturing and point of sale.

Timbersmart sawmill

The sawmill product has been specifically designed to handle small to medium sawmilling operations in both softwood and hardwood. It has the ability to track pack and rack information from the green mill, processing through the various production areas and finally the sale to the customer. It is a multi-branch, multi process, business analyzing system that can link to a financial package of your choice.



Timpack Works

Timpack Works is business software developed specifically for timber merchants, retail timber and hardware stores, timber wholesalers and panel product re-sellers.

TimberXchange

This product allows customers and suppliers to send and receive documents from each other in a format that each party can understand.

Hand Held Stocktake

Increase the accuracy of your stocktake and decrease the time taken to collect this information and reconcile your stock.

Company name

Tree Tracker

Name

33.

Tree Tracker Software

Type

DESKTOPSYS

Category

INVENTORY, MEASURE, RISKMANAGEMENT, SAFETY

Description

SOFTWARE PER L'INVENTARIAZIONE E LA GESTIONE DELLA FORESTA URBANA

Country

IRELAND

Language

ENG

Company Website:

www.treetrackersoftware.com

Tree Tracker



Using over 50 years of Urban Forestry experience as consultants, programmers and inventory data collectors, Tree Tracker® software has been developed by professionals who understand the importance of usable inventory software.

Addresses, Tree and Site attributes, Service Requests, and Work Histories are all on the same screen. There is no need to cycle through menus, browse back and forth, or sift through windows on top of windows to see inventory information.

An essential component to managing a tree population is mitigating risk. Tree Tracker® prioritizes tree risk by analyzing size, location, and maintenance data. Tree risk is calculated within an adjustable twenty point system rather than the two to three point hazard priorities of other systems. Tree Tracker's® risk assessment allows a community to prioritize pruning and removal maintenances simultaneously.

Tree Tracker® data fields are designed to take full advantage of the USDA Forest Service's i-Tree Streets program. Using a simple export function, all relevant tree inventory data are available for input into i-Tree Streets. This will quantify a street tree population's value for environmental and aesthetic contributions.

Tree Tracker - Site Form

ADDRESSES			SERVICE REQUESTS		
Address	Street	Assigned?	Caller Name	Caller Address	Inspector
▶ 17934	Adams Dr	<input type="checkbox"/>	Ken Selwonk	17934 Adams	12/22/2009
17942	Adams Dr	<input type="checkbox"/>			By: JMK
17943	Adams Dr	<input type="checkbox"/>	Phone 1 / 2	(555) 555-5555	(555) 555-5555
17980	Adams Dr	<input type="checkbox"/>	Received Date	12/11/2009	By: JMK
17981	Adams Dr	<input type="checkbox"/>	Request	Stump	Inspector Comments
17984	Adams Dr	<input type="checkbox"/>	Priority	1	Stump Removed 1/15/10
<input type="button" value="Add"/> <input type="button" value="Edit"/> <input type="button" value="Find"/> <input type="button" value="Delete"/> <input type="button" value="Map"/>			<input type="button" value="Add"/> <input type="button" value="Edit"/> <input type="button" value="Print Request"/> <input type="button" value="Delete"/>		

TREES / PLANTING SITES			
Block / Location / Inventory: On Street: Adams Dr From Street: Pearl Rd To Street: Big Creek Pkwy Side: Even Side of Lot: Front Tree#: 1 Area: Area 3 Mngd By: City Location: TreeLawn Land Use: Residential Date: 12/23/2003 By: ARB Inventory: 12/23/2003 ARB Project: Fall 2009 Planting	Tree Attributes: Species: Planting Site Small Priority: Type Maintenance: N/A Plant Condition: N/A Wood: N/A Leaves: N/A Diameter: 0 Failure Size: N/A Site Attributes: Wires: Yes Hardscape Damage: No Root Space: 15	Observations: Remove Hardware Mulched Improperly Planted Improperly Pruned Improperly Pest Problem Mechanical Damage Cavity/Decay Root Problem Sidewalk Grate/Guard Poor Location Reinspect Underground Utilities	Notes: <div style="border: 1px solid black; padding: 5px;"> WORK HISTORIES Type of Work: Prune Work Date: 12/30/2009 Crew: ARB Man Hours: 3.00 Costs: \$40.00 Work ID: 17,457 History 1 of 2 <input type="button" value="Add"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/> </div>
Tree 1 of 8 at this address Tree Value: \$0.00 Risk Rating: 0 out of 20 site ID: 18,426			
<input type="button" value="Add"/> <input type="button" value="Edit"/> <input checked="" type="checkbox"/> Auto-Fill when Adding? <input type="button" value="Delete"/> <input type="button" value="Browse"/>			

Address	Side/Tree#	Re-moved	Area	Location	Species	Maintenance Priority / Type	Condition Wood/Leaves	DBH	Failure Size	Wires	Hdscap Dmg	Root Space	Tree ID	Managed By	Land Use
17934 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	Yes	No	15	18,426	City	Residential
17934 Adams Dr	F2	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	Yes	No	15	34,326	City	Residential
17934 Adams Dr	F3	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	Yes	No	15	34,327	City	Residential
17934 Adams Dr	F4	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	Yes	No	15	34,328	City	Residential
▶ 17934 Adams Dr	F5	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	Yes	No	15	34,329	City	Residential
17934 Adams Dr	F6	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	Yes	No	15	34,330	City	Residential
17934 Adams Dr	F7	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	Yes	No	15	34,331	City	Residential
17934 Adams Dr	F8	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	Yes	No	15	34,332	City	Residential
17942 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	Yes	No	15	18,427	City	Residential
17943 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	No	No	15	18,420	City	Residential
17980 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	Yes	No	15	18,428	City	Residential
17981 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	No	No	15	18,419	City	Residential
17984 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	Yes	No	15	18,429	City	Residential
17985 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Ash, White	Routine - Thin	Fair - Fair	12	00 to 03	No	Yes	15	18,418	City	Residential
18022 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	Yes	No	15	18,430	City	Residential
18030 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	Yes	No	15	18,431	City	Residential
18031 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	No	No	15	18,416	City	Residential
18031 Adams Dr	F2	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	No	No	15	18,417	City	Residential
18069 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	No	No	15	18,415	City	Residential
18072 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	Yes	No	15	18,432	City	Residential
18073 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	No	No	15	18,414	City	Residential
18112 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Maple, Red	Immediate - Clean	Good - Good	12	04 to 12	Yes	Yes	15	18,433	City	Residential
18115 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	No	No	15	18,413	City	Residential
18119 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	No	No	15	18,412	City	Residential
18158 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	Yes	No	15	18,434	City	Residential
18159 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	No	No	15	18,411	City	Residential
18162 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	Yes	No	15	18,435	City	Residential
18200 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	Yes	No	15	18,436	City	Residential
18201 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	No	No	15	18,410	City	Residential
18205 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	No	No	15	18,409	City	Residential
18208 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	Yes	No	15	18,437	City	Residential
18247 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	No	No	15	18,408	City	Residential
18250 Adams Dr	F1	<input type="checkbox"/>	Area 3	TreeLawn	Planting Site Small	N/A - Plant	N/A - N/A	0	N/A	Yes	No	15	18,438	City	Residential

Company name

UVIO

Name

34.

UVIO FMIS

Type

BROWSER-BASEDAPPLICATION

Category

INVENTORY, MANAGE, PLANNING

Description

SOFTWARE PER LO SVILUPPO DI SISTEMI INFORMATIVI PER GESTIRE LE FORESTE E I TERRITORI BOSCHIVI, MIGLIORARE LA PIANIFICAZIONE, LA MANUTENZIONE, IL CONTROLLO E IL RENDIMENTO FINANZIARIO. PERMETTE LA GESTIONE DEI CONTRATTI, LA GESTIONE FINANZIARIA, LA GESTIONE DEI FORNITORI, LA GESTIONE DEI TRASPORTI DEL LEGNAME

Country

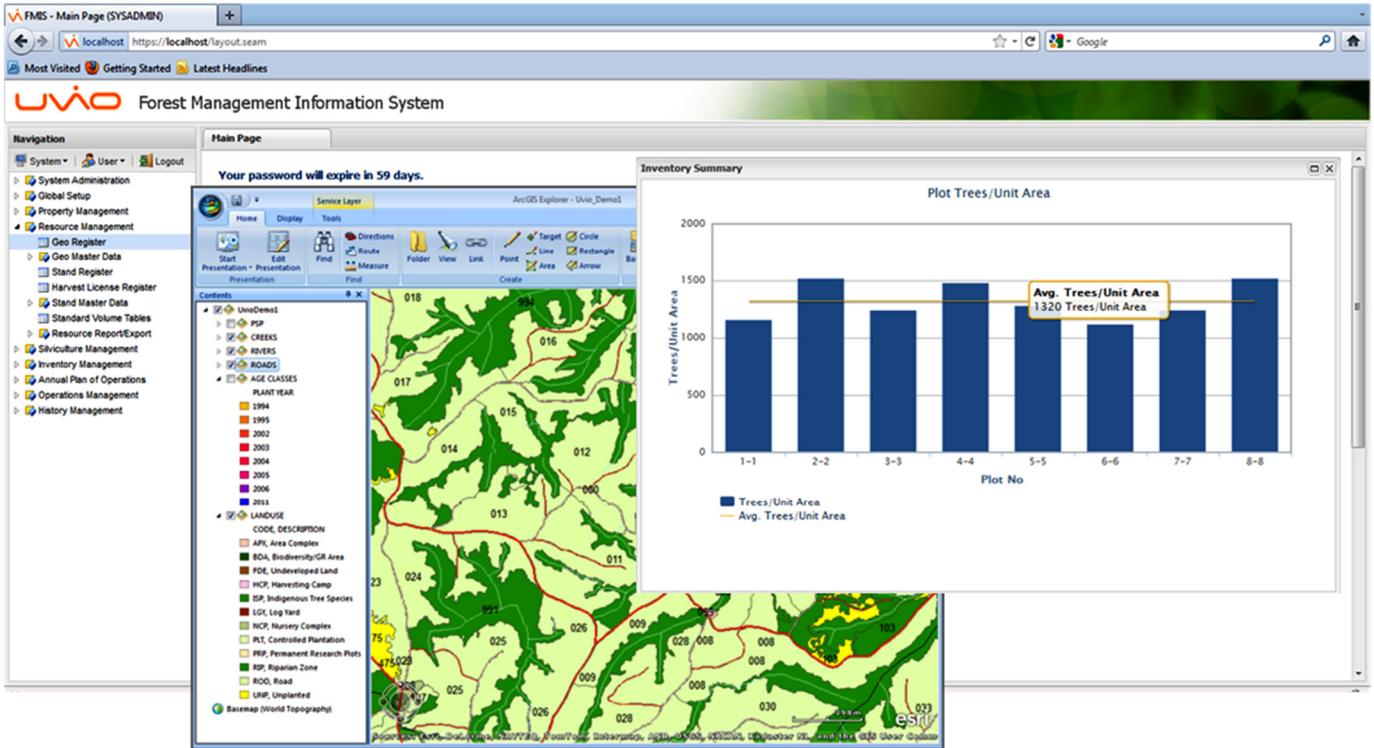
AUSTRALIA

Language

ENG

Company Website:

www.uviocorp.com/



Company name

KP Logix

Name

35.

Woodhub

Type

DESKTOPSYS, MOBILEAPP

Category

ACCOUNTING, HARVEST, MANAGE, PURCHASES, SALE, TRACKING

Description

WOODHUB È UNA SEMPLICE SOLUZIONE ACCESSIBILE SUL CLOUD PER LE AZIENDE DEI PRODOTTI LEGNOSI. PERMETTE ALLA SOCIETÀ DI AVERE TUTTE LE INFORMAZIONI AZIENDALI IN UNICO SISTEMA, ACCESSIBILE (IN MODO CONDIVISO) IN QUALSIASI MOMENTO E DA QUALSIASI DISPOSITIVO. PERMETTE: GESTIONE DEI CONTRATTI, CONTABILITÀ, GESTIONE DEL CLIENTE, GESTIONE FINANZIARIA, GESTIONE DEI PREZZI, TRACKING DELLA PRODUZIONE, GESTIONE DEI FORNITORI GESTIONE DEI TRASPORTI

COUNTRY

CANADA

Language

ENG

Company Website:

www.woodhub.com

Inventory Create Product

Filters

Size: Species: Grade: Length: Type:

- SIZE: 2" x 4"
- SIZE: 2" x 6"
- SIZE: 2" x 8"
- SPECIES: SPI
- SPECIES: WESTERN SPI

Load Builder Total: 10 pkgs, 2310 pcs, 11401 FBM, 17.6537 M3, 16140 LF, 0 lb Hide

2" x 4" SPF #3 S4S KD, Max 19%

- 240' - 6 pkgs ✕
- 250'10" - 3 pkgs ✕
- 120' - 1 pkgs ✕

Pcs
Pkgs
Delete
Send offer
Create Order

Summary To Sell

Product	Length	Pc/Pkg	Type	Count	LF	M3	FBM
2" x 4" SPF #2 & BTR ROUGH KD, Max 19%	10'	216	+ Finished	1	0	2.2300	1440
			- Sold	1	0	2.2300	1440
			= Total	0	0	0.0000	0

Company name

ALDATA Software Management

Name

36.

Yard Boss

Type

BROWSER-BASEDAPPLICATION

Category

ACCOUNTING, CONTRACT MANAGEMNET, MANAGE, PAYMENTS

Description

SOFTWARE DI GESTIONE DELLA CATENA DI APPROVVIGIONAMENTO DI MATERIALI GREZZI. TRA QUALI IL LEGNAME E TAVOLAME.

Country

CANADA

LANGUAGE : ENG

Company Website:

www.aldatasoftware.com

ALDATA



Over 25 years, Yard Boss has evolved to handle the many variations in raw material supply chain management practices across all facility and fiber types.

Functions

- Fiber supply contract management and sales agreements for both purchased/owned timber and open market (gateway) contracts;
- Delivered price or unbundled fiber costing to pay an unlimited number of suppliers, landowners, haulers and government fees/taxes off a single load ticket;
- Contract-specific or standard rate sheets;
- Special payment terms like production advances, lump sums, holdbacks and surcharges;
- Settlement/invoice processing on varying pay frequencies (e.g. weekly for truckers and monthly for severance);
- Automatic emailing of vendor settlements/invoices (optional);
- Configurable Order/Quota Management;
- Log inventory or pile inventory by load or by volume, at actual or average costing;
- Chip quality and moisture sampling with fully-configurable quality parameters and pay incentives based on quality data;
- Estimates for Timber Cruise and Standing Timber Depletion;

Truck management including overload flagging.

A photograph of several stacks of light-colored lumber, likely pine or spruce, arranged in neat rows. The wood has a natural grain and is cut into uniform lengths. On the left side of the image, there is a semi-transparent blue and green circular graphic overlay containing white text.

Scale Boss unattended weigh scale software makes scale data entry quick and easy with a user-friendly interface. Designed for facilities that process raw/recycled fiber, it can be used at any scale.

Company name

Margules Groome

Name

37.

bushnet

Type

HW-SATELITEPHONE

Category

COMMUNICATION

Description

QUESTA AZIENDA FORNISCE UNA SOLUZIONE INTERNET VIA SATELLITE EFFICACE PER LE OPERAZIONI FORESTALI, (SILVICULTURALI E DI RACCOLTA) PER LE AREE RURALI IN CUI NON SONO PRESENTI COPERTURE CELLULARI.

Country

AUSTRALIA

Language

ENG

Company Website:

<http://www.margulesgroome.com/bushnet/>



Company name

Margules Groome

Name

38.

REMOTE SENSING – AERIAL AND SATELLITE IMAGERY

Type

SERVICE-IMAGERYDATA

Category

AERIALIMAGERY, MEASURE

Description

SERVIZIO DI ELABORAZIONE DI IMMAGINI ACQUISITE DA AEREO O DA SATELLITE, PER LA COSTRUZIONE DI MAPPE TEMATICHE E IDENTIFICAZIONE DI CARATTERISTICHE SPECIFICHE DEL TERRENO CONSIDERATO. IN PARTICOLARE PUÒ PRODURRE MAPPE FORESTALI E AGRICOLE RELATIVE ALLA COPERTURA VEGETALE DEL TERRENO.

VENGONO ELABORATE ANCHE IMMAGINI ACQUISITE VIA LIDAR (LIGHT DETECTION AND RANGE).

Country

AUSTRALIA

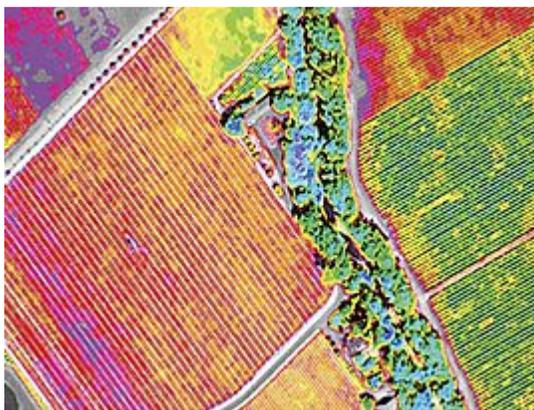
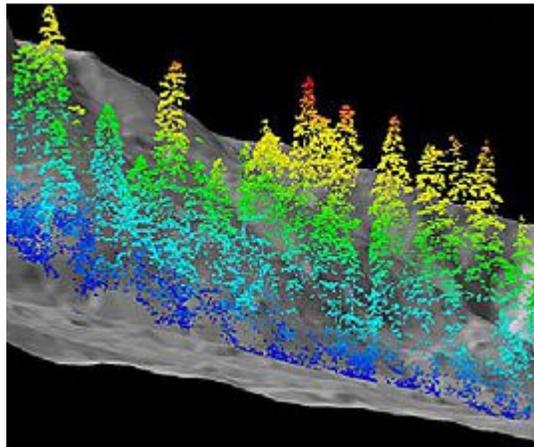
Language

ENG

Company Website:

<http://www.margulesgroome.com/remote-sensing-aerial-and-satellite-imagery/>

<http://www.margulesgroome.com/remote-sensing-lidar/>



Company name

Margules Groome

Name

39.

GEOGRAPHICAL INFORMATION SYSTEMS (GIS)

Type

SERVICE-GISDATA

Category

DATAMANAGEMENT, INVENTORY, MANAGE, MAPPING, PLANNING

Description

SERVIZI PER LO SVILUPPO DI SISTEMI INFORMATIVI GEOGRAFICI (GIS).

Country

AUSTRALIA

Language

ENG

Company Website:

<http://www.margulesgroome.com/geographical-information-systems-gis/>



Margules Groome's plantation experience includes industrial plantations for pulpwood, sawnwood, latex and biomass as well as trees grown for their fragrant properties. It brings a technical forestry knowledge and commercial know-how to client.

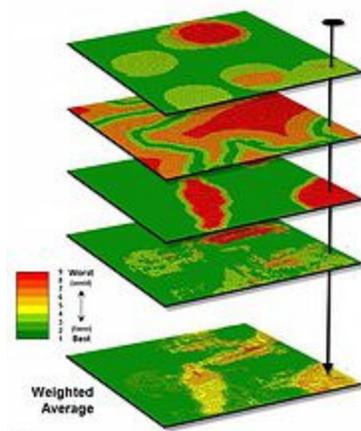
Margules Groome's regional footprint develops unique insights in such areas as:

- Investment returns and valuation
- forest productivity and product outturns
- forestry costs
- forest product demand and supply balances
- forest product prices
- environmental performance

Margules Groome understands land suitability and land availability for forests in the Asia Pacific region. We track land price and forest transaction information. It values forest assets and businesses in compliance with relevant national and international valuation and financial reporting standards.

Margules Groome work with clients to help establish green field or demonstration forestry projects and work with existing companies to improve their performance (gap analysis and implementation support).

Margules Groome develops and employs the latest technologies in forest measurement (remote sensing/lidar), statistical data analysis, wood-flow and cash-flow modelling, econometric price forecasting and forest management information systems.



Company name

MOTI

Name

40.

moti

Type

HW-PHONECAMERA, MOBILEAPP

Category

HEIGHT, MEASURE, NUMBEROFTREES, STOCK

Description

L'APPLICAZIONE ANDROID È SPECIFICAMENTE PROGETTATA PER I PROFESSIONISTI FORESTALI PER ACQUISIRE MEDIANTE SMARTPHONE IN MODO FACILE, EFFICACE E AFFIDABILE LE GRANDEZZE GEOMETRICHE CHIAVE DI UN ALBERO, QUALI AREA BASIMETRICA, DIAMETRO ALLA BASE, NUMERO DI ALBERI PER HA, ALTEZZA, ECC.

Country

SWITZERLAND

Language

ENG

Company Website:

<http://www.moti.ch/drupal/?q=it/node/39>

MOTI



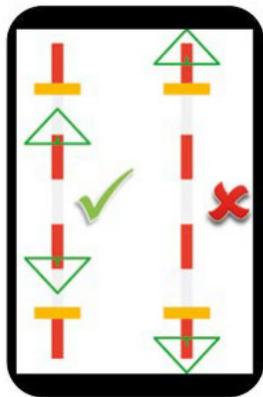
MOTI takes advantage of Smartphone technology for the simple and convenient capturing of key variables concerning the condition of forests. The Android application is specifically designed for forestry professionals to capture in an easy, cost effective and reliable manner the key dendrometric variables such as basal area, number of trees per ha, tree height and stock, as a single measurement combined in a sample plot, or at the level of a stand inventory with automatic calculation of the error range of the estimations.

Although some principles used in MOTI have long been known, see for example the article from Noël Decourt on the [use of photography to measure basal areas](#) published in 1956 (in French), their integration within a smartphone application such as MOTI enables to generalize their use by forest practitioners.

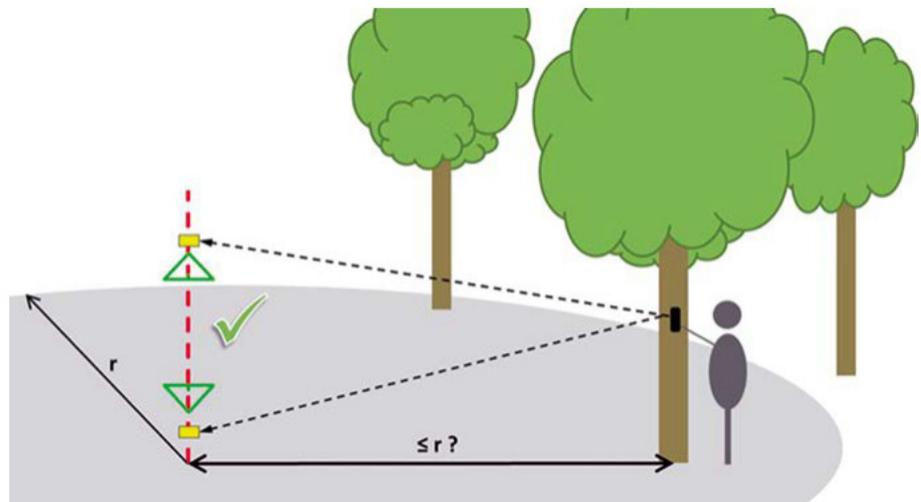
MOTI thus provides the solid basis for decision making directly in the forest. For example, this information can be used for tree marking or for planning measures in the context of developing a forest management plan.

The use of MOTI is not only limited to the stand level. Thanks to the possibility of capturing samples, the Smartphone application can also be used in the context of making simple inventories for a forest management unit.

By the way, an internet connection is not required (except for accessing the Help page). The user interface is available in German, French, Italian and English.



© HAFL



Company name

PiiMega®

Name

41.

ForestPro

Type

DESKTOPSYS

Category

BUSINESSMANAGEMNET, CERTIFICATION, MANAGE

Description

IL PACCHETTO ERP PER LA GESTIONE DELLE ATTIVITÀ DI UTILIZZAZIONE, TRASPORTO E COMMERCIALIZZAZIONE DEL LEGNAME. PERMETTE ANCHE LA GESTIONE DELLA UTILIZZAZIONE DEL LEGNAME PER SCOPI ENERGETICI.

Country

FINLAND

Language

ENG

Company Website:

<http://www.piimega.com/products/foresterp/piimega-forestpro>



PiiMega® ForestPro enables fully electronic forest trading and real-time harvesting and transportation. ForestPro also allows comprehensive management of processing wood for energy.

In the ForestPro application, documents related to timber procurement can be easily created, and managing the forest ledger and payment transactions are made electronically. After closing the deal, the harvesting and cutting instructions based on GPS data are transferred directly to the forest machine. Map functions integrated into the National Land Survey system (equipped with aerial photographs, for example) make it fast and accurate to design logistics and timber transportation!

Company name

PiiMega®

Name

42.

TimberPro

Type

DESKTOPSYS

Category

BUSINESSMANAGEMNET, CONTRACTMANAGEMNET

Description

SISTEMA ERP PER LA GESTIONE DEL TAVOLAME IN SEGHERIA

Country

FINLAND

Language

ENG

Company Website:

<http://www.piimega.com/products/foresterp/piimega-timberpro>



PiiMega® TimberPro



PiiMega® TimberPro understands both the sawmill operations and further processing. It is a tool which, with its modules, makes the ERP processes of the sawmill and wood processing effortless, precise and modern!

In the TimberPro application all offers, contracts, sales and delivery documents as well as invoicing are made electronically. The group structure allows the same database to be used in every plant and subsidiaries of the company.

Flexibly combining the different modules of the application you may build exactly the combination you need for the sawmill and/or further processing of the timber.

Savings in current assets by strict inventory management. Length management from the raw material to the end product. Strict monitoring of costs and value optimization of production.

Production planning and monitoring allows you to do exactly what there is a demand for, minimizing costs and maximizing profits

Company name

PiiMega®

Name

43.

LogPro

Type

DESKTOPSYS, HW-ELECTRONICDATATRANSFER

Category

ANALYSISOF CUTTINGLOGS, DATAPROCESSING, HARVEST, SIMULATION

Description

SISTEMA PER LA GESTIONE INFORMATIZZATA DELLA LAVORAZIONE DEI TRONCHI E DEL LORO RASPORTO MEDIANTE LE MODERNE MACCHINE PER LA SELVICOLTURA

Country

FINLAND

Language

ENG

Company Website:

<http://www.piimega.com/products/foresterp/piimega-logpro>



-
-
-

PiiMega® LogPro



-
-
-

- *PiiMega® LogPro is a real-time transportation and harvesting vehicle application implemented in current technologies. PiiMega® LogPro allows the real-time properties of large forestry companies to be available at a cost and accessibility appropriate to a small company.*
- *PiiMega® LogPro is a system built for harvesting and forwarding machines and timber trucks. With this product it is possible to define electronic harvesting and wood cutting instructions for the harvesting machines and receive an electronic harvesting response. With the vehicle application, it is possible to perform real-time inventory tracking. PiiMega® LogPro has the electronic data transfer active without interruptions, allowing the monitoring of the movements of the harvesting machine and vehicles.*
- *Creating transportation plans for timber trucks with PiiMega® LogPro is a breeze. Real-time two-way communication enables optimal planning of transportation.*
- *This function allows trucks to minimize unnecessary mileage and ensures optimal use of the equipment. The software also integrates seamlessly into the PiiMega reception scheduling, allowing minimizing the down hours and making the incoming timber truck scheduling more efficient.*
- **Productivity through electronic work orders and maps.**
- **Savings in cost by transportation planning: No extra kilometres, no empty trucks. Cost savings and productivity with a real-time interface to the forest system.**

Company name

Piimega®

Name

44.

Respa

Type

DESKTOPSYS

Category

ACTIVITYSCHEDULING, MANAGE

Description

APPLICAZIONE DEDICATA ALLA SCHEDULAZIONE DELLE OPERAZIONI DI SCARICO DEI TRONCHI AL FINE DI OTTIMIZZARE (ED EVITARE) LE CODE DI CAMION IN ARRIVO PRONTI PER SCARICARE LA MERCE.

Country

FINLAND

Language

ENG

Company Website:

<http://www.piimega.com/products/foresterp/piimega-scheduling>

PiiMega® Scheduling



- *Piimega® Respa scheduling application allows you to enhance the operations of log receiving by reducing truck queues. You can guarantee smooth use of your reception and avoid unnecessary unloading on the field.*
- *Piimega® Respa system allows you to define your reception points with its weekly open times and break periods. You may suggest free times to the transportation service provider or you may allow the service providers themselves to make appointments. This service provides you with information about incoming material flows and precise reports on the arrivals of trucks and possible delays in arriving.*
- *The layout and functionality of the calendar is easy to modify and also modifying its content is easy. This service also has an advertising board function for electronic communication, and an opportunity to set deadlines for the reservations, which allow unconfirmed times to be automatically released for the use of other transportation service providers.*
- *Taking Piimega® Respa into use does not require any installations, training or additional hardware investments. It is easy to use and easy to modify.*

Aika	Maanantai 6.4.2015	Tiistai 7.4.2015	Keskoikkio 8.4.2015	Torstai 9.4.2015	Perjantai 10.4.2015	Lauantai 11.4.2015	Sunnuntai 12.4.2015
06:00 - 06:30	Huolto	Maastalajitelmä	Rekka-Peikka	Tavaratalli	Vapaa	Suljettu	Suljettu
06:30 - 07:00	Huolto	Maastalajitelmä	Rekka-Peikka	Tavaratalli	Vapaa	Suljettu	Suljettu
07:00 - 07:30	Huolto	Maastalajitelmä	Rekka-Peikka	Vapaa	Vapaa	Suljettu	Suljettu
07:30 - 08:00	Huolto	Maastalajitelmä	Vapaa	Vapaa	Vapaa	Suljettu	Suljettu
08:00 - 08:30	Huolto	Maastalajitelmä	Vapaa	Vapaa	Vapaa	Suljettu	Suljettu
08:30 - 09:00	Huolto	Maastalajitelmä	Vapaa	Vapaa	Vapaa	Suljettu	Suljettu
09:00 - 09:12	Aamukahvi	Aamukahvi	Aamukahvi	Aamukahvi	Aamukahvi	Suljettu	Suljettu

Company name

Forestry Thematic Exploitation Platform (Forestry TEP)

Name

45.

Forestry Thematic Exploitation Platform (Forestry TEP)

Type

SERVICE-INFORMATIONPLATFORM

Category

MANAGE, SATELLITE DATA

Description

PIATTAFORMA SVILUPPATA DALL'ESA PER L'ELABORARE IMMAGINI SATELLITARI AL FINE DI GESTIRE DATI FORSTALI.

Country

IRELAND

Language

ENG

Company Website:

<https://forestry-tep.eo.esa.int/>

Forestry TEP



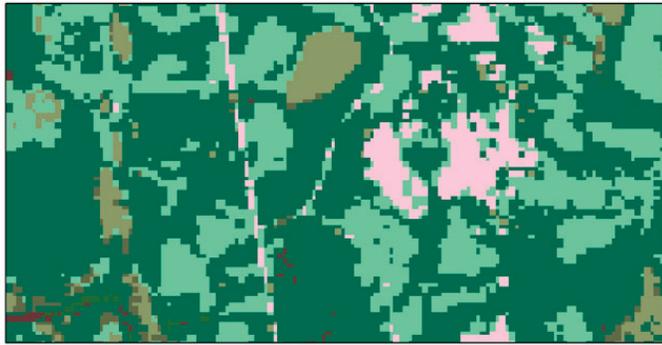
Forestry TEP currently offers a number of popular software toolboxes that can be accessed in full as embedded applications with graphical user interfaces (GUI), or integrated into processing workflows:

- [Sentinel Applications Platform](#) SNAP (Sentinel-2/1 Toolboxes)
- [Orfeo Toolbox / Monteverdi](#)
- [QGIS](#)

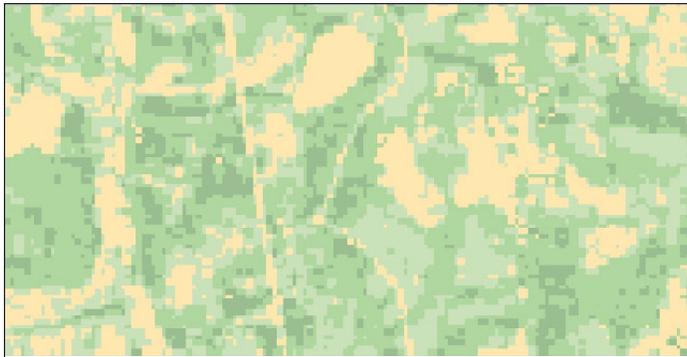
Additionally, the following software by VTT Technical Research Centre of Finland Ltd are made available as GUI applications:

- Probability: Tool set for predicting forest variables. Covers both continuous-valued variables (e.g. tree cover density, stem volume) and category type variables (e.g. land cover classes). Both interactive and batch modes of operation.
- Envimon: Preprocessing tool for satellite data unpacking, radiometric corrections (top-of-atmosphere and below-of-atmosphere reflectances) and geometric corrections (also orthorectification).

eDocket^{HQ}

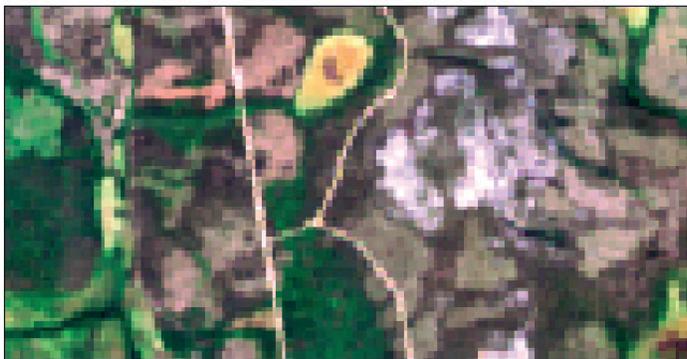


- Pine dominated forest
- Spruce dominated forest
- Birch dominated forest
- Cleared forest land
- Peat land with forest cover
- Open peat land
- Cultivated
- Water
- Built up or bare soil
- Clouds and cloud shadows
- No data



Stem volume

- 0 m³/ha
- 0-50 m³/ha
- 50-100 m³/ha
- >100 m³/ha



Company name

Mobile Mentor

Name

46.

Edocket

Type

HW-GPS, MOBILEAPP

Category

DATACOLLECTION, INVENTORY, MEASURE

Description

APP DI SUPPORTO ALLA GESTIONE DEI DOCUMENTI DI TRASPORTO DI LEGNAME MEDIANTE MEZZI DI TRASPORTO MOTORIZZATI, ALLA GESTIONE DEI CARICHI E DELLE CONSEGNE, AL MONITORAGGIO DEI MEZZI (TRAMITE GPS).

Country

AUSTRALIA

Language

ENG

Company Website:

<https://www.mobile-mentor.com/case-study/hancock-queensland-plantations-mobilises-health-safety-docketing/>

eDocketHQ is designed to work offline by default. The lack of cellular coverage in forests required the app to be designed from the ground up for offline use while still performing most aspects of the business process:

- Once a user registers and performs an initial sync, they are able to work independently in areas with poor or no coverage;
- The app automatically handles unique and sequential docket ID's across all users whether online or offline;

Updates to reference data and submission of docket updates and GPS data are handled intelligently;

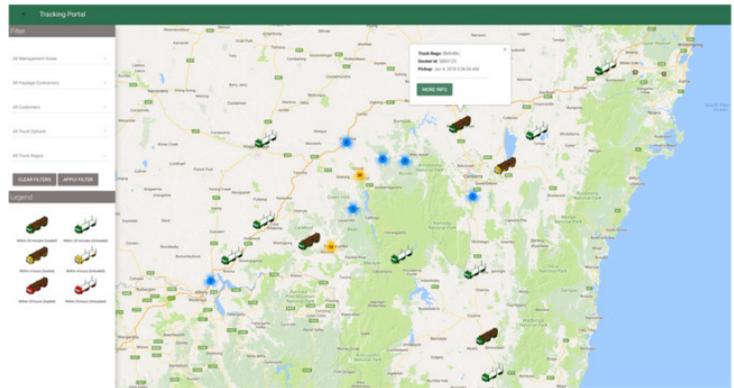
- The app features a pending queue which keeps track of completed dockets and ensures they are sent when next online;
- The app is designed to maximize periods of connectivity (e.g. a patch of cellular coverage whilst driving); Firstly implementing a delta process to reduce data transfer size and secondly automating network checks to fire off "pending items" or request new data.
-

The eDocketHQ app leverages GPS to assist drivers in completing each docket form. Using geophones, the app filters possible Regions, Harvest Areas or Compartments based on where the driver is actually located. The app either selects the only available option or may present the user with a short list to choose from, removing the need to scroll through hundreds of Compartments – which improves speed and data accuracy.

GPS waypoints are also captured during various stages of the docketing process to further assist with data accuracy and auditing:

- Confirm pickup point;
- Perform 360 Checks occur prior to accessing the public road network;

Use of geophone of customer delivery site (e.g. sawmill), with a warning to the user if current location does not match the delivery address.



Company name

Mason Bruce & Girard

Name

47.

MBG Tools

Type

DESKTOPSYS

Category

INVENTORY, MEASURE, REPORT

Description

MBG TOOLS È UN SOFTWARE SUPPORTO ALLA COSTRUZIONE E ALLA GESTIONE DI INVENTARI FORESTALI. SI BASA SULLA SUDDIVISIONE DEL BOSCO IN UNITÀ DENOMINATE STAND¹ E FORNISCE STRUMENTI PER LA DEFINIZIONE DEL PERCORSO DI RILEVAMENTO (CRUISE) ALL'INTERNO DEI VARI STAND, PER L'ACQUISIZIONE DEI DATI, L'INVENTARIAZIONE E IL REPORTING ED È IN GRADO DI ESEGUIRE PROIEZIONI DI CRESCITA (PER VALUTARE LA CONSISTENZA DI STAND RILEVATI IN EPOCA PRECEDENTE, E QUINDI INCREMENTATISI NEL FRATTEMPO).

Country

USA

Language

ENG

Company Website:

<http://www.masonbruce.com/technology/mbg-tools/>

¹ A **forest stand** is a contiguous community of trees sufficiently uniform in composition, structure, age and size class distribution, spatial arrangement, site quality, condition, or location to distinguish it from adjacent communities

MBG



MBG Tools is a stand-based forest inventory data management software and application. MBG Tools provides a user interface for cruise compilation, merchandising, data management, reporting, and growth projections. MBG Tools allows the user to select from multiple taper systems and growth models. Reporting can be customized and includes stand tables and log stock tables, for individual stands, groups of stands, or timber types.

MBG Tools Features

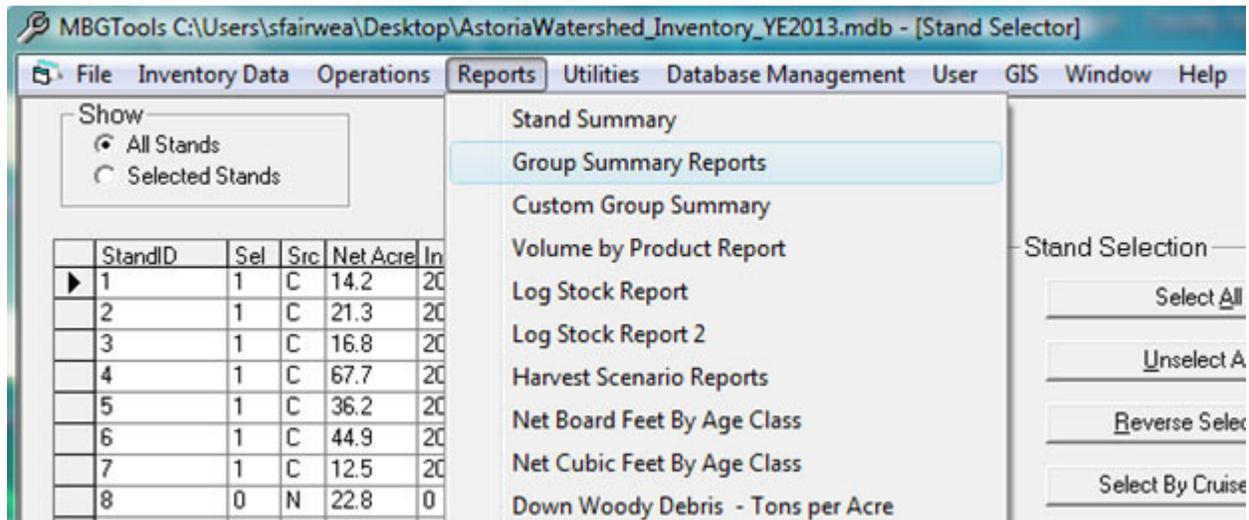
- **Configurable Settings and Inputs** – Standard tables can be easily populated with custom data to reflect regional, enterprise, or dynamic data. MBG Tools has the ability to compile complex cruise designs featuring a mix of plot types, sizes, and taper routines.
- **Standard and Custom Reporting** – Standard and custom reporting capabilities produce inventory reports with varied spatial attributes.
- **Data Exploration** – The interface supports data mining and quality assurance by allowing users to browse relevant data and lookup tables and perform on-the-fly data filtering and sorting.
- **Accurate Merchandising** – Projections and merchandising are done on individual trees, as opposed to ‘average trees’ in a stand table.
- **Role-Based Authorization** – Directory group membership is used to authorize access and protect data while enabling authorized users to add, delete, and modify data.
- **Best in Class Security** – Integrated Windows Authentication provides robust security.
- **Low Maintenance Cost** – Shared data supports solid decision making and reduces transfer and update costs.

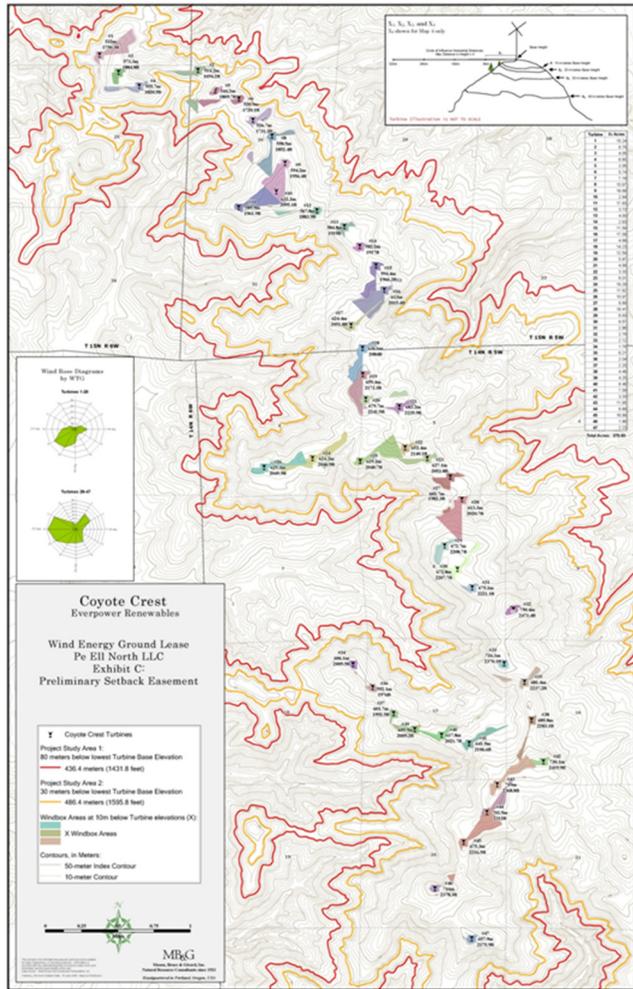
Intuitive in the Field and in the Office

- **User-Friendly Compilation Interface** – Common field data import and cruise compilation tasks are facilitated using an intuitive and easy to use user interface.
- **Trending Data** – Data are stored at the stand, plot, tree and log level. The retention of individual tree detail offers unique opportunities for examining growth, mortality, and other functions.
- **Cruise Data Quality Control** – When combined with MBG Cruise, field data are collected using built-in quality assurance/quality control processes and additional validation is applied during data import and analysis steps.

- **Flexible Cruise Designs** – MBG Tools supports a wide variety of cruise designs including variable, nested, transects, and more.

Cruise Expansion – Flexibility with regard to identifying source stands and target stands for the process of expanding cruise results to uncruised stands.





Company name

Delair

Name

48.

Delair_Service

Type

HW-UAV, SERVICE-AERIALDATA

Category

AERIALIMAGERY, ANALYSIS, DATACOLLECTION, DATAPROCESSING, LIDAR, MEASURE

Description

QUESTA AZIENDA PRODUCE MOLTI MODELLI DI DRONI E RELATIVO SOFTWARE DI ELABORAZIONE DEI DATI AEREI ACQUISITI, AL FINE DI ANALIZZARE AREE BOSCHIVE (O PIÙ IN GENERALE AGRICOLE).

Country

FRANCE

Language

ENG

Company Website:

<http://delair.aero/>

1. EFFICIENT OBSERVATION OF CROP & FOREST HEALTH, FEATURING:

- a comprehensive view of the field (with a clearer view from above than sideways from paths)
- the elimination of human error common in traditional observation,
- the detection of anomalies in fields caused by incidents with equipment,
- the ability to detect what human eyes cannot see with near infra-red sensors (e.g the impact of stress on crops) which can then be confirmed by strolling through sample areas,
- precision targeting of fields according to the need.

2. CHARACTERISATION OF CROPS & FORESTS:

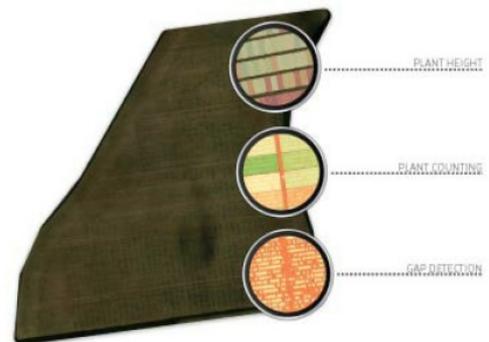
- providing high-speed data for phenotyping or trials,
- providing specific information on plant gaps, emergence quality, plant population assessment, plant response to a treatment, by providing a report of different indices, selected from a wide range.

3. PRECISION MANAGEMENT OF AGRICULTURAL INPUTS BY:

- objectively characterising within field / plot behaviour variability,
- enabling user to make the right decisions for each field,
- enabling user to spray only where needed.

4. GET DATA IN REAL TIME:

- Get the best possible maps showing the crop health status of fields. These are tailored to your needs by experts in sensors, UAVs, and image processing, within two days after the flight.



Company name

LOGSIZE

Name

49.

Logsize PRO

Type

HW-PHONECAMERA, MOBILEAPP, SAAS

Category

LOGSVOLUME, MEASURE, NUMBEROFLOG

Description

APP CHE UTILIZZA LA FOTOCAMERA DELLA SMARTPHONE PER FOTOGRAFARE TRONCHI O CATASTE DI TRONCHO E CALCOLARE IL NUMERO DI TRONCHI, IL DIAMETRO E I VOLUMI.

Country

BELGIUM

Language

ENG

Company Website:

<http://www.logsize.com/en>

Logsize



Logsize is a tool for measuring the volume of a log stack from images taken using a smartphone or a tablet device. The producer claims this app provides users with: step by step wood pile volume calculation, capturing an image of the log stack, inputting the outer boundary of the log stack, and typing in the average length of the logs in the stack. Therefore, the user is able to achieve:

- Total volume of the stack,
- Total amount of logs,
- Pile dimensions.

Furthermore, other advantages of this app are as follows.

- Detailed reports based on specie, diameter, location and volume,
 - Grouping logs by diameter,
 - Export results in Excel or to your FMS,
 - Does not need an Internet connection to process results,
- Collaborate with others users from the same company.



1

Start Logsize app



2

Photograph log stack
with your phone or
tablet



3

The app calculates n°
of logs, diameter and
volume of logs



4

Send data to your
email or FMS



Company name

Haglöf Sweden AB

Name

50.

MDII Com

Type

HW-SPECIALUNIT, MOBILEAPP

Category

LOGSVOLUME, MEASURE

Description

APP CHE UTILIZZA UN'UNITÀ SPECIALE RILEVA LE MISURE ACQUISITE DA UN CALIBRO FORESTALE E LE INVIA ALLO SMARTPHONE TRAMITE COLLEGAMENTO BLUETOOTH. IL SISTEMA REGISTRA LA POSIZIONE (GPS) ED ALTRE INFORMAZIONI UTILI QUALI LA SPECIE DELL'ALBERO, LE ALTEZZE O LE LUNGHEZZE .

Country

SWEDEN

Language

ENG

Company Website:

<http://www.haglofsweden.com/index.php/en/>

The DP GPS module enables you to position and navigate with your computer caliper as you are performing your regular fieldwork. The DP GPS is attached to the host computer and becomes an integrated part of your caliper. The module is controlled through the DP caliper, runs with its battery, display and processor, and leaves you with less worries about charging time, connectivity and compatibility.



The DP GPS has a 33-channel high-sensitivity receiver that supports several satellite systems such as GPS, Glonass, Galileo and GZSS. The ability to use several satellites from

different systems at the same time improves positioning in difficult terrain. The built-in real time correction allows for accuracy down to 2.5m/8.19ft in open terrain. Algorithms can predict satellite positions for up to 3 days, using data from last used satellite constellation saved for up to one month in the GPS with a built-in rechargeable battery.

Depending on software application in your DP II computer caliper there are numerous ways to integrate the DP GPS module in your field cruising routine. Collect measuring data and connect with positions on sample plots, stand areas, areas with special biotops, individual trees, and roadside timber loads. Make a tracking log of borderlines in a plot and have the DP caliper calculate the total area. Preload positions for marked trees and hazard trees and navigate straight to them. Revisit an area, and instantly find your way. With all field data registered, collected and available in one secure place in your DP computer caliper,

no additional instruments or field computers are needed. With the DP caliper and DP GPS module you can save time and ensure compliance. The GPS module is very small and will not affect balance and weight of the DP II caliper when attached. Also available as a combination module including DP GPS and DME for efficient ultrasound distance measuring in sample plots.

Company name

RFID TAG

Name

51.

RFID NAIL

Type

HW-RFIDNAIL

Category

HARVEST, TRACKING

Description

CHIODI DOTATI DI TAG RFID PER IL TRACCIAMENTO

Country

IRELAND

Language

ENG

Company Website:

<https://www.alibaba.com/showroom/tree-rfid-tags.html>

				
ABS plastic LF/ HF/UHF tree Rfid Nail Tag for wood <small>Ad</small>	Shenzhen forest trees managements rfid tag in <small>Ad</small>	NFC Tree UHF RFID Nail Tag <small>Ad</small>	Wholesale cheap Rfid Nail 125khz Tag For Tree And <small>Ad</small>	LF /HF/ UHF RFID Nail Tag For Tree/ Furniture / wood <small>Ad</small>
US \$0.2-0.6 / Piece	US \$0.2-0.5 / Piece	US \$0.02-0.15 / Piece	US \$0.165-0.29 / Piece	US \$0.12-0.99 / Piece
100 Pieces (Min. Order)	500 Pieces (Min. Order)	500 Pieces (Min. Order)	1000 Pieces (Min. Order)	100 Pieces (Min. Order)

Company name

D.R.Systems.inc.

Name

52.

Road runner

Type

MOBILEAPP

Category

MEASURE, ROADDESIGN

Description

APP PER LA GESTIONE DELLE STRADE FORESTALI. RILEVA LA POSIZIONE DELLA STRADA E DI ELEMENTI SPECIALI INCLUSI IN ESSA (AD ESEMPIO PONTI), PERMETTE DI GESTIRE LA MANUTENZIONE, ECC.

Country

CANADA

Language

ENG

Company Website:

http://www.drsystemsinc.com/software_products.php?SID=12

(sito non accessibile a Giugno 2018)

Road Runner

Easily Collect Road Data in the Field

Road Runner is a mobile product that allows users to manage their **Phoenix^{PRO}**

Road information in the field.

Using road data from **Phoenix^{PRO}**, the user can easily assess the road and update the records accordingly. This information is then synchronized at the office.

RECORD AND EDIT:

- Roads and road sections.
- Record inspections (road, bridge and culvert).
- Events and maintenance activities.
- Road structures (e.g. bridges, culverts, cattle guards, etc.).
- Spatial coordinates.
- Risk rating.
- Compliance and liability issues.

FEATURES:

- Transfer road and associated information to the handheld.
- Download all of your roads or specify only the ones you need.
- Voice recording and/or notes can be added to the records.
- Data is synchronized to the [Road Module](#).
- Streamlines data entry - saves time, money and reduces errors.
- Provides an integrated field information manager and data collection tool to be used with **Phoenix^{PRO}**.
- Compatible with all Windows CE Pocket PCs (Mobile 2003 and Windows Mobile 5 and 6) handhelds.

Company name

Indaco

Name

53.

iwoodTracking

Type

HW-GPS, MOBILEAPP, SAAS

Category

HARVEST, INFOTRACING, TRACEABILITY, TRACKING

Description

APP PER LA PREVENZIONE DI FURTI DEI TRONCHI IN UN BOSCO. UTILIZZA SISTEMI DI TRACCIAMENTO DELLE RISORSE PRESENTI NEL BOSCO, ANCHE MEDIANTE IMMAGINI AEREE, CHE VENGONO MANTENUTE IN UN SISTEMA CENTRALIZZATO.

Country

ROMANIA

Language

ENG_ROMAINAN

Company Website:

https://play.google.com/store/apps/details?id=ro.indaco.inspectorapv&hl=en_US

Company name

AlforLab

Name

54.

Progetto Ambi.Tec.Fil.Legno - Prototipo tecnico-gestionale per la tracciabilità elettronica

Type

HW-RFIDNAIL, HW-RFIDREADER, HW-TAG, BROWSER-BASEDAPPLICATION, DESKTOPSYS, MOBILEAPP

Category

INFOTRACING, TRACEABILITY, TRACKING, TRANSPORTATION, HARVEST, SAWMILL,

Description

LABORATORIO PUBBLICO-PRIVATO CHE HA SVILUPPATO UN PROTOTIPO PER LA TRACCIABILITÀ ELETTRONICA (INFOTRACING) DEL LEGNO E DEI PRODOTTI LEGNOSI IN GENERALE. LO STRUMENTO UTILIZZA LE RADIO-FREQUENZE (RFID) E PERMETTE DI IDENTIFICARE UN OGGETTO UNICAMENTE CON UN TAG RFID (LEGGIBILE DA UN TAG READER) E GRAZIE AD UN REGISTRO ACCESSIBILE VIA SMARTPHONE O TABLET SU UN PORTALE WEB DEDICATO. I TAG POSSONO ESSERE APPLICATI SU UN QUALSIASI PRODOTTO DELLA FILIERA, DAI TRONCHI AI PRODOTTI SUCCESSIVI.

Country

ITALY

Language

IT

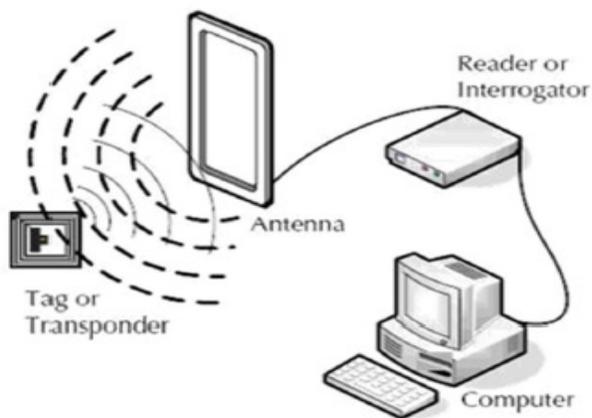
Company Website:

<http://www.alforlab.it/notizie/viewSez/3>

Tecnologia RFID

I sistemi basati sulla tecnologia RFID consentono l'identificazione di oggetti attraverso radio frequenza e si compongono di tre elementi fondamentali:

- ✓ **tag:** transponder con circuito integrato (chip) con funzioni di controllo, memoria e connesso ad un'antenna
- ✓ **lettore:** ricetrasmittitore controllato da un microprocessore per interrogare e ricevere le informazioni in risposta dai tag
- ✓ **sistema di gestione informativo:** connesso in rete con i lettori che a partire dai codici identificativi provenienti dai tag ricava e gestisce le informazioni



Filiera del legno e infotracing

Progetto focalizzato su prime fasi filiera, dal bosco alla segheria

Tecnologie digitali per tracciatura:

- TAG Radio-frequenze: RFID
- TAG Etichettatura: QRCode
- App per la registrazione dati
- Postale Web-GIS per gestione e consultazione

Lettore RFID e APP open-source



Processamento in segheria

Letto
automatizzato TAG
RIFD in segheria

Acquisiti dati
memorizzati su TAG
di esbosco



Il prodotto finito

Tavolo con smart tag
(RFID, QRCode, NFC)

Associazione delle
informazioni operazioni

- cavallettamento
- esbosco
- segheria



Company name

Forest

Name

55.

Forest

Type

MOBILEAPP

Category

GAMING

Description

APP CHE UTILIZZA (IN FORMA DI GIOCO) LA METAFORA DELLA CRESCITA DI UN BOSCO. PUÒ AVERE QUALCHE IMPATTO EDUCATIVO. L'OBIETTIVO PRINCIPALE È PERÒ L'AUMENTO DELLA CONCENTRAZIONE.

Country

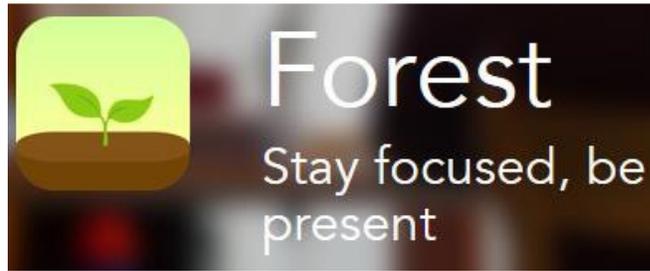
IRELAND

Language

ENG

Company Website:

<https://forestapp.cc/en/>



Put down your phone and focus on what's more important in your life



Whenever you want to focus, plant a tree.



The tree will grow in the following time.



The tree will be killed if you leave this pp.

Build Your Forest



Company name

CRA-ING Traceflor

Name

56.

Flor.Id.Ino App

Type

HW-RFIDNAIL, HW-RFIDREADER, HW-TAG, MOBILEAPP, SAAS

Category

INFOTRACING, SAWMILL, TRACEABILITY, TRACKING

Description

APP PER IL TRACCIAMENTO MEDIANTE RFID DEI PRODOTTI LEGNOSI NELL'AMBITO DELLA FILIERA FORESTALE.

Country

ITALY

Language

ENG

Company Website:

http://sito.entecra.it/portale/cra_avviso.php?id=12321&tipo=news&lingua=IT

Open-source advances in the logistics of forestry products RFID and infotracing based

Finalized research project Ambi.Tec.Fil.Legno project:
"Tecnologie innovative ad elevata sostenibilità
ambientale nella filiera foresta -legno-energia" (D.M.
952 Miur del 17/03/2014) supported by the Italian
Ministry of University and Research

Company name

Gamerz Studio Inc.

Name

57.

Sawmill Simulator - Forest Truck Driving Game

Type

MOBILEAPP

Category

GAMING, SAWMILL, TRANSPORTATION

Description

APP CHE PROPONE UN GIOCO CHE SIMULA LE OPERAZIONI BOSCHIVE E DI SEGHERIA. FA APPRENDERE IN MODO SIMULATO ALCUNI ELEMENTI BASE DEL LAVORO IN BOSCO E SEGHERIA

Country

IRELAND

Language

ENG

Company Website:

<https://play.google.com/store/apps/details?id=com.gamerzstudio.sawn.mill.driver&hl=en&showAllReviews=true>



Sawmill Simulator - Forest Truck Driving Game for Android

Step into the world of forest truck simulator games and enjoy the perks of being a sawmill driver in the massive forest with this forestry simulator. take charge of forestry machines and handle real physics controls of the super logging harvester truck and tow truck in as a forest harvester. Explore your truck driving skills by taking the logging truck & timber truck to the destination in time. Fulfill your forest truck driving duty and experience the best of forestry logging games, be a sawmill driver in a total forest harvester environment. The 3D graphics of saw and claw of this amazing sawmill simulator and timber harvester simulator along with the realistic controls of the logging harvester truck, will transport you to the zone of forestry logging games.

Don't miss out on the adventurous forest truck driving experience with the advance forest harvester sawmill simulator. maneuver the sawmill machines as an expert sawmill driver. Experience various interesting missions of loading the logs into a logging truck, and transporting the forest harvester timber truck to offroad destinations. Forest logging games can make truck driving so much better! Be a forest harvester and experience the multi handling of forestry machines like:

- Timber truck
- Sawmill machine
- Logging truck
- Tow truck

Be the best sawmill driver and complete 6x6 offroad driving adventures in this best of forestry logging games and timber harvester simulator.

Activate the forest harvester in you and become the sawmill driver to handle the saw and claw of the timber wood in forestry logging games. the best 6x6 offroad truck driving experience awaits you in the bet sawmill simulator and timber harvester simulator on your fingertips.

Features Of Sawmill Simulator - Forest Truck Driving Game:

- Experience 6x6 Offroad Truck Driving
- Forest Harvester Tasks
- Multi Driving Experience With Forestry Machines
- High End Sawmill Machine
- 3d Graphics
- Amazing Forest Environment
- Real Physics Controls Of Logging Truck And Timber Truck

Company name

Norwood Sawmills

Name

58.

Norwood Mobile App

Type

MOBILEAPP

Category

LOGSVOLUME, MEASURE, SAWMILL

Description

APP MOBILE PER IL CALCOLO ISTANTANEO DI MISURE/CUBATURE RELATIVE AI TRONCHI ED AL TAVOLAME

Country

USA

Language

ENG

Company Website:

<http://www.norwoodsawmills.com/norwood-mobile-app>

Norwood Mobile App

“Norwood Sawmills Calculator” mobile app gives you instant estimates of the board-feet in your logs according to Doyle, Scribner & International log rules. Bonus functions calculate the volume of sawn lumber and estimate the weight of your logs.

- *Do you buy or sell logs and need to make quick estimates of board footage—or just want to check to see if a log buyer has his “thumbs on the scales” when he scales your lumber?*
- *Do you find yourself fumbling for a pencil and paper to figure out how much lumber there is in a stack of 2” x 10” boards while your customer waits?*
- *Do you need to estimate how much that 30” diameter by 12-foot long log weighs before you load it on your trailer?*

The “Norwood Sawmills Calculator” mobile app for your [Apple](#) or [Android](#) phone or tablet solves all of these problems!

Log Rules: *If you are buying or selling lumber or estimating how much to bid on a custom-cutting job, the log scaling feature is quick, easy and accurate. Swipe the sliders to input the log dimensions and immediately get the answer according to all three main log rules - Doyle, Scribner and International ¼”.*

Lumber Scale: *To find the volume of a board, just plug the dimensions into the lumber scale function. For multiple boards, there is also a slider to input the quantity so you can quickly calculate the board-feet of a stack of sawn lumber. This is the quickest, most accurate way to tally up a job when you charge by the board-foot or to buy or sell boards.*

Log Weight Calculator: *The log weight calculator estimates the weight of most common species of logs. Select the species of your log, swipe the sliders to input the length and diameter and instantly have your answer.*

For those who work in metric, the new mobile app also functions in cubic meters instead of

board-feet.



Company name

AlforLab

Name

59.

Progetto Ambi.Tec.Fil.Legno – (in ambito Cluster MEA - Materiali Energia Ambiente)

Type

DESKTOPSYS, ...

Category

HARVEST, INVENTORY, PLANNING , CERTIFICATION

Description

LABORATORIO PUBBLICO-PRIVATO CHE PROMUOVE LO SVILUPPO SPERIMENTALE IN TUTTE LE DIVERSE FASI DELLA FILIERA FORESTA-LEGNO-AMBIENTE ED IN PARTICOLARE: MONITORAGGIO E INVENTARIAZIONE AVANZATA. PIANIFICAZIONE, BIOMASSE, CERTIFICAZIONE AMBIENTALE. UTILIZZAZIONE, MECCANIZZAZIONE E TECNOLOGIA DEL LEGNO.

Country

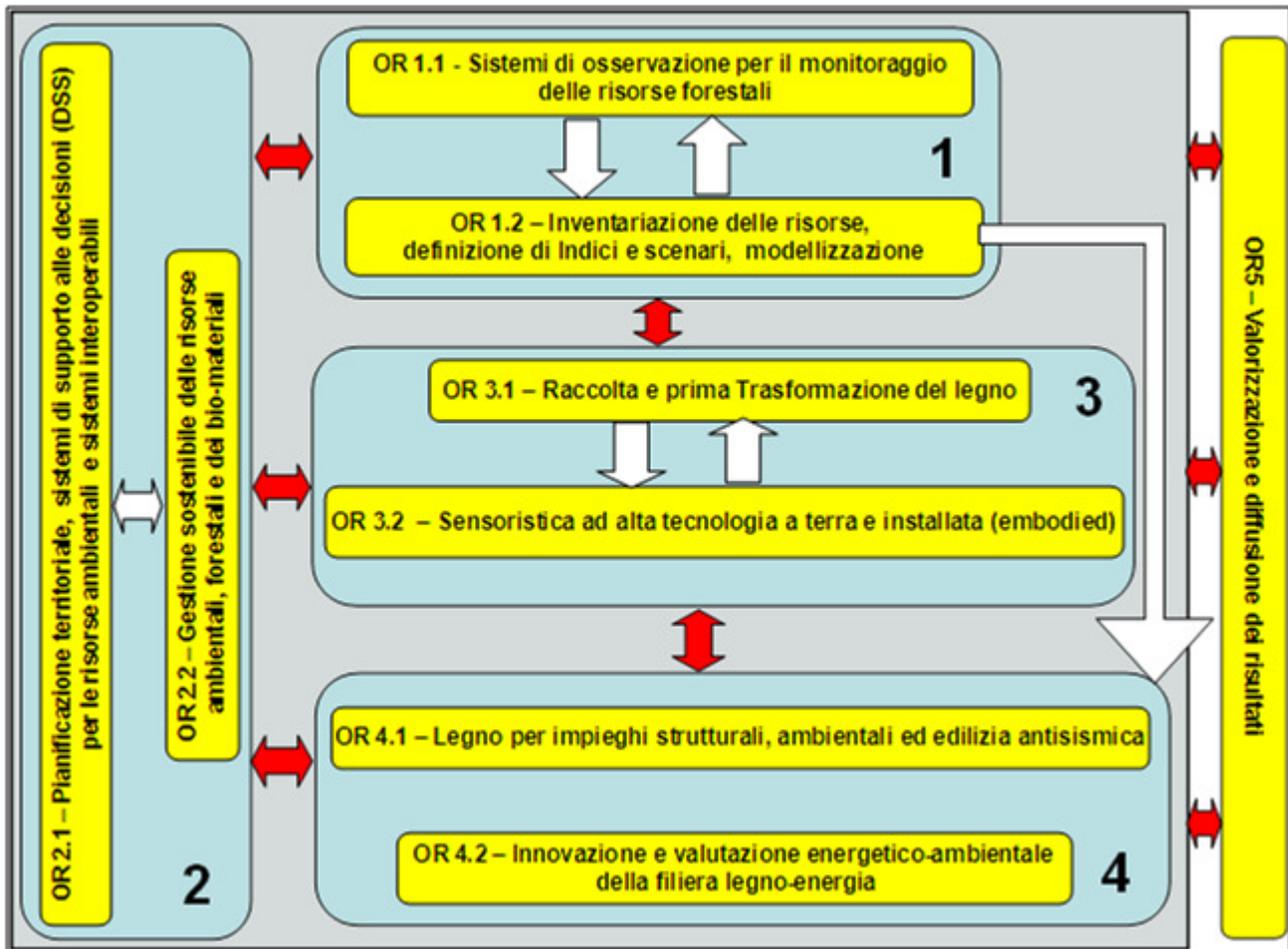
ITALY

Language

IT_ENG

Company Website:

<http://www.alforlab.it/pagine/dett/7?pp=7>



Company name

e-laser

Name

60.

DBFP (Database forest planning)

Type

SERVICE-AERIALDATA, SERVICE-LASERDATAPROCESSING

Category

DATAPROCESSING, MANAGE, PLANNING

Description

E-LASER SVILUPPA SERVIZI E SOLUZIONI SOFTWARE CHE CONSENTONO L'UTILIZZO IMMEDIATO DEI DATI ACQUISITI A DISTANZA ATTRAVERSO LE PIÙ AVANZATE TECNOLOGIE DI TELERILEVAMENTO. (DATI 3D LIDAR).

Country

ITALY

Language

IT

Company Website:

http://www.e-laser.it/ita/products_services/

e-laser

AZIENDA

E-laser è un'azienda ICT, Spin Off dell'Università degli Studi di Udine, supportata da **Techno Seed**, l'incubatore tecnologico situato presso il Parco Scientifico "Luigi Danieli" di Udine.

ATTIVITÀ

E-laser fornisce prodotti e servizi rivolti ad Enti, Amministrazioni pubbliche, Società private e Professionisti che operano nel campo del monitoraggio e della gestione del territorio. Sviluppiamo strumenti **Software** avanzati e metodologie di analisi basate sullo studio algoritmi originali che consentono di produrre innovazione nei settori del telerilevamento e dei Sistemi Informativi Territoriali sia in 2D che in 3D.

STORIA

Il team aziendale si è formato nell'ambito dell'Università degli Studi di Udine, in particolare all'interno progetto [Interreg IIIA Italia-Slovenia 2000-2006](#) dal titolo *"Ricomposizione della cartografia catastale e integrazione della cartografia regionale numerica per i sistemi informativi territoriali degli enti locali mediante sperimentazione di nuove tecniche di rilevamento"*.

Il progetto, svolto in collaborazione con la Regione Autonoma Friuli Venezia Giulia, ha riguardato lo studio e la sperimentazione di tecniche innovative per il telerilevamento quali il **Laser scanning da aeromobile (ALS)**, la **scansione laser terrestre (TLS)** e il **rilievo iperspettrale** in diversi contesti applicativi: dalla quantificazione delle risorse forestali, alla produzione di modelli tridimensionali del territorio e dell'edificato urbano (3D City Models).

L'attività scientifica è stata particolarmente intensa ed ha portato alla realizzazione di oltre sessanta pubblicazioni riguardanti ampi settori d'interesse sia teorico che applicativo.

Il Concorso per l'Innovazione **"Start Cup Udine 2007"** ha incentivato i ricercatori a dare un'ulteriore valore di concretezza applicativa al lavoro di ricerca svolto in precedenza. Il 1° Premio nella finale locale del "Premio Nazionale dell'Innovazione" tenutasi a Udine nell'ottobre del 2007 ha dunque riconosciuto al team l'originalità dell'idea imprenditoriale e la fattibilità sul piano economico-finanziario delle soluzioni proposte.

Company name

Tpinspection

Name

61.

SFI

Type

SERVICE-CERTIFICATIONTOOL

Category

CERTIFICATION

Description

SERVIZIO PER LA CERTIFICAZIONE FORESTALE

Country

USA

Language

ENG

Company Website:

<http://www.tpinspection.com/forestry-certification.php>

Forestry Certification

The growing marketplace for green products is expanding every day.

Consumers are demanding that the products they buy and the companies they buy from be environmentally responsible. The professional staff at Timber Products Inspection (TP) has the necessary knowledge and programs to ensure compliance in this constantly changing marketplace. TP currently offers third party auditing programs that cover both the NAHB – National Green Building Program and the a Sustainable Forestry Initiative (SFI) Chain of Custody program.

SFI

Chain of custody certification is a tool used to track certified wood fiber through the different stages of production to the end user. This program promotes sustainability of the forest products we use every day. It also assures consumers that the forest based materials they buy are from legal and responsible sources.

Any company that processes or trades SFI-certified forest products, including manufacturers of forest products, paper merchants, converters, wood dealers, wood yards, wholesalers, brokers and printers can seek SFI chain-of-custody certification. These companies must have processes such as inventory control, employee training, reporting and invoicing so they can track raw materials from certified forests through production and manufacturing to the end product. Many businesses with more than one location have received certification covering multiple sites.

The SFI program at TP gives companies the solution they need to ensure compliance. TP's SFI Chain of Custody program is accredited by the American National Standards Institute (ANSI).



Company name

EFFETRESEIZERO

Name

62.

SIFTEC

Type

MOBILEAPP , BROWSER-BASEDAPPLICATION , DESKTOPSYS

Category

PLANNING ,MANAGE ,HARVEST

Description

SOFTWARE E SERVIZI PER LA PIANIFICAZIONE FORESTLE

Country

ITALY

Language

ENG

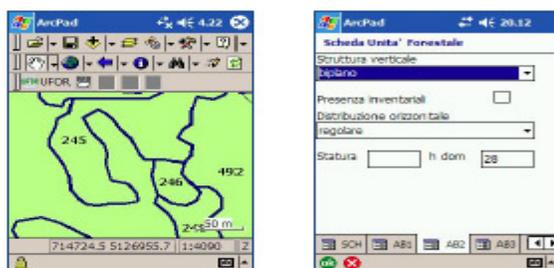
Company Website:

<http://www.f360.it/home-2/>

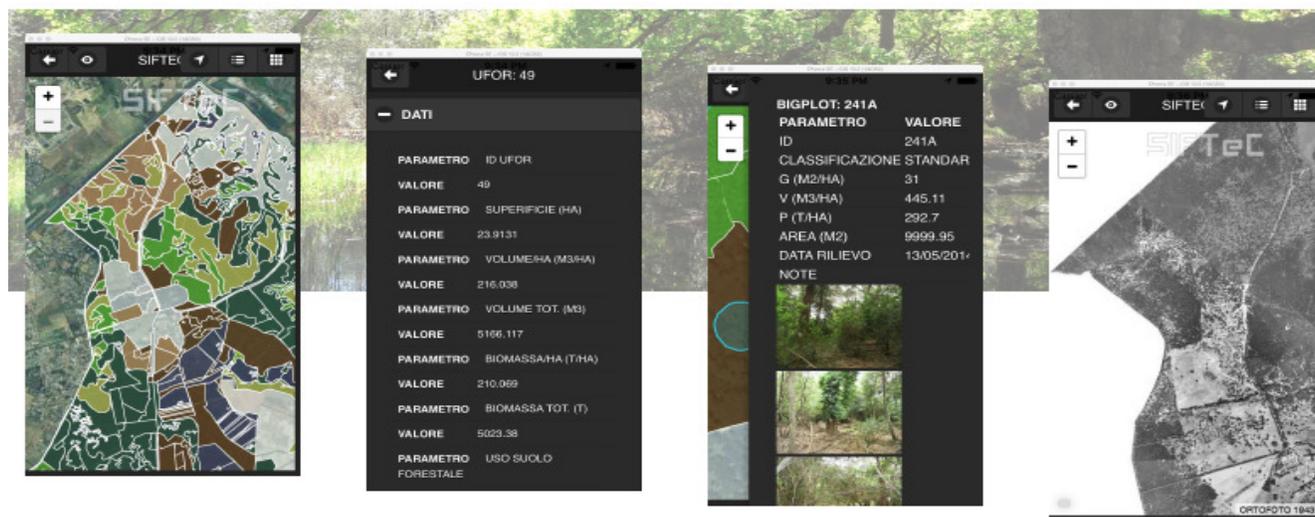
App mobile - Nuova Pianificazione Trentina



UFOR-mobile



Pianificazione



Inserimento e modifica di tutti i dati relativi alla pianificazione degli interventi

Elaborazioni automatizzate per la stima dei risultati dei prelievi

Aggregazioni statistiche dei dati relativi alle Classi Colturali

The image shows two overlapping windows from the SIFTeC software. The background window is a map interface with a tree canopy visualization. The foreground window is titled 'Dati intervento' (Intervention Data) and contains the following information:

Dati intervento

Litor:
 Numero UFOR:
 Superficie (ha):
 Classe colturale:
 Durata del piano (anni):
 Priorità:
 Ritardamento priorità di piano:

Dati intervento

Stima % volume prelevato utilizzabile come legname:
 Legname (m3/ha):
 Legna (t/ha):
 Legname (m3):
 Legna (t):

Utilizzazioni

Superficie Litor (%)
 Superficie per utilizzazione:
 Numero utilizzazioni:
 Intervallo anni per util.:
 Prelievo legname (m3) per util.:
 Prelievo legna (t) per util.:

Descrizioni intervento

Numero	Specie	Descrizione	Indicazioni
1	PI	diradamento	liberare letifoglie adagiate
2	PG	potature	

Tabella di sintesi:

Spp./c. dim. PI	V inventariale (m3/ha)		P inventariale (t/ha)		Dimensionamento prelievo (%)				V prelevato (m3/ha)		P pi
	QC	CA	AC	LE	SU	FR	EU	ALA	ACO	Tot	
pi	0	0	1	0	2	2	0	0	7.1	0	12.1
p	3	3	0	0	7.1	3	0	0	0	0	16.1
m	66.6	34.3	0	0	1	12.1	0	0	0	0	113.9
g	123	2	0	0	0	11.1	0	0	0	0	136.1
sp	17.1	27.2	0	0	0	12.1	0	0	0	0	56.5
Tot	209.7	66.6	1	0	10.1	40.3	0	0	7.1	0	334.8

Company name

WWF

Name

63.

CAT – Certification Assessment Tool

Type

SERVICE-CERTIFICATIONTOOL

Category

CERTIFICATION

Description

SERVIZI PER LA CERTIFICAZIONE FORESTALE

Country

SWITZERLAND

Language

ENG

Company Website:

<http://wwf.panda.org/?246871/WWF-Forest-Certification-Assessment-Tool-CAT>

WWF Forest Certification Assessment Tool (CAT)

Certification schemes have an important role to play in forest conservation, by enabling customers to choose products from forests that are managed in an economically, socially and environmentally responsible way.

To be effective, certification schemes need to have operational standards that are strong enough to deliver real positive impacts on the ground. And they need to have a strong governance structure and systems in place to ensure that the standards are applied.

WWF has developed the **Certification Assessment Tool (CAT)** to test the strength of certification systems and their standards on issues that matter to us and many other stakeholders worldwide. The CAT is based on our experience of working with a wide range of commodity certification schemes.

By highlighting strengths and areas for improvement in different schemes, the CAT enables WWF to monitor continuous improvements of certification schemes and their ability to deliver greater benefits for people and nature.

What does the CAT evaluate?

Standard strength – the requirements that forestry operations need to fulfil in order to become certified. This covers environmental issues such as biodiversity, water and soil management, pollution and greenhouse-gas emissions, and social issues such as land tenure, community relations and workers' rights.

System strength – the rules and procedures that regulate the system. This includes how the management and other standards are developed and verified, the control of the certification bodies, governance and grievance procedures, and chain of custody and labelling issues.

The CAT is based on WWF's conservation objectives, expert opinion and existing research into the impacts of certification. For example, multi-stakeholder schemes, in which different stakeholders such as communities, civil society organizations and environmental NGOs are actively involved, tend to score higher. This is because our experience shows that multi-stakeholder schemes are more likely to drive dialogue on emerging issues, address issues that matter to civil society and ensure that certificate holders comply with the standards.

The CAT is a living document and will be updated regularly to address upcoming issues and fairly reflect progress made by schemes to deliver better outcomes.