



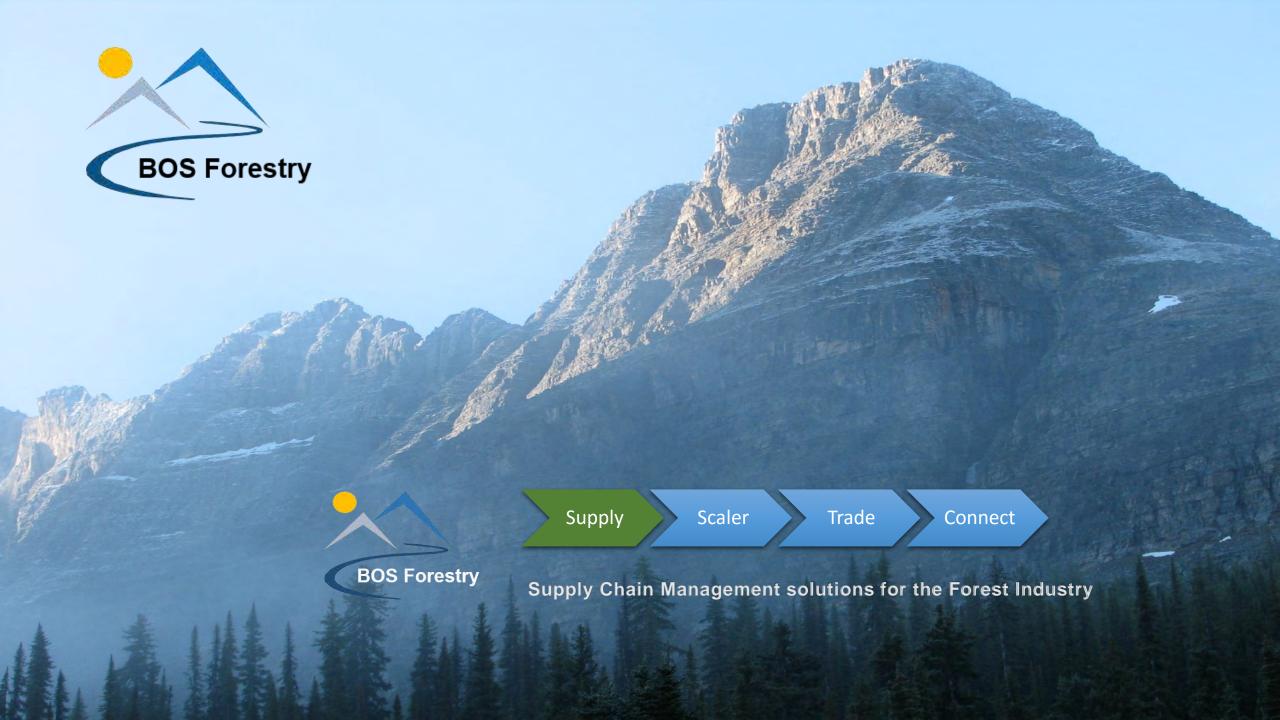
BOS Forestry Agenda:

- Background
- BOS Forestry Product Line
- Key Measurements
- Sample Piece Scale
- Photometric Scaling
- Financial Processing
- Quality Program source data

Follow-up questions

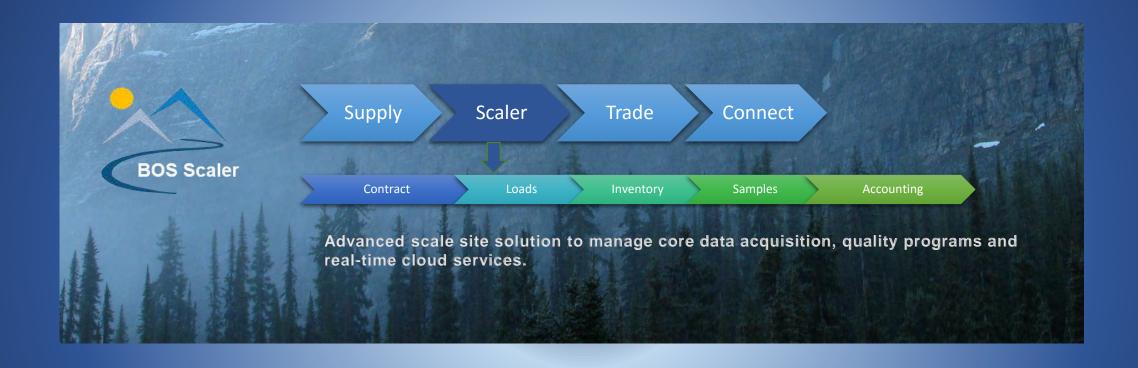
> Info@bosforestry.com



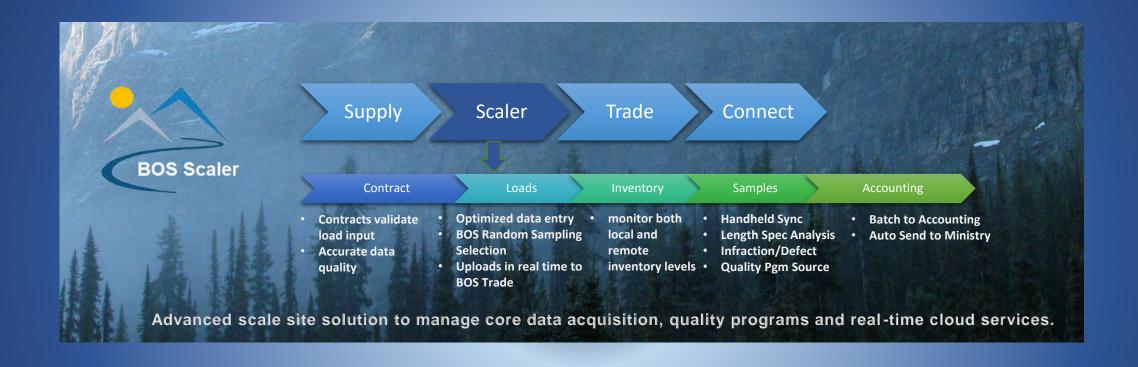




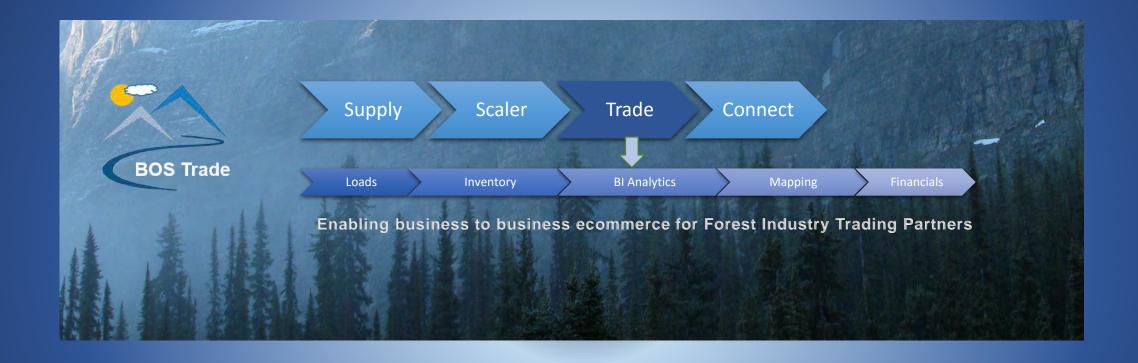






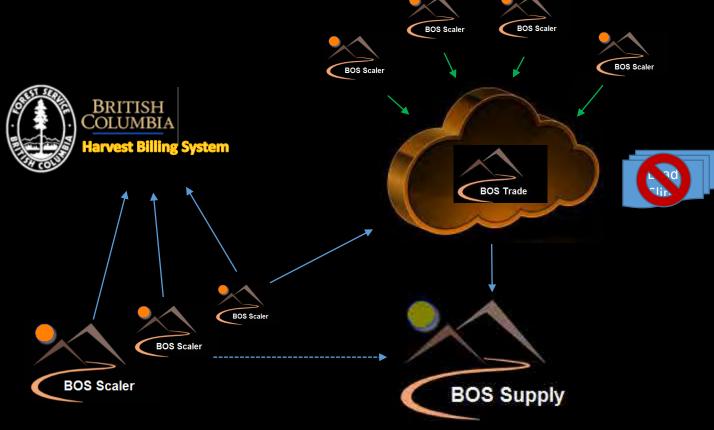


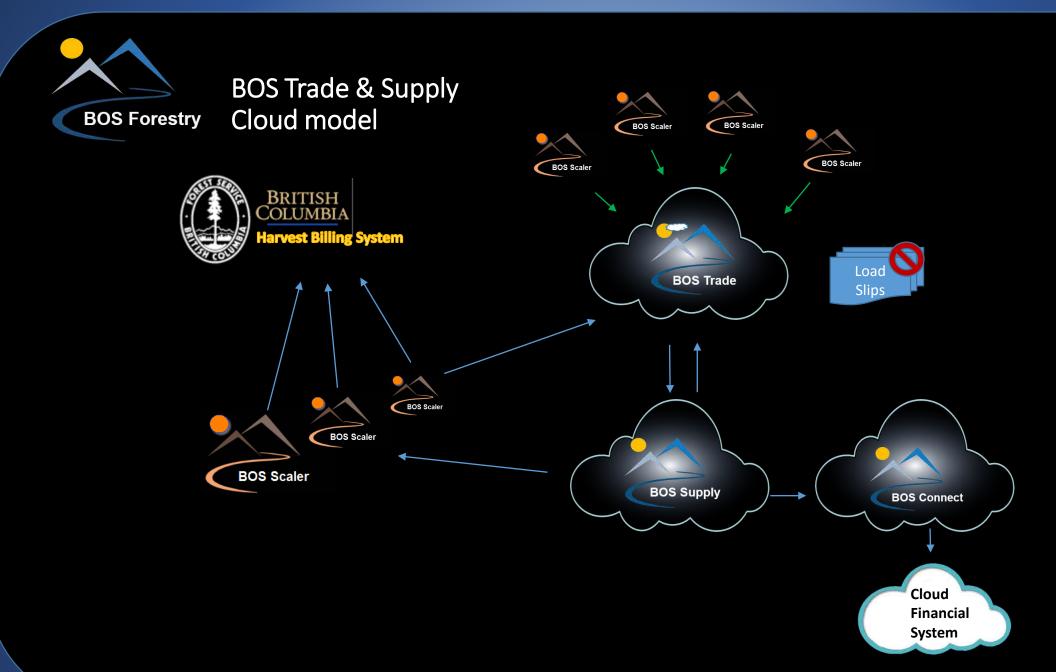










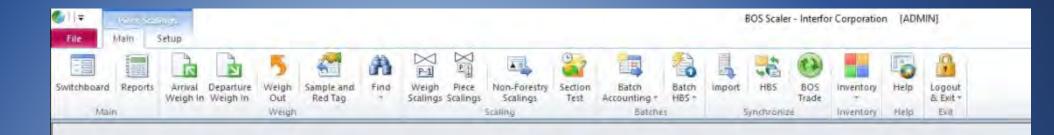


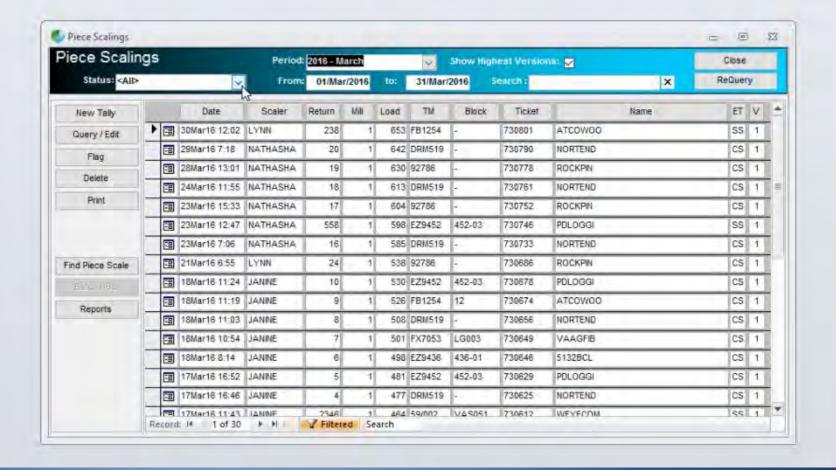






Piece Log Scaling







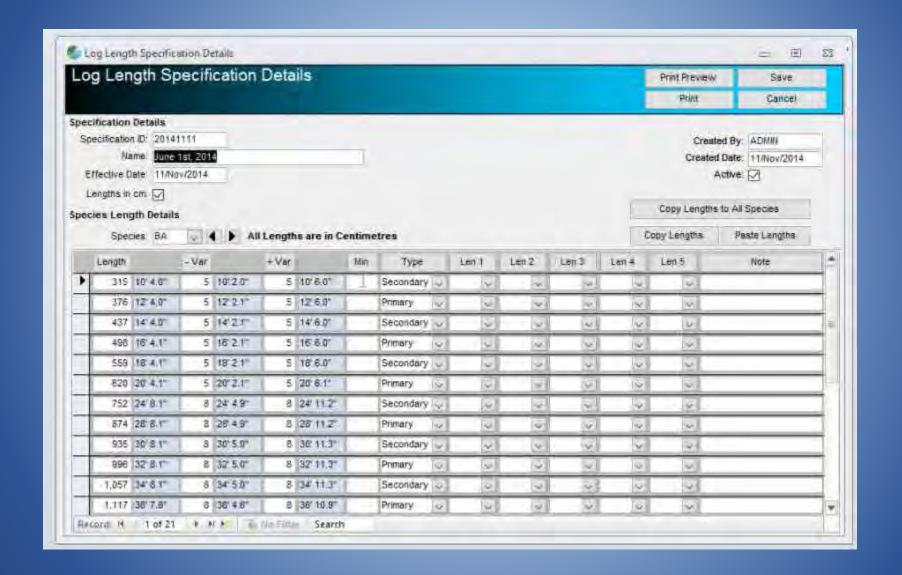
Log Details



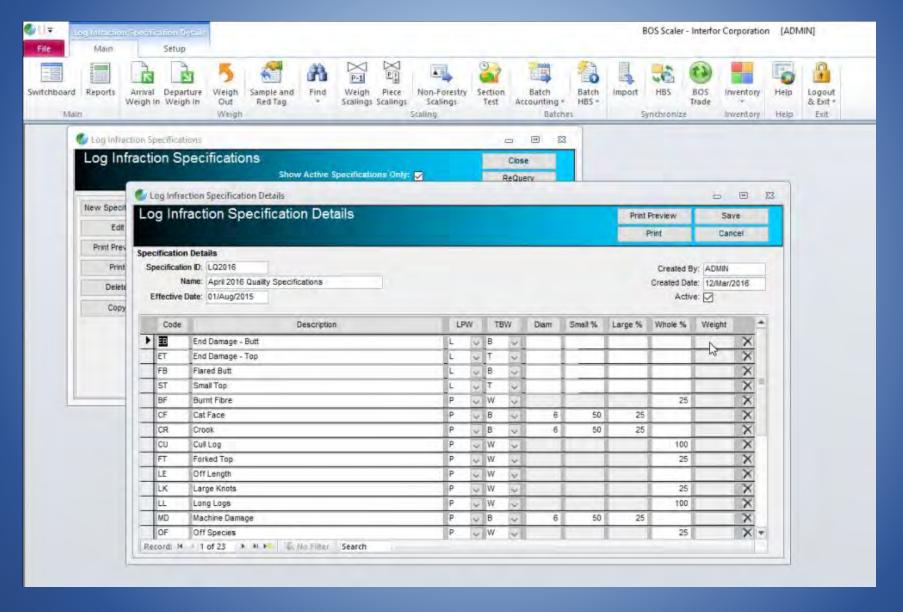
Quality Source Data



Log Length Specifications

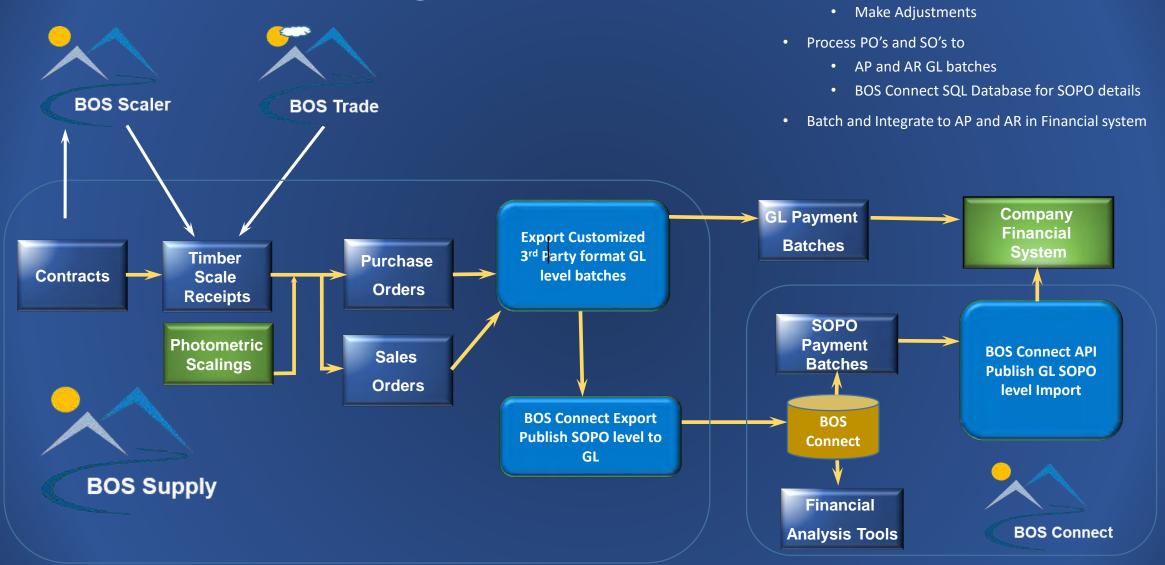


Log Infraction Specifications





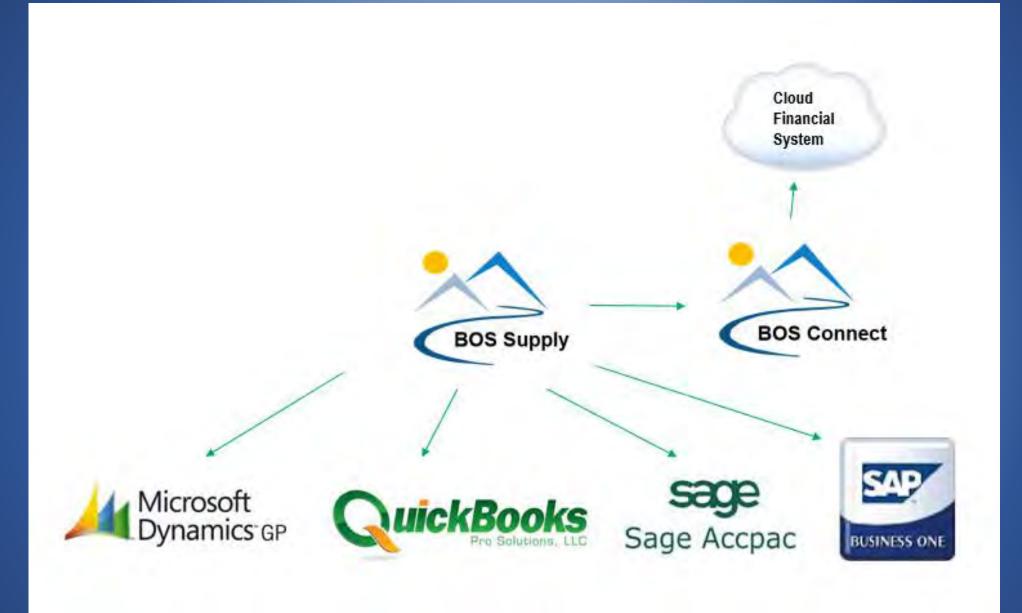
Financial Processing



• Collect and process settlement transactions for Period

Process Receipts to PO's and SO's

Receipts – Import from BOS Trade and BOS Scaler





Photometric Measurements Usage

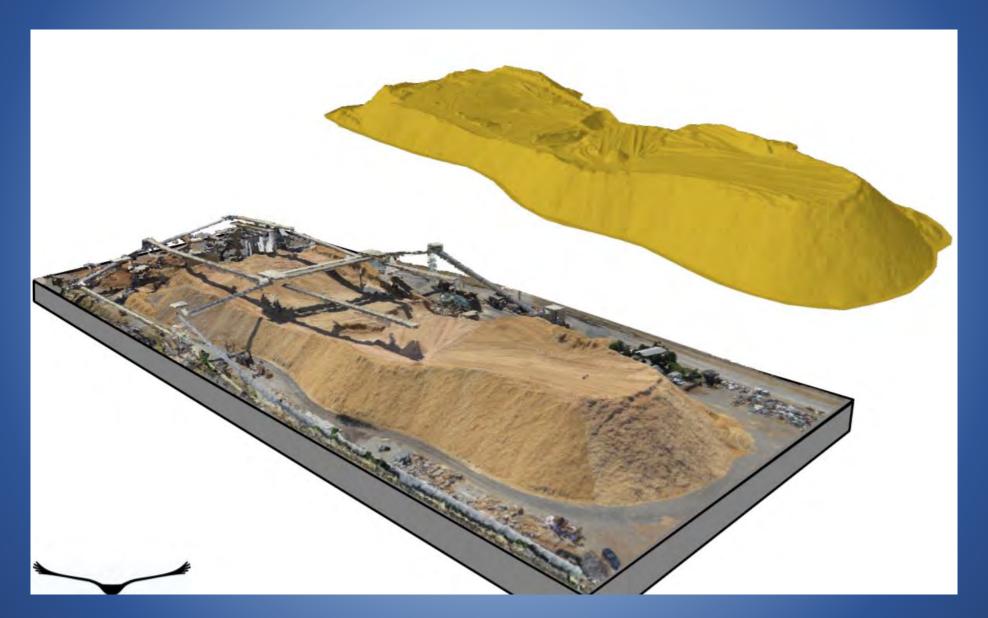
- Planned usage for within BOS Forestry apps
- Woodpiles
 - Source data for processing Contract progress payments
 - Capturing diameter classes for quality program
 - Providing summary inventory and diameter class data for use by mill
- Trucks
 - Logging truck load added detail
 - Log count
 - Diameter classes

- Evaluation project in play with large Canadian company
- Vendor participants
 - Timbeter/Logsize
 - FOVEA
 - Trestima

Nelson based Harrier Ariel Surveys



Celgar Pulp Mill







Photometric App Evaluation

- Run test piles through capture process
- Upload to BOS Trade dedicated SQL Server tables
- View analyze in grids and charts
- Compile results for Tembec study
- Offer photometric data services as part of BOS Forestry solutions based on Customer app choices



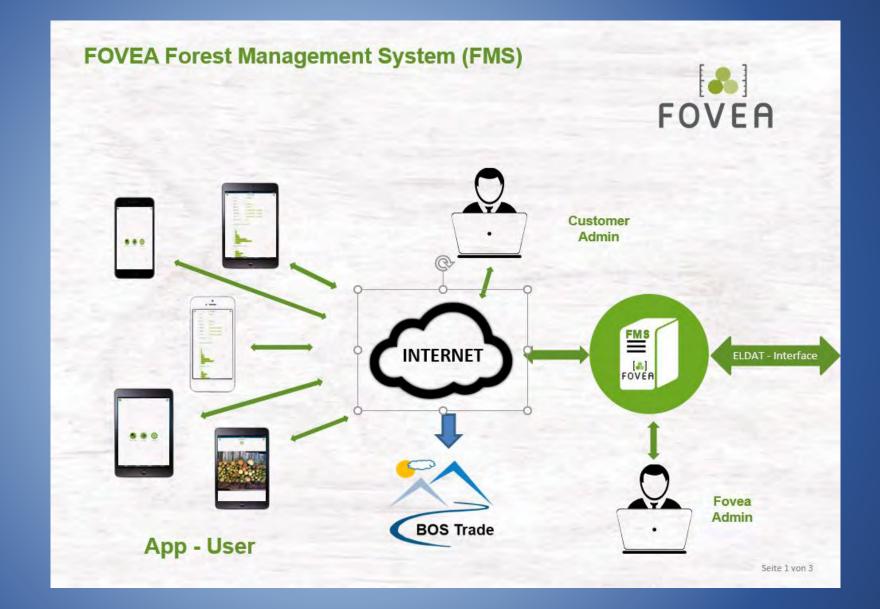


Timbeter



Log stack measurement & digitalization

FOVEA





Polter Export, 2016-03-17 19.00

1/3

Gager

brandes (brandes@fovea.eu)

Plots

Plot 11666

Fineness C
Tree species BU
Total woodpiles 1

Total logs 122 (+4) Total m³ gross 77.22 m³

Total scm FOVEA 52.67 m³ incl. underl.
Total scm RVR 46.33 m³ excl. underl.



Fellings

Felling 2

Total woodpiles

Total m³ gross

77.22 m³

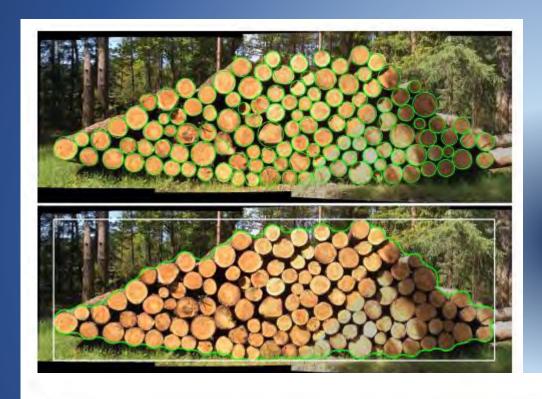
Total scm FOVEA 52.67 m³ incl. underl.

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Measure date Gager	08.03.2016 brandes	Coordinates	50.573990 8,788586 50' 34 28.385' N 8' 47 18.910' E		
	brandes@fovea.eu	Forest side	The second second		
Tree species Fineness	BU IN to B	Measurement method - Note	photo-optics		
rmeress	IN TO B	Note	7		
mª gross	204.21 m²	Quantity underlays	a'		
m° net	196.45 m* (Fac. f) 9821	Avg. height front	1.48 m		
sem RVR	122.53 m* (Fac. 0.500)	Front face	34.04 m ⁼		
Log length	0.00 m	Avg. height back	4		
Woodpile width	23.00 m	Back face	4		
Felling no.	2	Begin	03.03.2015		
Forestry/District	Kirchzell Odenwald	End	01.96.2015		
Lumberjack	No pontractor	Note	2		
Skidder	Hess GmbH				
Plot no.	11229344	Fineness	IN to B		
Date	08.09.2016	Sort	No.		
Note	Industrieholz	W/o bark	No		
	7 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	Color marking	2		
Wood buyer	emander	Street address	-		
		Томп			

Individual Log and Pile Volume scenarios





Dedicated tables in BOS Trade for XML uploads

FOVEA XML Export Field Types

Field Name	Туре	Description		
Polter_ID	unsigned INT	UID of a woodpile		
Woodpite_no	VARCHAR(100)	Number of the woodpile		
User_mail_address	VARCHAR(100)	Mail address of the user that created the woodpile		
Plot_no	VARCHAR(100)	Number of the plot (a plot contains information about the fineness, sort and length of the wood - specified by the wood buyer → German wood industry)		
Felling_no	VARCHAR(100)	Number of the felling (a felling contains inform about the timespan and the forest site where the is cut and by which contractor → German wood inde		
Department	VARCHAR(100)	Location in the forest (> German wood industry)		
Sub_department	VARCHAR(100)	Location in the forest (→ German wood industry)		
Sub_area	VARCHAR(100)	Location in the forest (+) German wood industry)		
Woodpile_note	VARCHAR(1000)	Comment on the woodpile		
Tree_species	VARCHAR(10)	Tree species		
Log_length	unsigned DECIMAL(15,2)	Depth of the woopsle		
Woodpile_width	unsigned DECIMAL(15,2)	Wigth of the woodpile		
Fineness	VARCHAR(10)	Describes the quality of the wood (upper limit)		

Merging bush Woodpiles with Scale data for Progress Payments

	А	ВС	D	E	
1	BOS Trade Data Mapping				
2		Ma	BOS TRADE		
3	xml version="1.0" encoding="UTF-8" standalone="yes"?	21	DDN	580147054H18I	
4	<foveaexport></foveaexport>		Version	1	
5	<woodpile id_polter="2536"></woodpile>		Site	587	
6	<polter_id>2536</polter_id>		Scale Name	Jemi Fibre Corp Edgewater	
7	<woodpile_no.>1234</woodpile_no.>	Wo	Ticket	15418	
8	<pre><user address="" mail="">brandes@fovea.eu</user></pre>		Date In	01/Dec/2015	
9	<user_mail_address.>1</user_mail_address.>		Date/Time In	01/Dec/2015 15:12	у
10	<felling_no.>100</felling_no.>		Туре	ARR	
11	<department></department>		LDS Out		
12	<sub_department></sub_department>		Time In	15:12:00	
13	<sub_area></sub_area>		Timber Mark	EDXTT	у
14	<woodpile_note></woodpile_note>		Carrier	Bond Ventures	
15	<tree_species>BU</tree_species>		Supplier	Bond Ventures	
16	<log_length>4,00</log_length>		Truck ID	K249A	
17	<woodpile_width>12,00</woodpile_width>		Block	LER0015	у
18	<fineness>A</fineness>		Time Out	15:44:11	
19	<fineness_to>B</fineness_to>		Gross Entered	0	у
20	<sort></sort>		Cycle Time		
21	<wo_bark>No</wo_bark>		Loop Min.	32	
22	<color_marking></color_marking>		Carrier ID	BOND VENTURES	
23	<cbm>65,94</cbm>		Tare Entered	0	
24	<cbm_net>65,94</cbm_net>		Transit Time		
25	<correction_factor_cbm_gross_to_cbm_net>1,000<td>r_cb</td><td>Tare (KG)</td><td>20,500</td><td></td></correction_factor_cbm_gross_to_cbm_net>	r_cb	Tare (KG)	20,500	
26	COMP. FOLIFA 41 02 (James FOLIFA)		Gross (KG)	59 530	1

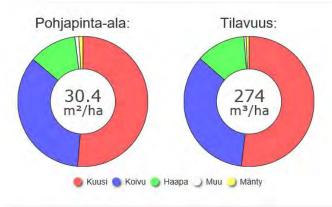


Finland



Kuvio: 17

Tila: Solkivuori Pinta-ala: 0.83 Ha Mittaus suoritettu: 15.03.2016



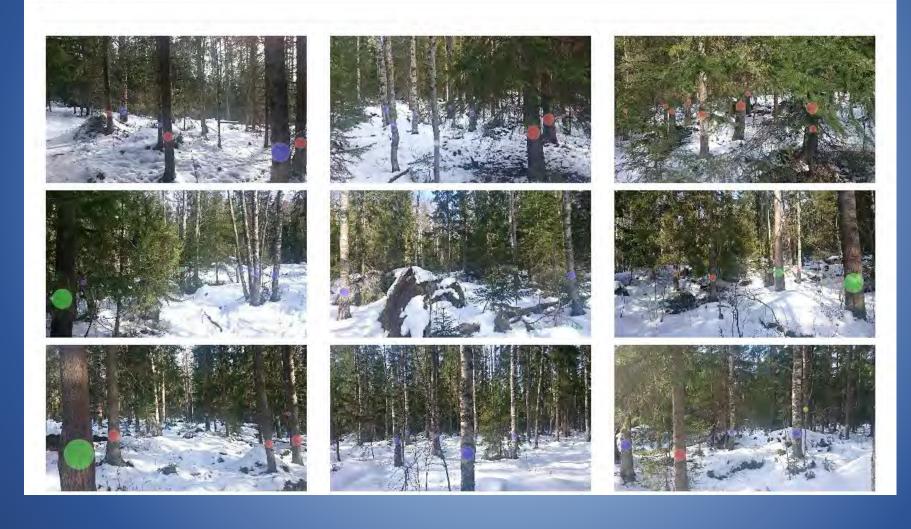


Puustotiedot

Laji	Ppa (m²/ha)	Runkoja (kpl/ha)	Pituus (m)	Läpimitta (cm)	lkä (v)	Tukki-%	Tilavuus (m³/ha)
Kuusi	15.6	435	19.5	21.4	70	57	142
Koivu	10.6	336	19.8	20.1	65	31	95
Наара	3.6	87	20.9	22.9	63	38	34
Muu	0.3	38	9,0	10.0	28	1	1
Mänty	0.3	11	15.5	17.5	43	34	2
Yhteensä	30.4	907	19.3	20.5	65	45	274

Keskivirhe: 9.4%

TRESTIMA

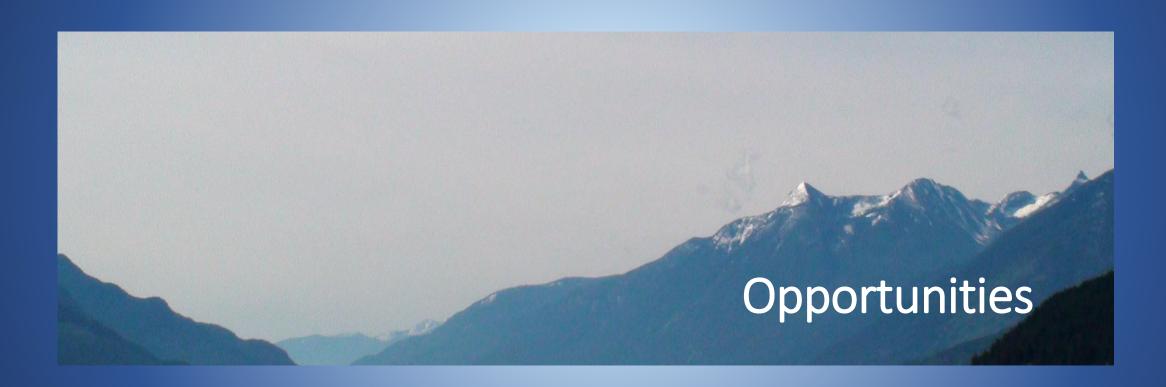


Photometric POC Results available in June 2016

- Share study results
- Update on integrations with BOS Forestry
- Update on emerging mobile apps

Email us if interested in study results

info@BOSForestry.com



BOS Trade Opportunities

- Washington and Idaho Region
 - Testing BOS Trade in the US
 - Cross border log shipping
 - Looking for companies that are interested in testing cubic meter based supply chain system
- International
 - Looking for companies and channel partners that are interested in testing BOS Trade and related supply chain applications.