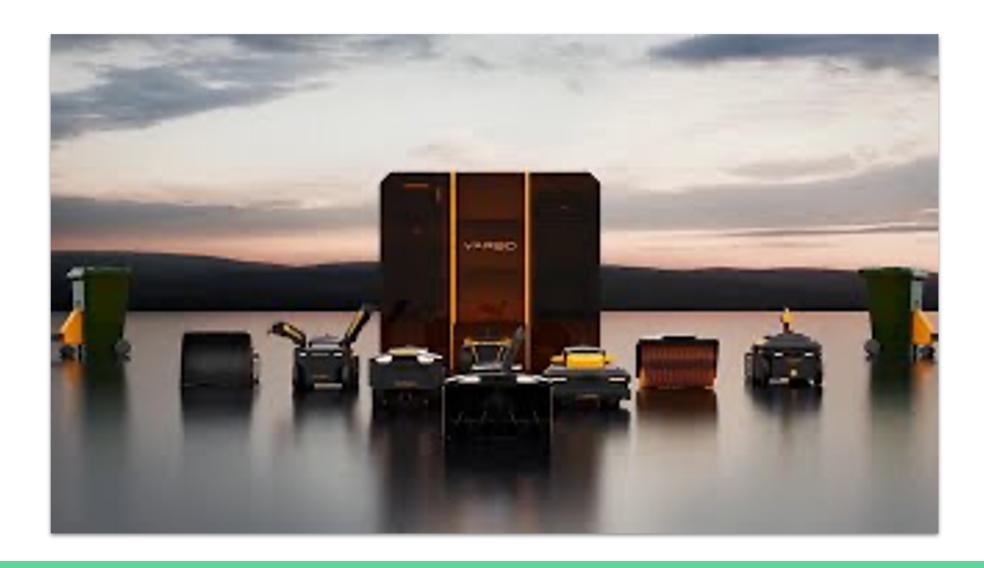
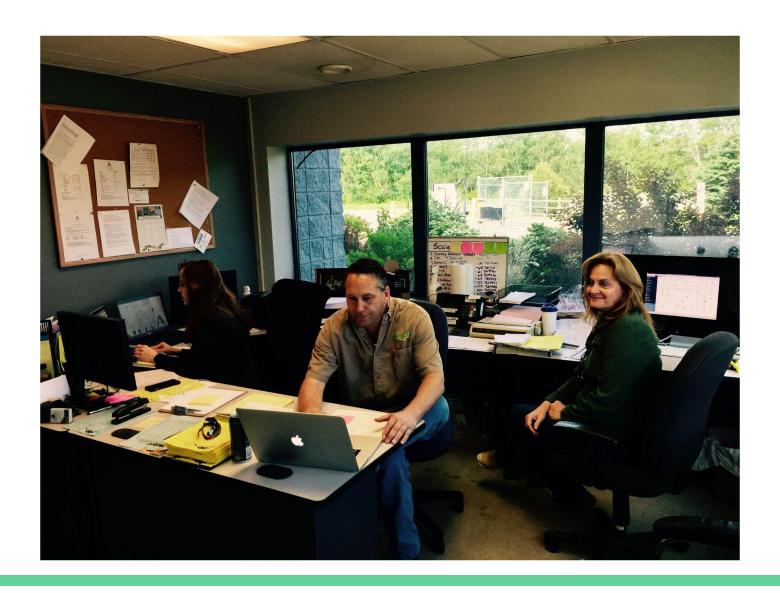
Technology that Works

Ben Ballard | Sylva Corporation, Inc.





"We are stuck with technology when what we really want is just stuff that works"

 Douglas Adams (Author, Hitchhiker's Guide to the galaxy)

Key Management Systems



Lockbox:

- Organizes keys in one place, easily accessible for those who have access to the asset
- + Ideal for back-up keys, but not for everyday rolling stock
- Limited control and visibility
- Sign-in/sign out clipboard
- Self-governance or management time
- Only accessible when a responsible "keyholder" is present

Key Management Systems



Lockbox:

- Organizes keys in one place, easily accessible for those who have access to the asset
- Ideal for back-up keys, but not for everyday rolling stock
- +/- Accessible to anyone with the code/key
 - Some control, no real-time visibility
 - Sign-in/sign out clipboard
 - Self-governance or management time
 - Only accessible at specific times of the day

Key Management System



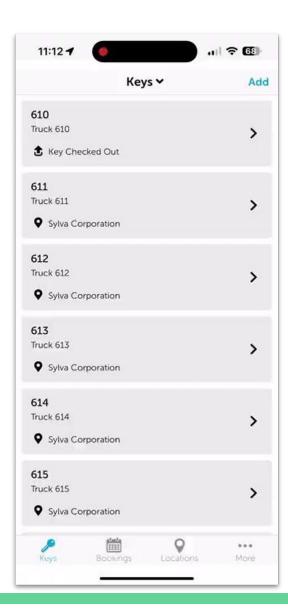
Digital Key Management:



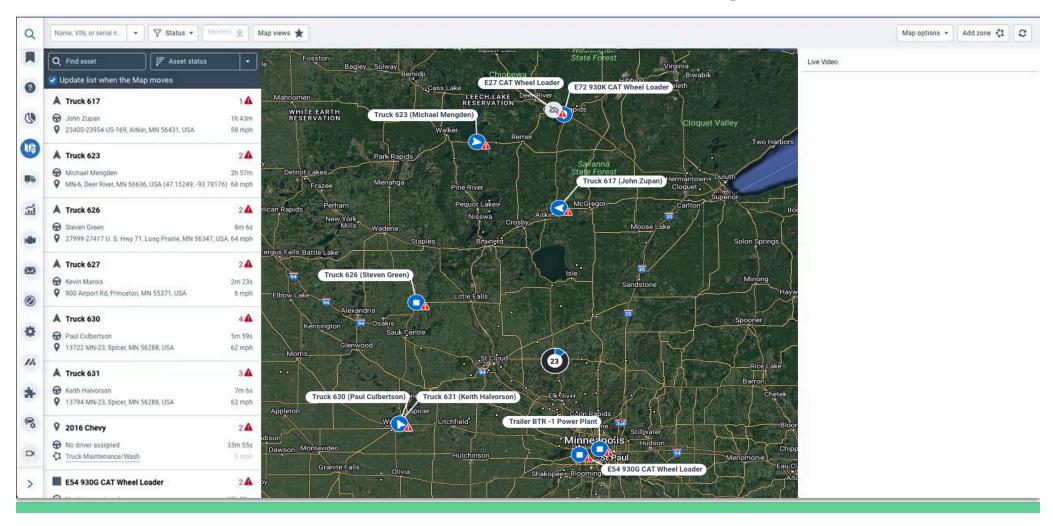
- + Safe, Easy & Accessible 24/7
- + Granular permissions and groups
- + Automatic audit trail w/full details
- + Does not require constant management
- + Expandable
- + Control anywhere from computer or app
- + Keep keys as singles or sets
- +/- Admin-Only Key history report
- Keeps your fleet moving
- Manage from anywhere

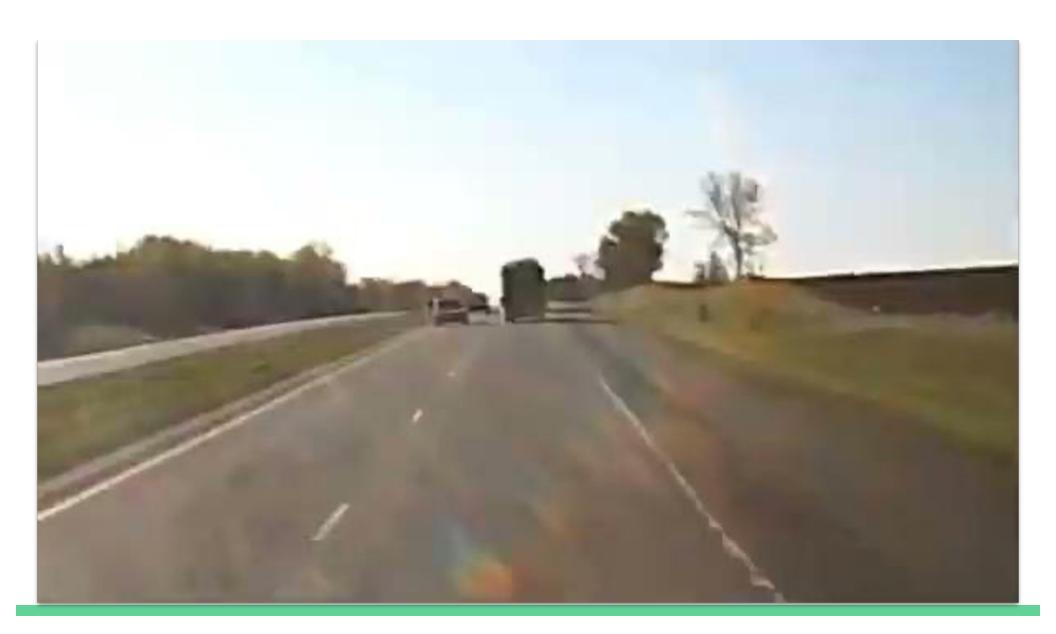
Using KeyCafe





Onboard Truck & Equipment GPS Monitoring GEOTAB







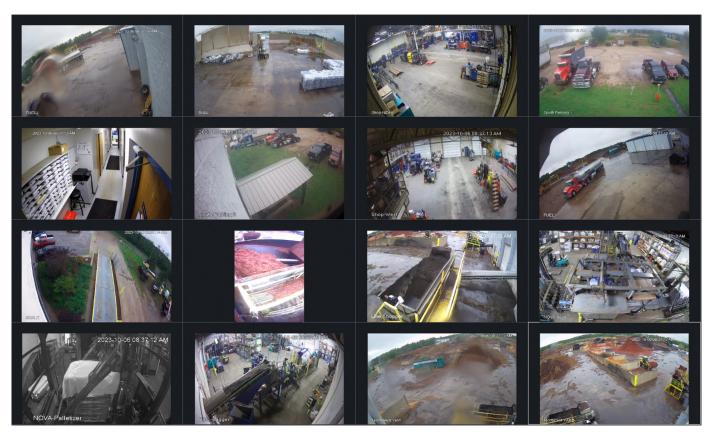


CMMSComputerized Maintenance

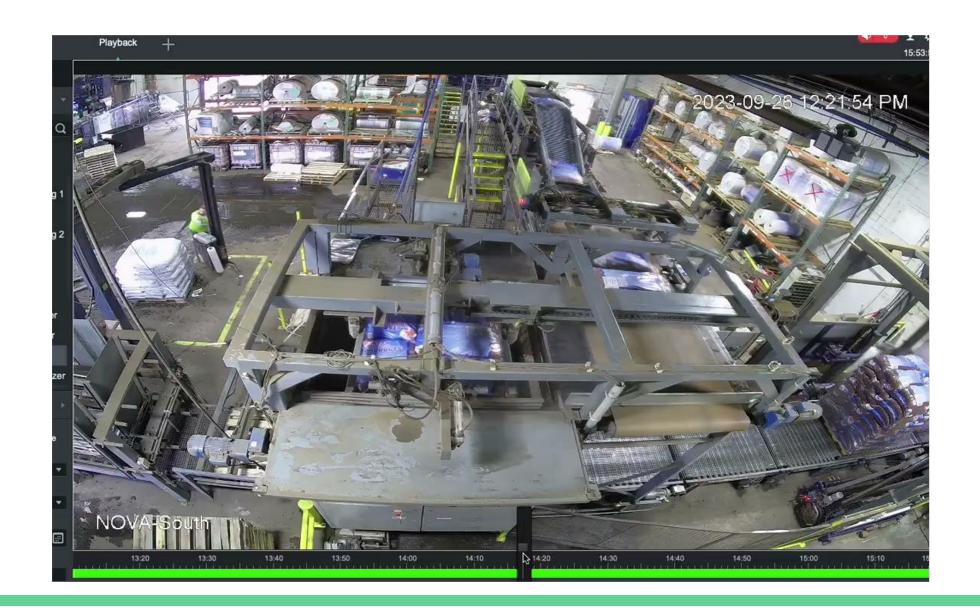
Management **S**ystem

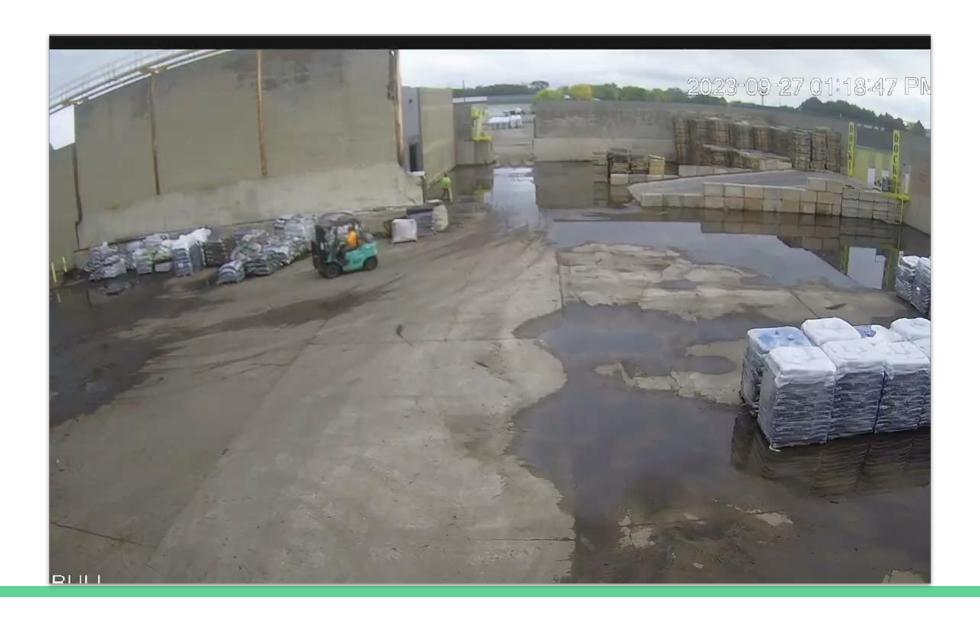


NVR Camera Surveillance System



- Real-Time View
- Recordings













Tablet W/video app

- Fewer Hopper runouts = Less Down time
- Increased task options
- Keep track of multiple hoppers

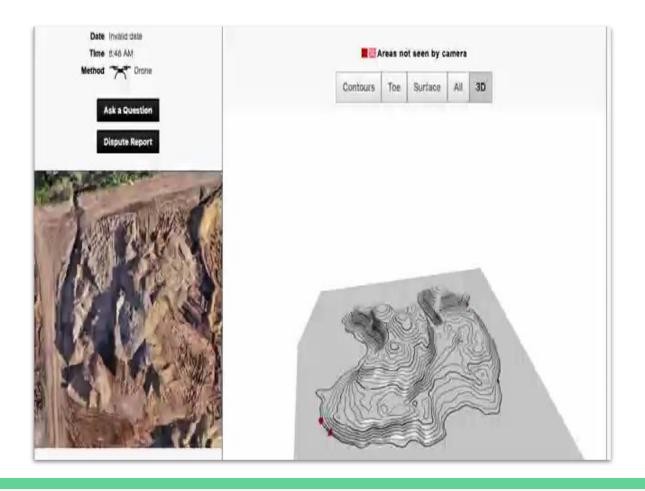


Digital Pile Inventory Imaging

- + Accurate monthly inventory updates
- + View of historical inventory levels
- + Up to date yard maps with everchanging inventory
- + Accurate financial
- + Assist in forecasting demand vs. production needs vs. on hand inventory
- + Drone or Phone Pile Measurements
- + Measure log and brush piles



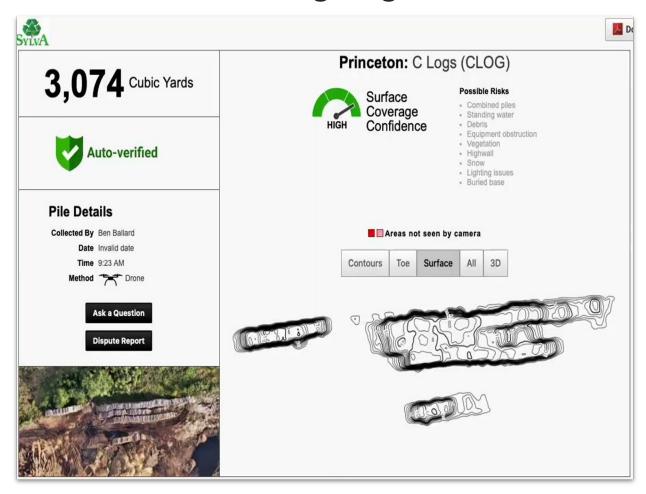
Drone Measurements



Mobile Phone Measurements



Measuring Log Piles



Counting Pallets



Load Verification Systems

Assess:

- + Product Quality
- + Load Volumes
- + Bulk Densities
- + Load Maximization
- + Compaction Loss
- = Quickly determine loadvalue and vendor viability

Control:

- + Receiving
- + Volume Invoicing
- + Driver Coaching
- + Loader Coaching
- + Cost Variables
- = Customer andVendor Satisfaction





Load Maximization Improves the bottom line

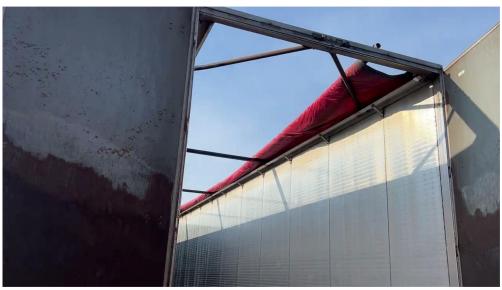
Truck Scale

Use of a truck scale is not only a way to interact a transaction in the wood industry, but it also helps to make sure your vendors or drivers are loading the trucks up to maximum capacity. The truck scale is also used to weigh incoming colorant loads.

Load Scanning

Using a bulk load scanner combined with weight scale to get accurate bulk densities and cost of raw materials. A bulk load scanner also is a check on how accurate the loader operators are at loading trucks.

Auto-Tarps



"Just a Driver Benefit"?

- Aging Workforce
- Increased Driver Satisfaction

REALLY "Just a Driver Benefit"?

40 Minutes per day savings (8 Rolls):

- = 171 Hours annually (-\$4,275)
- = 65 More Truckloads per year
- = +\$100,000 revenue opportunities
- = + \$1,100,000 in revenue opp. fleet-wide.

Reduced Work Comp Claims?



Inbound Load - Hardwood Bark Mulch (New Vendor)

Weight: 90,880

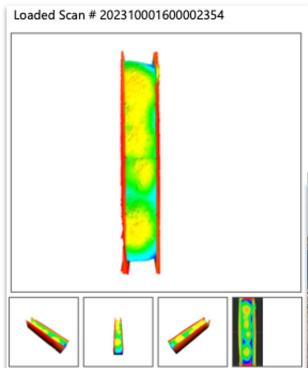
Unknown inbound Volume = 80 - 100 Cubic yards

Unknown Bulk Density





Inbound Load - Hardwood Bark Mulch



Unit # S35

Volume: 102.2 yd3 Account: SylvaCorp

Job:

Stockpile: SylvaBark

Material: SylvaBark (CF 0.00%)

Calculated Payload:

Struck Unit Capacity: 151 yd3

Note: Ticket # 18948

Inbound info:

Gross Vehicle Weight: 90,880 Lbs

Volume: 102 yd3



Cleen Sweep System



"Just a Driver Benefit"?

- Aging Workforce
- Increased Driver Satisfaction

REALLY "Just a Driver Benefit"?

1 hour per day savings:

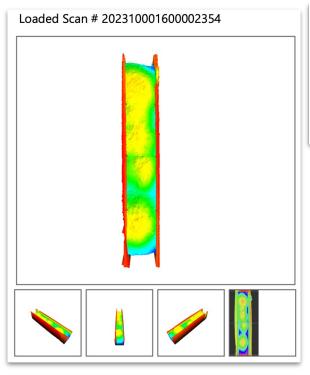
- = 260 Hours annually (-\$6,500)
- = 65 More Truckloads per year
- = + \$150,000 in revenue opportunities
- = + \$1,650,000 in revenue opp. fleet-wide.

Reduced Work Comp Claims?



Grind into Truck - Hardwood Bark Mulch

Outbound info: Weight: 82,920 Lbs Volume: 87 yd3



Unit # S14 Volume: 87.4 yd3 Account: SylvaCorp

Job: Sales

Stockpile: SylvaBark

Material: SylvaBark (CF 0.00%)

Calculated Payload:

Struck Unit Capacity: 129 yd3

Note: SO#72878



Volume loss: 15 yd3 = \$165.50 (\$1.90 / yd3)

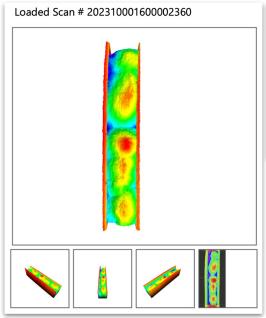
(Less GVW due to truck swap)

Load Cost Variables on a Load Received by Weight

Variable:	Example Costs	Scan Volume Measure (102 yd3 Scan)	Bucket Measuring "91 yd3, 13 buckets"	Volume Inaccuracy	Cost Inaccuracy
Inbound Material	\$15 per Ton	24.6 Tons, 102 yd3 = \$3.61 yd3	24.6 Tons, \$369.00 =\$4.05 yd3	11 Yd3	\$.44 yd3 High
Freight	\$350 per Load	= \$3.43 yd3	= \$3.84 yd3		\$.41 yd3 High
Grinding	\$4.00 per yd3	\$408	\$364.00		\$.41 yd3 Low
Grind Volume Loss/Gain		\$11.04 * 15 = (\$165.5) or (\$1.90)	11.89*10 = (\$118.90) or (\$1.30) (13 Buckets)	5 Yd3	\$.60 yd3 Low
Total Cost		(Actual Cost) \$1291.58 = \$12.66	(Assumed Cost) \$1083/91 = \$11.90	16 Yd3	Variance of \$1.86 yd3

Outbound Load - Hardwood Bark Mulch

Outbound info: Weight: 89,120 Lbs Volume: 93 yd3



Unit # S14
Volume: 104 yd3
Account: SylvaCorp
Job: Sales

Stockpile: SylvaBark

Material: SylvaBark (CF 0.00%)

Calculated Payload:

Struck Unit Capacity: 129 yd3

Note: SO#72878

Load Benefits:

- + 24 yd23
- + \$480.00 revenue
- + \$0.82 / yd3 cost reduction



Maximizing Revenue per load

Variables	Method -> Ticket info v	Bucket Measuring	1st Scan Volume Measure	Full Scan & Weigh Volume	Full Load Benefits	Annualized Benefit (800 Loads/Season)
Volume	80 yd3	11.5 buckets	87 yd3	104 yd3	+ 24 yd3	19,200 yd3
Sale Price	\$20 yd3	\$1,600	\$1,740	\$2,080	+\$480	+ \$384,000
Freight Cost	\$285 Load	=\$3.56 yd3	= \$3.27 yd3	=\$2.74	-\$0.82 yd3	- 220 TL @ \$285.00 \$62,700 Savings
Total Cost to Customer		= \$23.56 yd3	= \$23.27 yd3	= \$22.74 yd3	\$71.34 Load savings	Total Benefit: \$446,700

What's your story?