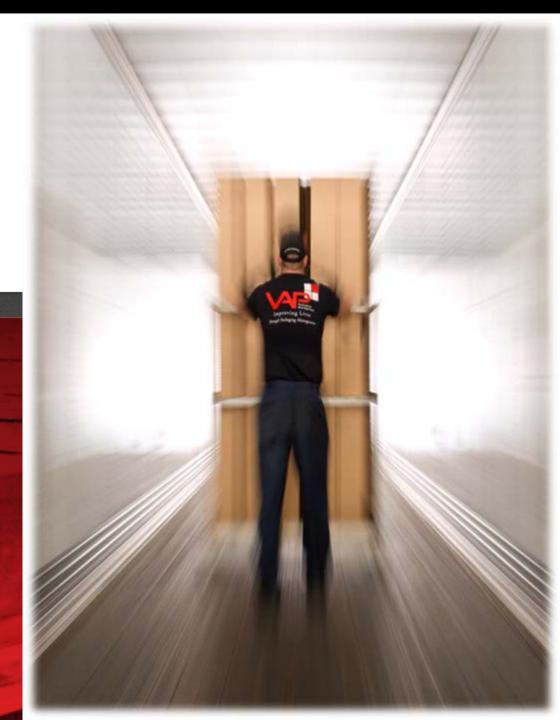


### VAP Packaging Management





#### OUR VISION, MISSION & THE VAP WAY

We're redesigning the way packaging materials are manufactured, managed & delivered to improve the lives of our VAP Team, customers, & community.



## **Typical Industry Way:**



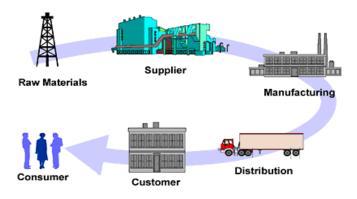
- Only thing matters is price per unit
- Don't look at the bigger picture



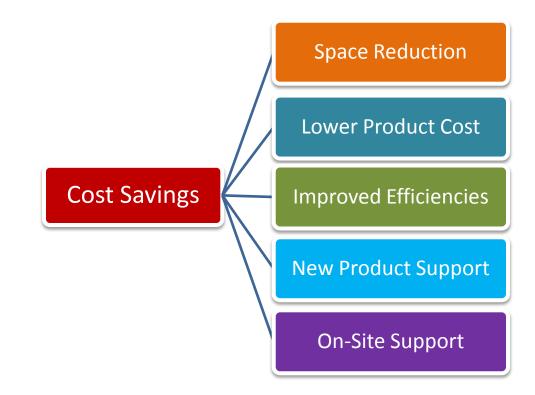


### VAP Way:

- Total Cost Savings
- Look at the full supply chain (bigger picture)







## **Typical Industry Way:**

• Push vendors every time for cost savings

 Deal with many vendors; that is the best way to bring cost down













- Work with your suppliers
- "End the practice of awarding business on the basis of a price tag. Instead, minimize total cost. Move toward a single supplier for any one item, on a long-term relationship of loyalty and trust." - W. Edwards Deming





### Result of working with our Supplier

- We represent only 2.5 % of total business of our supplier.
- Working together as a team
- Support suppliers to achieve their vision
  - Professional, Helping community
- We order 90% of our corrugated board from them.
- We receive the same level of care and preference as the rest of their major customers get.







## **Typical Industry Way:**



- Offer Just In Time (JIT) (With a warehouse full of several months worth inventory)
- We support Lean Manufacturing (but don't practice)

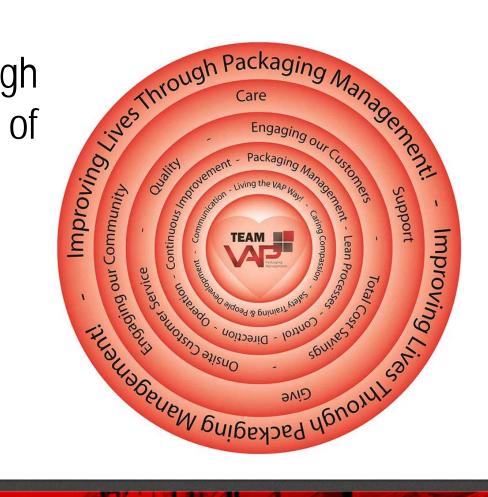








 To eliminate waste through lean process in all areas of our company and our customers.





### On Time Delivery and Inventory Turn

- On Time Delivery ratio = 98.4 %
- Average Inventory Turn = 1.04 (our goal = 2.0)
- Average Inventory Days = 30 (our goal = 15)
- Industry Average Inventory Turn = 0.33
- Industry Average Inventory Days = 90



### Lead Time and Order Oty:



- Average Lead Time Manufacturing VAP = 2 days
- Average Lead Time Manufacturing Industry= 2 weeks

### Box-King:

- Lowest Order Qty: 1
- Average Order Qty:250
- Highest Order Qty: 1000



	A	В	С	D	E
1	Material 💌	Description 📃 💌	Available 💌	Stock 💌	Order rese 💌
11	85013	CARTON,RSC-SS-30.25(L) x 8.75(VV)x30.38"H	60	82	22
12	85017	CARTON RSC 24(L) x 8.75(W) x 24.38(H)	34	59	25
13	85092	FOLDER, OPF- 39.125(L)x 32.94(W) x0.69"	20	28	8
14	85098	CARTON RSC 10.88(L) x 8.38(w) x 9(H)	27	27	0
15	85099	PAD, FLAT, CORR, 9 X 35"	90	228	138
16	85100	PAD, FLAT, CORR 7 X 25"	145	335	190
17		PAD, FLAT,CORR -7 X 22"	365	465	100
18	85102	PAD, FLAT,CORR 15 X 52"	39	139	100
19	85104	PAD, CORR_FLAT, 13 X 48"	74	218	144
20	85105	PAD, FLAT, CORR - 11 X 45"	17	262	245
21	86260	CARTON RSC 23.63(L) x 14.5(W) x 24.38(H)	-13	39	52
22		CARTON AND DIVIDER SET- (SMA)	4	12	16
23	89584	CARTON AND DIVIDER SET- (SMA FAN COVER)	0	0	0
24	89588	CARTON AND DIVIDER SET- (SMA )	- 4	1	5
25	89593	FOLDER AND PAD SET- SMA KIT	10	80	70
26	89668	CARTON-RSC_23.625 x8.75 x 35.56IN	17	52	35
27	89672	CARTON RSC 12.13(L) x 6.5(W) x 12(H)	2	164	162
28		CARTON RSC 12.25(L) x 6.75(W) x 15.88(H)	5	157	152
29	89674	CARTON RSC 16.13(L) x 6.75(W) x 15.88(H)	56	76	20
30	89675	CARTON RSC 16.13(L) x 9.06(W) x 15.88(H)	0	104	104
31	89676	CARTON RSC 16.13(L) x 9.06(W) x 19.88(H)	-1	175	176
32		CARTON RSC 20(L) x 9.06(W) x 19.88(H)	22	202	180
33		CARTON RSC 24(L) x 9.063(W) x 23.75(H)	108	133	25
34	89679	CARTON RSC 16.13(L)x 6.69(W) x 19.88(H)	35	67	32
35		CARTON RSC 20(L) x 6.69(W) x 19.88(H)	119	144	25
36	89691	CARTON RSC 24(L) x 12.63(W) x 30.13(H)	-20	31	51
37	89692	CARTON RSC 24(L) x 12.63(W) x 23.81(H)	18	21	3
38	89693	CARTON RSC 20(L) x 9.06(W) x 23.88(H)	166	214	48
39	89695	CARTON RSC 24(L) x 9.063(W) x 30.5(H)	6	26	20
40	89702	CARTON RSC 24(L) x 10.63(W) x 24(H)	56	76	20
41	89709	CARTON RSC 20(L) x 12.5(W) x 24(H)	-18	36	54
42		CARTON RSC 16.13(L) x 9.06(W) x 24(H)	-40	181	221
43		CARTON RSC 20.5(L) x 10.63(W) x 24.13(H)	-15	5	20
44	204718	CARTON,RSC 30.25(L)x12.25(W)x 30.38"(H)	20	50	30



#### VAP Lean

Forecasting



## VAP Culture:



- Collaborative Engaged Team Culture
  - Change without fear
  - Accountability
  - Continuously empowering all VAP Team Members
  - Commitment to education & training
- Embrace Lean!
  - DMAIC
  - PDSA
  - Huddle Board Meetings



### VAP Culture:



- Continuous Improvement of Processes
  - Investment in new technology
  - Setup times improved from 30 min to less than 5 min
  - 5S + Safety



### **VAP Solutions:**





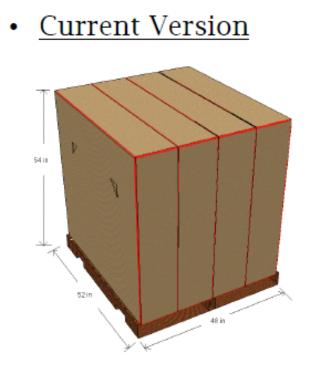
Safety

Ergonomics



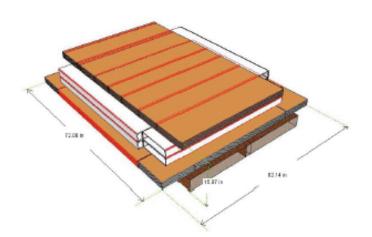
### VAP Solutions:





Space= 78.47 cubic ft

• <u>Knock Down Flat</u> (KDF) Version



#### Space= 40.73 cubic ft



### VAP Solutions:



#### Space Savings

- If you store 10 kits on an average; that would save 377.4 cubic ft space at any given day which is approximately 50% reduction in space.
- Lower Direct Cost of Packaging
- Shipping Cost Savings
- Safe Stacking, Easy and Quick to assemble
  - Within the 1 Min 11 sec Takt Time
- **Onsite Continuous Improvement**
- Total Cost Savings



### Case Study:

- Customer located in Urbana
- Specialized in electrical enclosures, power distribution and software for planning and monitoring solutions
- 512,00 square foot facility
- We provide 70% of their total packaging







# Support Level:



- Daily
  - On Site Customer Support
  - Logistics
- Project Based
  - New Designs
  - Cost Savings projects



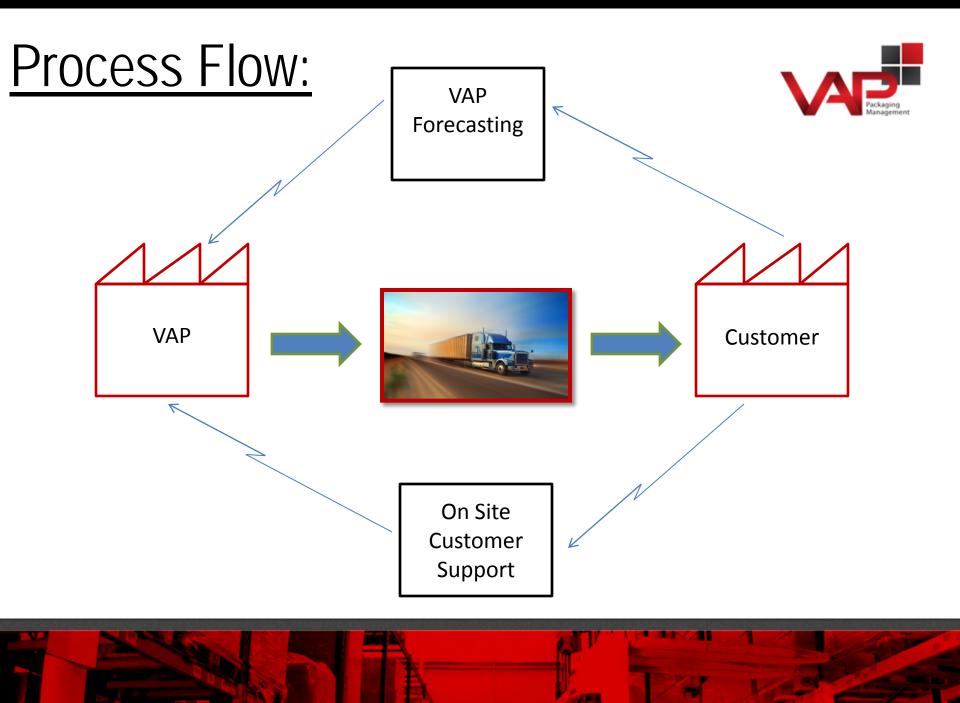


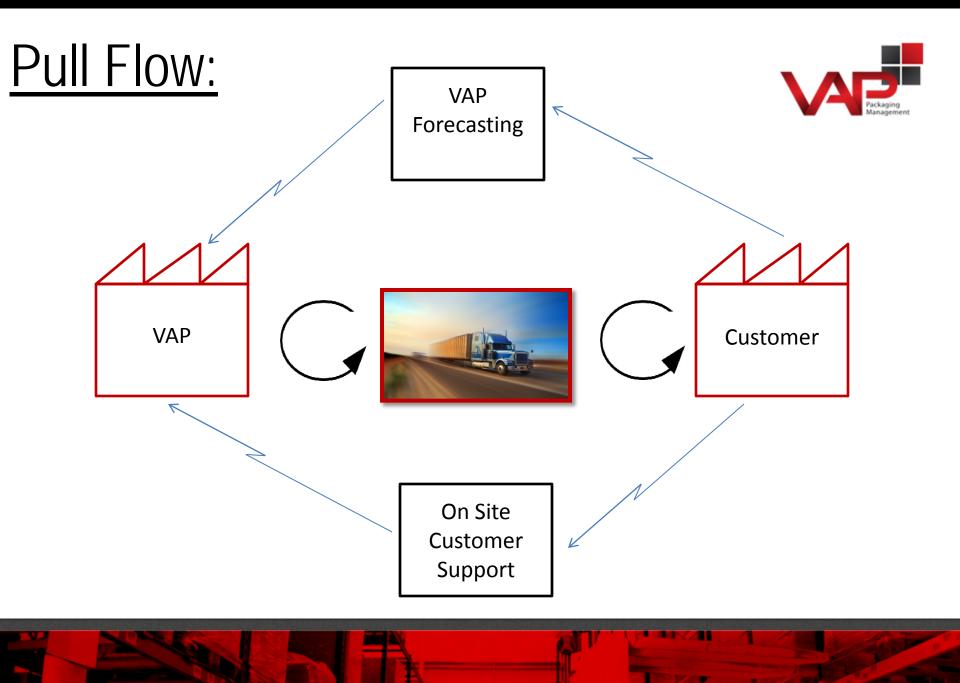
### On-site Customer Service Role











### Facts:



- After the order is placed in the system by on-site customer support order reaches to customer within 3 hours
- Supply only for that day's production
- Driver: Loads all shipping carts on line and brings empty carts back, personally loads boxes to one production line directly
- Provide non stocked items mostly within 24 hours
- On-Time Delivery ratio = 98.33



## Projects:

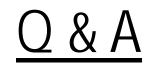
- Annual cost savings of \$180,000 on a project
  - New solution to the biggest user
- Re-designed Wall-mount area
  - Space reduction by 20%
  - Time to find the items reduced by 50%







		TING	CUSTA	SSESSME		<u>VI</u>					
CUSTOMER:				DATE:					Packaging Management		
NNUAL INVENTORY	COSTS:			ENT STATE				G MANAGEMEN	π	TOTAL SAVINGS	
	******	<u>#/people</u>	<u>Hrs/Sqft/%</u>	<u>Rate/\$</u>	<u>Result</u>	#/people	<u>Hrs/Sqft/%</u>	<u>Rate/\$</u>	Result	į	
	*Avg \$/Sqft (Includes Triple Net)	х		х =	\$0.00	x	x		= \$0.00	\$0.00	
	Total \$ -or- % of Avg Inventory Value	x		x =	\$0.00	x	x		= \$0.00	\$0.00	
Damage:	Total \$ -or- % of Avg Inventory Value	х		x =	\$0.00	x	x		= \$0.00	\$0.00	AL
Logistics:	**Avg \$/ManHr	x		x =	\$0.00	×	x		= \$0.00	\$0.00	
Quality:	**Avg\$/ManHr	х		x	\$0.00	X	x		\$0.00	\$0.00	Ď
Engineering:	**Avg \$/ManHr	X		x	\$0.00	×	x		\$0.00	\$0.00	<
Administrative:		X		x =	\$0.00	×	×		= \$0.00		5
	Total \$ -or- % of Avg Inventory Value	×		x =	\$0.00	x	×		= \$0.00	\$0.00	SAVINGS
					\$0.00				\$0.00		
						···-··			+	!	BY
VENTORY CARRYIN	IG COSTS:		CURRENT STAT	E							
							ANNUAL INV	ENTORY CARRYI	ING COST SAVINGS:	#DIV/0!	
VENTORY COSTS:	\$0.00 /	' Month	Pe	ercent Inventory Cost:	#DI∨/0!						
VG INVENTORY ALUE:		/ Month Opportunity Cost of Capital: 9%				TOTAL SAVINGS LITUZING VAD. HOW DO					
-1.02.	/	NOTOT	Uppor	tunity Cost of Capital:	9%		TOTAL SAVINGS UTILIZING VAP: #DIV/0!			<u>م</u>	
INV. CARRYING				Insurance:	4%						<del>م</del> – –
RATE:	#DI∨/0!			Taxes:	6%						BUSINESS
X									lease properties availabl		
AVG INVENTORY	40.00	A damatic			100 1/21				l Oct. 31, 2012. Data colle cturers Asociation. All inf		ŭ
VALUE:	\$0.00 /	' Month	INVEN	TORY CARRYING RATE:	#DIV/0!		Average wage for em			only 25% is below the pay	
INVENTORY					i		rate listed)				
CARRYING COST:	#DIV/0! /	Year									WIHVAP
			++			Carrying co	sts are typically	between 24% t	to 48% per vear ai	nd they include:	
	VAP PACKAGING MANAGEMENT				Carrying costs are typically between 24% to 48% per year and they include: 1) The cost of money (your corporate cost of capital).					5	
					2) The cost of the space tied up to hold the inventory.					7	
NVENTORY COSTS:	\$0.00 /	' Month	Pe	ercent Inventory Cost:	#DIV/0!	3) The administrative costs to manage the inventory: Cycle counting, inventory					
VG INVENTORY						transactions, etc.					
ALUE:	/	' Month	Oppor	tunity Cost of Capital:				nd deterioration	(the design change	d, the customer	
				Insurance:		reneged, et	,				
INV. CARRYING	#DI∨/0!			<b>T</b>					ie more scrap, sortir	ig, and rework	
RATE:	#DIV/01		Taxes:				required, and inventory delays discovery. 6) The correlation between inventory and response time: the more items the longer it				
X AVG INVENTORY						takes to move an item through.					
VALUE:	¢0.00.4	00 / Month INVENTORY CARRYING RATE: #DIV/0!				7) Insurance and Taxes.				1 2	
VALUE.		Mondt	INVEN	TONT GANYING RATE:	#010701			nventory means	more material mov	ement.	
INVENTORY					i		<ol> <li>More material movement means more handling damage.</li> </ol>				
	· · · · · · · · · · · · · · · · · · ·					10) Inventory delays innovation: We must wait until the old parts are used before					
CARRYING COST:	#DIV/0! /	Year				10) mixenco	y acrays minovacio	in the mase han			







### Contact a VAP Team Member Today (937) 832-9595





