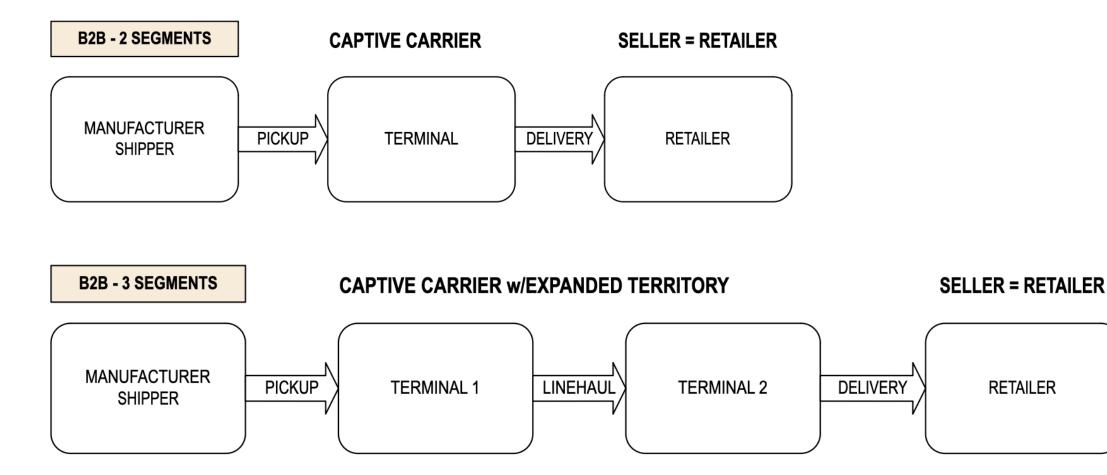
### FURNITURE SUPPLY CHAIN OBSTACLES in SHIPMENT EXECUTION & VISIBILITY

PRESENTED BY:

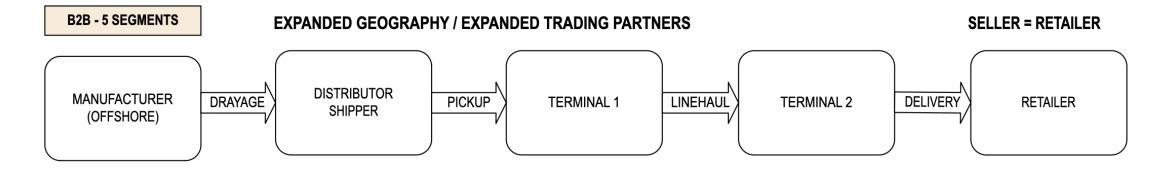


### MIKE FILIP VICE-PRESIDENT of PRODUCT DEVELOPMENT

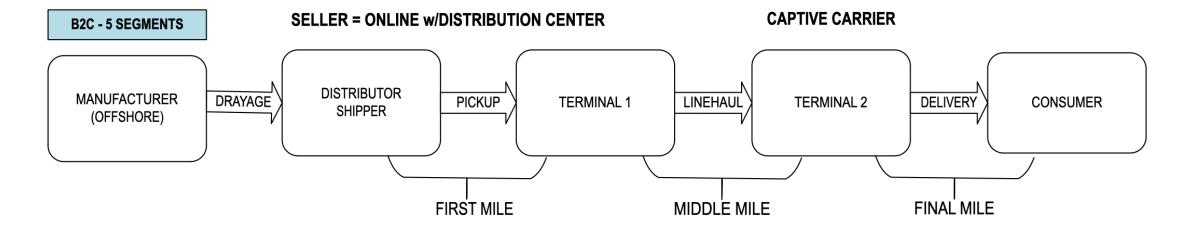
### SUPPLY CHAIN EVOLUTION: DOMESTIC SOURCING w/RETAILER FINAL MILE



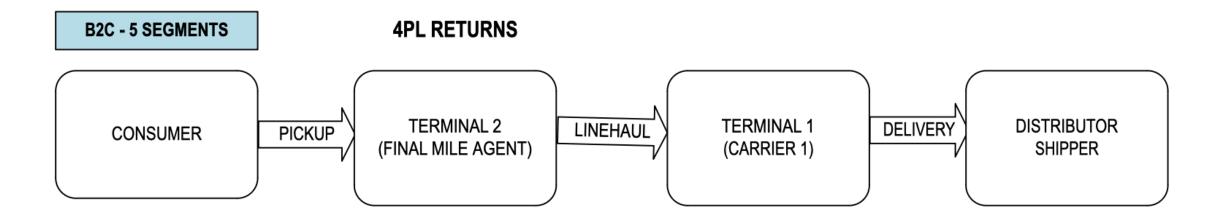
### SUPPLY CHAIN EVOLUTION: ADD OFF-SHORE SOURCING



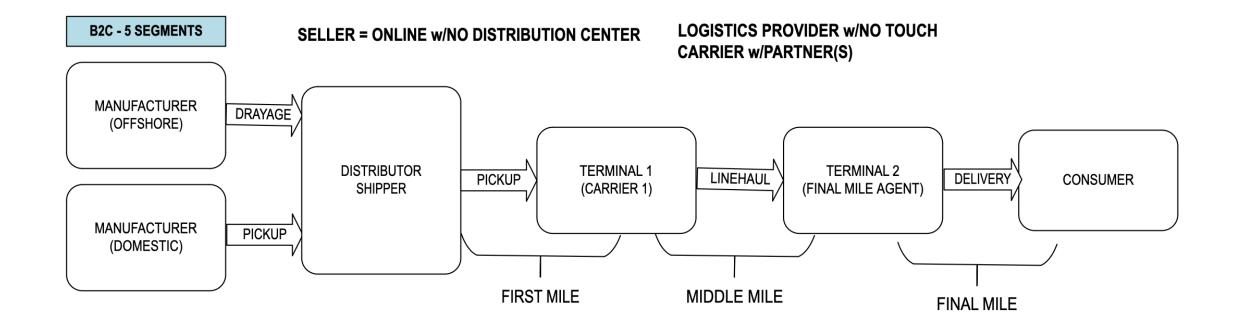
### SUPPLY CHAIN EVOLUTION: DIRECT FINAL MILE DELIVERIES



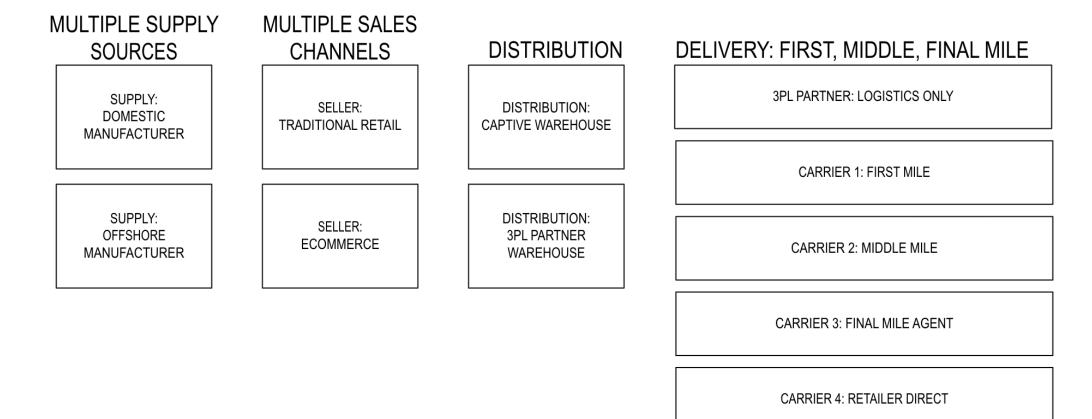
### SUPPLY CHAIN EVOLUTION: ADD 4PL RETURNS



### SUPPLY CHAIN EVOLUTION: MORE SEGMENTS & TRACKING POINTS



### SUPPLY CHAIN EVOLUTION: MORE TRADING PARTNERS



## HOW DO WE ADAPT? ROBUST SYSTEMS INTEGRATION:

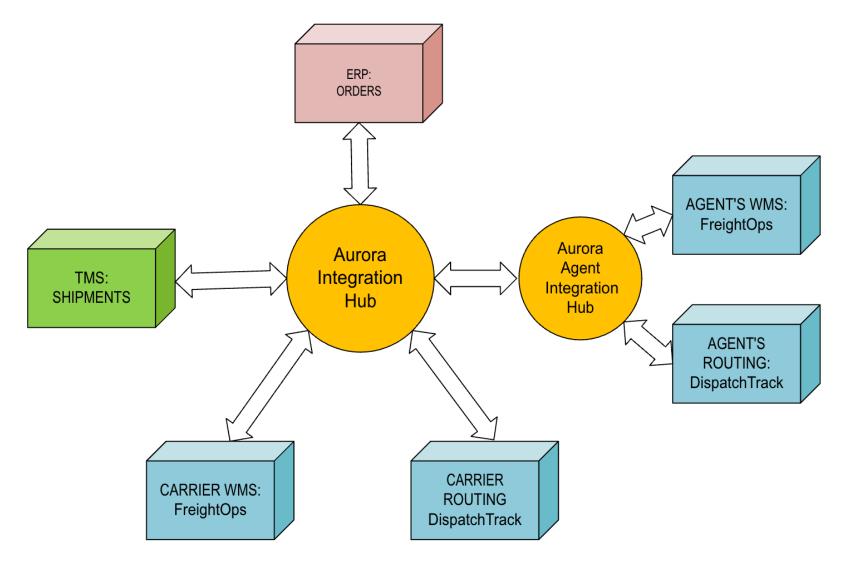
MULTI-POINT – 1 TRANSACTION TRIGGERS UPDATES TO MULTIPLE PARTNERS

**REAL TIME & BI-DIRECTIONAL** 

NON-PROPRIETARY - NO MORE "USE OUR SYSTEM"

- AGENTS SPEND HOURS UPDATING SHIPPER'S WEBSITES
- AGENTS CAN'T EFFECTIVELY USE MULTIPLE SHIPPER'S MOBILE APPS TRAINING & COMPLIANCE ISSUES DOESN'T HELP AN AGENT MANAGE THEIR WAREHOUSE/DOCK

### SOLUTION: AN INTEGRATION PLATFORM

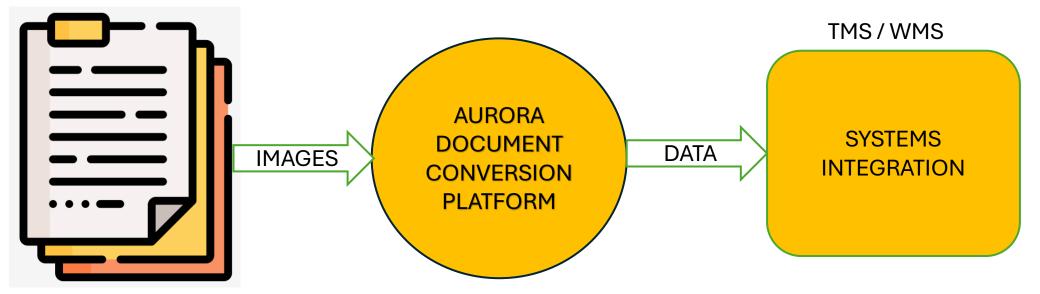


## HOW DO WE ADAPT? AI DOCUMENT CONVERSION TOOLS

Furniture carriers that use data integration estimate 40 to 50% of their freight bills are still created manually!

AUTOMATE: CONVERT DOCUMENT IMAGES TO USABLE DATA

**DOCUMENT IMAGES** 



### HOW DO WE ADAPT?

### SUPPORT FOR MULTIPLE TRADING PARTNER ENTITIES

- SHIPPER SHIPPER CONSIGNEE CARRIER (BY SEGMENT)
- FIRST MILE
- MIDDLE MILE
- FINAL MILE
- 3PL LOGISTICS PARTNER:
- DISTRIBUTION PARTNER
- TRANSPORTATION PARTNER
- PORT PARTNER
- DRAYAGE PARTNER

### HOW DO WE ADAPT? IMPROVE DATA INTEGRITY!

### DATA PROBLEMS CAUSE ISSUES AT ALL POINTS IN THE SUPPLY CHAIN

LET'S GO THROUGH SOME EXAMPLES

### "BILL OF LADING IS A PACKING LIST SYNDROME" EXAMPLE 1: VERSAILLES KING SIZE BED



#### THE BILL of LADING SAYS:

QTY:	SKU:	DESCRIPTION:		UNIT	UNIT
				WT:	CUBES:
1	100-C-K	VERSAILLES CANOPY BED – KING, L	EATHER (BRN)	72	372
1	6451M-K	MEMORY FOAM MATTRESS - 12" PRO	OFILE	87	42
1	6451B-K	SPLIT BOXSPRING – KING – 8" PROF	LE	45	28
3	SHIPPING	UNITS	TOTAL VOLUME:	204	442

#### WHAT THE BILL of LADING SHOULD SAY:

- PROBLEM 1: INVENTORY UNITS = SHIPPING UNITS
- PROBLEM 2: CUBES CALCULATED ON ASSEMBLED PRODUCT

QTY:	SKU:	DESCRI	PTION:	UNIT WT:	UNIT CUBES:
1	100-C-K	VERSAI	LLES CANOPY ASSEMBLY - KING	9.5	.85
1	100-HB-K		LLES UPHOLSTERED HEADBOARD - KING, R (BRN)	32	8.25
1	100-FB-K		LLES UPHOLSTERED FOOTBOARD - KING, R (BRN)	19	5.0
1	960-RK	RAILS v	//BASE & CENTER POST - KING	19	2.25
1	960-BSK	SLATS f	or 960-RK BASE - KING	20	5.0
1	6451M-K	MEMOR	RY FOAM MATTRESS – 12" PROFILE	87	42
1	6451B-K	SPLIT B	OXSPRING – KING – 8" PROFILE	45	28
7	SHIPPING	UNITS	TOTAL VOLUME:	231.50	91.35
			DIFFERENCE:	+27.5	-350.65

#### **EXAMPLE #2 – FARMER'S SIDEBOARD & HUTCH**



#### THE BILL of LADING SAYS:

QTY:	SKU:	DESCRI	PTION:	UNIT WT:	UNIT CUBES:
1	98716	FARME	R'S SIDEBOARD & HUTCH – WHITE	249	50
1	98716T		R'S TRESTLE TABLE 95 X 36 X 30 – WALNUT	190	59.38
6	96716CB	FARME	R'S DINING CHAIR – WHITE/WALNUT	14.5	8.7
8	SHIPPING	UNITS	TOTAL VOLUME:	453.50	118.08

WHAT THE BILL of LADING SHOULD SAY:

- >>> PROBLEM: INVENTORY UNITS 🚔 SHIPPING UNITS
- PROBLEM 2: CUBES CALCULATED ON ASSEMBLED PRODUCT

QTY:	SKU:	DESCRIP	TION:	UNIT WT:	UNIT CUBES:
1	98716T-S	FARME	R'S SIDEBOARD – WHITE	160	25
1	98716T-H	FARME	R'S HUTCH - WHITE	89	18.75
1	98716-T	FARME	R'S TABLETOP - WHITE	138	8.7
1	98716-P	FARME	R'S TABLE PEDESTAL - WHITE	62	18
1	98716-L	FARME	R'S TABLE – EXTRA LEAF - WALNUT	19	1.6
3	96716CB	FARME	R'S DINING CHAIR – WHITE/WALNUT	26	8.7
8	SHIPPING	UNITS	TOTAL VOLUME:	468	72.05
				+14.5	-46.03

- SIDEBOARD & HUTCH = 2 SHIPPING UNITS
- TABLE = 2 SHIPPING UNITS.
- CHAIRS = 3 SHIPPING UNITS

### EXAMPLE #4 – SOFA W/3 ADDITIONAL PILLOWS



#### THE BILL of LADING SAYS:

QTY:	SKU:	DESCRI	PTION:		UNIT WT:	UNIT CUBES:
1	5321ST	SEINFE	LD SOFA - TAN		108	55
1	100PB	PILLOW	/ - BLUE		1.5	.84
1	100PS	PILLOW	/ - SUNBURST		1	.375
1	100PP	PILLOW	/ - PRISM		1	.375
4	SHIPPING	UNITS		TOTAL VOLUME:	111.5	56.59

WHAT THE BILL of LADING SHOULD SAY:

### PROBLEM: INVENTORY UNITS = SHIPPING UNIT

QTY:	SKU:	DESCRIP	TION:		UNIT WT:	UNIT CUBES:
1	5321ST	SEINFE	LD SOFA - TAN		111.5	55
	NOTE	3 PILLO	WS ENCLOSED			
1	SHIPPING	UNITS		TOTAL VOLUME:	111.5	55
-3				DIFFERENCE	0	-1.59

### **ISSUE: TRADING PARTNERS WANT SKU LEVEL DETAIL FOR ALL ITEMS ON A FREIGHT BILL**

- ISSUE: SKU # & DESCRIPTION IS MORE VALUABLE THAN JUST A GENERIC DESCRIPTION (like "freight" or "furniture").
- WHAT IS SKU LEVEL DATA?
  - SKU # (item #) & Description
    - Increasingly, the manufacturer values are different from the retailer's values.
  - Accurate shipping unit data shipping unit quantity, *packaged* weight & cubes, packaging type (carton, shrink wrap, etc.), and selling price (if it affects rating).
  - Weight & Cubes should be per unit and then totaled at the line item level and the line items totaled at the freight bill level.
  - $\circ~$  This creates a LOT more data entry for manually created freight bills.
  - General commodity carriers, if supported, make it the shipper's responsibility to input this data.

## PROPOSED SOLUTION - An industry standard database where data is validated by the trading partner members.

- $\circ$   $\,$  Validate the data once, use it many times.
- $\circ~$  API's to connect inventory systems and bill of lading systems

### **ISSUE: TRACKING/MANAGING UNITS:**

- Each shipping unit should be assigned a unique tracking # at the point of origin.
- Data interchange should make tracking unit #'s available throughout the supply chain (the 'FedEx model').

#### **ISSUE: PACKAGING TYPE SHOULD BE NOTED:**



#### BLANKET WRAPPED, SHRINK WRAPPED, CARTON, PALLET...

QTY:	PACK TYPE	SKU:	DESCRI	PTION:	UNIT WT:	UNIT CUBES:
1	CTN	100-C-K	VERSAI (BRN)	LLES CANOPY BED – KING, LEATHER	72	25
1	SHRINK	6451M-K	MEMOR	RY FOAM MATTRESS – 12" PROFILE	87	18.75
1	SHRINK	6451B-K	SPLIT B	OXSPRING – KING – 8" PROFILE	45	8.7
1	PLT	10001A	SAID TO	D CONTAIN 72 UNITS KD FURNITURE		
1	BLKT	98716T-S	FARME	R'S SIDEBOARD – WHITE	160	25
1	BLKT	98716T-H	FARME	R'S HUTCH - WHITE	89	18.75
6		SHIPPING	UNITS	TOTAL VOLUME:		

### **SHIPPING LABEL ISSUES**

### LABEL ISSUE 1: SHIPPING LABEL DATA DOESN'T MATCH BILL OF LADING DATA

- This is a Shipper's problem.
- Often the 2 documents are produced by 2 different systems.

### **PROPOSED SOLUTION – Improve data integrity by:**

- All systems must be properly integrated/synchronized.
- Use electronic address verification and data normalization tools.

### LABEL ISSUE 2: CARRIER HAS TO RE-LABEL CARTONS FOR TRACKING PURPOSES (SCANNING):

### **PROPOSED SOLUTION:**

- The shipper should assign a unique tracking for each shipping unit.
- Use a unique prefix to identify the shipper Suggestion: Use the UCC identifier registered to your company. If you have a UPC code, it is the 1<sup>st</sup> set of digits). The Uniform Code Council code can assign you one.
- NOTE: The tracking numbers MUST be transmitted to your trading partners with your BOL data.
- Use a 3<sup>rd</sup> Party Service to print your labels on-line.

### SHIPPER'S: MODIFY YOUR SHIPPING LABEL – ADD THE TRACKING # AS A BAR CODE.



### **OPTION: ADD A 2 DIMENSIONAL BARCODE FOR DATA INTERCHANGE:**

ENCODE ALL THE DATA ON THE BOL WITH .XML TAGS.



### LABEL ISSUE 3: PROBLEMS AT THE DOCK

#### THE DOCK HAS TO CONTEND WITH ALL DIFFERENT TYPES OF LABELS!



#### LABEL ISSUE 3: MORE PROBLEMS AT THE DOCK

#### MANY LABELS ON 1 UNIT?



#### TOO MANY BARCODES ON ONE LABEL.



CREATES SCANNING INTEGRITY ISSUES.

#### LABEL ISSUE 4: SHIPPING LABELS NEED THE SHIP TO ADDRESS!

WHERE IS THE ADDRESS?

ACK: 1981	532	PO:	6370481	
SHIPPER	ELEM		TERNATIONA	
ITEM		WN100	QR RLS	
***************************************				
******				
*****		1087		Bay

### **PRODUCT HANDLING ISSUES**

**ISSUE: NON-UNIFORM PALLETS ARE A PROBLEM AT THE DOCK.** 





# Thank You!

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