

#### ISM—Twin Cities, Inc.





Institute for Supply Management – Twin Cities Market Update for Corrugated Packaging May 17, 2023



- •About Myself and TPDgroup
- •Corrugated Market Update (Recent History to Now)
- •How Build Sustainable Savings for Today and the Future
- •Questions and Answers

### About Me



### Leadership Roles in Product Development, Purchasing, Supply Chain and Manufacturing





- Service Organization Founded in 2008 Specializing in Corrugated Packaging
- Based out of Minnesota with Coverage for All US Domestic Markets and Canada
- Helped Hundreds of Companies with Typical Savings Exceeding 15% on the Corrugated Category
- Focused on End to End Solution Beyond Purchase Price (Total Cost)











- Not a Box Manufacturer or a Supplier Sales Organization (We are Focused on the Right Customer Supply Solution)
- We Do Not Do Bids *(We do Use a Strategic Approach):* 
  - I. Customer Confidential Benchmark (Output of our Should Cost Model)
  - II. Executive Summary Report of the Opportunity



- III. Strategic Negotiation with Agreed Upon Supply Solution
- IV. Bring the Savings to Life, Support Continuous Improvement



We Not Paid by the Customer in Most Circumstances

## Want to Learn More? (Connect with Us)





### Corrugated Market Update





## Recent Market History - Context



### 2016-Mid 2020 (Stable and Steady):

- One of the most stable periods in corrugated history with minimal price movements
- Balanced behaviors in the market with supplier/customer relationships being valued
- Box buying companies somewhat adverse to change or improvements beyond bid/pricing check behaviors
- Generally stable supply
- Stable customer behaviors relatively speaking



## The Pandemic Market



### Mid 2020 to Q4 2022 (When it Rains it Pours):

- Back half of 2020 was the highest 6 month period in corrugated demand history
- Paper shortage resulted in more demand than supply
- Additional paper mills brought online to meet this record demand
- Paper stabilized with new capacity, but then labor shortages kept supply de-stabilized
- Supplier "Peel off the Bottom "tactics *(favoring strategic and/or higher margin customers)*
- Extended lead times, delivery inconsistency, and unprecedented price increases
- Corrugated pricing elevated from 25%-40% higher outside of strategic agreements





# How the Pandemic Impacted the Market



### What Drove Such Dramatic Increases?: Use Corrugated of Materials

- COVID19 dramatically decreased traditional brick and mortar demand in favor of Ecommerce (March 2020-June 2020 Lockdown Peak)
- Adoption rate of E-commerce experienced an accelerated adoption rate from all customer demographics
- E-Commerce utilizes up to 6x more corrugated materials than brick and mortar



## How the Pandemic Effected the Market

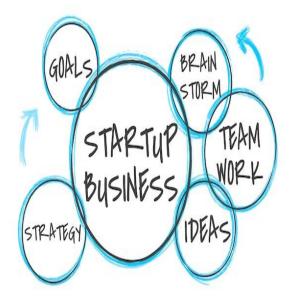


#### What Drove Such Dramatic Increases?: Labor Shortages

- The Baby Boomers generation continued to retire and exit the workforce which is not being replaced by the same quantity of workers
- Lockdowns, working from home, and stimulus incentives changed the labor market participation and conclusions of how are still debated
- There was not enough people to convert boxes, make paper, and even transport it to keep up with demand leading to unprecedented increases in pricing



36% increase in Age 65+ 2010-2020 13% of Population to 16.5% 2010-2020



US New Business Applications 2.58 million in 2011 to 5.39 million in 2021



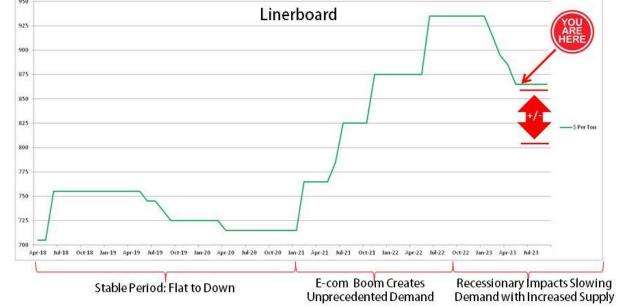
Automation Lead Times Increased to 9 months to 1 year+ 11

## The Corrugated Market Today



### Q1 2023 to Today (Excess Supply Market Conditions):

- Leading indicators are showing we are in a recession period with lower demand
- We are seeing suppliers hedging pessimistically *(leading indicators of decreases)*
- Hidden undercurrent is the labor shortage that is masked by current low demand
- We currently are in an <u>OPTIMAL WINDOW</u> to create substantial savings and strategic agreements
- **Our Projected Outlook:** 5% to 10% additional decreases are realistic for the balance of 2023



# How to Optimize During this Period?



### Trends that are Delivering Results:

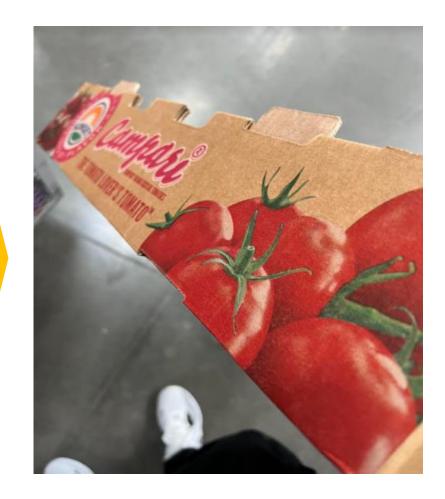
- Treat Suppliers Strategically Avoid bids, partner to find win/win solutions, and understand the what and why
- Research continuous improvements opportunities that are often overlooked
  - Freight Analysis
  - Order Quantity/Frequency/Inventory Strategy
  - Box Materials and Technologies with Printing
  - Collaboration with Supplier About Their Passion and Pain Points to Unlock Solutions
- Remember generally the supply community was in the same boat as customers during the volatile market
- Avoid forcing change from the top down, but gain feedback from stakeholders and help them understand a vision they can relate to and support
- Practice the Golden Rule and be consistent If you help make supplier costs predictable they will help you as well





#### Design – White to Kraft Liner:







### Inventory and Operations Management - (Build/Hold/Ship/Hold):

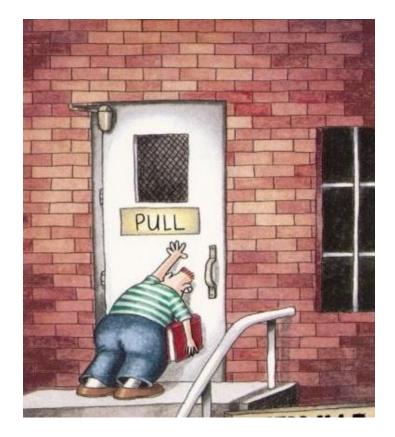








<u>Process Mapping – Kaizen Events to Help All Links of the Supply Chain</u> <u>Learn to See and Have a Voice</u>





Focus on the Process, Not People



#### <u>Trays – Coupled with Labels Utilizing Less Corrugated Materials</u>





#### <u>Re-Using Boxes – Reducing Purchase Need</u>











### Why Customers Utilize Our Service

• Results (We have a Track Record of Success)

- Our Expertise, Unique Knowledge, & Leverage
- No Cost for Results\*
- Time (We do the Heavy Lifting)
- Strategic Agreements (Moderating Increases and Credit for Decreases)

\*Packaging Corporation of America is the only company that requires the customer to pay us, and in rare occasions the customer requests to be the source of payment













# Why Suppliers Work With Us

Our Strategic Match Methodology

 Our Process Lowers Cost of Acquisition/to Serve

Innovation Towards Improvements and ulletProblem Solving (Holistic Thinking)

Balanced Supply Agreements (*Provides*) Cost Predictability for both Supplier and Customer)



COST OU









 Detroit, Michigan: 26% Savings (> than \$1 Million Annually)

• Buena Park, California: 14% Savings (>than \$500K Annually with 18% Inventory Reduction)

 Miamisburg, Ohio: 16% Savings (>than \$200K Annually)







