#### Georgia GRCC Carton Recycling Update

The Carton Council's Carton Recycling Access Campaign August 21, 2011



#### Who is The Carton Council?

The Carton Council is a group of carton manufacturers united to deliver long term collaborative solutions to divert valuable cartons from the landfill.













**Associate Member** 



# What Does the Carton Council Want?

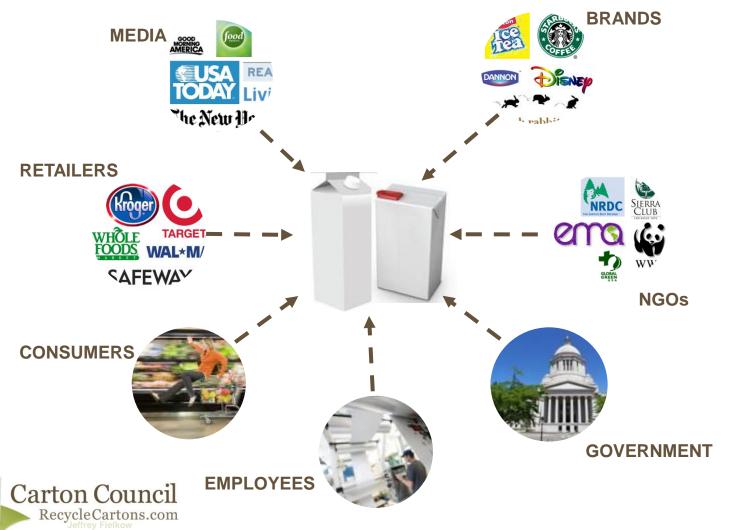


# What are Drivers for Carton Council Goals?





# What are Drivers for Carton Council Goals?



#### What are "Cartons"?



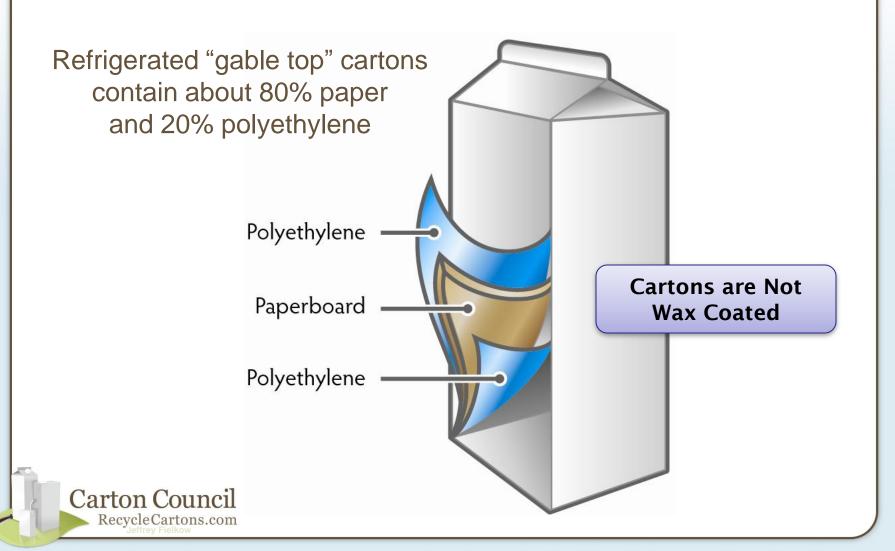
#### **Uses for Cartons**

- Refrigerated (Gable Top): used for milk, juice, creamer ...
- Shelf stable (Aseptic): used for soups, milk, juice, wine, water...





#### **What are Cartons Made From?**



### What are Cartons Made From?

Shelf-stable "aseptic" cartons contain on average 74% paper, 22% polyethylene and 4% aluminum

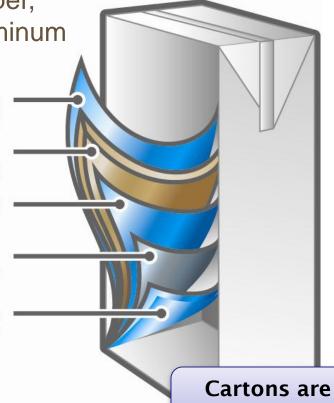
Outer Polyethylene Coating (Liquid Barrier)

Paperboard (Stability)

Middle Polyethylene Coating

Aluminium (Light, Odor & Oxygen Protection)

Inner Polyethylene Coatings (Liquid Barrier)



Cartons are Not Wax Coated



#### **Sustainable Cartons**

# Cartons are one of the most sustainable food and beverage packages

**RENEW** 



- Made mainly from paper
- Paper is a 100% renewable resource
- Fiber comes from well-managed forests

**REDUCE** 



- Light weight and compact
- Low package-product ratio
- Low carbon footprint through lifecycle

**RECYCLE** 



- Cartons are recyclable
- In fact...



# Recycling and Cartons – A Misunderstood Commodity In US

- High Value Material
  - 100% virgin fibers no ink
  - Some of the best fiber still in the waste stream
  - High yield for mill operations
- Carton Recycling Standard Practice Globally
  - Over 140 mills taking cartons worldwide, 9 in N.A.
  - We are playing catch-up here in the US
- Cartons Recycled in US for More than 2 Decades
  - Proven in large markets like New York
  - Expect Cartons to be .5% and higher of incoming material



# **Carton Recycling Supply Chain**

Seeking Partnerships across supply chain

Cities

Sorters

Brokers

Mills



Collection Volume





Sorters

Pull Factors High Value End Markets





Jeffrey Fielkow

### Carton Recycling Access Campaign

- 1. Build sustainable markets
  - Build the Demand
- 2. Build sustainable infrastructure
  - Build the Supply "Pipeline"
- 3. Develop consumer awareness and participation
  - Fill the Supply "Pipeline"



### Achieving the "Right Formula"

- Pro-active industry partnership for voluntary producer responsibility
- Pushing carton friendly financial and technical resources into supply chain
- Supporting sorting facility capital upgrades
- Providing marketplace assistance for guaranteed movement of cartons
- Building community and hauler support for carton recycling access



Mills/Pulping Process

Sorters & Brokers



Communities Haulers



Paper Products
Tissues
Plates
Paper



Developing Markets for Poly/Au Component

Mills/Pulping Process

Sorters & Brokers



Communities Haulers



Paper Products
Tissues
Plates
Paper



Markets for

Component

Poly/Au

Strategy Step #1: Start with End Markets

**Strategy Step #2: Targets MRFs and Sorting** 

Mills/Pulping Process

Sorters & Brokers



Communities Haulers



Paper Products
Tissues
Plates
Paper



Developing Markets for Poly/Au Component

Strategy Step #1: Start with End Markets

**Strategy Step #2: Targets MRFs and Sorting** 

Mills/Pulping Process

Sorters & Brokers



Communities

Haulers

Strategy
Step #3: Targets
Household Access

Carton Council
Recycle Cartons.com



Paper Products
Tissues
Plates
Paper



Developing Markets for Poly/Au Component

Strategy Step #1: Start with End Markets

### Step 1: Build Sustainable Markets

Cities

MRFs

Brokers

Mills

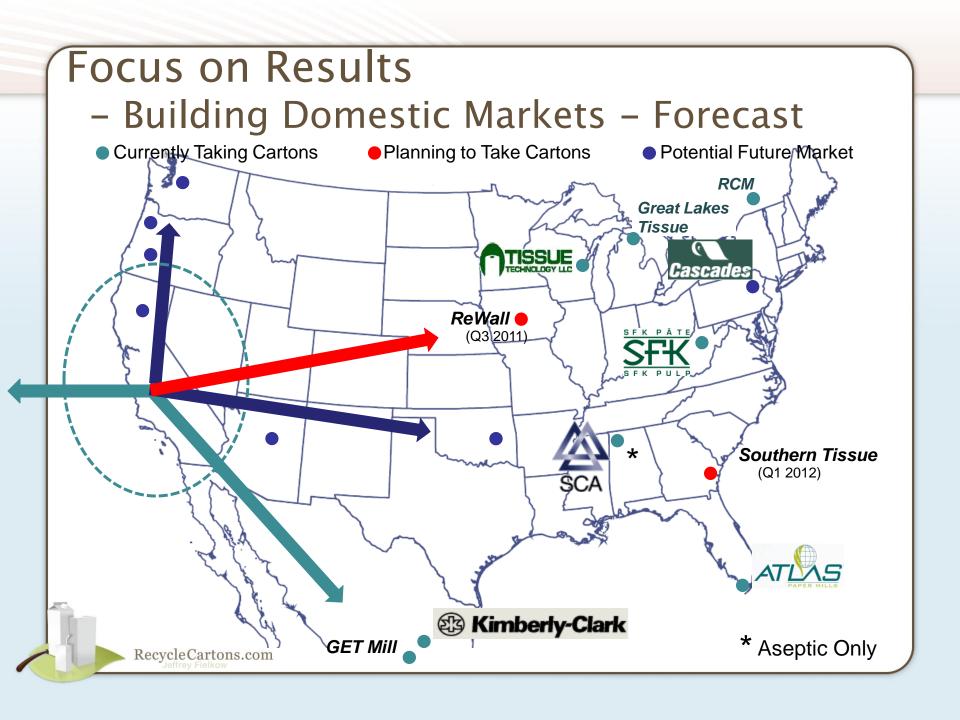
Step 1

- Identify Suitable N.A. mill partners
- Negotiate agreements with mills to buy cartons at prices that drive collection and sorting
- Develop broker ties to move supply to markets



# Focus on Results Building Domestic Markets – 2008 Carton Council RecycleCartons.com

### Focus on Results Building Domestic Markets – 2011 Currently Taking Cartons Planning to Take Cartons **RCM Great Lakes Tissue** ReWall (Q3 2011) Southern Tissue (Q1 2012) **Simberly-Clark** \* Aseptic Only **GET MIII** RecycleCartons.com



# New PSI\* Spec Grade #52 Aseptic/Gable Top Cartons

- Consists of liquid packing board containers including empty, used PE coated, printed one-side aseptic and gable-top cartons containing no less than 70% bleached chemical fiber and may contain up to 6% aluminum foil and 24% PE film.
- Prohibitive materials may not exceed 2%
- Total out-throws may not exceed 5%



\*PSI = The Paper Stock Industries (PSI) Chapter is a national chapter of the Institute of Scrap Recycling Industries, Inc. (ISRI). It is dedicated to the recovered paper industry

### **Sustainable Carton Pricing**

- Grade #52 announced in April, reflecting industry recognition of this grade – eventual use of index expected
- Carton pricing generally follows Sorted Office Paper (SOP) pricing—varies by location of source, fiber mix, etc.
- Export pricing varies based on shipping container weights and locations—strong export demand over 140 mills consuming cartons worldwide



### **End of Life Carton Recycling -**

#### Preferred for Highest Yield

- Whole Carton Recycling into Building Products
- Positive Sort of Carton into Tissue/Pulp with Poly/Al Recovery
- Both Reach 90 to 100% of Carton Recovery (fiber and poly/al)

#### Preferred for High Yield

- Positive Sort of Carton into Tissue/Pulp no Poly/Al Recovery
- Yields 90% of Fiber Recovery, 70% Total Recovery

#### Acceptable – Lower Yields

- With Mixed Paper into Domestic or Export (Tissue/Pulp)
- Recovery Depends on Pulping Time/Temp 50-60% Total
- By Product Processing Increases Yield
- Unacceptable Disposal



# Step 2: Build Sustainable Supply Infrastructure

Step 2

#### Cities

#### MRFs

#### Brokers

#### Mills

- Provide promotional assistance to motivate collectors to add cartons
- Phase in collection to grow supply in step with new market capacity and allow for existing contract end dates
- Assist collectors with enhancing program efficiency and effectiveness

- Incentivize sorting facilities to sort cartons and ship to designated mills
- Assist sorting facilities with enhancing sorting efficiency and effectiveness

### **Supply Development Strategy**

- Develop long term partnerships with MRFs
- Provide capital for sorting equipment
- Use brokers to help move cartons to support and stabilize market demand and build commodity market value
- Educate, assist, invest and ensure carton recycling access in all markets
- Build volume fill the pipeline



# Small and Medium Sorting Center Needs

**Small Sorting Centers (25%)** 

May include sorting conveyors, with heavy reliance on manual labor for sorting



Typical capital need:

Hoppers for storage of manually sorted cartons



**Medium Sorting Centers (35%)** 

May include air sort, trommel, eddy current, steel belt conveyor, self-dumping bins and push-through bunkers

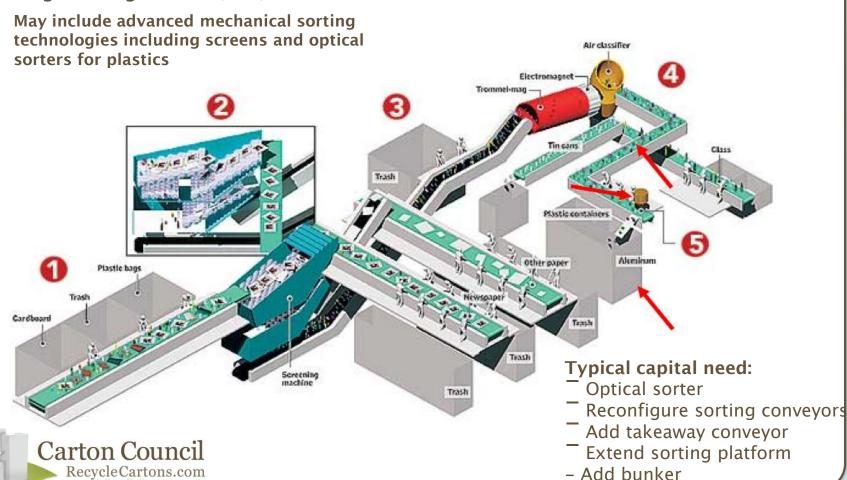


Typical capital need:

- Reconfigure sorting conveyor
- Extend sorting platform
- Add bunker

### Large SortingCenter Needs

**Large Sorting Centers (40%)** 



### **Step 3: Build Collection System**

Cities MRFs Brokers Mills

Step 3

- Partner with local governments to add cartons to community & hauler collection programs
- Implement promotion and education campaigns to inform consumers about cartons recyclability and boost participation and volumes at MRFs
- Involve Carton Council customers in targeted local campaigns (e.g. dairies, brands, etc.)

#### **Tools for Collection Communications**

#### PR Tool-kit

- » Templates for use by communities, haulers and sorting facilities
  - Press releases, photos and text for websites, templates for giveaways, letters to customers
- » Awareness about recyclability of cartons
- » Drive volumes at MRFs





# Carton Website - RecycleCartons.com

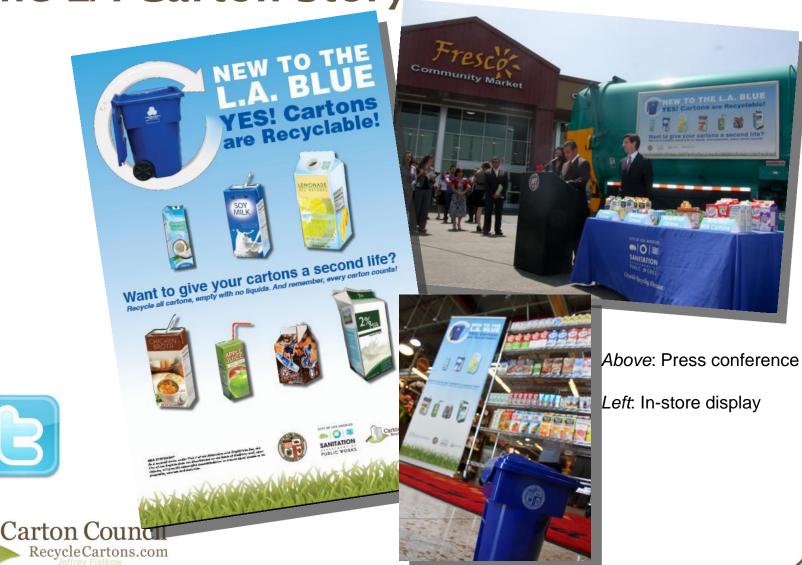


### Carton Recycling and Schools

- If you can recycle cartons at home, you can recycling cartons at school!
- Guide and technical assistance available



The LA Carton Story



### The Mecklenburg County, NC Story



# The Firstar Fiber, NE Carton Story

"The Carton Council's initiative guarantees an outlet for cartons, so we are happy to add them to our stream and offer carton recycling to our customers."

> Dale Gubbels, Firstar Fiber



Yardwaste Colle Begins for th 2011 Season the Week of April

# <u>Omaha Recycling Gets Juiced</u>

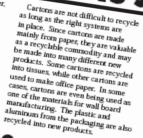
recycling drop off sites. Omaha's recycling processor Firstar Fiber has added equipment to their sorting process enabling them to add these food cartons. These food cartons are easily recognizable and are available in two types:

 shelf-stable, also known as aseptic" that often contains products such as soup, soy milk and juice refrigerated, also known

as "gable-top" that contain products like milk, cream and fresh juice.

Cartons are made mainly from paper, as well as thin layers of polyethylene (plastic) and/or aluminum. Shelf stable

These layers provide protection from light and air, allowing the product inside the carton to remain fresh for a long time, compared to similar products in different packaging



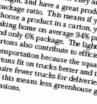
Cartons are a smart enviro choice for consumers. They a weight, and have a great prod package ratio. This means if y choose a product in a carton, y taking home on average 94% p and only 6% package. The light cartons also contribute to efficie transportation because the squa cartons fit on trucks better and t require fewer trucks for deliverie and this means less greenhouse ;

#### One Can One Purpose

A trash can labeled YW should never be used for garbage. You must remove the YW label if you need to use the trashcan for garbage.

Only a yardwaste collection truck





goes

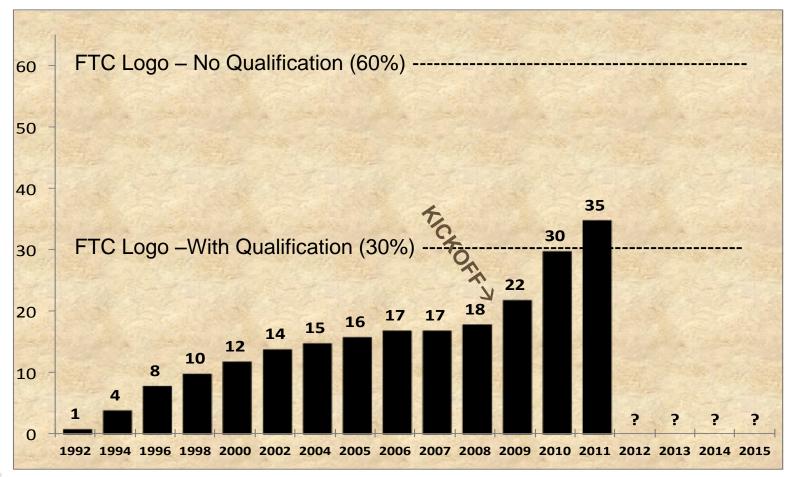
# Focus On Results

Carton Recycling Access 2008





# Focus On Results - Carton Recycling Access Mid-2011





# Focus On Results

#### - Carton Recycling Access Goals

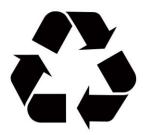




#### What 30% Access Allows

- Possibility to add a qualified logo on-pack
- As per FTC guidelines: When facilities are available to a "significant percentage" of the population or communities, but not to a substantial majority, the Guides suggest that marketers qualify their recycling claim\*.

#### **RECYCLABLE**



#### **ONLY WHERE FACILITIES EXIST**

Visit <u>recyclecartons.com</u> to see if recyclable in your area



# **Get involved!**

Communities Facilities Haulers









### **How You Can Recycle Cartons Too**

#### Material Recovery Facilities

#### Agree to:

- Sort cartons into separate grade
- Offer to municipal customers/haulers
- Sell cartons via Carton Council approved brokers

#### Provide:

- # households you serve & haulers/communities
- What capital upgrades you need (we can help ID)
- Floor price desired to begin negotiations





# How You Can Recycle Cartons Too

#### Haulers:

#### Agree to:

- Collect cartons
- Offer to your municipal customers

#### Provide:

- # households you serve
- MFR contact if we need to get them on board
- List of communities you serve





# How You Can Recycle Cartons Too

#### Municipalities:

#### Agree to:

- Collect cartons
- Promote to your residents

#### Provide:

- # households you serve
- MFR or Hauler contact if we need to get them on board





# Thank you!

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Visit the Carton Council:

www.recyclecartons.com

For updates and information, follow Carton Council on Twitter @RecycleCartons





