Trends in Recyclable Commodity Generation, Separation, and End Users

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General Overview

- Fluid Industry
- Material Changes
- Technology Changes
- End User Changes

Trend #1

Commodities Changing

- Some slowing fading
- Some increasing
- Some have global impacts

Fiber Commodities

- ONP (Old Newspaper)
- OCC (Old Corrugated Containers)
- Printers Waste
- SOP (Sorted Office Paper)
- Mixed Paper
- Many others
Evidence that ONP is going away

10/7/2013

Example of Size Difference

Plastics

- General use increasing

- August 2013
  - GP Harmon buys Plastic Recycling Plant
  - Pulp and Paper giant Georgia Pacific
  - First entry into the plastics recycling plant area

- Headline from Plastic News:
  - Apple: iPhone 5c is "beautifully, unapologetically plastic"

Aluminum

- Picture of old can bottle and new “bottle can”
### Trend #2
- Separation
  - All Sorted at Curb
  - Paper then Mixed Containers
  - Single-Stream

### Think About the Waste Stream
- And how it can be recycled
  - Metals
  - Plastics
  - Paper
  - Organics

### Separation
- Technology, Technology, Technology
- Single-Stream
- Sorting Technology
  - Optical
  - Magnetic
  - Air

### Optical
Separation Trends

- Single-Stream (Altogether Recycling)
- C & D Recycling
- Trash Sorting

Trend #3

- End Users
- Where does it go?
- How does it get there from Colorado?
- What effects transportation?

World Demand and Policy's

- It’s a Global Market
- Domestic and International Markets
- Interactions with both

Shipping

- September 6th, 2013 Press Release
  - Maersk Line began operating the world's largest cargo ship
  - 18,000 TEU's (Twenty Foot Equivalent Unit – Cargo Container)
  - Next largest is 13,000 TEU's
Why do we do it ???

- Makes financial sense
- Creates jobs
- Environmentally sound practice

Thank You!