

Elemental

IMPACT

## Elemental Impact

#### HOLLY ELMORE, ELEMENTAL IMPACT

#### STEVE DAVIES, NATUREWORKS

#### BIOPOLYMERS CONFERENCE BIOPOLYMERS ROLE IN ZERO WASTE PROGRAMS SAN ANTONIO, TX OCTOBER 17, 2012





## Elemental Impact

### Sustainability in ACTION

Work with industry leaders to create best operating practices where the entire value-chain benefits, including corporate bottom lines and the environment. Through education and collaboration, establish the best practices as standard practices.



### Ei Elemental IMPACT

## A CATALYST

#### Ei: Creates Corporate | Community Initiatives

- What could be done
- That is not being done
- Ei gets it done

#### Bring the Possible out of Impossible





### FOCUS AREAS

#### **Initiative Foundations:**

- Product Stewardship
- Toxin-Free Environments
- Zero Waste Initiatives





## ZERO WASTE



### **ZERO WASTE INITIATIVES**

- Recycling Integrity
- Sustainable Food Court Initiative
- Ø Zero Waste Zones





### **RECYCLING INTEGRITY**

#### Maintaining maximum Material Value

#### With Minimal Energy Expended

# **Contamination**: *an expensive trip to the landfill*





## ZERO WASTE ZONES

#### Acquired by the

#### **National Restaurant Association**

#### September, 2012





#### Elemental IMPACT

## SFCI



## Sustainable Food Court Initiative

An Integrated Approach to Sustainability













### Mission:

To bring zero waste initiatives to food courts and develop industry, sustainable best practices for Back-of-the-House and Front-of-the-House operations



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### Food Court Challenges:

- Common property waste & recycling contracts
- Landlord | Tenant Relationships
- Franchisee | Franchisor Relationships
- Consumer Disposal of FOH Packaging
- Third Party Items Brought to Food Court
- Multiple Packaging Products Used





## SFCI



### Hartsfield-Jackson Atlanta International Airport

All food vendors must use compostable food serviceware and consumer-facing packaging and source-separate organics for composting collection.

Provision in new airport concessions RFP



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#### 2011 Going Green Airports Award:

#### Sustainable Food Court Initiative Atlanta Airport Pilot



Michael Cheyne accepted award on October 31







### Additional Pilots:

- Shopping Mall Concord Mills (Charlotte)
- Event Venue Georgia Dome (Atlanta)
- Office Complex
- Government Center
- College | University



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## NEW HORIZONS

**Expanded Foodservice Opportunities:** 

- Manufacturing
- Orporate Campuses



### COMPOSTABLE PACKAGINGROLE

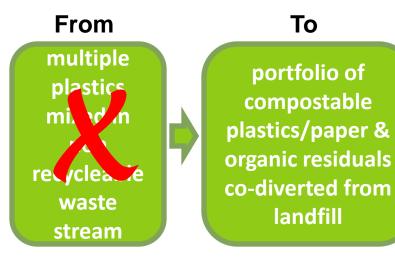
#### A Vital Enabler:



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- Landfill diversion
- Enables single "organics" stream
- Compostable plastic
   "harmonization" within
   food serviceware packaging





**Wingeo** 

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### WHO IS NATUREWORKS

 50/50 Jointly owned by Cargill and Thailand's PTT Global Chemicals



- Blair Expansion to 150,000 ton/year
- **o BioAmber Joint Venture intro's new** 
  - green building blocks in Ingeo resins portfolio





### Nature Works LLC

#### **Ingeo Markets**



#### **EI'S** FOOD SERVICEWARE PARTNERS





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#### WHY NATUREWORKS AND OTHERS HAVE PARTNERED WITH ELEMENTAL IMPACT?

- It's all about assisting/influencing change and sharing best practices of closed venues, colleges/universities and retailers/brandowners
  - **Closed venue:** e.g. Portland Trail Blazers, Seattle Mariners, Philadelphia Flyers, Pittsburg Pirates ...
  - **Colleges/Universities:** e.g. University of Washington, University of Wisconsin-Oshkosh
  - **Retailer/Brandowner:** e.g. Walmart, Danone, PepsiCo, Coca-Cola, Green Mountain Coffee

All are critical proof points for Ei's current and future SFCI partners



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### ATLANTA AIRPORT FOOD VENDORS

(AN EXAMPLE OF OUTCOMES FROM EI PARTNERS WORKING COLLABORATIVELY)

- Beginning in 2012, food vendors are required to use compostable service ware to support Atlanta Airport's goal:
  - divert 50% of its waste from landfill by 2015
- Atlanta Airport defines 'compostable products' as those that are approved by 3<sup>rd</sup> parties:
  - The Biodegradable Products Institute (BPI); or
  - Cedar Grove Composting.





## Elemental IMPACT ATLANTA HARTSFIELD AIRPORT

- Types of Compostable Foodservice Ware Products
   Covered by Contract Restrictions
  - Cutlery
    - both individually wrapped and bulk utensils
  - Plates, bowls and cups
    - for both hot and cold applications
  - Take-out packaging
    - E.g. clamshells, boxes, deli containers, deli/bakery bags, containers with separate lids
  - Ancillary items such as lids, straws, trays, and coffee stirrers.





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### EXCLUSIONS & EXEMPTIONS

- Currently Excluded: Branded packaging used for food and beverage items manufactured by brand name food companies
- These excluded items relate solely to pre-packaging
  - e.g., beverage cans and bottles; snack food packaging such as nut, candy, and chip bags; and pre-packaged condiments).
  - All other foodservice ware packaging/items must comply with this Compostable Foodservice Ware Packet.
- Exemptions issued by the City of Atlanta's Department of Aviation may be granted, revoked, modified or suspended by DOA from time to time in their entirety or case-by-case basis.



#### NatureWorks LLC

#### Leveraging Proof Points for the Sustainable Food Court Initiative





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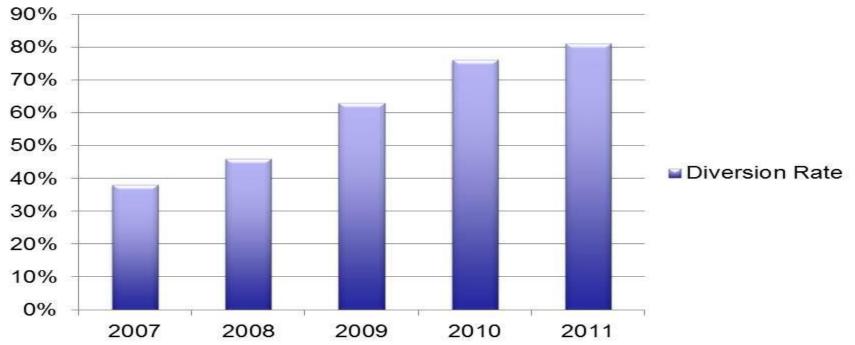






#### **Key Focus – Waste Diversion**

This Includes Food and Compostable Food Serviceware Waste Diversion



#### Diversion Rate



#### **The Portland Trail Blazers Outcomes**

### business case

Baseline 2008

Energy Savings = \$411,000 (3.5m kWh's / 110,000 therms)

Water Savings = \$165,000 (over 13,000 CCF's)

Waste Diversion Savings: \$260,000

Total Savings = \$836,000 (Cost = \$560,000)



#### **Portland Trail Blazers Benefits Extend Beyond the Environment**



## QUESTIONS ?





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