



# Commercial Applications for Bioplastics



**Pacific Rim  
Vancouver, BC  
October 10th, 2012**

# Agenda

- Introduction
- Solegear
- Bioplastics, Schmioplastics...
- The Bioplastics Ecosystem
- Solegear Perspective
- Bad Plastics
- The Bottom Line

# Introduction

- Founder, President & CEO:  
**Solegear Bioplastics Inc.**
- Since 2006
- B. Comm. (Marketing,  
Finance): **Dalhousie  
University**
- Street experience
- Dreamer, stubborn, disturber
- Deepwater Horizon  
Responder
- Patent Holder, Manning  
Innovation Award Nominee,  
Avalanche Guide



# What We Do



Solegear engineers  
100% non-toxic,  
bio-based and  
compostable plastics  
at a competitive  
price

# **Are Bioplastics Even Alive?**

# The Plastics Market

Global plastics consumption is over 495 million pounds annually. And growing.

Bioplastics currently represent **1.8 billion pounds** of the market.

At an expected **CAGR of over 30%**, the opportunity exists to take a leadership position

Source: BCC Research, Pira International, Global Industry Analysts Inc., 2011.

# Bioplastic Growth Drivers

**Concerns about plastics:** Oil supply and price volatility, pollution, energy footprint, and product toxicity concerns.

**Global plastics consumption projected to exceed 297 million tonnes by 2015.**

**The Bioplastic Alternative**



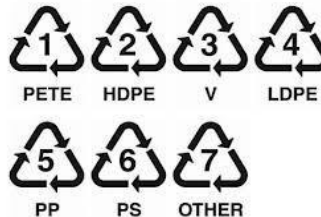
# 8%

After 25 years, just 8% of plastics in North America are actually recycled.

Compostable plastics break down into soil, water and CO<sub>2</sub>

**POLYSOLE®**

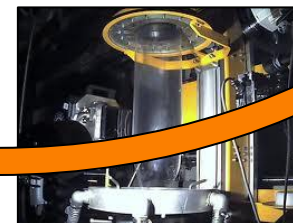
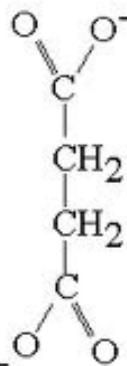
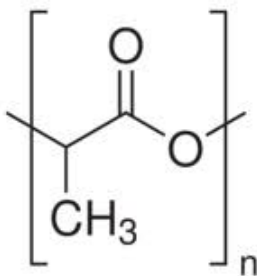
**Solegear's Polysole® bioplastic solutions are designed to be 100% non-toxic, bio-based and compostable at the end of their useful lives.**



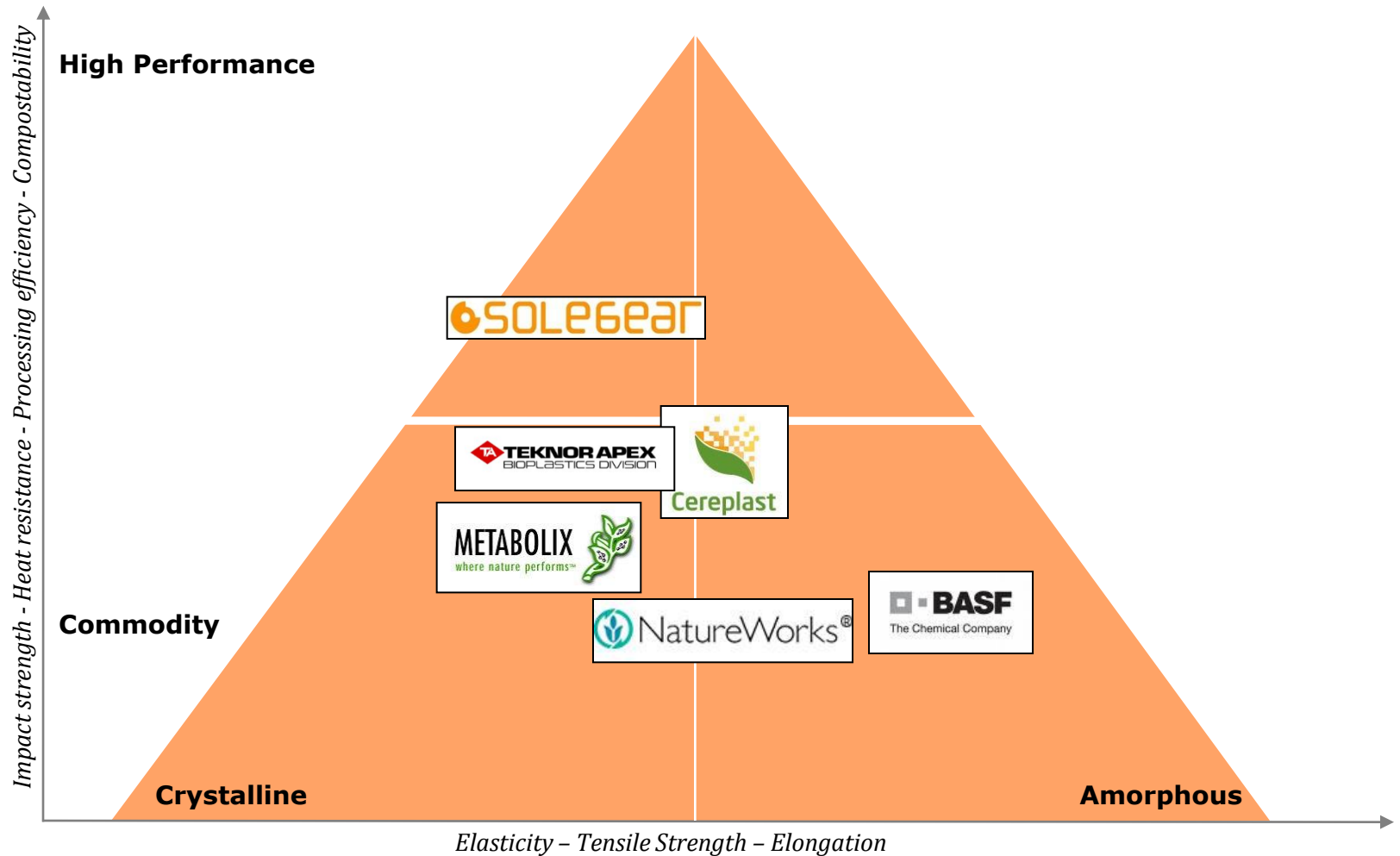
# One Sole Perspective



# The Bioplastics Value Chain



# Solegear: High-performance



# The Prognosis

# Applications

- Retail environments
- Rigid packaging
- Consumer products
- Flexible films
- Electronics
- Medical



Q4 2012

Q4 2012

2013

2013

2013



**There is no such  
thing as a bad  
plastic...**

# The Landfill Tells All

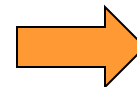
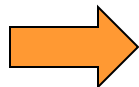
- Organic Waste (F&Y) – 30%
- Paper & Paperboard – 17%
- All Other Materials – 53%



- Plastic – 18%
- Metals – 9%
- Wood – 8.4%
- Textiles – 6.9%
- Glass – 5.2%
- Rubber & Leather – 4.1%
- Other – 2.1%

## Municipal Composting up 300% in last 20 years

- Diversion of tipping fees
- Improving Soil Health and Structure
- Increasing Drought Resistance
- Reducing Need for Supplemental Water, Fertilizers, Pesticides



# Solegear's Commitment





One sole gear in the new bioeconomy engine

**Thank You**

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