Commercial Applications for Bioplastics
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.

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

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

Compostable plastics break down into soil, water and CO₂

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

Impact strength - Heat resistance - Processing efficiency - Compostability

High Performance

Commodity

Crystalline

Amorphous

Elasticity – Tensile Strength – Elongation

Solegear: High-performance commodity materials with excellent properties.
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

Making our communities healthier, safer and stronger
One sole gear in the new bioeconomy engine

Thank You

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