



PULPWORKS®

MOLDING A BETTER WORLD

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Sunnyvale, CA 94085

Founders



PAUL TASNER

Co-Founder & Chief Executive Officer

40 years of leadership experience in packaging and manufacturing



ELENA OLIVARI

Co-Founder and Chief Sustainability Officer

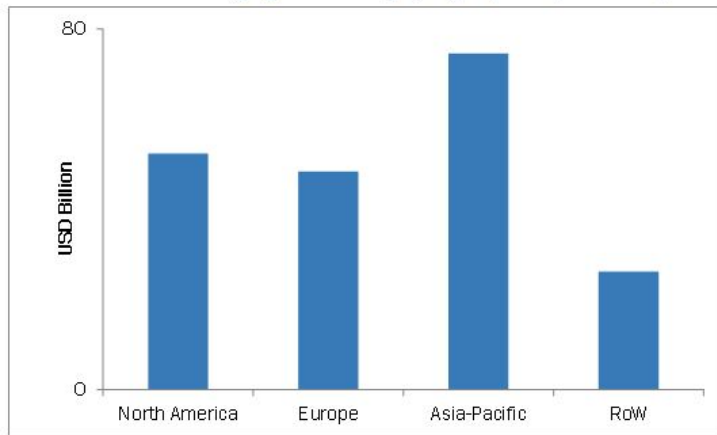
20 years of green architecture and design experience

Worldwide Plastic Pollution



Sustainable Packaging Market

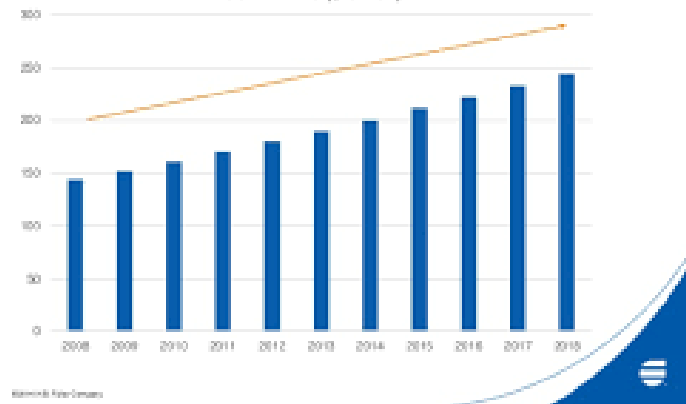
Sustainable Packaging Market Size, by Region, 2014 (USD Billion)



Source: Expert Interviews and MarketsandMarkets Analysis

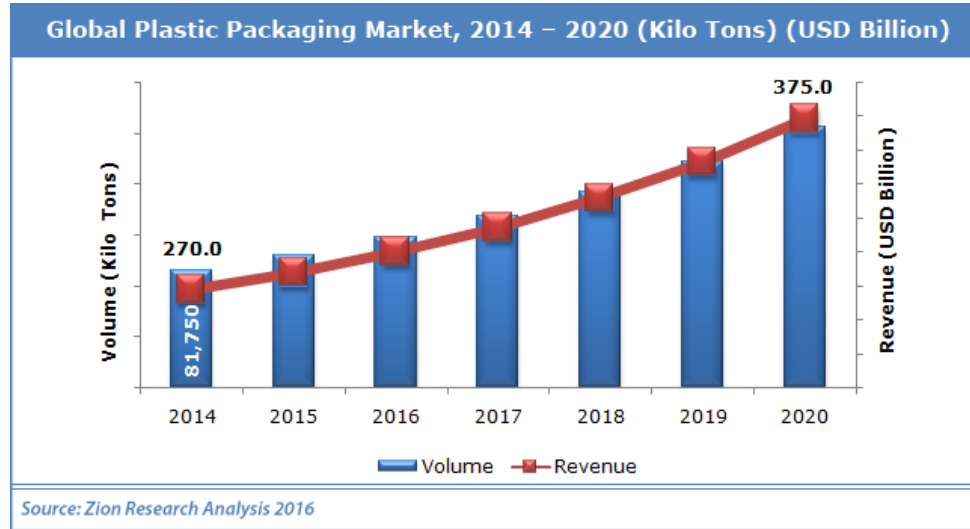
Sustainable packaging is a growing industry

Sustainable packaging market
2008 – 2018 (\$ billion)



- **Global \$440.3 Billion by 2025**
- **CAGR of 7.7%**
- As consumers are becoming more concerned about their health and the environment, they prefer using packaging material which matches their healthy lifestyles. Environment-friendly material used for packaging is becoming widely popular.

Plastic Packaging Market



- **\$375 billion**
- **CAGR growth is 4.8%**
- **81,750 kilo-tons produced**
- **\$40 billion annually** - the end-of-life cost of plastic packaging; plus the costs associated with the GHG emissions from its production.

Business Overview

Operations

- Manufacturing partners (6):

- China (3)

- Taiwan

- India

- Egypt

- UK

- Mexico

- Key projects:

- Amazon/Apple (Broadview, Illinois)

- Electrolux AB (Stockholm, Sweden)

- BASF SE (Ludwigshafen, Germany)

- Beiersdorf AG (Hamburg, Germany)

- Google (Mountain View, California)

- Novo Nordisk A/S (Hillerod, Denmark)

Business Overview

----- Intellectual Property

- United States Patent #9,481,500 (plastic blister-pack replacement)



- IP in development:
 - (1) Mars Wrigley (cocoa bean husk fiber)
 - (2) BASF/University of Maryland (wood nanofibers)
 - (3) University of Maine (nanocellulose)

Projects: past / present

Gnome
BY GROUPON

 Electrolux

 **BASF**
We create chemistry





Beiersdorf



T-Mobile

nomiku

Google



novo nordisk



COVERGIRL

MOO

Zume
PIZZA



credo



Titleist
#1 ball in golf.

 Reckitt
Benckiser

Circularity, Waste & Recycling



sugar cane bamboo wheat straw sorghum cotton kenaf pcr cardboard cocoa pod

bagasse – Karta-Pack™



bagasse – Karta-Pack™



cotton + bagasse



cotton + bagasse



natural bamboo



bleached bagasse



natural & bleached bagasse



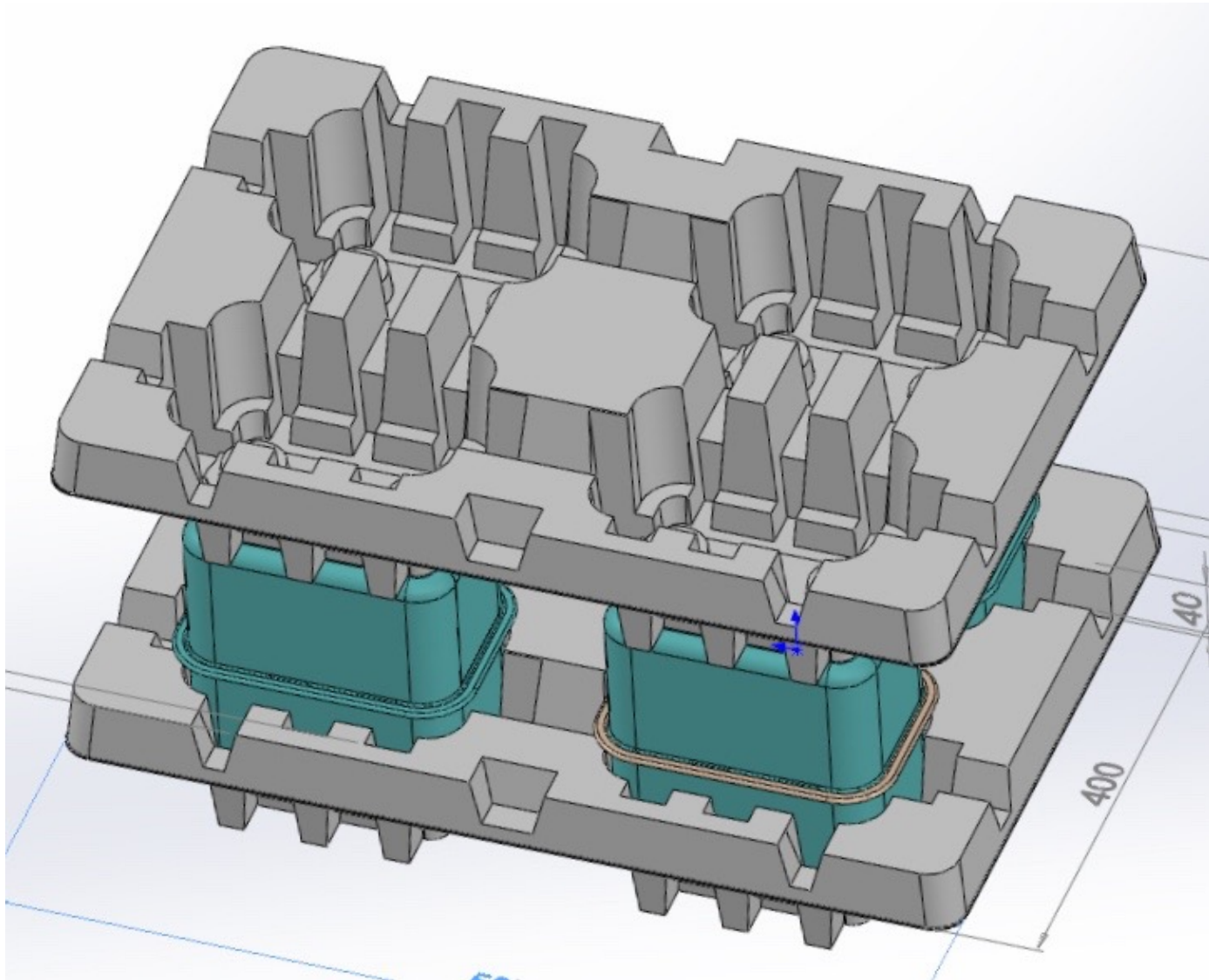
bleached bagasse



pcr cartons



pcr paper



bleached bagasse



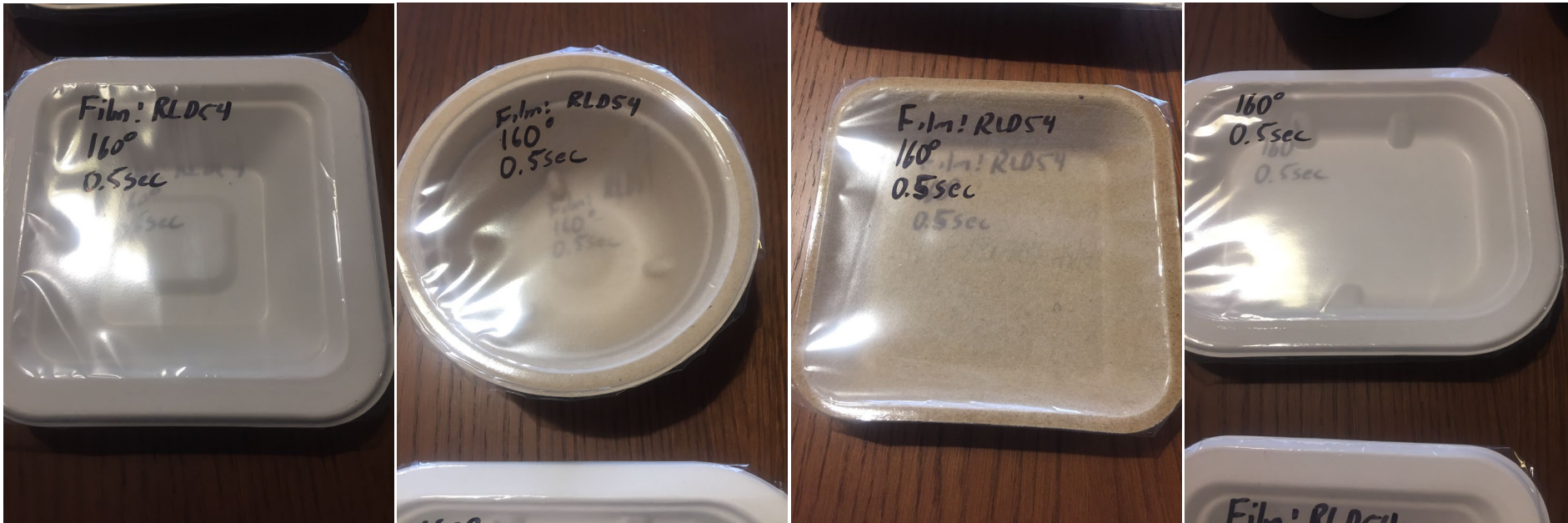
bleached & colored bagasse



pcr cartons & bagasse



rPET film seal on molded fiber



bagasse



pcr cartons



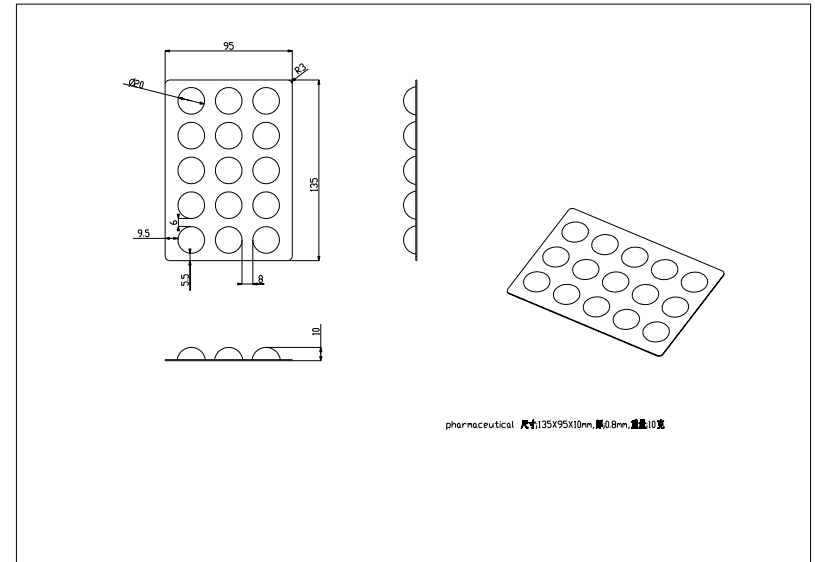
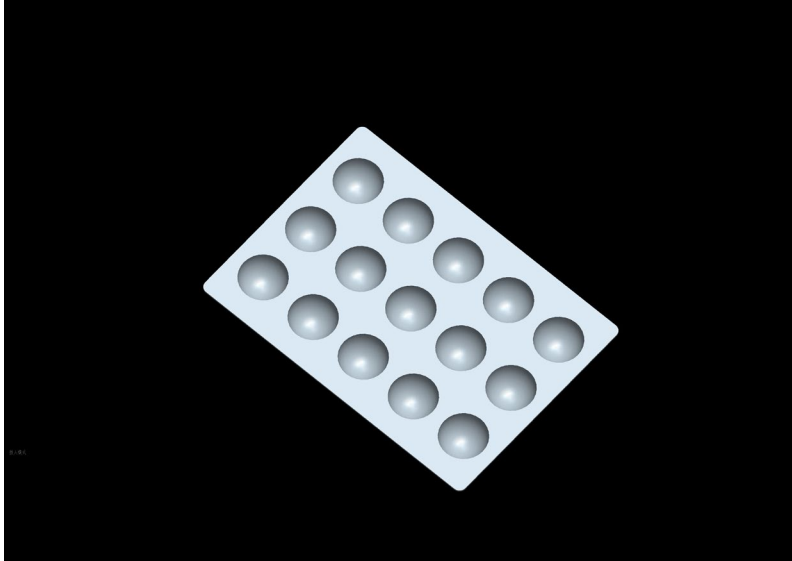
cotton + paper



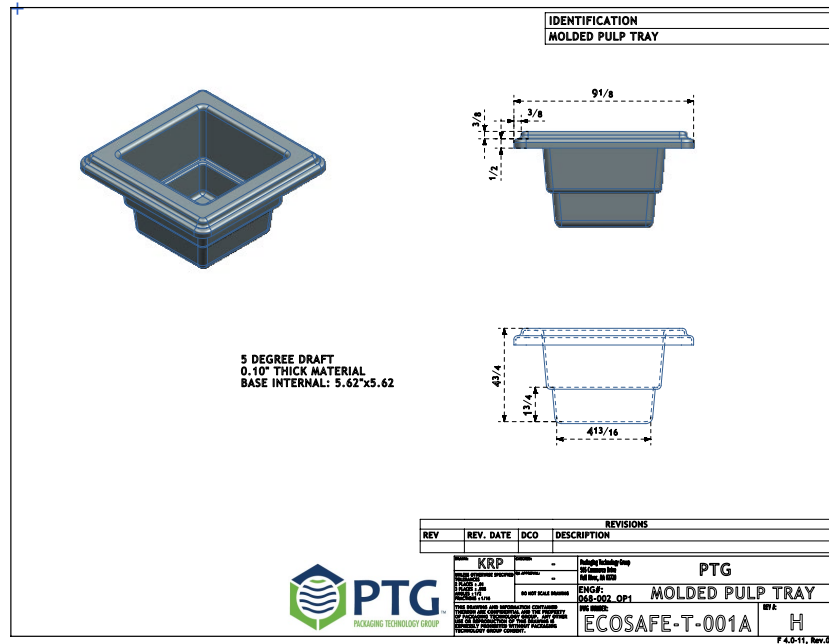
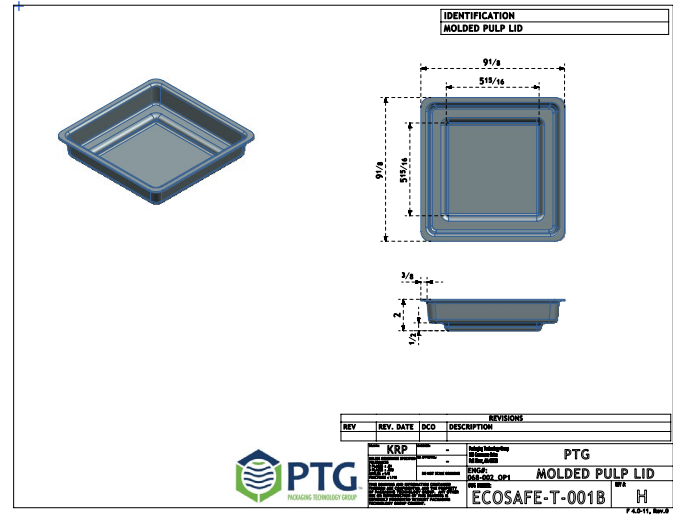
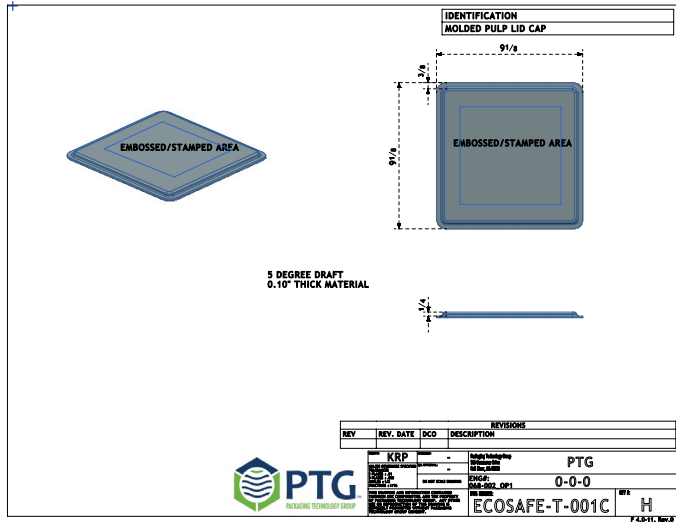
Cosmetics – *Karta-Pack*™



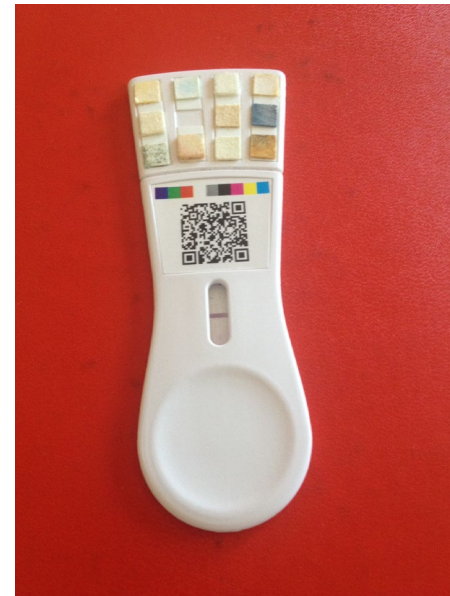
Pharma - blister pack



Pharma - cold chain



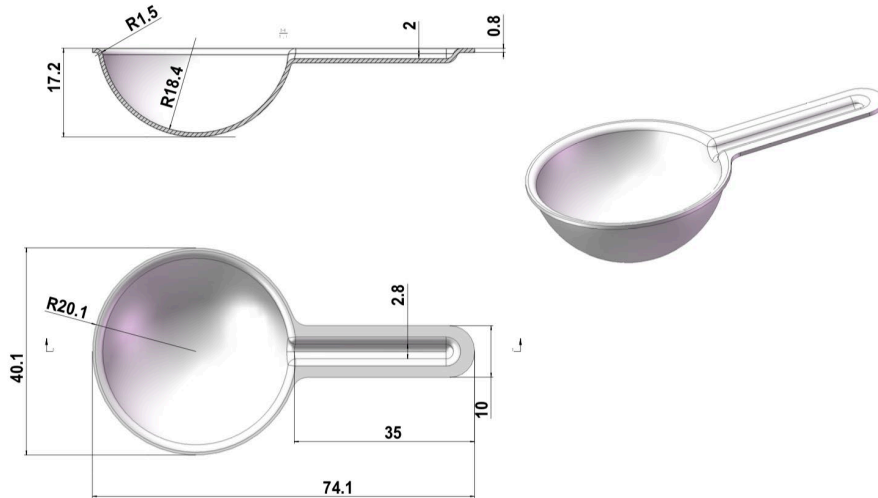
Biopharma - diagnostics



Birthing kits



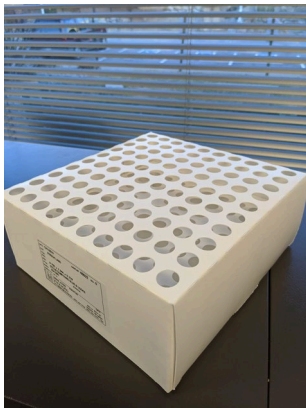
Pharma - veterinary



Infectious disease research



Sample collection for hematology analysis



Food delivery



Electronics



Electronics



Press coverage

San Francisco Chronicle

The New York Times

THE WALL STREET JOURNAL.

THE HUFFINGTON POST

THE INTERNET NEWSPAPER: NEWS BLOGS VIDEO COMMUNITY

Forbes

Money



PACKAGING
DIGEST
INDUSTRY LEADERS



Awards



GLOBALSOCIALVENTURE
C O M P E T I T I O N



TED Talk

