FOOD SECURITY AND THE ROLE OF PACKAGING

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Feeding the World: A Moral, Political, Economic Imperative

AT ISSUE

1/3 of the world's food production is thrown away.

Total food loss and waste reaches:
- $680 billion in industrialized countries and
- $310 billion in developing countries.

Industrialized countries throw away 222 million tons of food, an amount nearly equal to food production available in Sub-Saharan Africa.
Food security exists ...

... when all people at all times have physical, social and economic access to sufficient and nutritious food that meets their dietary need and food preferences for a healthy and active life.
VALUE CHAIN

FROM PLANTING THE FIRST SEED TO FEEDING BILLIONS OF PEOPLE, DuPont IS COMMITTED TO HELPING ACHIEVE A BETTER, SAFER, HEALTHIER AND SUSTAINABLE FOOD SUPPLY TO MEET THE DEMANDS OF A GROWING WORLD—TODAY AND TOMORROW.
Packaging’s Contribution to Food Security, Reducing Loss and Waste

- Protect Product
- Extend Shelf Life
- Control Portion
Stages of Food Loss and Waste

**Production:** Food loss occurs due to environmental factors, inadequate storage, as well as compliance regulations.

**Harvest Processing:** In the first stage of processing post harvest, technical limitations prevent efficient processing and result in food loss.

**Industrial Processing:** Packaging, marketing and transportation complications can cause food waste.

**Distribution and Sales:** Food waste occurs when demand is over-forecasted or ordered inappropriately.

**Table:** At home or in restaurants, overgenerous portions or poor food preservation methods drive food waste.
Each Act Matters

It’s not the **BIG** idea, rather the series of innovations and breakthroughs that add up.
Packaging Can Reduce Meat Waste

Saving just one pound of meat because it turned brown or smells bad saves **50 pounds** of greenhouse gas.

Throwing it away is like burning **3 gallons of gasoline** without going anywhere.
Packaging Can Help Keep Food Fresher Longer

Parakh Agro captured a DuPont Award for Innovation with an affordable package that helps keep milk fresh without refrigeration for 90 days.

The company believes this innovation will help change the lives of many people in outlying areas of India and significantly reduce food waste.
What Can Packaging Do?

In the Face of **New Normal**, the Packaging Industry Can:

- Establish an **Aspirational Goal** of ensuring every piece of food packaged can be consumed
- Break down value chain barriers and institutionalize **collaboration**
- Ensure **market-facing** innovation
Global Food Security Index
The path to food security begins by exploring the challenges, then developing solutions.

The 2014 Global Food Security Index provides a worldwide perspective on which countries are the most and least vulnerable to food insecurity.

The Global Food Security Index

Indexing three core issues in 109 countries

Affordability

Availability

Quality and Safety
Together we can feed the world.