

Environmental Law Institute's Annual Summer School Seminar Series

Rachel Goldstein, Global Packaging Sustainability







## 125,000+ Associates

are united and guided by The Five Principles of Mars which span geographies. languages, cultures and generations.



















































### Sustainable in a **Generation Plan MARS**

The Sustainable in a Generation Plan from Mars features three interconnected ambitions - informed by science - that will allow the company to address significant environmental and social challenges facing our planet.

#GenerationforChange









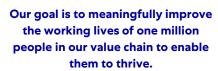


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Our goal is to reduce our total environmental impact in line with what science says is necessary to keep the planet healthy.







Our goal is to advance science. innovation and marketing to help billions of people and pets lead healthier, happier lives.



#### **Climate Action**

Reduce the total GHG emissions across our value chain by 27% by 2025 and 67% by 2050.



#### **Increasing Income**

Everyone within our extended supply chain should earn sufficient income to maintain a decent standard of living.



#### **Food Safety**

Mitigate food safety risks around the world.



#### Water Stewardship

Eliminate water use in excess of sustainable levels in our value chain by 2050.



#### **Respecting Human Rights**

Everyone touched by our business is treated with fairness, dignity and respect.





#### **Product Renovation**

Invest in science and product design to improve the nutrition and portions of our products.



#### **Unlocking Opportunities** for Women

In our workplaces, marketplaces and supply chain.



#### **Responsible Marketing**

Market our products in ways that will help billions of people lead healthier, happier lives.



#### Circular Packaging

**Land Management** 

Hold flat the total land area

associated with our value chain.

Develop packaging that is 100% reusable, recyclable or compostable while decreasing virgin plastic use by 25% by 2025.



#### What we are doing about it

Remove unnecessary packaging

Packaging weight reduction: removal of layers; 10 reuse programs

100% of paper based packaging from certified. verified or recycled Remot sources (by 2020); edesign Eliminate PVC 2025 Circular **Packaging Plan** Invest

#### Invest to close the loop

Supporting EPR schemes; investing in and advocating for a scale-up of recycling systems; using 30% recycled content on average across our plastic portfolio; providing guidance to consumers in all major markets

### Why packaging matters



Redesign for

circularity

(by 2020)

It ensures products meet the highest standards for food safety



It helps preserve the freshness of products



It provides consumers with helpful information

#### **Anchor goals**

of our plastic packaging to be reusable, recyclable or compostable\*

reduction in virgin plastic use\*\*

#### **Partners**

We're working to advance our packaging plans by collaborating with Ellen MacArthur Foundation. Consumer Goods Forum. Loop and others.

<sup>\*</sup> Per EMF definitions

<sup>\*\*</sup> Target dependent on advancement of mechanical. chemical and organic recycling at pace and scale & alignment of food safety regulations

# The Why



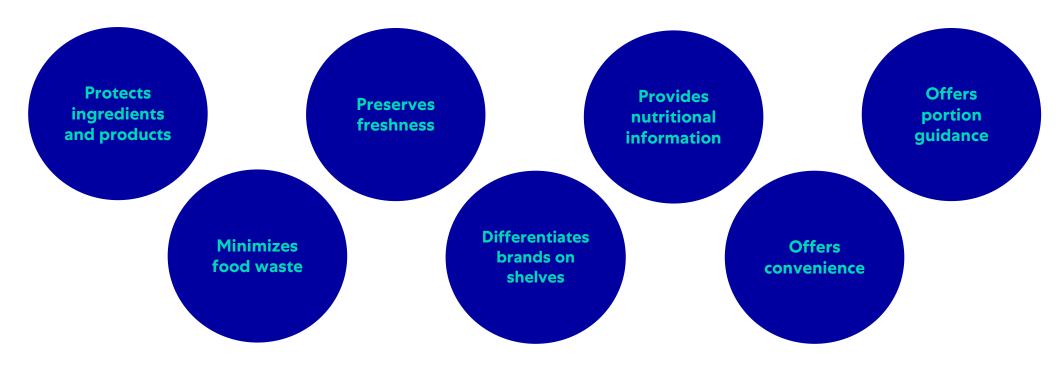




Defining the Issue

## **Why Packaging Matters**

Packaging plays many important roles in ensuring products meet the highest market and food safety standards



All these benefits need to be maintained while also finding a way to make sure packaging can be part of a circular economy.

## The Challenges with Today's Packaging

Packaging today is made of many different kinds of materials....

including sturdy cardboard boxes for shipping, lightweight papers, metal cans, glass jars and a variety of different plastic materials.....rigid, flexible, multimaterial



Glass, metal, paper and rigid plastics are frequently recycled materials, where infrastructure exists....and in some informal recycling markets



Flexible plastics are lightweight and can have a low carbon footprint, but they are recycled far less and in many cases not at all.

## The Challenges with Today's Packaging



#### **CHALLENGES:**



In developed markets there is waste collection, but still relatively low recycling rates, particularly for flexible plastics.

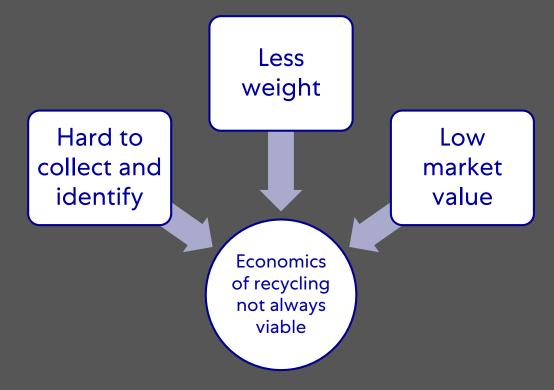


In developing markets there is little or no collection and consequently very low recycling and high leakage to nature.

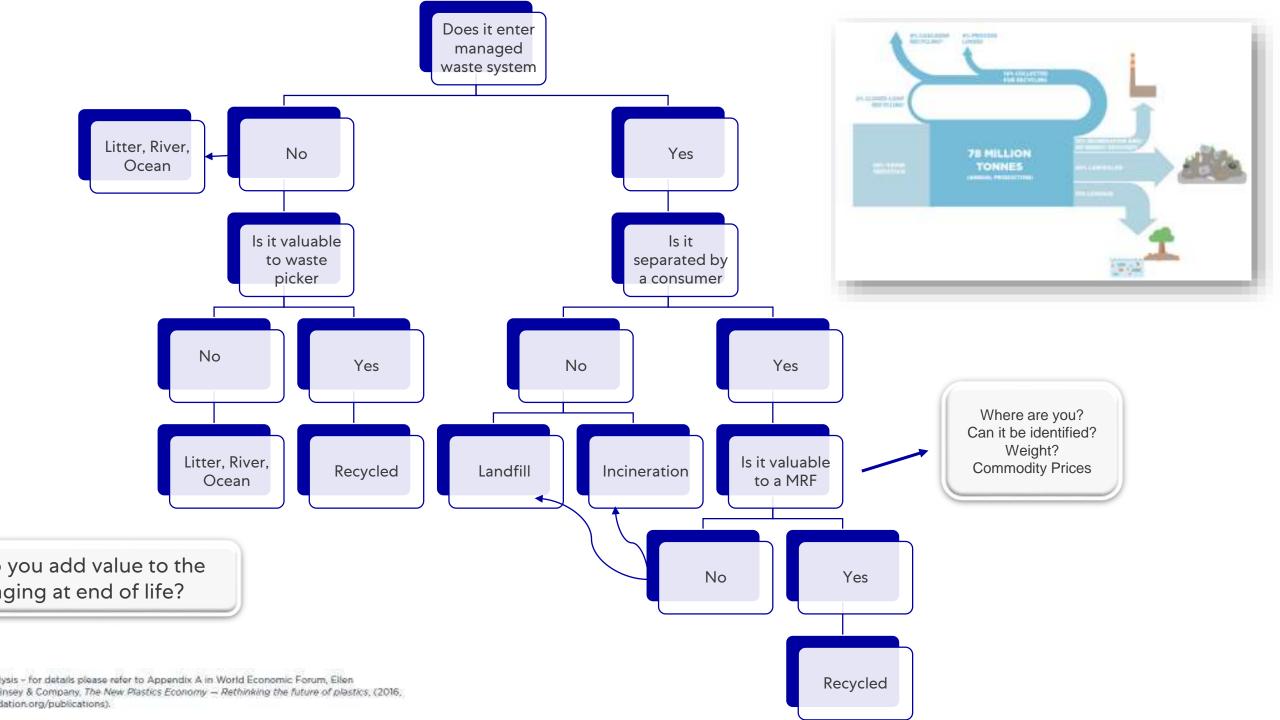


Most plastics in use today are made from fossil fuels, which are finite resources.

# Why is collecting and recycling of plastic packaging such a challenge

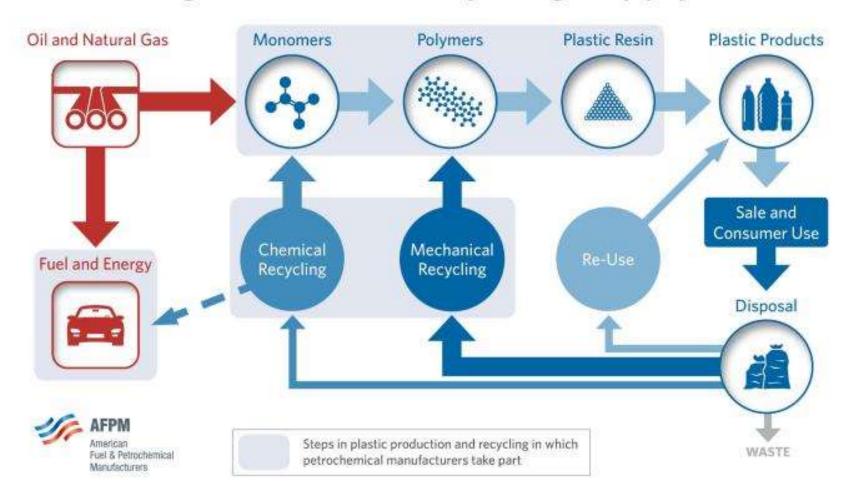


There is a tension between material efficiency at start of life and material value at end of life



## Mechanical and Chemical/Advanced/Enhanced Recycling

## **Evolving the Plastic Recycling Supply Chain**



# Three strategies to transform the global plastic packaging market



Fundamental redesign – upstream

**Reuse**- different delivery models

**Recycling**- adding value at end of life

Ref: New Plastics Economy

## Fundamental redesign – upstream

Reduce Fossil Based Plastic

Bio-based/biodegradable/compostable
Paper, metal, glass
Need awareness of tradeoffs, infrastructure, fit for purpose







## Fundamental redesign – upstream

#### Reduce materials

## What can you eliminate or lightweight





# Reuse/Refill- new delivery models and transport packaging

- Reusable pallets
- Pallet collars
- Reusable handheld containers
- Reusable bulk containers
- Reusable dunnage
- Reusable wraps and straps

#### AWIN

Pilots during 2019 . Prague

MIWA creates a business ecosystem for packaging-free sales

RFID-enabled monitoring of inventory, automatic reordering of stock, and real-time data on flow of goods improves the supplychain efficiency and operational convenience



#### **Hepi Circle**

Pilot • Indonesia

Household goods like detergent sold in small-format reusable bottles to replace single-use sachets.

Every time a customer returns a Hepi Circle bottle they receive a Hepi point that can be used towards purchasing new products in reusable packaging or food.



Ref: New Plastics Economy Reuse Guide



models and transport packaging

Buy as much or as little of a product as you want

Photo: Algramo

## Recycling- adding value at end of life

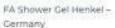


## **SOCIAL PLASTIC®**

Social Plastic® is ethically recovered plastic that upholds the UN Sustainable Development Goals by transferring its value to emerging economies.









Eco-shopping bag Marks & Spencers – United Kingdom





## Recycling- adding value at end of life



How Bricks Made
Of Plastic Waste Is
Helping Spread
Education In Ivory
Coast & We Can
Take Note



https://www.indiatimes.com/news/world/how-bricks-made-of-plastic-waste-is-helping-spread-education-in-ivory-coast-505137.html

## **New Supply Chains Need to be Built**



**Corporate Commitments** 

Global Market Disruptions

COVID 19
Disruptions







## Where does recycled content come from

**Post Consumer** 



**Using recycled content** 

in packaging



**Post Industrial** 



**Ocean bound** 



## Global Regulatory Activity on the Rise

Increasing state and federal activity in U.S.

UN Environment and WRI found that at least 127 countries (of 192 reviewed) have adopted some form of legislation to regulate plastic bags as of July 2018.



Parties to the Basel Convention moving to make most plastic scrap/waste covered waste subject to a prior notice and consent procedure effective January 1, 2021 China "National Sword" Policy in 2018 limited plastic waste imports

EU officials planning more than a dozen laws to strengthen the circular economy as part of European Commission's Green Deal

Sustainable in a Generation Plan MARS

## Increasing legislative activity at the federal level

### 2020 Activity

June 17 Senate Environment and Public Works Committee held an oversight hearing on "Responding to the challenges facing recycling in the United States

June 15 Plastic Waste Reduction and Recycling Act (H.R.7228) was introduced in the House by Representatives Haley Stevens (D-MI) and Anthony Gonzalez (R-OH).

June 11 Senator Tom Udall (D-NM) introduced S.3944 which is nearly identical to Break Free From Plastic Pollution Act (S.3263) without the section relating to fees on plastic bags.

May 22 Representatives Paul Tonko (D-NY) and David McKinley (R-WV) introduced H.R.6987, a bill to expand the Paycheck Protection Program (PPP) to include payments for waste and recycling collection services

2019: <u>RECYCLE Act (S.2941/H.R.5906</u> <u>RECOVER Act (H.R.5115)</u> <u>Save Our Seas 2.0 (S.1982/H.R.3969</u>

**Value Chain Partnership** 

Packaging Design Changes

Infrastructure Changes

Consumer Engagement

Metrics



# Thank you

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