

The Crossroads of Change  
Where Policy, Politics, and Profits  
Intersect

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# Preview

An Industry In Transition

Putting Policies in Historic Context

The Best Defense is a Good Offense

Changing Effectively

Issues Worth Watching

A New York Perspective





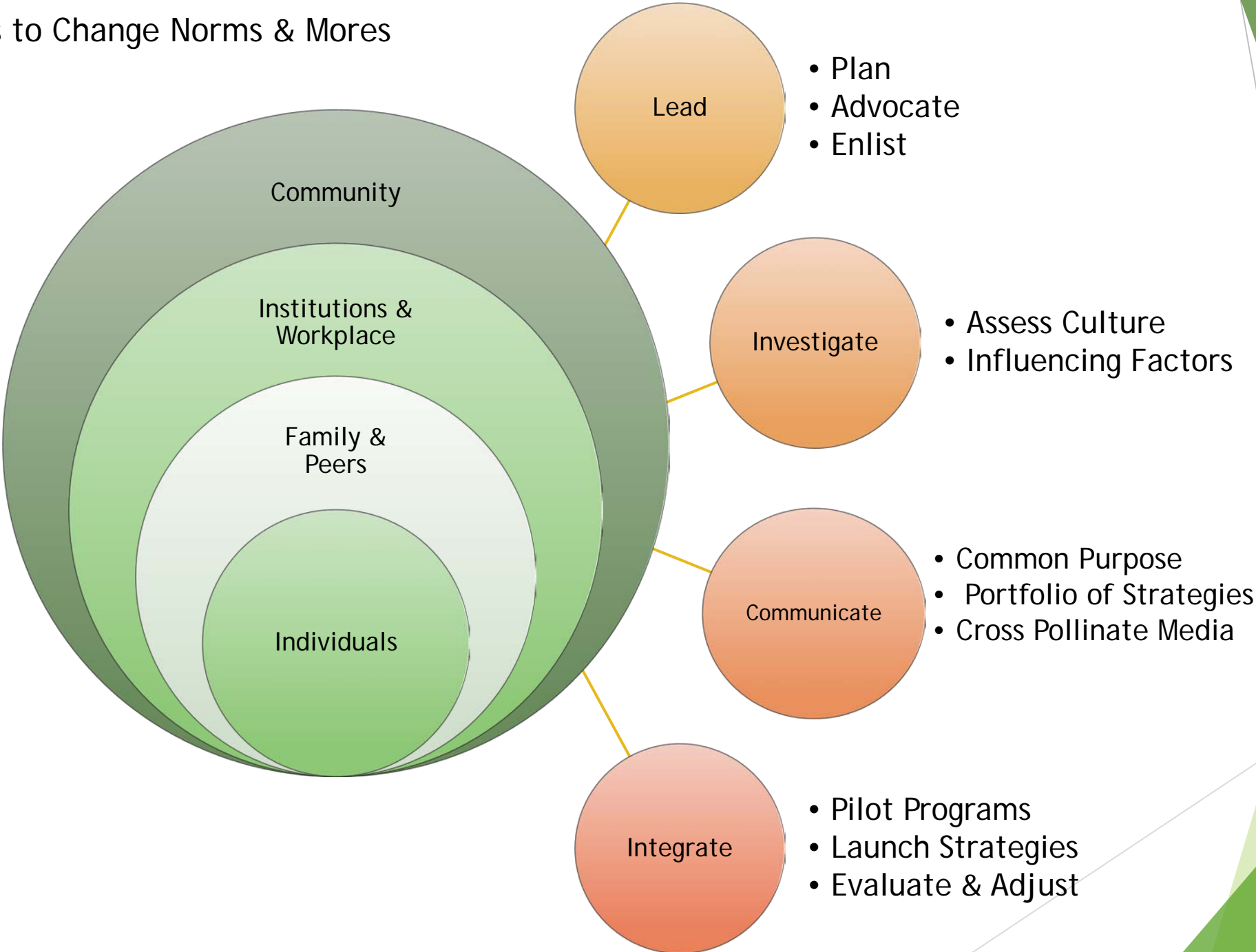
# Social Norms

## Why Legislation and Regulation Aren't Enough

- Conformity Feels Safe
- The Action "Feels Natural"
- Ingrained as Youth
- Peer Pressure
- Consequences are not Imminent

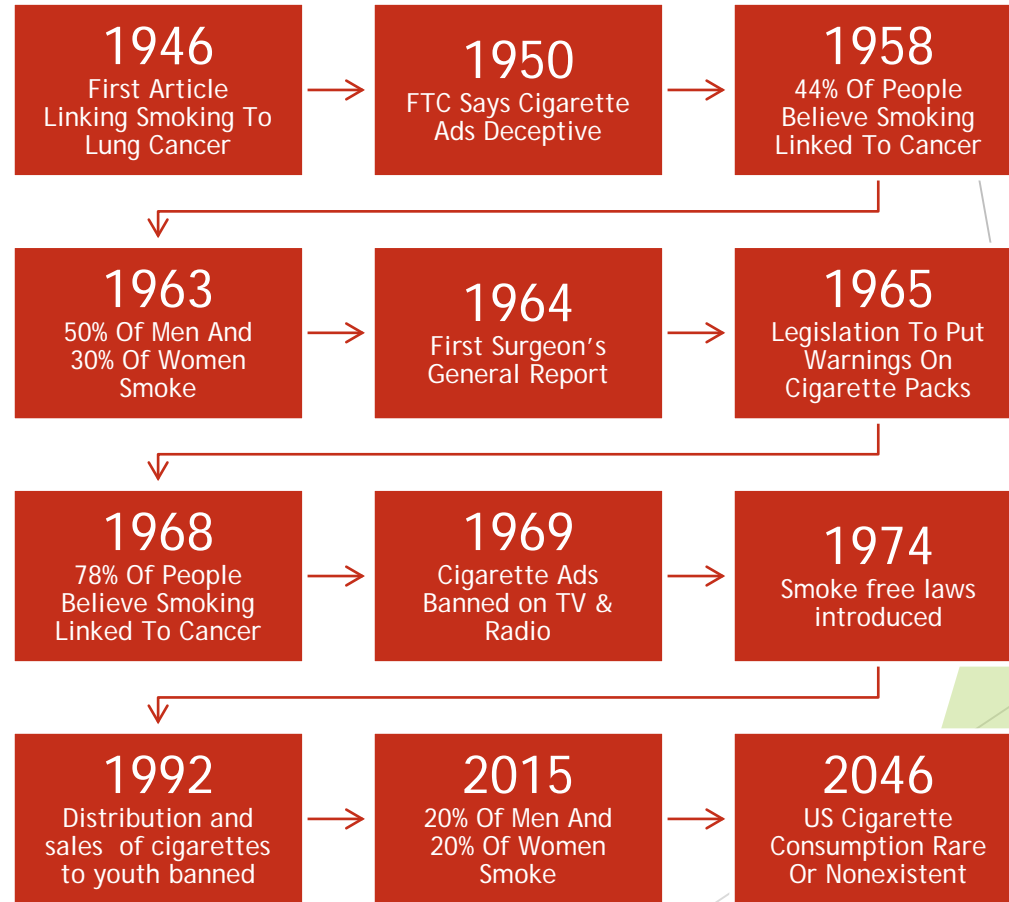


# Steps to Change Norms & Mores



# Legislating Behavior & Changing Social Norms

## Understand the Challenge



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Form Off-shoot Organizations To Implement Member Funded Alternatives

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Steer Focus To Individual Responsibility & Job Loss

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Introduce & Support Ineffective Legislation As A Smoke Screen

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Commission "Third-party" Studies, Reports & "Free-lance" Articles

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Initiate Litigation For The Sake Of Intimidation

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Use Targeted Donations and Grant Programs

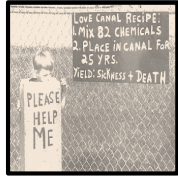
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Proven Strategy to  
Thwart Consumer Product Legislation



# Environmental Issues Circa 1970-1990

## ► In the News



Love Canal, NY  
Petro-Chemicals

Valley of the Drums,  
Bullitt, KY  
Paints & Solvents



Times Beach, MO  
Dioxin

Coastal  
Sewage & Medical Waste



Picher, OK  
Lead & Zinc

Michigan Chemical  
DDT



## Regulatory Reaction

- New Federal Immersion in Solid Waste Management
- Reality of Self Regulated Industries
- Focus on End of Pipeline
- Command & Control Approach





# Circa 1950-1990 What about Municipal Waste?

Reality of Municipal Dumps Prompts  
Mass Closures

Economies of Scale Promoted

Technological Solutions were  
Favored over "Organic" Approaches

Cost of Disposal Increases

Waste Generation Begins to Escalate

Packaging Alters Waste Composition





*“Municipalities or some other “natural payer” may need to help subsidize collection costs if Waste Management can't generate enough revenue from the material.”*

David Steiner, CEO  
Waste Management  
2016

Who is the “natural payer” ?

# Circa 1950-1970

## Final shift to non-returnable carbonated beverage containers



### Cases sold annually

- 1960- 65.7 million
- 2014- 8.4 billion



### Average % recovered per year

- 1960= 8%
- 1990 =44.7%.
- 2012 = 42%




### Industry Savings (Sample for Coca Cola)

- Reduced Fuel Consumption by 50%
- Saved \$4Myr. warehousing/repair per botting operation
- 91% of bottling operations closed by 1980's



### Costs & Burden of Recovery shifted to local governments

1970 - 65,000 truckloads of Pepsi & Coca Cola containers each day

A man in a dark suit is sitting in a chair, holding a cigarette in his right hand. He is looking towards the camera with a serious expression. The background is dimly lit, showing a floral patterned lampshade and some furniture. A large green geometric overlay is on the right side of the image.

***“If you don’t like what they’re saying about you, change the conversation.”***



Killed Extended Producer  
Responsibility For  
Packaging

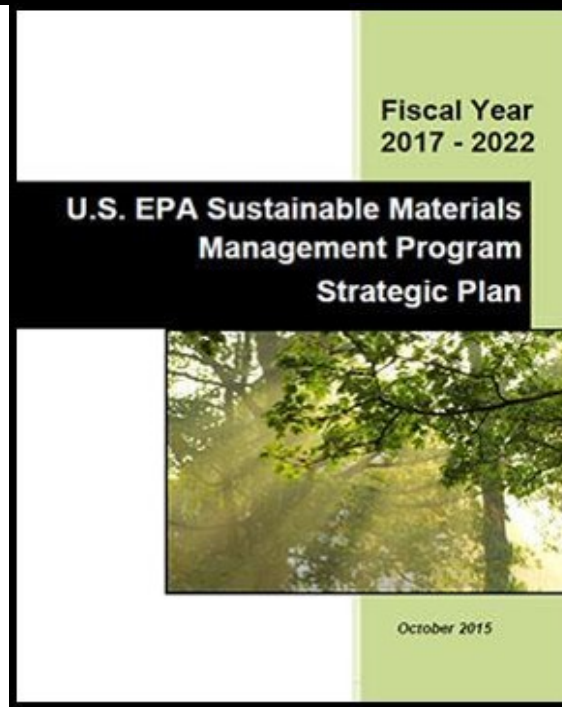
Successfully Lobbied  
Federal & State  
Legislators for Curbside  
Recycling Over Industry  
Sponsored Collections

From 1990—2011  
Container/Packaging  
Recycling Cost Local  
Governments \$1.56 Billion  
Annually

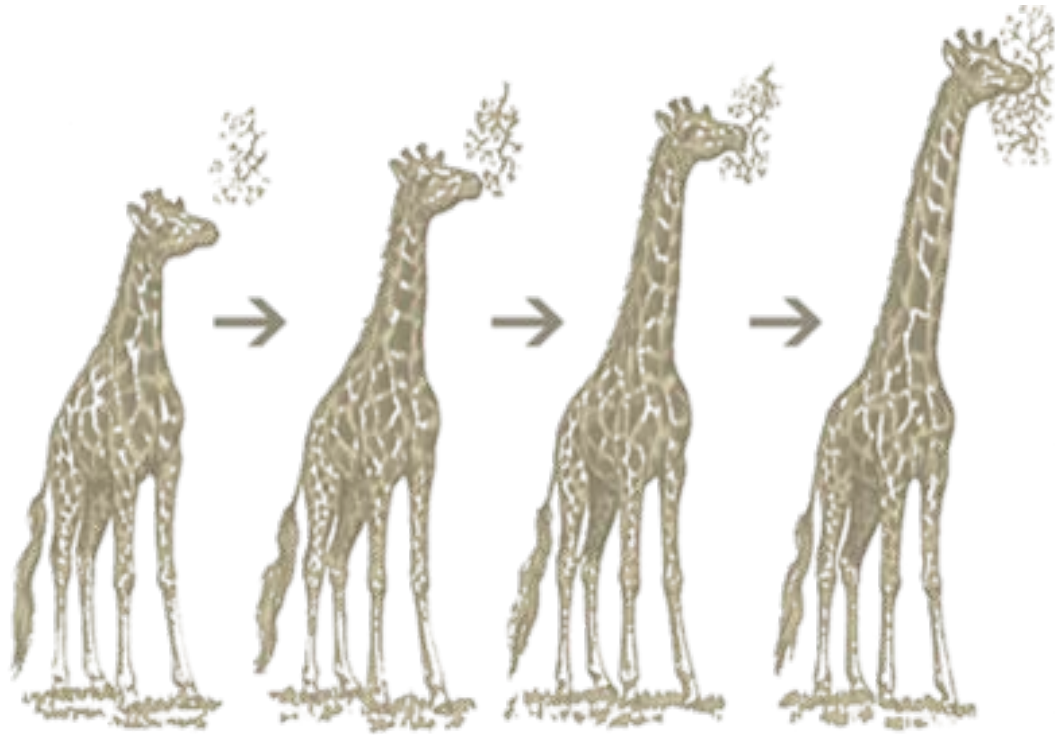
Circa 1971 The Most Powerful Teardrop in American History

**CHANGE**  
THE WAY YOU THINK  
*about everything.*

Create your future from your future, not your past.”  
— Werner Erhard



Circa 2017  
Heading  
Upstream

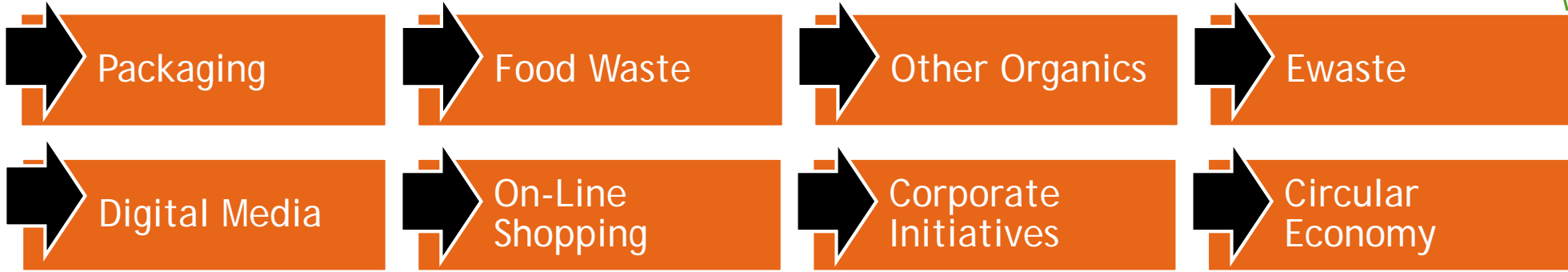


Policies and  
Technology Evolved to  
Capture Available  
Feedstock

Rethinking the  
Natural Order

Consequences of  
Recycling Centric  
Philosophy

Quantity and Quality



# Key Policy Drivers



Value of Commodities

Risk Management

Shareholder Expectations

Evolving Ton

Market Control

Competing Technology

Corporate Initiatives

Return on Capacity

# Industry Concerns



# Millennial Influences

Sustainability in All Aspects

Repairability

Corporate Environmental Stewardship

Sharing Economy

Cause Based Marketing

Actions vs. Beliefs

“On the Go” Expectations

Preferred Packaging

Convenience

Multi Family Dwellings



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The Evolving Ton Will Continue To Morph

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Safety will be a Top Industry Priority

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Discussions Over Extended Producer Responsibility Will Intensify

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Recyclability And Waste Diversion Will Lose Status As The Primary Metrics

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Energy Production, Water Consumption, and GHG Will Emerge As Important Metrics

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Existing Infrastructure Will Clash Over Regulatory Initiatives

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Food Waste Disposal Bans Will Expand

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Zero Waste to Landfill Initiatives will Drive WTE and Conversion Technologies

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New Challenges Will Emerge In Ewaste From Flat Panel Glass

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A black and white photograph of a hand with a ring shuffling tarot cards on a dark surface. The cards are scattered around, and the hand is in the process of moving one. The image is partially obscured by a green geometric overlay on the right side.

What's in the Cards?

# Beyond the Crossroads

Solid Waste and Sustainability Advisory Panel Report

Governor's Recycling Council Report

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•Ambitious Itineraries

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Tangible vs. Conceptual

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Balancing Policy with Practicality

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Understanding Borrowed Ideas

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Full-Cost Accounting

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Sustainable Funding Mechanisms



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Thank You!  
Questions  
Comments