



#### **Industry Policy Insights - Exploring What Matters**

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Vice President
Public Affairs
TFI















# Industry Policy Insights

**Exploring What Matters** 

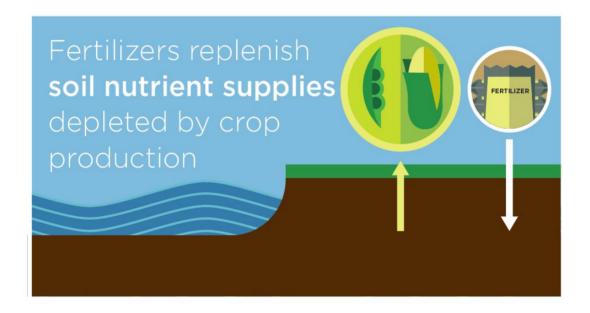
# Environmental Impacts Industry Policy Insights



#### **Influences on Nutrient Use**

Lara Moody, P.E. Senior Director Stewardship & Sustainability

#### What We Know.....





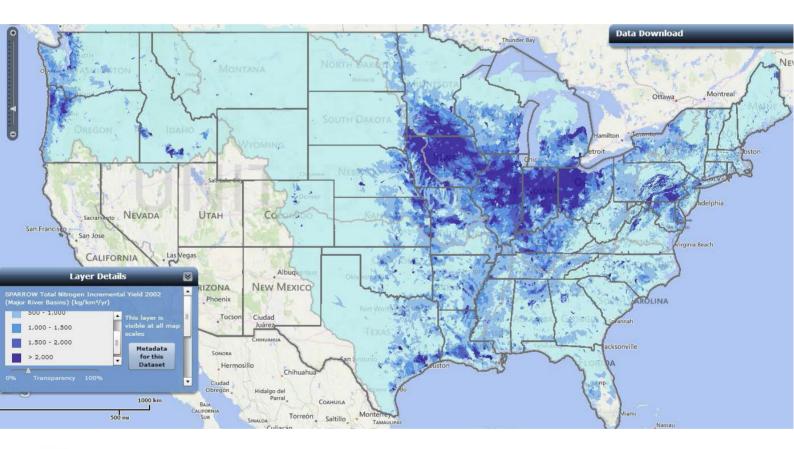
#### What They Think......

- Agriculture overuses fertilizers
- Reduce nutrient pollution by reducing fertilizer use
- · Nutrient use on the farm should be regulated



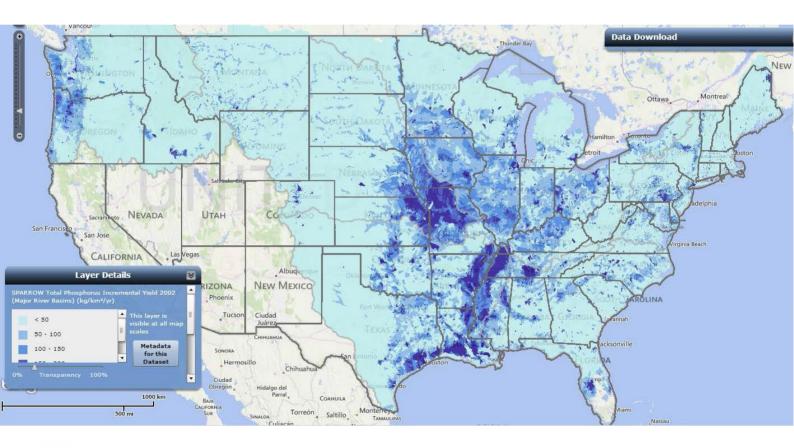


## **Nitrogen Lost to Watersheds**



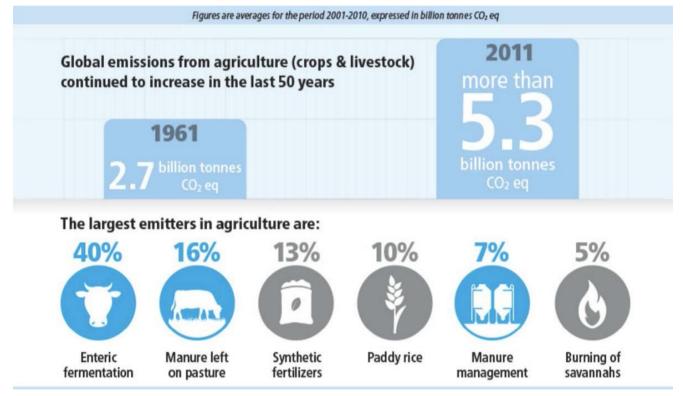


## **Phosphorus Lost to Watersheds**



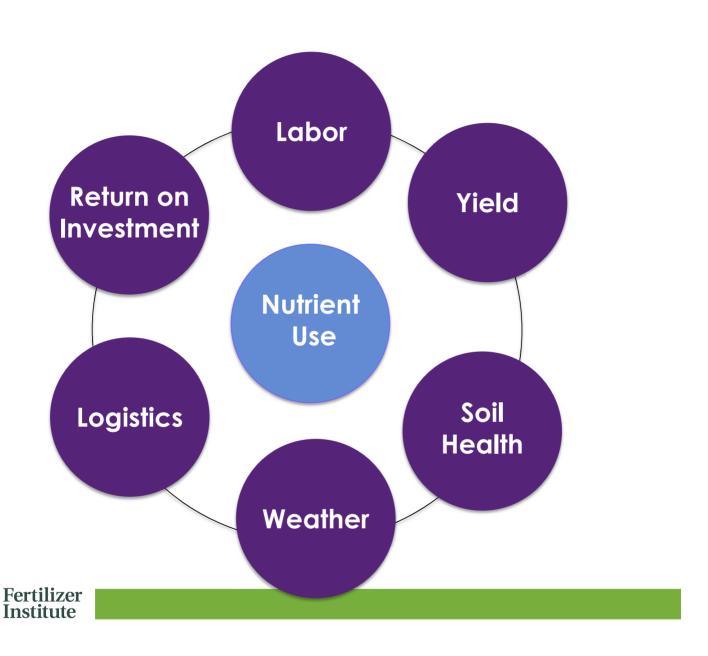


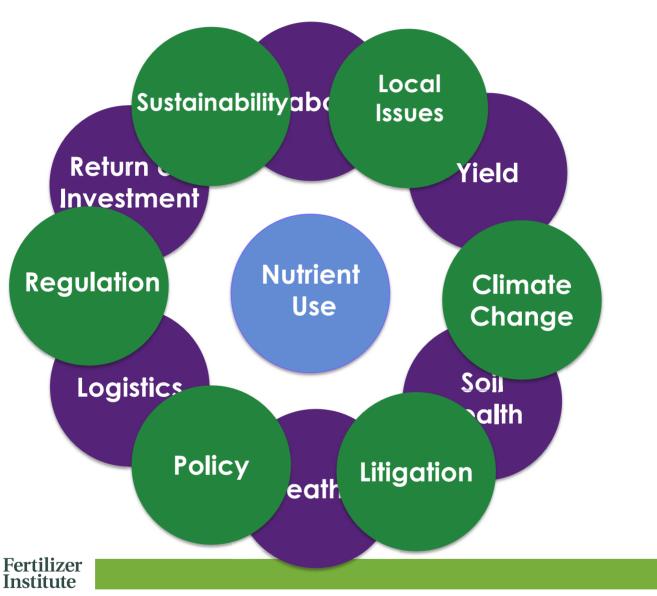
#### **GHG Emissions**



www.fao.org



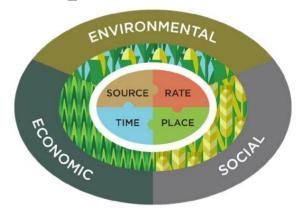






#### **4R Nutrient Stewardship**

 Improve agricultural production while contributing to social well being and minimizing environmental impacts (benefits water & air quality)











## Matches fertilizer type to crop needs.



Makes nutrients available when crops need them.

RIGHT PLACE
Keeps nutrients where crops can use them.

#### **WOTUS – EPA Guidance**



- Rule defining what waters fall under federal jurisdiction.
- Clean Water Act addresses only "navigable" waters; confusion over what is navigable.
- Rule expands the number of water bodies subject to regulation
- Any water body within 1500 feet of a tributary to a navigable water will be subject to regulation
- Could impact land use decisions on farms, particularly ditches.
- Rule finalized in May; being litigated by states and industry.



#### **Nutrient Reduction Strategies**

Policy

 Pathway pursued by states on Mississippi River Basin Hypoxia Task Force

Arkansas - Indiana - Illinois

lowa - Louisiana - Kentucky

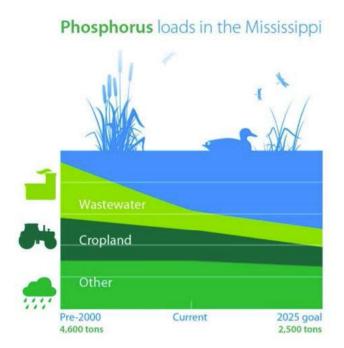
– Minnesota - Mississippi - Missouri

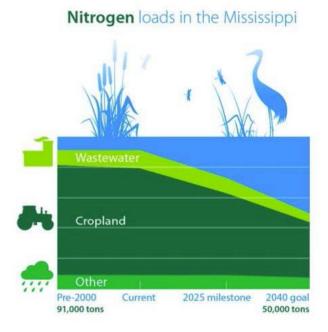
– Ohio– Tennessee– Wisconsin

- Reduce Hypoxic Zone from 6000 to 2000 mi<sup>2</sup> by 2035
  - 20% nutrient loss reduction by 2025
  - 45% nutrient loss reduction by 2035



### **MN Nutrient Reduction Strategy Targets**



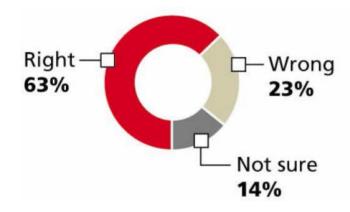




#### **Iowa - Des Moines Water Works**

Litigation

- Sued upstream drainage districts claiming failure to obtain permits for nitrate discharges
  - \$7,000/day to treat nitrates
  - Aging treatment plant infrastructure
  - Voluntary efforts for farmers are not working



Source: Des Moines Register Iowa Poll of 807 Iowa adults Feb. 15-18; margin of error: plus or minus 3.5 percentage points

THE REGISTER



#### Field to Market



- Food supply chain pursuing sustainable ag
- Ag commodities, agribusiness, conservation, food supply chain, and academic organizations engage through Field to Market
  - Metrics Verification
  - GoalsScaling-Up through technology
- Educating non-ag representatives on 4Rs
- Integrating 4Rs in sustainable ag arena



#### Climate Smart Agriculture



- Fertilizer being drawn into conversation on climate change
- US making commitments at COP 21 and a portion of the goal is linked to agriculture
- USDA NRCS tasked with GHG reduction efforts related to soil health and N stewardship
- Climate Smart Ag focus is optimizing productivity, mitigating emissions and increasing resiliance



#### Western Lake Erie 4R Efforts

- Algal bloom in Western Lake Erie affecting drinking water, fishing industry and recreation
- 4R Certification program for service providers
- 4R based legislation
- Supporting 4R research
- Stakeholder support



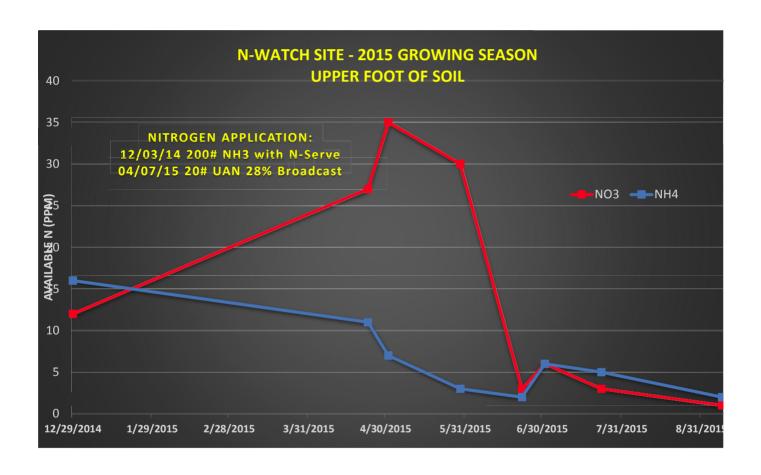
Local

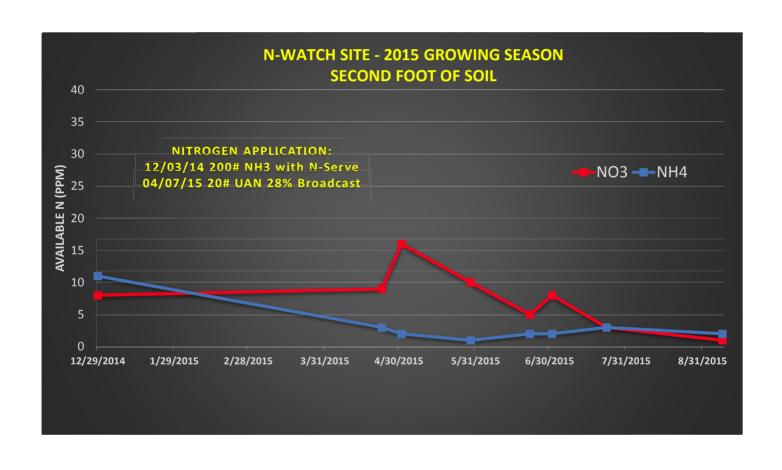
**Actions** 



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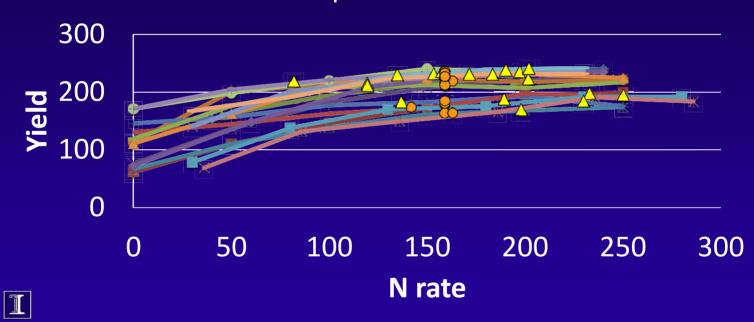
**Exploring What Matters** 





#### 18 On-Farm N Trials Soy-Corn 2014

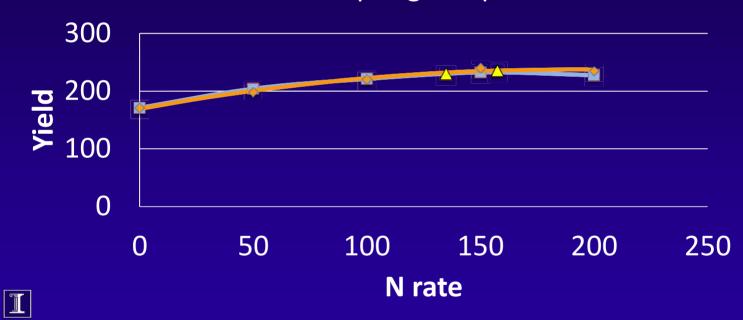
△ Opt • MRTN



23

#### **On-Farm Soy-Corn 2014**

◆ Fall ---Spring △ Opts





#### THEY'VE TAKEN THE PLEDGE. ARE YOU READY?

Regan Wear - CHS Shipman

Zachary Belleville - CHS Shipman

Mike Koenigs - Dow AgroSciences

Ben Martin - Akron Services

Dustin Ehler - Ehler Brothers

Ken Ferrie - Crop-Tech Consulting

Harold Reetz - Reetz Agronomics

Mark Zorn - Rabideau Grain

Rich Selinger - Rosen's

John Musser - Stephenson Service Co

John Morrell - Piatt County Service Co

Tim Hughes - United Prairie

# Walmart - Fertilizer Optimization Video



Not logged in

. . . . .

our Goals

Sustainability Index

How To Make A Difference

Share What You've Achieved

Knowledge Base

Ask a Questio

Home Knowledge Base



#### Walmart Sustainable Agriculture Fertilizer Optimization

#### Rising to the Challenge

Fertilizer Optimization is a top sustainability priority for our food business. Rising to the challenge of feeding 9 billion people requires the entire value chain to produce more while minimizing the impact of their actions.



#### Achieving Fertilizer Optimization

Fertilizer optimization can be achieved by increasing nutrient use efficiency while also achieving productivity goals. Walmart depends on the American farmer to efficiently produce the key

#### Action

Walmart Sustainable Agriculture Introduction

Walmart Sustainable Agriculture Key Food Commodities

Walmart Sustainable Agriculture Supporting Farmers and their Communities

#### Also of Interes

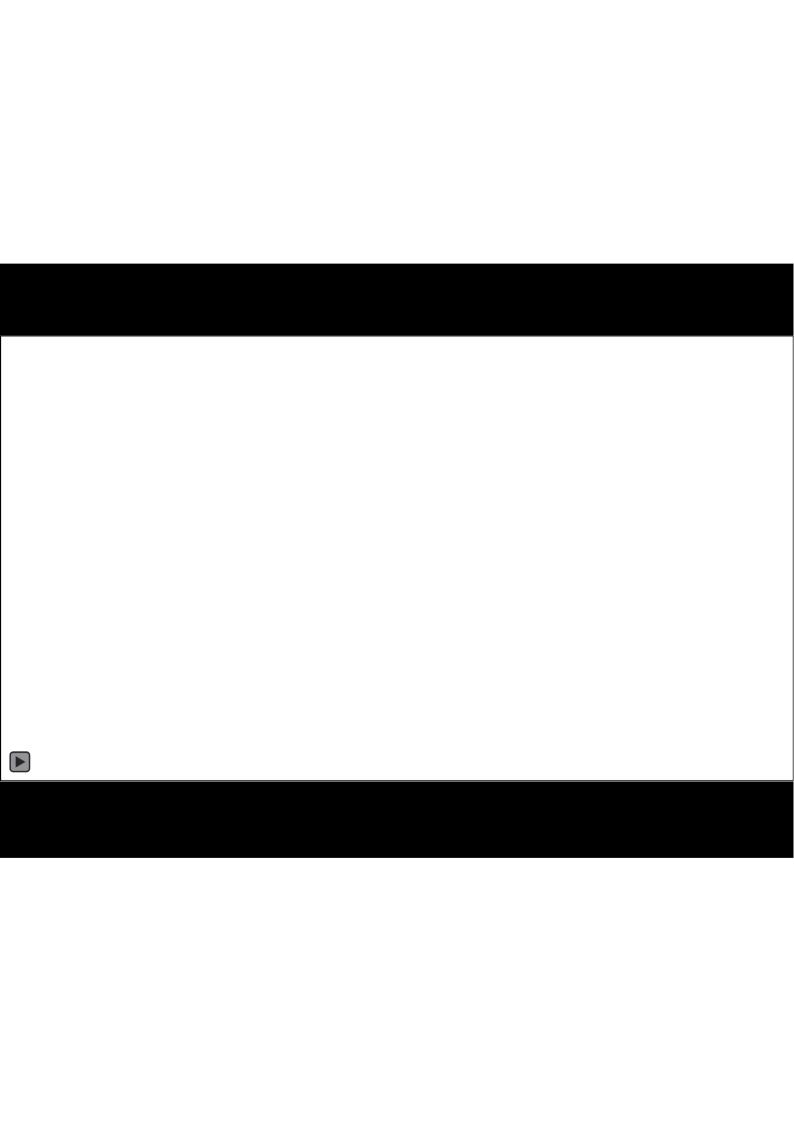
Our Goals - Our three sustainability goals

How to Make a Difference - How can you help?

How to Make a Difference - Reduce food waste

Success Stories - Sharing our success

GHG Innovation - Share what you've achieved

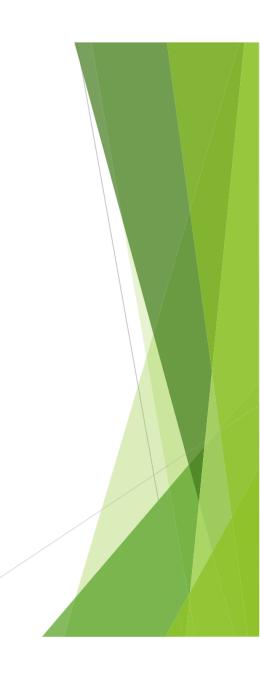


# Industry Policy Insights

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## **Policy Perspectives**

**Industry Policy Insights** 



# Policy Challenges for Fertilizer Production

Rosemary O'Brien Vice President, Public Affairs

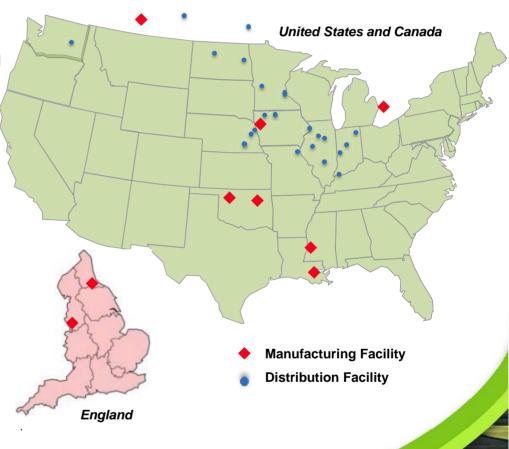
Fertilizer Outlook and Technology Conference November 10, 2015



## Feeding the Crops that Feed the World



- CF Industries is a global leader in the manufacturing and distribution of nitrogen products
- Serves agricultural and industrial customers
- 2,400+ employees
- Nine nitrogen complexes in four states, two Canadian provinces, and the UK
- Over \$4 billion is being invested in expansion projects in Port Neal, IA and Donaldsonville, LA





#### **OCFIndustries**

### **Greenhouse Gas Regulations**

U.S. State of Play



versus



But, ultimately, it will come down to . . .





#### **Ozone Standards**



More stringent standard, but industry breathes sigh of relief

**75** 

**→** 

70

parts-per-billion

parts-per-billion

#### **Transportation**

 PRODUCTION DISTRIBUTION

Policy Challenges for our Distribution





**Pipeline** 



Rail

**©CFIndustries** 



Truck



**Barge** 







Federal agency representatives tour the training center.

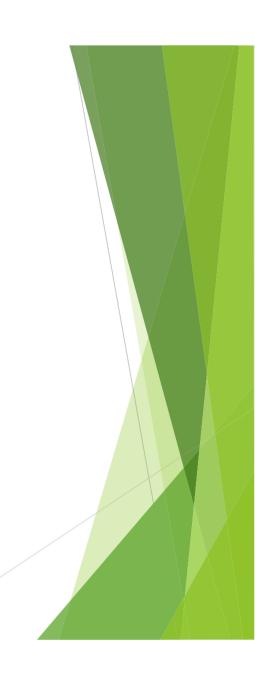


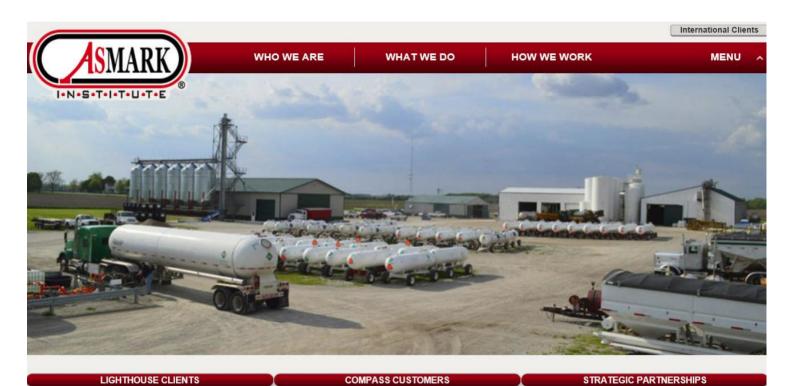
Retail facility gets certified.



## Jean Payne

Illinois Fertilizer Chemical Association





COMPASS CUSTOMERS

Helping you find your way one regulation at a time.

Enter here

Navigate the regulations!

Enter Snapshots here

STRATEGIC PARTNERSHIPS

Altogether Better!

More Info

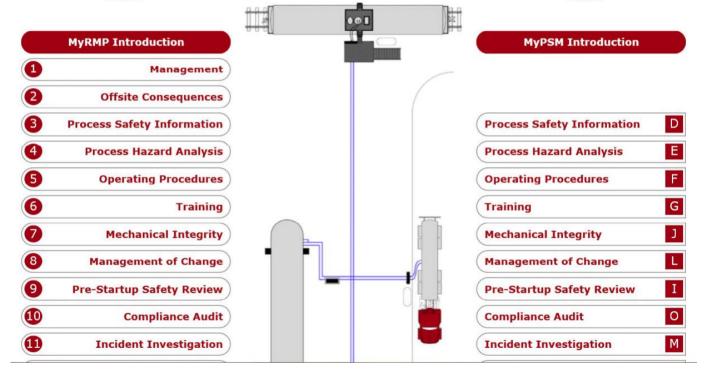


Tutorial

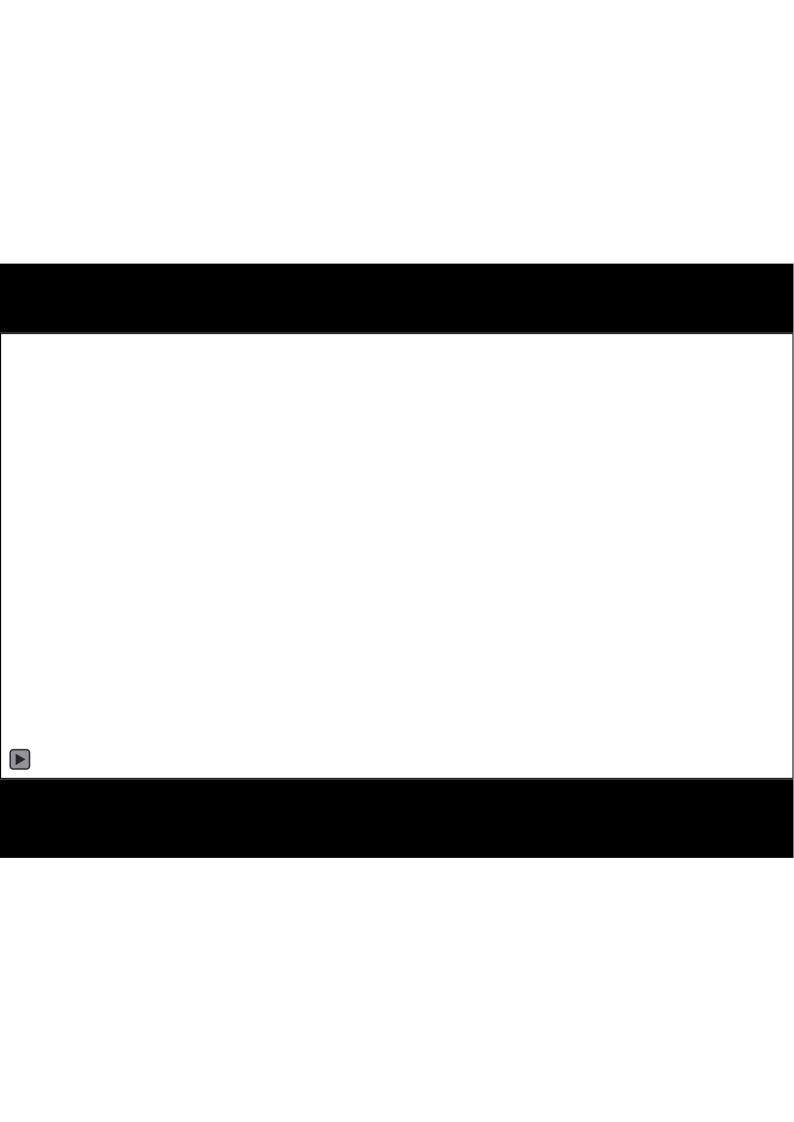


#### MyPSM Suite of Guidance Materials

Tutorial







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#### **External Pressures**

**Industry Policy Insights** 



## Industry Reputational Challenges...









## Reputation is not Static - It Must be Earned and Maintained

"Brands are fragile and they fail. Sometimes brands that are loved are also least liked. No brand is stable—they're either rising or declining."

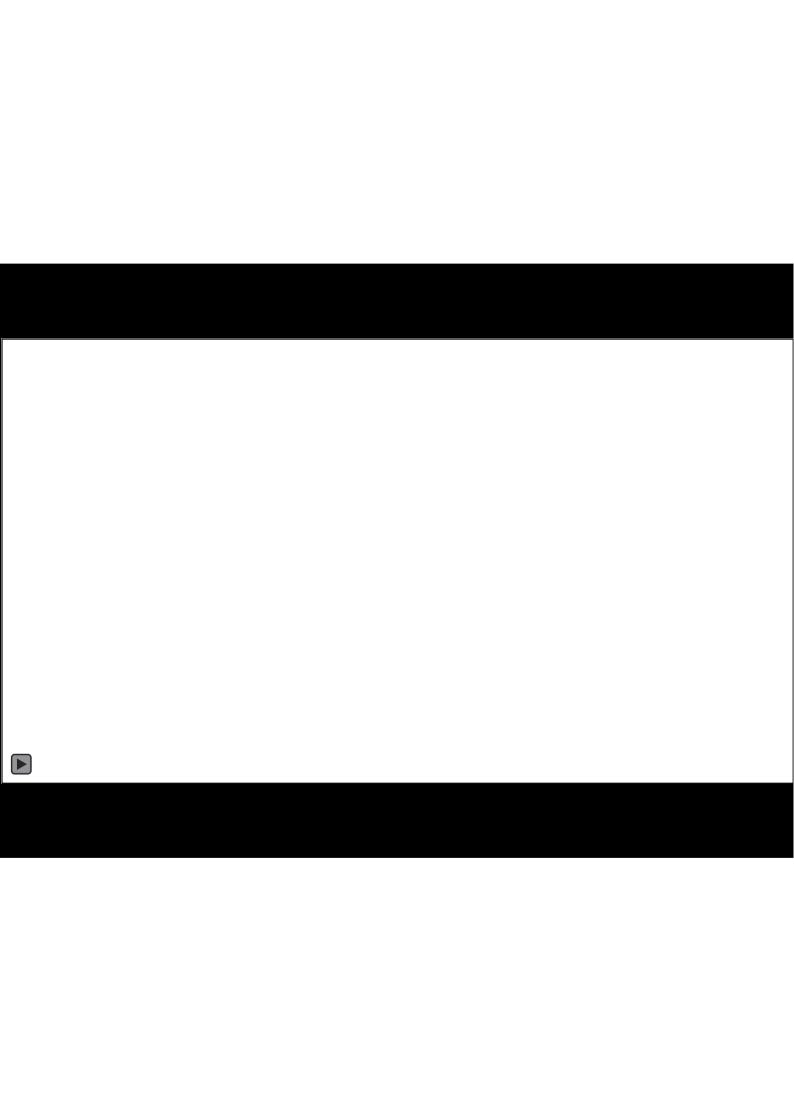
Michael J. Silverstein, senior partner at Boston Consulting Group

# What about Fertilizer's Role in World Food Production?

### Social Media -Cultivating a World of Silos and Tribes







"People don't care about how much you know, until they know how much that you care."

Dr. Vincent Covello
Director and Founder, Center for Risk
Communication

### Building our Brand Means Showing We Care





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