

November 29, 2017

# Today's Guest Speakers



**Lisa Ellram,** Ph.D. Distinguished Professor of Supply Chain Management, Miami University, Ohio

**Daniel Perry** *Senior Account Executive EcoVadis* 

Additional discussion:
Buddy Polovick, EPA SmartWay
Irene Queen, SmartWay CSR Analyst









# Outline for Today



- Emerging trends and challenges
- Corporate Social Responsibility (CSR) in the freight supply chain
  - Barriers, links, & solutions



- Environmental, social and governance (ESG) strategy
  - Risks and performance assessment
- Takeaways, questions and discussion

# Freight Supply Chain's Dynamic Landscape



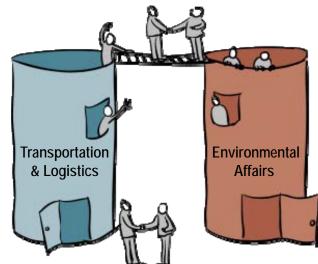
- Globalization and competition
- Consumer demands, technology, regulation
- Risks and rewards
- Value opportunities for customers and shareholders



# Freight and CSR: Barriers and Opportunities



- Where does CSR fit in firm's priorities?
- Challenges of data access & reporting
- How is the freight supply chain "material"?
- Opportunities to reduce energy use and costs while increasing efficiency and competitiveness









# Why freight transportation is important to CSR and the environment

Lisa M. Ellram
Rees Distinguished Professor of Supply Chain Management



FARMER SCHOOL OF BUSINESS

# The "real" Miami University



# **Brief Agenda**

- Why do I care about freight transportation emissions?
- Some barriers to focusing on emissions reduction
- How to overcome barriers and get full benefit

# My interest and concerns

- Research in sustainability in 1990s
  - Sometimes there was not much to study
- Study of CSR reports 2008-2010
  - Little on transportation

# My interest and concerns

- Focus specifically on transport sustainability
  - Looked specifically at companies recognized as leaders
    - Carbon disclosure project, EPA SmartWay and Global Environmental Management Initiative; Fortune 500
  - Yielded 76 companies that were in both CDP & GEMI; included all SW
  - Scoured websites, CSR reports and Annual reports for any mention of transport emission
    - 44 had some mention
    - 25 specifically mention decreasing impact of freight transportation
  - Very positive about impact on costs, productivity, greater responsiveness (through waste reduction)

# Why isn't everyone working on reducing freight transport emissions?

- Still early in push for green- 2010
- Green house gas protocol
  - Scope 1, 2, 3 reporting back on organizational boundaries
  - 1 internal- direct en sons; own quipment
  - 2 purchased lectricity, heat or steam
  - 3 indirê emissions, including purchased transport, product use
- Internal focus

# Barrier #2- Magnitude is confusing

- New Belgium- thought transport, was refrigeration
- Others outsource all shipping---not my problem
- Often invisible
- Second in overall impact only to generation of energy
- Something nearly all companies have!
- Huge potential

### Barrier #3- Has not received as much attention

- Low stakeholder pressure
  - "If my customers demanded it, I would do it," B2C company
- Mainly outsourced--- (outside of scope 1)
  - Lack of expertise on how to improve

# Barrier #4- Lingering belief that being green costs money

- Can't afford it
- Some types of green transport can be expensive
  - Verify latest technologies for payback
  - Attractiveness changes with Diesel pricing
- Biggest benefits attributed to: behavioral changes
  - Driving
  - Packaging
  - Routing

### To overcome barriers

- Visibility of impact from corporations
- Success stories
  - Websites
  - CSR reports
  - Advertising
- Partnerships like EPA SmartWay
  - Educate, provide tools
  - Encourage and support carriers to join-- shipper

# **Company Success Story**

- Air products (own fleet 700 trucks)
- Specific transportation activity
  - Replacement of pre-emission engines
  - Increasing the amount of product loaded in each trailer
  - Improving miles per gallon through driver behavioral programs
- Outcomes
  - Significantly reduced our emissions of CO2 (12%), NOx (83%) and PM (97%) per loaded mile since 2009.
  - Cumulative emissions avoided of 43,000 tons CO2 e, 2,000 tons NOx and 280 tons of PM (2009-2015).

### **Method Products**

- Maker of soaps and cleaning products
- Green transport very important platform for them
  - Joined SmartWay- SmartWay Carriers
  - Purchased biodiesel trucks for their primary carrier
  - Work on improving all aspects of transport efficiency, package light weighting
  - Local sourcing
- Report results on website
  - <a href="http://methodhome.com/blog/greenskeeping/biodiesel-fleet/">http://methodhome.com/blog/greenskeeping/biodiesel-fleet/</a>
- Emissions education information on outside of trucks/trailers
  - In process of being acquired by SC Johnson



http://methodhome.com/blog/wp-content/uploads/biodiesel\_back\_side.jpg 19

# Huge area of potential impact

- As more companies require SW certification of carriers, it will become pervasive
- Way to have a huge impact on one of the largest sources of scope 3 emissions of your company
- Excellent place to start in tackling scope 3
- Win for your organization and the environment







# Environmental Social and Governance Risks Facing Freight Industry



#### Derailed train caused one of the biggest ethanol spills on record

The crash is 1 of 9 "notable major" railrelated ethanol spills for the years

between 20 gallons of e the crash, surrounded

#### Ikea truck drivers found to be paid less than £3 an hour

Ikea and sev under fire af Europe have vehicles for l

#### How shipping hubris and the Korean govt broke Hanjin

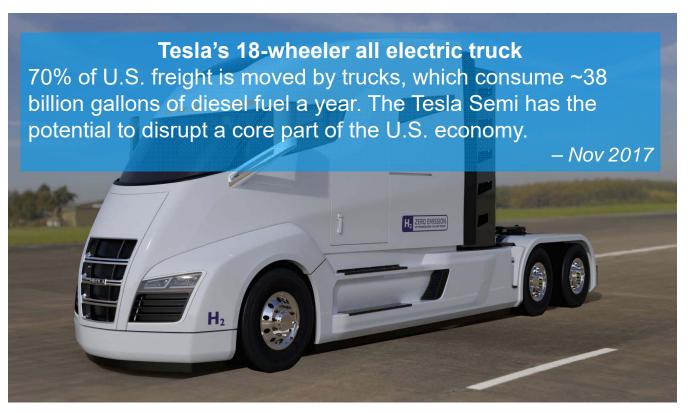
found that lo The company's demise is largely due to overcapacity; wild growth in the number and capacity of container ships has outstripped the amount of goods to be carried as global trade has slowed. The industry as a whole will lose as much as \$10 billion this year...

- Sept 2016



# Environmental Social and Governance Risks facing Freight Industry

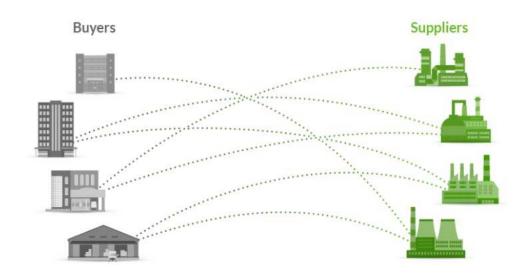






# How Can Companies Understand Freight Suppliers ESG Performance?





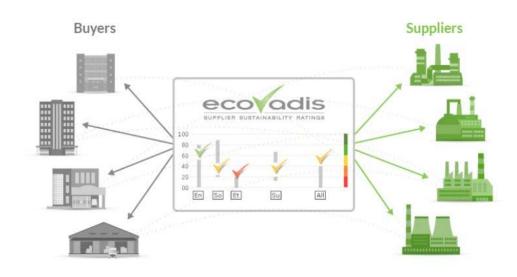
## Challenges

- × Duplication of efforts
- × Lack of consistent quality



# 3<sup>rd</sup> Party Corporate Social Responsibility Assessments





### **Benefits**

- ✓ Risk reduction
- Reduce costs



- ✓ Protect brand image
- Market Advantage



# CSR Methodology: 4 Themes, 21 Criteria



#### I. ENVIRONMENT

Energy Consumption & GHGs
Water
Biodiversity
Local & Accidental Pollution
Materials, Chemicals & Waste

Product Use Product End-of-Life Customer Health & Safety Sustainable Consumption

#### III. ETHICS

Corruption & Bribery Anti-Competitive Practices Responsible Information Mgmt

#### II. SOCIAL

Employee Health & Safety
Working Conditions
Social Dialogue
Career Management & Training

Child & Forced Labor
Discrimination and/or
Harassment
Fundamental Human Rights

#### IV. SUPPLY CHAIN

Supplier Environmental Practices Supplier Social Practices





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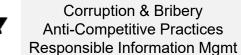
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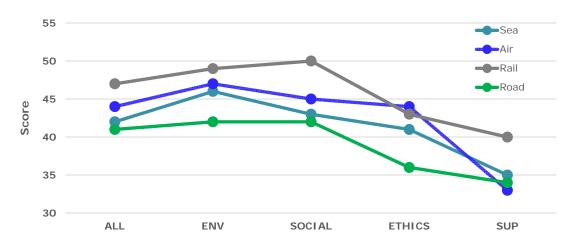
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# Freight Performance by Industry







Top scoring in 3/4 themes





Most improved Freight Industry





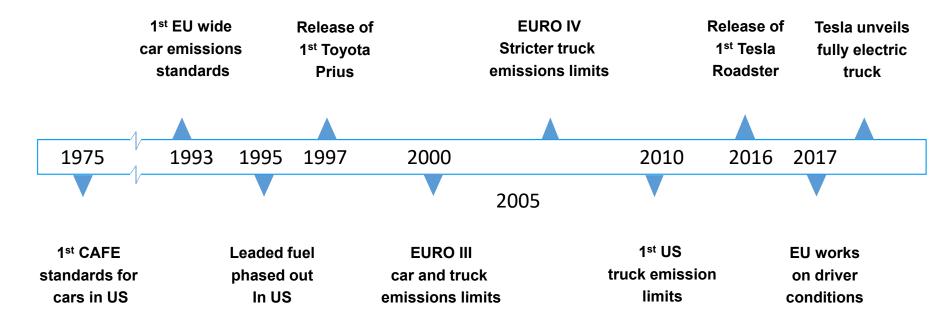
Road represents 88.5% of Freight Assessments



# Key Trends – Road



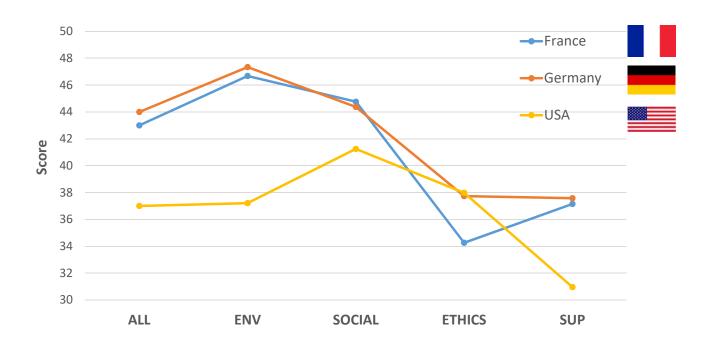




# Top Performing Countries – Road Freight







# Activities of a Risky Company





#### Risky company



No endorsements



Patchy documents



No certificates



Negative news

Warrant sought for driver in crash that killed 4-year old girl

– Nov 2012

OSHA penalties for H&S violations

- Mar 2015

# Activities of an Industry Leader





#### **Industry Leader**



UN Global Compact EPA SmartWay



Code of Conduct CSR report



ISO 14001 or 50001 OHSAS 18001



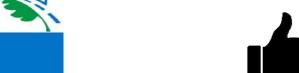
No news CSR related awards EURO Label for Sustainable Transport awarded

- Feb 2015

Companies with the most workers age 50 and over

- May 2012

# Case Study – US Freight by Road Supplier: Circa 2014









- ✓ Waste & GHG reporting
- ✓ Employee handbook
- × No sustainability report
- × No Code of Conduct
- × No environmental policy



× No certificates



No news

# MODERATE RISK

# Case Study – US Freight by Road Supplier: Today









- ✓ Code of Conduct
- ✓ CSR report
- Report on labor and suppliers
- ✓ Policies on all themes



✓ ISO 14001 certificate



✓ Awards for diversity





# Summary of Freight Industry EcoVadis Assessments



1704

Total assessments 2012-2017

77.8%

Re-assessments increased in score

88.5%

Freight assessments for road

#### **RESULT:**

Procurement is Driving
Positive Change in
Freight Industry Sustainability



# **Key Takeaways & Findings**



- Risk, barriers and opportunities
- Common platforms and protocols
- Can a firm outsource responsibility?
- Challenges of connecting silos
- CSR a changing spotlight
- Value, brand, and reputation
- Measure, manage, report, repeat

# Questions?





















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