

Sustainable Freight: Creating Better Efficiencies in the Supply Chain

U.S. Environmental Protection Agency SmartWay Partnership SmartWay Freight Matters! March 30, 2016 2-3 pm

Webinar Logistics





If you experience technical difficulties, please contact Christine Cho at: Christine.Cho@erg.com





Linking Freight Efficiency & Supply Chain Performance

Denise Kearns
US EPA SmartWay Partnership
SmartWay Freight Matters!
March 30, 2016
2-3 pm

SmartWay Freight Matters Webinar Series Panelists





Denise Kearns
U.S. Environmental
PROTECTION AGENCY
SMARTWAY TRANSPORT PARTNERSHIP



Joe Tuturice
ASSOCIATE DIRECTOR
TRANSPORTATION & LOGISTICS
MONDELEZ INTERNATIONAL



Steve Raetz
Director
Research & Market Intelligence
C.H. Robinson

Freight in the Supply Chain



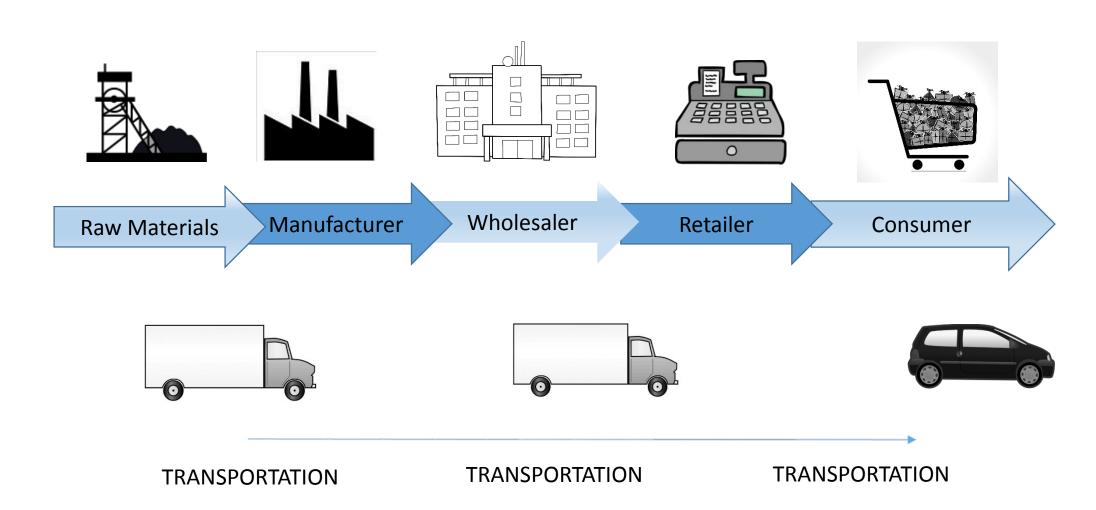
- The link between freight and the supply chain
 - Transportation in the traditional supply chain
 - Transportation in an integrated supply chain

Challenges achieving sustainable freight transport

How SmartWay helps

Transportation in a traditional supply chain





View of an integrated supply chain





Transportation in an integrated supply chain





Challenge in achieving sustainable freight transport



Product Demand & Retail Inventory Management

 Product flows, including volume, frequency, seasonality, physical characteristics, and special handling requirements

Escalating Customer Expectations

- Next or same day delivery, geographic locale, reduced environment impacts, carbon accountability

Delays & Delivery Constraints

 Congestion, delivery curfews, labor shortages, limited storage capacity at customer depots; inbound, interfacility and outbound lane coordination & outbound activity; restricted delivery windows

Internal company support

- Lack of support to include freight in long-term planning, focus on short term gains, inability to connect freight activity to customer service and inventory reduction

POLL: Which issue poses greatest challenge to improving freight sustainability in your organization?



Product Demand & Retail Inventory Management

Delays & Delivery Constraints

Escalating Customer Expectations

Internal company support

How SmartWay helps achieve freight sustainability



Raise awareness around changes

Recognition

Share best practices

 Tools to assess and communicate environmental performance

 Platform for collaboration



Transportation Sustainability





FROM FARM & FIELD TO YOU Our 2020 Sustainability Goals in Action

Our 2020 Sustainability Goals focus our efforts on areas where we can have the greatest impact and deliver meaningful change: on the farm where our ingredients are grown and in our manufacturing facilities where our snacks are made and packaged.

Company Commitment & Sponsorship

ISC 2015 Sustainability Platform

Beyond the global goals, we will tap the potential of Sustainability as a driver of waste reduction in MDLZ NA via a cross-functional E2E approach

1. E2E Resource Efficiency & Waste Reduction

- Total waste reduction In manufacturing
- An E2E approach will maximize our effectiveness, minimize downstream impacts of upstream efficiency

2. Industry & Supplier Leverage

- In the U.S., \$4 billion + is available in rebates & incentives, dedicated to energy efficiency projects
- Utilities offer +17,000 rebate / incentives for energy efficiency technologies for commercial businesses.

3. Employee Engagement

- 37% companies highlight sustainability in recruiting (MIT/'13)
- 57% private sector managers expect employee interest in sustainability (MIT/'13)
- 96% Gen-Y want environmentally aware workplaces (Johnson Controls/'10)



The NA Transportation Strategy is built on 3 Key Platforms

EFFICIENCY: Utilization & Fewer Miles

Removing miles from the system through improved routing & load optimization

EFFECTIVENESS: Technology & Cleaner Miles

 Utilizing more fuel efficient transportation methods to route product to market

EXTERNAL LEVERAGE: Expertise Thru Industry Engagement

 Drive the sustainability platform both internally and with external partners and industry peers

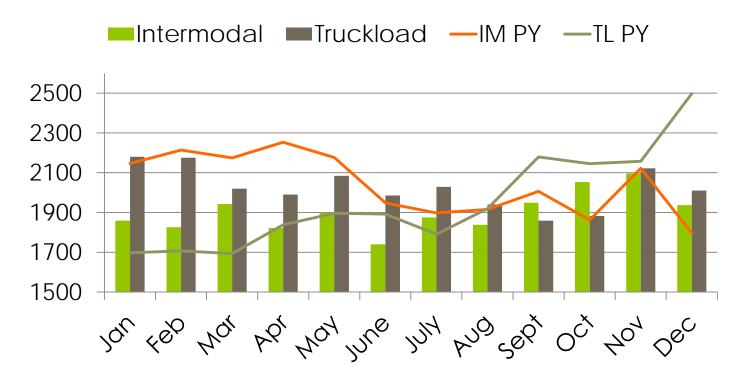
2015 Goal: reduce GHG emissions by 9,005MT

2015 CO₂ Savings Targets

	Initiative	CO_2 Reduction Target (in metric tons)
	Trailer Utilization	325
*	Pallet Specification - York & Monterrey	115
*	Logistics Sourcing	1,126
	Seasonal Refrigeration	927
	Reefer Burn Rate Change	2,114
	Intermodal Utilization	3,123
	DSD Fleet Idling	239
*	Modal Conversion - BDC	947
*	Modal Conversion- Victoria & Puebla	89
	Total	9,005



Cube Performance*





Owner: B. Behringer

Trailer Utilization

- Overview: Increase average trailer utilization to reduce total loads shipped
- Timing: February 2015

Mileage Savings (TL)	165,634
Mileage Savings (IM)	40,653
Fuel Savings (gal)*	31,839
CO2 Savings (m tons)	325

Just how much is 9,005 metric tons of CO₂?

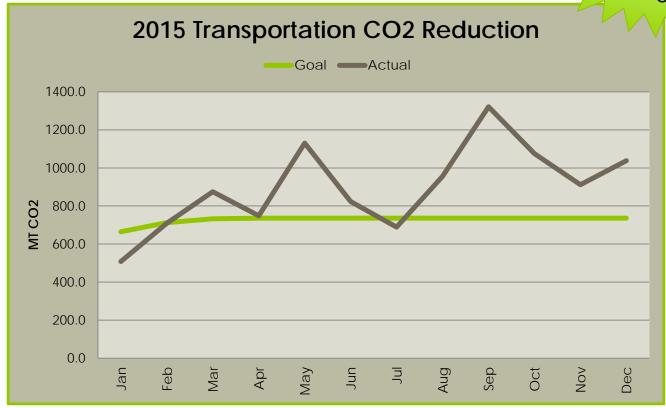
Annual greenhouse gas emissions from



Source: **EPA GHG Equivalencies Calculator**

YTD Summary

Exceeded Fy
goal by 18%
or over
1.000MTCO



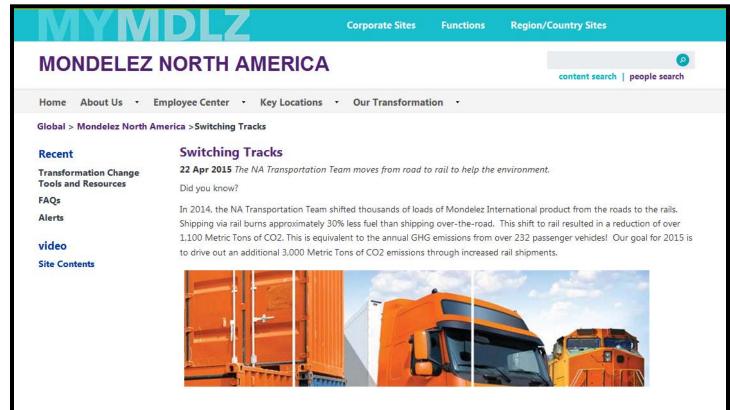
SmartWay Recertification

- Recertified as a SmartWay Shipper Partner for 2016
- Able to display SmartWay logo*
- Eligible for Smartway Excellence Award



Earth Week Intranet Communication





Customer Collaboration

External Engagement: Wal-Mart Reporting



Several contributing factors, including
Transport GHG Emissions





External Engagement: Canadian National



One of 10 Companies awarded as a Leader in Sustainability by the Canadian National EcoConnexions Partnership Program. 2015 & 2014



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Steve Raetz

Director, Research & Market Intelligence

C.H. Robinson

EPA SmartWay Webinar March 30, 2016





C.H. Robinson – Sustainability Overview

CSR Perspectives

We believe in being a good corporate citizen, using our resources wisely, and investing in programs and organizations that are making a positive, sustainable impact.



- C.H. Robinson Worldwide Foundation
- Corporate events
- Local events
- Volunteerism
- Sustainability







Our Customer: A Natural Foods Company

- Global organic foods company
- A Leader in non-GMO verified foods in North America
- Products available in a wide variety of retailers
- ~80% of ingredients are sourced in North America
- Three manufacturing locations: 2 in United States, 1 in Canada
- ~400 employees

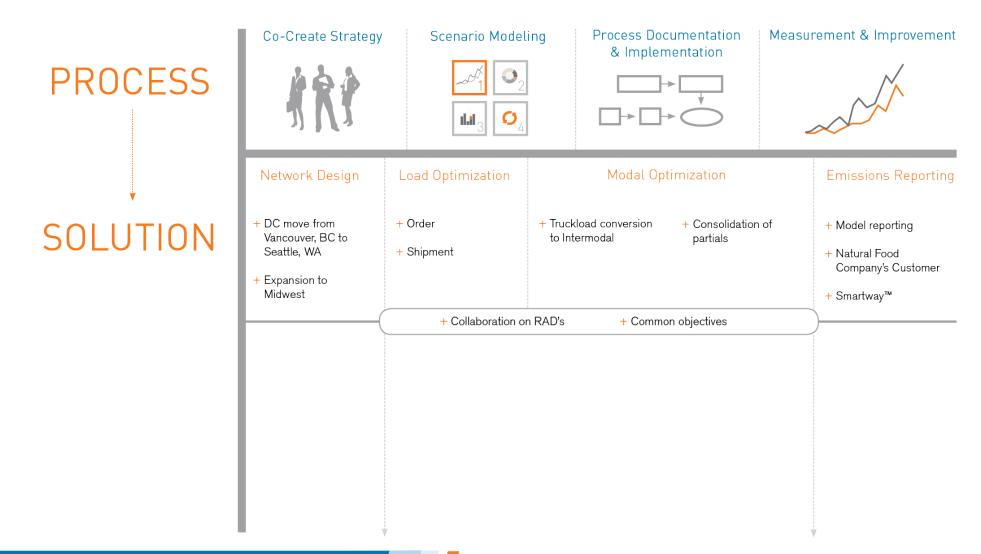


Road Map to Success

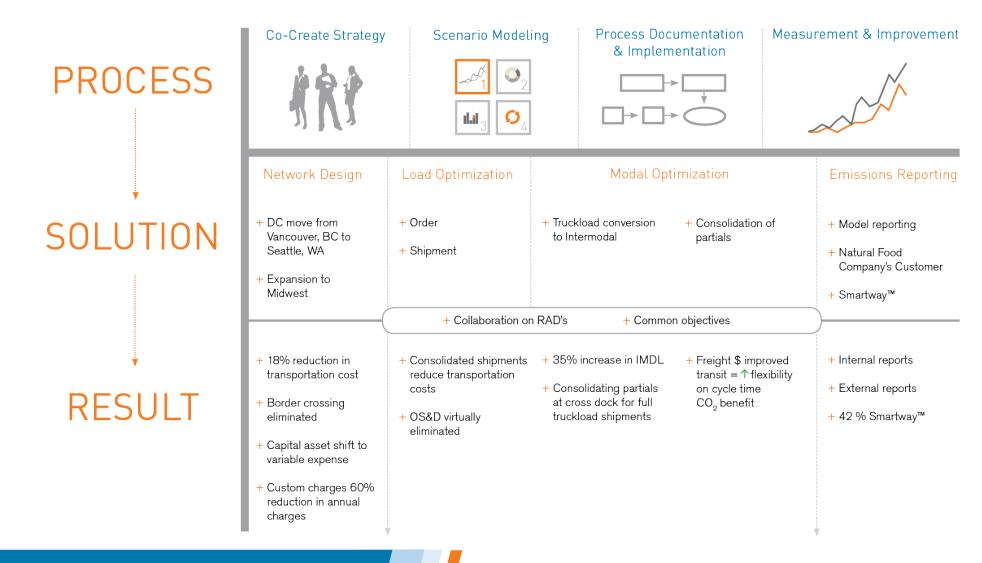
PROCESS



Poad Map to Success



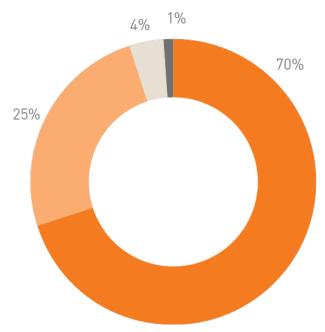
» Road Map to Success



Overview of Savings and CO2 Reductions

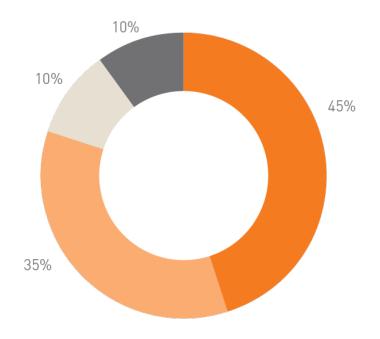
Percent of cost savings





Savings in total lbs CO₂





Customer Types Using Emissions Reporting

- Automotive
- Transport and Warehouse Services
- Electronics
- Retail
- Food and Beverage
- Paper and Paper Products
- Chemicals

Thank You



Questions?