

Livable Streets vs. Deliverable Streets

Wednesday, May 17, 2017



Today's SmartWay Speakers



Kathleen Martz

SmartWay National Regions Manager

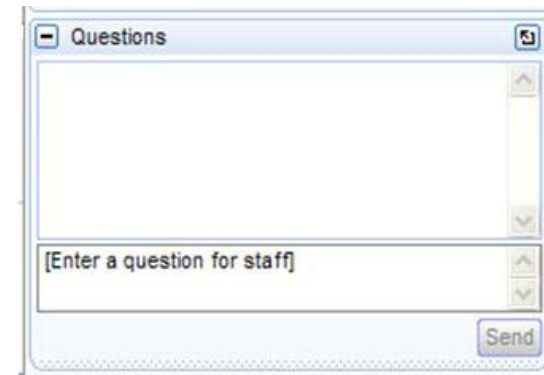
Irene Queen

ORISE Participant/
Corporate Social Responsibility Analyst

Webinar Housekeeping



- Submit a question via the Questions box on your GoTo control panel.
- After the presentation, as time permits, our EPA presenters will answer questions submitted via the Questions box.



Webinar Housekeeping



The presentation slides and recording will be available at:

<http://www.epa.gov/smartway>
(select the “Past Webinars/Events” tab)

Introduction

- Demand for goods is increasing
- Impacts
- Environmental and social impacts
- Strategies

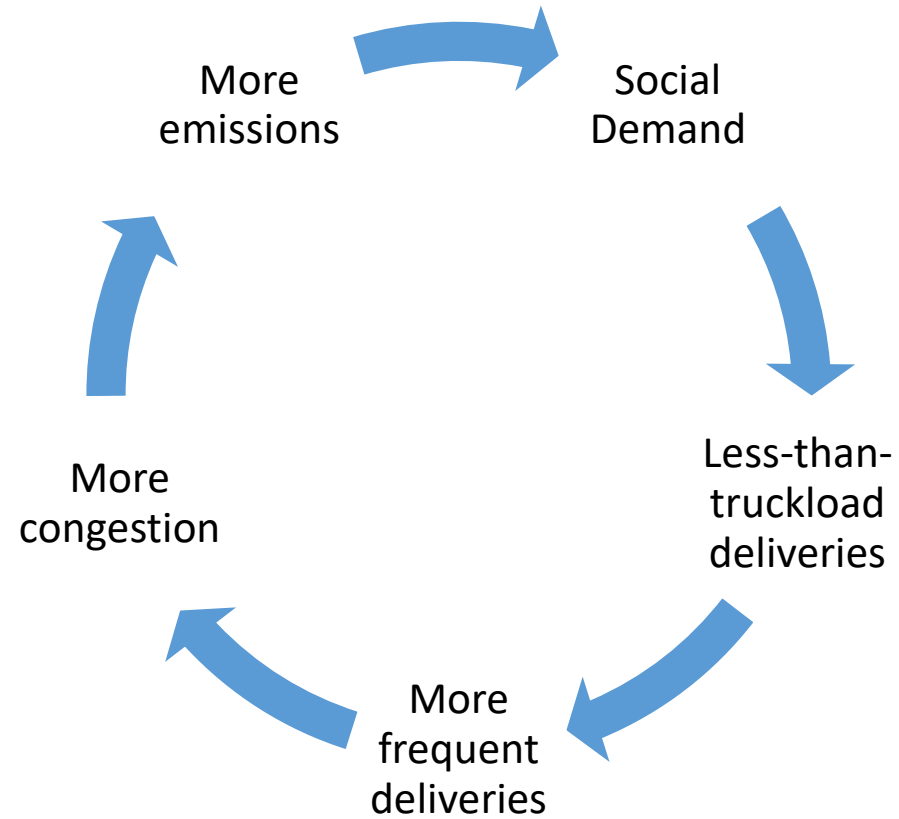


Competing uses – limited space



- Growing population
 - 2010 - over 80% of population living in a metropolitan area in United States, Canada and Europe
- Online sales growing 3x faster than traditional retail sales
- Just-in-time deliveries require more frequent and customized deliveries
- Millennial and aging population driving new demands
- Essential delivery services often neglected in planning

Congestion, efficiency, air quality



Question



- Think of some product that was recently delivered to your home or business:
- How was that product transported?

- _____
- _____
- _____





Trivia

How many deliveries can be expected per day by a large office development?

1. 50
2. 100
3. 200



Trivia

How many deliveries can be expected per day by a large office development?

1. 50
2. 100
- 3. 200**

The “last mile”



- Congested traffic
- Bottleneck to economic growth
- Greater exposure to emissions
- Accounts for up to 28% of all transportation costs

Congested traffic and air quality impacts

Public Health Impacts of Freight

- Diesel Particulates
- Permeate lungs, bloodstream
- Aggravates asthma, lung function, heart conditions
- Likely carcinogen

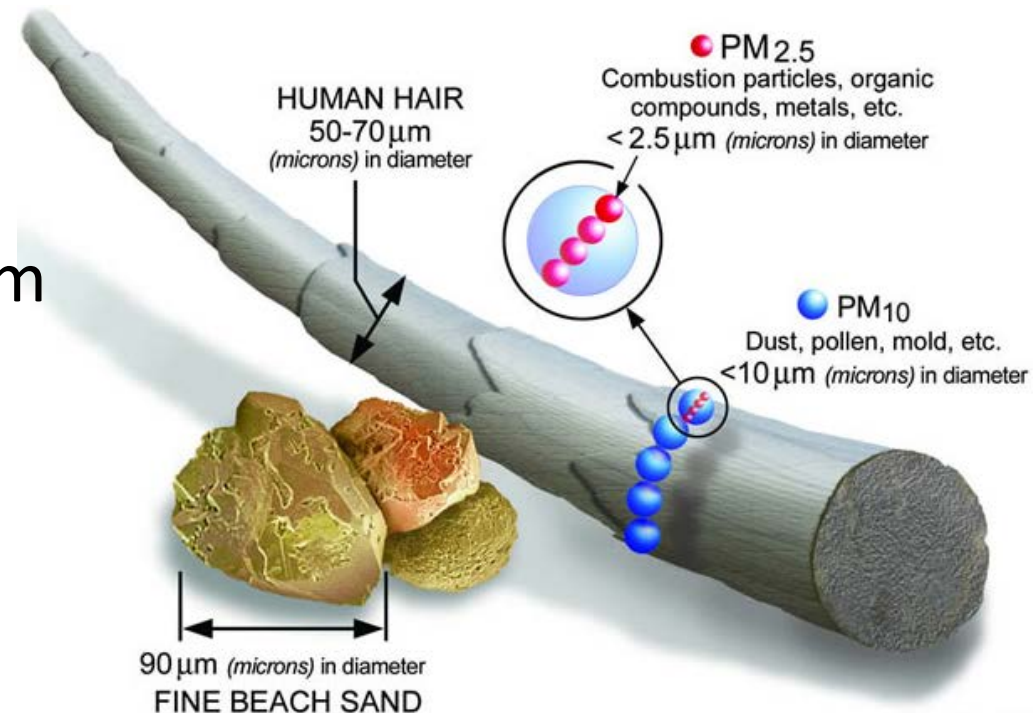


Image courtesy of the U.S. EPA

<https://www3.epa.gov/airquality/particlepollution/basic.html>

Business impact



- Roadway congestion delays cost the trucking industry 63.4 billion in 2015
- Failure to invest in infrastructure restricts growth.
 - Revenue loss in business sales
 - Job loss -when infrastructure doesn't keep pace with growth

Buildings' impact



- Multi-tenant vs single tenant buildings
- Multi-tenanted buildings mean more deliveries than single tenanted ones.
 - Longer dwell time
 - Longer on-street lines
 - More noise, pollution, and safety impacts for local residents

Delivery impacts



- Bike lanes, bus stops, bike docking stations can create challenges to trucks which need access to curbs to unload
- Results in:
 - Double-parking
 - Cruising for space



What are the goals?



Freight Transporters

- Speed of delivery
- Fuel efficiency
- Cost savings
- Satisfied customers
- Sustainable business

Planners

- Safe streets
- Clean air
- Strong economy
- Quality of life
- Sustainable cities

Transporters & Planners both want:

- To reduce accidents
- To decrease urban congestion
- To conserve resources
- To improve resiliency

We begin by...



- Defining problems
- Collaborating and planning solutions with:
 - City planners
 - Federal, local, regional agencies
 - Freight transporters
 - Citizens
- Using transportation surveys, models, and regional master plans

Each community's
solution will be unique

And then identify:



- Geographic scope of problem
- Objectives
- Constraints
- Root causes of problem
- Time-duration of problem

Strategies--Buildings and infrastructure



- Shared logistics staff
- Right-sized and right number of loading docks
- Off-hour delivery capability with on-site storage
 - Influences when trips occur
 - Reduces impact on the street network.
- Vertical freight (elevator) capacity
- Zoning and building codes and other incentives for voluntary action
- Secure off-hour holding areas

Strategies-- Local Government



- Electric and/or Hybrid Delivery Vehicles
- Prioritized right-of-ways for efficient storage, movement and delivery of goods between close-in warehousing and industrial districts in the downtown core
- Develop partnerships with logistics service providers AND private sector entities with innovative technologies for improving freight and goods movement efficiency in the central city



Portland Bureau of Transportation





Strategies— pick-up centers in communities



- Construction of consolidation centers
- Development of off-hour delivery policies



Strategies-- Partnerships

- Pursue long term relationships based on carefully selected, suppliers, carriers, and logistic companies which have committed to reduced impact
- Collaborate with affiliates who share a philosophy of sustainability
- Incorporate delivery sites into housing development; provide incentives or policy requirements
- Strategies
 - Update loading docks
 - Build to accommodate higher volumes and larger vehicles
- Change consumer behavior/attitude
 - Marketing
 - Social norms

Strategies-- Partnerships

Transportation & Climate Initiative (TCI)



- States work together to promote sustainable communities
- Expand transportation options
- Promote economic prosperity
- Enhance natural resource protection
- Strengthen communities
- Minimize environmental impacts
- State-level transportation policies - smart-growth land-use planning, sustainable development concepts, community development, economic growth, and housing and land-use agencies at federal, local, and regional levels



**TRANSPORTATION &
CLIMATE INITIATIVE**
Of the Northeast and Mid-Atlantic States

Strategies--Partnership



- Voluntary, cost-free, partnership
- Developed with the freight transportation industry to highlight technologies and improve fuel efficiency, that results in emissions reductions
- Has tools that help companies establish baselines and measure progress towards efficiency goals





https://www.epa.gov/smartway/smartway-carrier-performance- SmartWay Carrier Performa...

Partners and Affiliates

- Partner List
- Affiliates List
- SmartWay Charter Partners
- Carrier Performance Rankings**
- SmartWay Excellence Awardees
- SmartWay Affiliate Challenge Honorees
- Use the SmartWay Brand
- Global Collaboration
- SmartWay Latest News

The Performance Rankings Spreadsheets ranks all SmartWay Carrier and Logistics Company Partners by their performance levels. These Microsoft Excel files contain SmartWay fleet rankings and performance metrics.

NOTE:

- **Performance Rankings Spreadsheets** have been formatted for ease of viewing and include built-in sorting capabilities. [Free Viewers](#)
- **Raw Data Spreadsheets** have not been formatted and present all SmartWay data on one tab with column headers. [Free Viewers](#)

Please Note

To SAVE the file to a folder, right-click the file link and select "Save Target As" in Microsoft Explorer or "Save Link As" in Mozilla Firefox or Chrome. Opening the file in the browser instead of saving may render some features unavailable.

Current Reporting Year

The current reporting year makes use of the previous year's data. Therefore, the current reporting year spreadsheets are labeled as "2015 Data Year" files.

Download the spreadsheet(s) to quickly assess the performance of prospective and current carriers.

2015

- [2015 Data Year Performance Rankings Spreadsheet \(XLSX\)](#) (1 p, 906 K)

Past Data Years

2014

- [2014 Data Year Raw Data-Performance Rankings Spreadsheet \(XLS\)](#) (1 pg, 1 MB)

Where's the data?

Planners that are concerned with harmful smog in a localized area can engage shippers that use carriers with lowest g/mile of PM & NOx

How does SmartWay helps achieve freight sustainability ?



- Raise awareness around changes
- Recognition
- Share best practices
- Tools to assess and communicate environmental performance
- Platform for collaboration





SUMMARY

- Demand for goods is increasing
- Impacts from freight movement are increasing
- Strategies are available
- Partnerships are key to sustainable business development





For more information: www.epa.gov/smartway

Kathleen.Martz@epa.gov

SmartWay National Regions Manager

Queen.Irene@epa.gov

ORISE Participant/CSR Analyst

Thornton.Patrice@epa.gov

SmartWay Affiliate Program Manager

