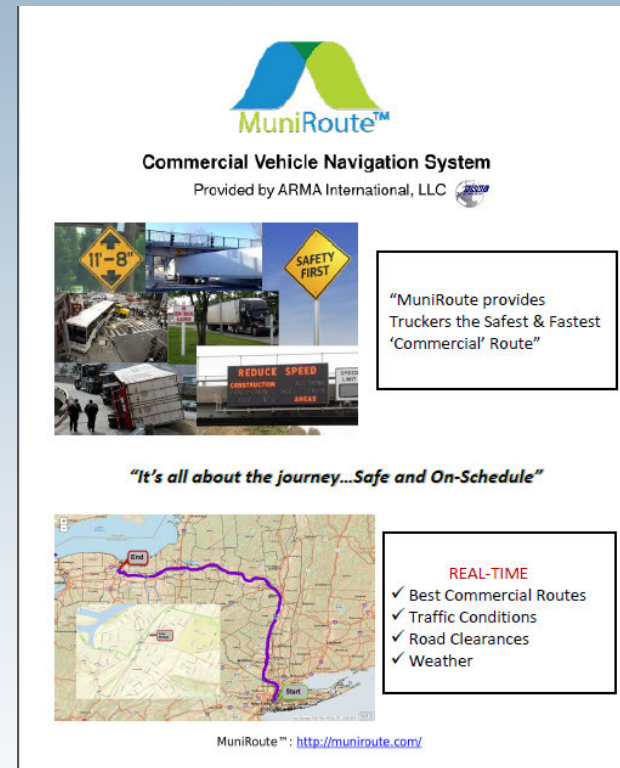


# Interim Review Meeting

## Agenda

- Brief NYSERDA on Project Progress: Phase III
- Feedback & Comments: NYSERDA



The advertisement features the MuniRoute logo at the top, which consists of a stylized 'M' shape in blue and green. Below the logo is the text 'Commercial Vehicle Navigation System' and 'Provided by ARMA International, LLC'. The central part of the ad is a collage of images: a yellow diamond sign with '11'-8"', a yellow diamond sign with 'SAFETY FIRST', a white sign with 'REDUCE SPEED CONSTRUCTION AREAS', and a truck on a road. To the right of this collage is a text box that reads: "MuniRoute provides Truckers the Safest & Fastest 'Commercial' Route". Below the collage is the slogan "It's all about the journey...Safe and On-Schedule". At the bottom left is a map showing a purple route between 'Start' and 'End' points. To the right of the map is a text box with the heading 'REAL-TIME' and a list of features: 'Best Commercial Routes', 'Traffic Conditions', 'Road Clearances', and 'Weather'. At the bottom of the ad is the website URL 'MuniRoute™: <http://muniroute.com/>'.



# Phase III Activities

## Task 11: Code Adjustments

- Addition of Route Requirements & Views
- Addition of Cross-browser Support

## Task 12: Final Testing

- Web Application: User Routing Analysis Features
- Expanded Pilot Case Study & Network Dataset

## Task 20c: Marketing/Biz Development Plan

- Planning FHWA Freight Program & Webinar
- Small Biz Center – Research Center
- ‘MuniRoute’ Trademark Application
- High-Efficiency Truck Users Forum (HTUF)



# Code Adjustments

Modifications to the MuniRoute Web Application:

## 1. Expanded Route Requirements & Views:

- Analysis Settings: Customize Route Time vs Distance
  - Enable Selection of Preference for (a) Primary, Secondary; (b) Local
  - Specify Desirable Minimum Speed
- Layers: Map Details, i.e., roads, bridges, etc.

## 2. Adjusted for Cross-Browser Support:

- Internet Explorer 10.0 and higher
- Mozilla Firefox
- Google Chrome
- Safari

## 3. Tested All Controls



# Code Adjustments

## MuniRoute Web Application User-Interface

**Route Solver:** MuniRoute

**Vehicle Parameters:**

Type: Passenger Car

Weight (tons):

Height (ft.): Speed (mph): 65

Haz. Material: none Code:

**Route ID:** Route 1 **Bookmarks:** New York State

**Route Definition:**

Origin (Address, City, State, Zip):

Destination (Address, City, State, Zip):

**Analysis Settings:**

Impedance: Minutes  Use Hierarchy

Height  Weight  Speed  No Trucks

**Layers:**

Basemap  Streets  Bridges  Counties

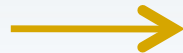
Weights  Widths  Speeds  Total Lanes

Directions  Road Class  Routes

**Directions:**

**Addition:**

Analysis Settings Section



**Addition:**

Layers (Map Detail)

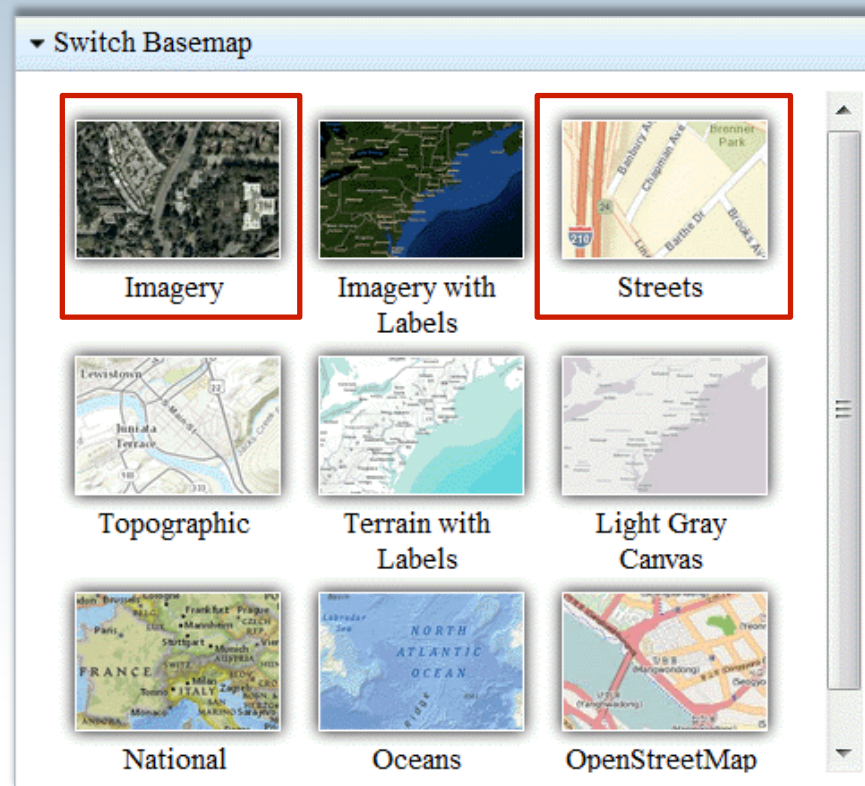


# Code Adjustments

## Basemap Section:

Various basemaps which the user can select to provide context.

**\* Most Common**



# Code Adjustments

## Vehicle Parameters Section

Information specified by the user to describe the type of vehicle that will be traversing the route.

**Vehicle Parameters:**

Type:	Passenger Car	▼	Drop Down List
Weight (tons):			
Height (ft.):		Speed (mph): 55	
Haz. Material:	none	▼	



# Code Adjustments

Route ID Section → Bookmarks Feature

Route ID is used to create and bookmark saved Routes.

Route ID:
Route 1
<b>Route 1</b>
Route 2
Route 3
Route 4
Route 5
Route 6
Route 7



Bookmarks:
New York State
<b>New York State</b>
Bushnell Basin
Case Study 1
Case Study 2
Wolf Road
Rotterdam
City of Schenectady
Long Island City
Market Street
Town of Bethlehem
Town of Northumberland

**\*\***Predefined views which the user can display quickly by a simple drop-down selection.



# Code Adjustments

## Route Definition Section

Controls enabling the user to define and manage the route's **origin and destination** points (interactive or entered addresses).

**Route Definition:**

Origin (Address, City, State, Zip):

Destination (Address, City, State, Zip):





# Code Adjustments

## Analysis Settings Section

Parameters which the user can activate or deactivate in generating a route. The ability to allow the user to control the **Analysis Settings** separates MuniRoute from other navigational systems.

### Analysis Settings:

Impedance:   Use Hierarchy  
 Height  Weight  Speed  No Trucks



# Code Adjustments

## Layers Section

Layers which the user can display or not to convey a specific message on the map.

**Layers:**

<input checked="" type="checkbox"/> Basemap	<input checked="" type="checkbox"/> Streets	<input checked="" type="checkbox"/> Bridges	<input checked="" type="checkbox"/> Counties
<input type="checkbox"/> Weights	<input type="checkbox"/> Widths	<input type="checkbox"/> Speeds	<input type="checkbox"/> Total Lanes
<input type="checkbox"/> Directions	<input type="checkbox"/> Road Class	<input checked="" type="checkbox"/> Routes	



# Code Adjustments

## Directions Section

Street by street description of the route.

Directions:	Export
Start at Location 1	0.00 mi
Go west on Harper toward Wind Mill	0.12 mi
Turn right on Wind Mill	0.07 mi
Turn right on Saxony	0.30 mi
Turn right on Van Cortland	0.34 mi

**Distance:** 9.46 miles      **Time:** 22 minutes



# Final testing

- State-wide route generation
- GIS data “cleaning” of Street Network

## Complete Counties:

**Albany, Rensselaer, Saratoga, Schenectady**

Genesee, Fulton, Monroe, Montgomery,  
Orange, Ontario, Orleans, Rockland, Schoharie,  
Wayne, Westchester

## Completed Interstates/Highways:

I81, I84, I86, I87, I88, I90, I278, I287, I295, I390,  
I481, I490, I495, I678, Hwy 17, Hwy 27

**\*\*Taconic Pkwy**









# Marketing / Business Development



## Commercial Vehicle Navigation System

Provided by ARMA International, LLC 



"MuniRoute provides Truckers the Safest & Fastest 'Commercial' Route"

*"It's all about the journey...Safe and On-Schedule"*



**REAL-TIME**

- ✓ Best Commercial Routes
- ✓ Traffic Conditions
- ✓ Road Clearances
- ✓ Weather

MuniRoute™ : <http://muniroute.com/>



# Phase III Remaining Activities

**Task 14: Final Code Adjustments**

**Task 15: Documentation**

**Task 16: Web Site Design**

**Task 17: Web Site Review**

**Task 18: NYSERDA Review Meeting**

