Portland North
Alternative Modes Project

Project Closeout Public Meeting
December 13, 2010
Agenda

- Introductions
- Summary of Alternatives
- Recommended Alternative
- Next Steps
- Questions
Alternatives Analysis

PHASE 1
- Developed Initial Range of Alternatives
- Met with Stakeholder groups and communities
- FTA coordination
- Alternative refinement
  - Alignment
  - Station
  - Cost
  - Ridership
- Screened from alternatives 30 to 6 (with terminus options)
Alternatives Analysis (cont.)

PHASE 2

- Refine data
  - Station locations
  - Station layouts
  - Rail and Road infrastructure
  - Economic
  - Environmental
  - Costs

- Stakeholder Coordination
- FTA coordination
- Screen range of alternatives to 1
Phase 1 Service Area

- **Three service alternatives**
  - Yarmouth
  - Brunswick (Bath)
  - South Auburn (Lewiston)

- **Three route alternatives:**
  - Saint Lawrence and Atlantic Railway (SLR)
  - Pan Am Railway
  - Highways (Bus)

- **Five Portland terminal alternatives:**
  - Bayside (SLR)
  - India Street (SLR)
  - Union Station (Pan Am)
  - Center Street (Pan Am)
  - Monument Square (Express Bus)
Phase 1 Operating Framework

- 22 Roundtrips per Weekday (Train/Bus)
- Service Headways
  - 30 minute peak
  - 60 minute off-peak
- First trip arrives Portland: 6:45 AM
- Last trip departs Portland: 10:55 PM
- Shuttle Bus Service in Portland from all but Center Street rail station
Phase 1 Terminus Options

Portland Transportation Center
Bayside
PULSE
Monument Square
India Street
Union Station
Center Street

Publicly Owned
Pan Am
Track to Rebuild
Yarmouth Rail Service

SLR

Pan Am

Yarmouth
(Exit 15)

Falmouth
(Exit 10)

India Street

Bayside

West Falmouth
(Exit 53)

Yarmouth Jct

Cumberland

Union Station

Senter Street
Bath Rail Service

SLR

Pan Am
Bath Express Bus Service

**Exclusive Bus ROW**

- PULSE
- Falmouth (Exit 10)
- Yarmouth (Exit 15)
- Freeport
- Brunswick
- Bath

**Highway Shoulder Running**

- PULSE
- Falmouth (Exit 10)
- Yarmouth (Exit 15)
- Freeport
- Brunswick
- Bath
Lewiston Rail Service

SLR Pan Am

Bayside
India Street
Falmouth (Exit 10)
Yarmouth (Exit 15)
Pineland East
Auburn Intermodal
Lewiston

Cumberland
Union Station
Center Street
West Falmouth (Exit 53)
South Auburn (Exit 75)
Pineland West
Auburn
Lewiston

MaineDOT
Lewiston Express Bus Service

Exclusive Bus ROW

Express Bus

New Gloucester
South Auburn (Exit 75)
Gray
Falmouth (Exit 10)
Monument Square
Auburn
Lewiston
Falmouth (Exit 10)
Gray
Falmouth (Exit 75)
New Gloucester
Auburn
Lewiston
Monument Square
Phase 2 Alternatives

- **Rail:**
  - Pan Am to Yarmouth
  - Pan Am to Auburn/Lewiston
  - Pan Am to Brunswick/Bath

- **Bus:**
  - Portland to Yarmouth on Highway and Shoulder
  - Portland to Auburn/Lewiston on Highway and Shoulder
  - Portland to Brunswick/Bath on Highway and Shoulder
Bus on Shoulder

- Minimum of 10’ Lanes
- Maximum 35 MPH (or no more than 15 MPH > Mainline)
- On Shoulder Ops (Only to Avoid Congestion)
- Examples
  - Minneapolis/St. Paul
  - Virginia/Maryland
  - Columbus
  - Miami Dade (Pilot)
  - Ottawa
- Some Costs Vary with Funding Source
Proposed Bus On Shoulder Operations

1. 7.0 Mi. NB & SB on Shoulder (rebuilt shoulder)
2. 18.2 Mi. NB & SB on Shoulder (restripe and fill)
3. 9.2 Mi. NB & SB on Shoulder (restripe and fill)
4. 0.4 Mi. SB on Shoulder (rebuilt shoulder)

68.3 Mi. Total Corridor Length
1.0 Mi. Contingency
35.8 Mi. (52% Exclusive ROW)
Phase 2 Alternatives

- **Integrated Bus:**
  - Utilizes Proposed Amtrak Service
  - Amtrak Deadhead Train Converted to Revenue Service
  - Portland Union Station (for Amtrak Stop)
  - I-295 ROW (including shoulder when congested)
  - 295 Stations at Exits 10 and 15
  - 12 Bus Round Trips
  - 3 Amtrak Round Trips
  - As Ridership Grows Trains Replace Buses
On the same base map show the two rail routes:

- Brunswick
- Yarmouth (Exit 15)
- Freeport
- West Falmouth (Exit 10)
- Union Station

Amtrak Downeaster

Bus Service

Integrated Bus Option

Portland Transportation Union Station
Phase 2 Alternatives (cont.)

- **Integrated Rail:**
  - Utilizes Proposed Amtrak Service
  - Amtrak Deadhead Train Converted to Revenue Service
  - Portland Union Station (for Amtrak and State Rail)
  - Pam Am ROW
  - Stations @ Yarmouth, Cumberland, Falmouth, Union Station, Center Street
  - 7 Commuter Rail Round Trips
  - 3 Amtrak Round Trips
On the same base map show the two rail routes:

- Amtrak
- Downeaster
- Proposed Commuter Rail

- Cumberland Ctr
- West Falmouth (Exit 53)
- Portland Transportation
- Union Station
- Center Street
- Brunswick
- Freeport
- Yarmouth Jct
## Phase 2 Alternative Comparison

<table>
<thead>
<tr>
<th>Measure</th>
<th>Integrated Bus Option</th>
<th>Integrated Rail Option</th>
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<tbody>
<tr>
<td>Weekday Boardings</td>
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<td>298</td>
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<tr>
<td>Annual Operating Days</td>
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<td>254</td>
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<td>$26,334</td>
<td>$88,434</td>
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Option 1: Offline Falmouth and Yarmouth Stations
- No upgrades to existing road network
- No travel on shoulders.
- Bus operates in mixed traffic
- 10 Bus Round Trips, 3 Amtrak Round Trips

Option 2: Offline Yarmouth (Only) Station
- No upgrades to existing road network
- No travel on shoulders.
- No Falmouth station
- 10 Bus Round Trips, 3 Amtrak Round Trips
TSM Option 1: Offline
Falmouth and Yarmouth

- Brunswick (Exit 15)
- Freeport
- Yarmouth (Exit 15)
- West Falmouth (Exit 10)
- Union Station
- Portland Transportation

- Amtrak
- Downeaster
- Bus Service
TSM Option 2: Offline
Yarmouth

On the same base map show the two rail routes:
- Brunswick
- Yarmouth (Exit 15)
- Freeport
- Amtrak
- Downeaster
- Bus Service
- TSM Option 2: Offline
- Yarmouth

Portland Transportation
Union Station
Offline Falmouth (Exit 10)
## TSM Alternative Comparison

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<tr>
<th>Measure</th>
<th>Option 1</th>
<th>Option 2</th>
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<td>Weekday Boardings</td>
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Recommended Alternative

- TSM Option 2
  - Bus service in traffic
  - Connections to Brunswick, Freeport, Yarmouth and Portland
  - Integration with Amtrak Downeaster
Potential Funding Sources

- Capital
  - Federal
    - New/Small Starts
    - Section 5309 Bus Program
    - Tiger3
    - HSR
    - EPA/Housing
  - Match
    - Bonding
    - In-Kind
    - Other?

- Operating
  - Section 5311
  - Rental Car
  - CMAQ
Next Steps

- Enhance/Confirm Station Logistics
  - Brunswick
  - Freeport
  - Yarmouth (Exit 15)
  - Portland
- Develop implementation plan
  - Operations management
  - Vehicle acquisition
  - Maintenance facility
- Develop Funding Plan
  - Capital
  - Operating
- Distribute Final Report (January 2011)
Questions?