Maine-New Hampshire Connections Study

Stakeholder Committee Meeting September 11, 2009



Meeting Overview

- Welcome |Introductions 10 minutes
- Study Data 20 minutes
- Fatal Flaw Analysis: Discussion 1 hour
- Brainstorm Alternatives (Solutions) 1 hour
- Purpose and Need Statement Review 30 minutes
- Upcoming Meetings: 5 minutes

Study Update/Schedule Review

- August:
- September:

- September:
- September:
- December:
- January:
- •January/Feb:

Baseline Data completed Traffic analysis and travel demand model forecasts complete for nobuild conditions Fatal Flaw Analysis and process **Brainstorm alternatives (solutions)** Fatal Flaw Analysis yields list of feasible alternatives Analysis of feasible alternatives begins **TIGER Grant results/Possible Study** adjustment

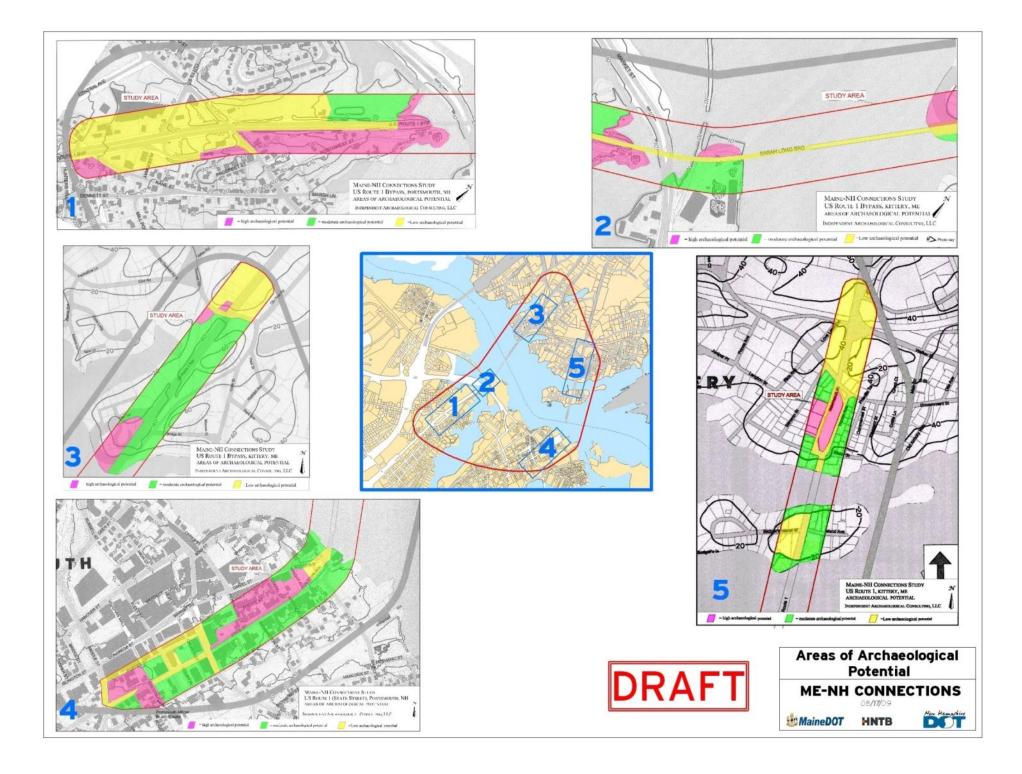
Baseline Conditions and Analysis

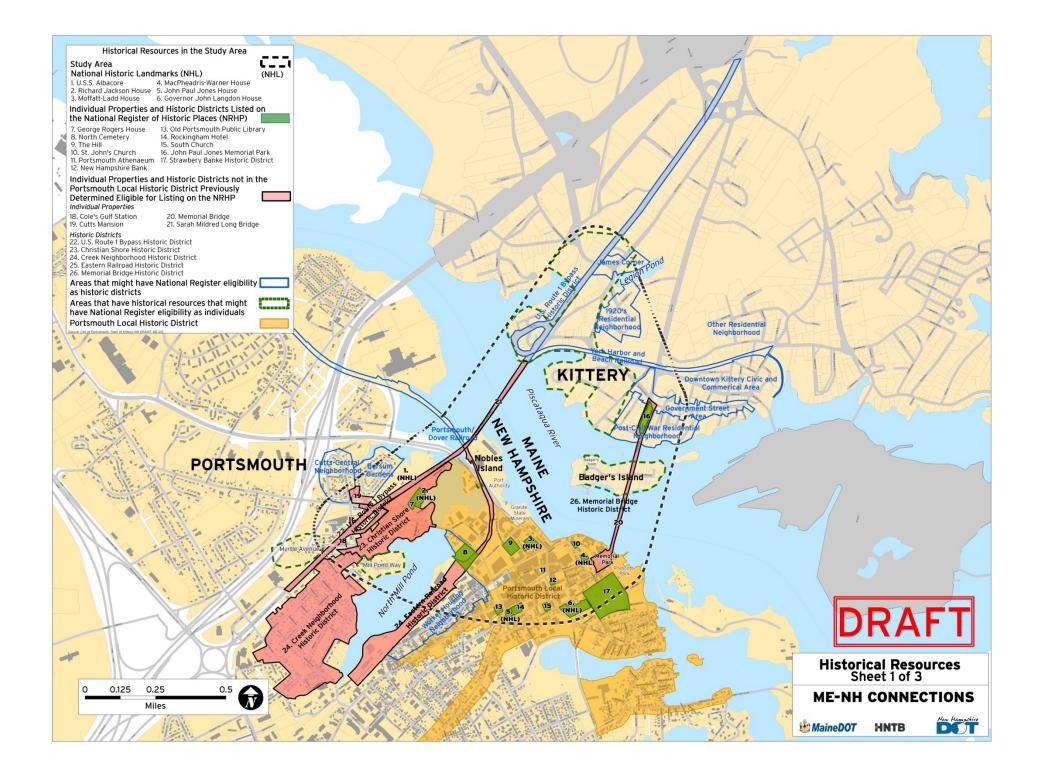
What did we learn??

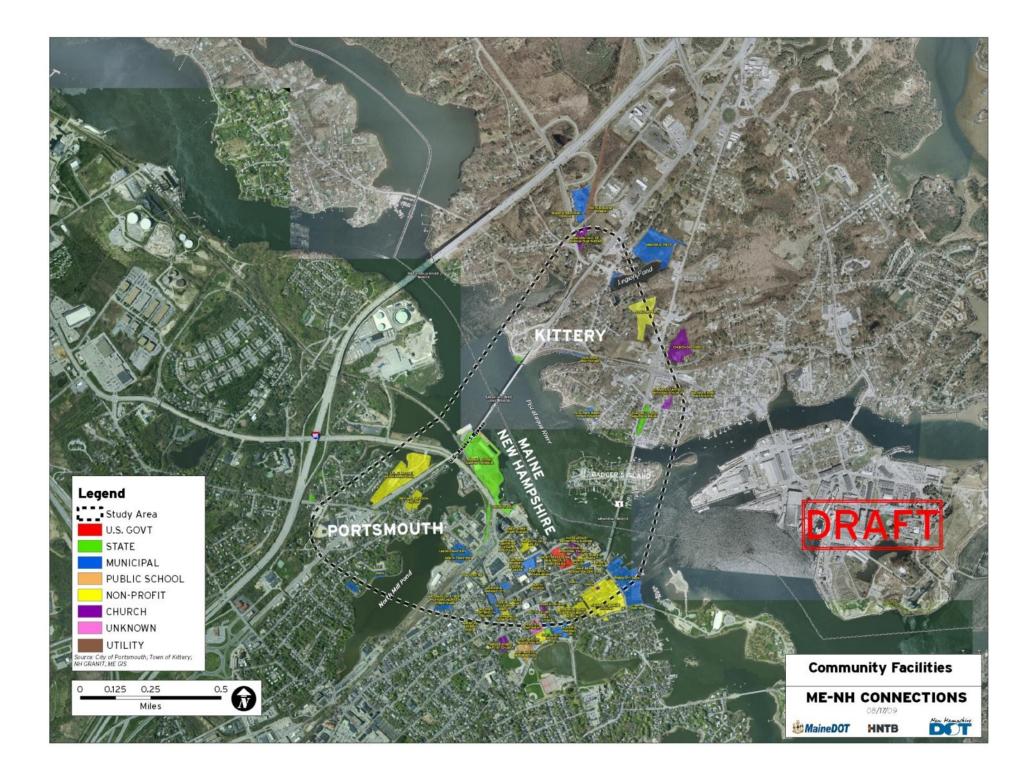
Background Data Categories

- Cultural/Historic
- Natural Resource
- Land Use
- Transportation
- Origin-Destination

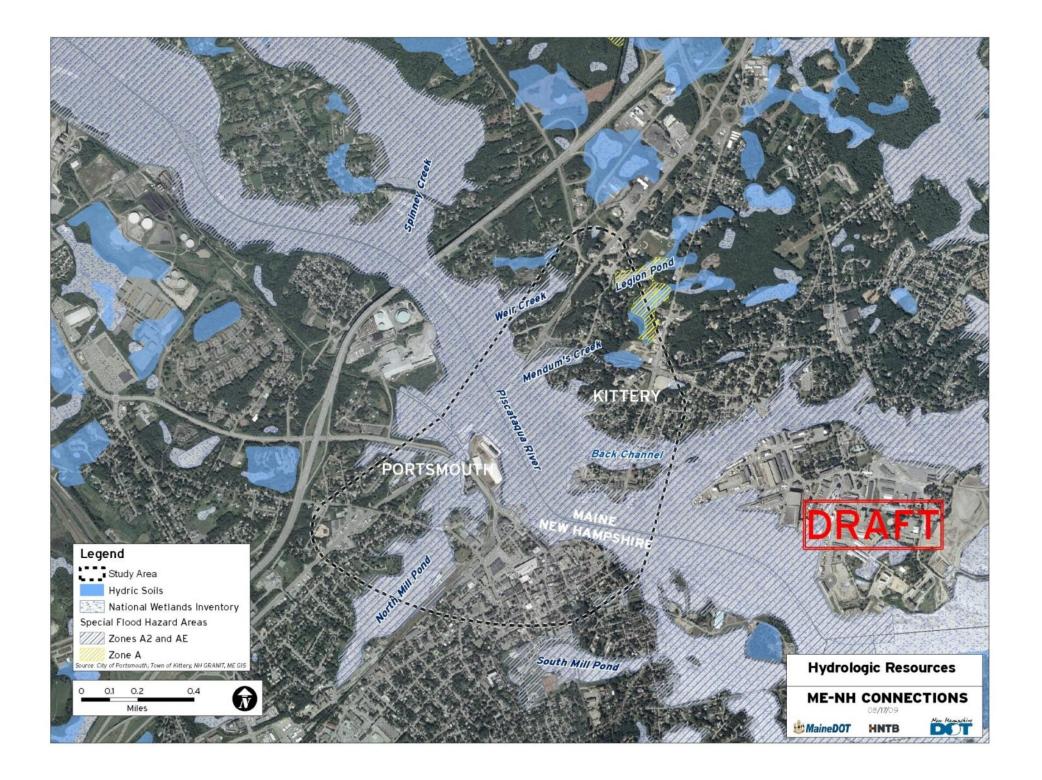
Cultural/Historic

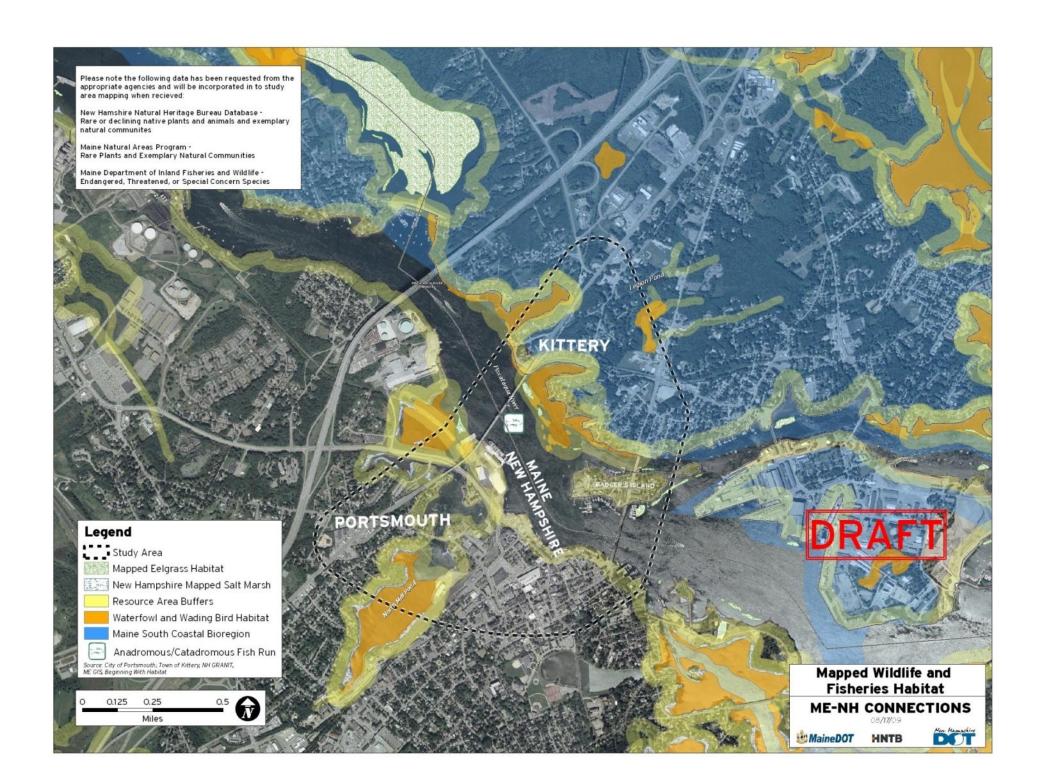




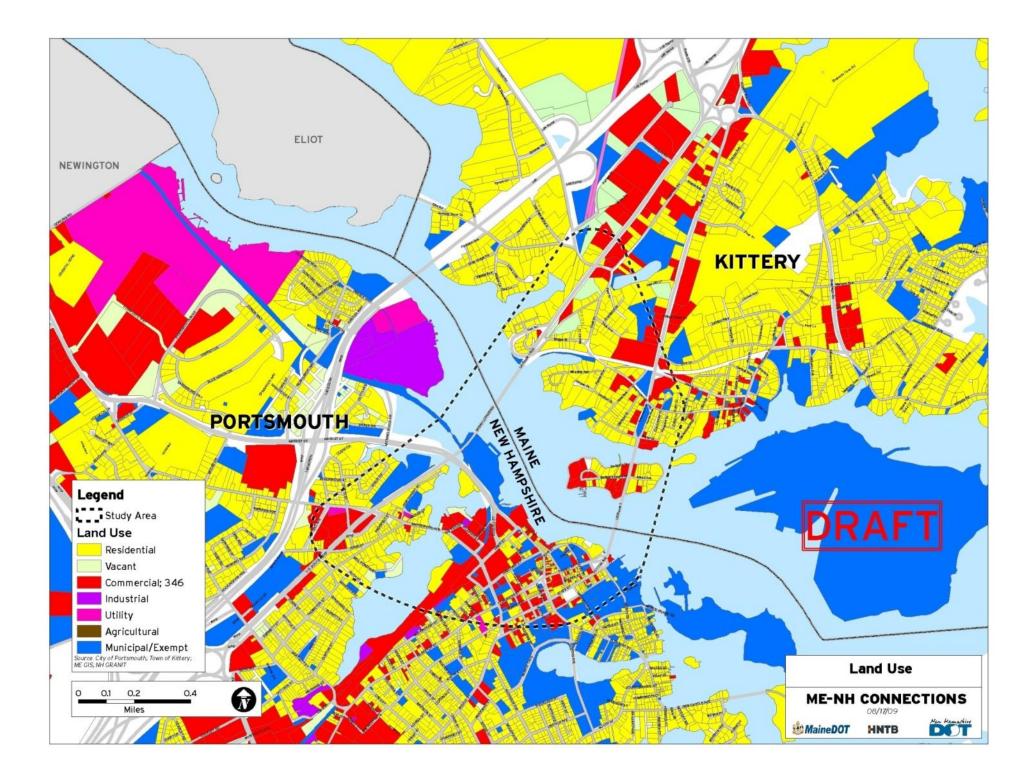


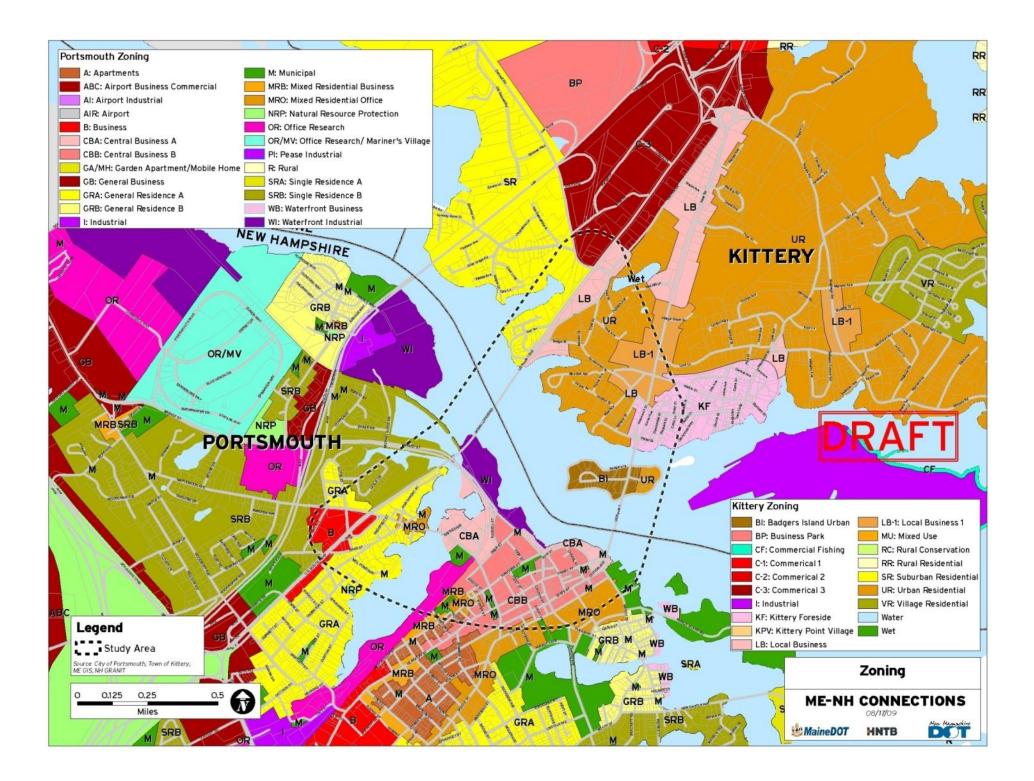
Natural Resources

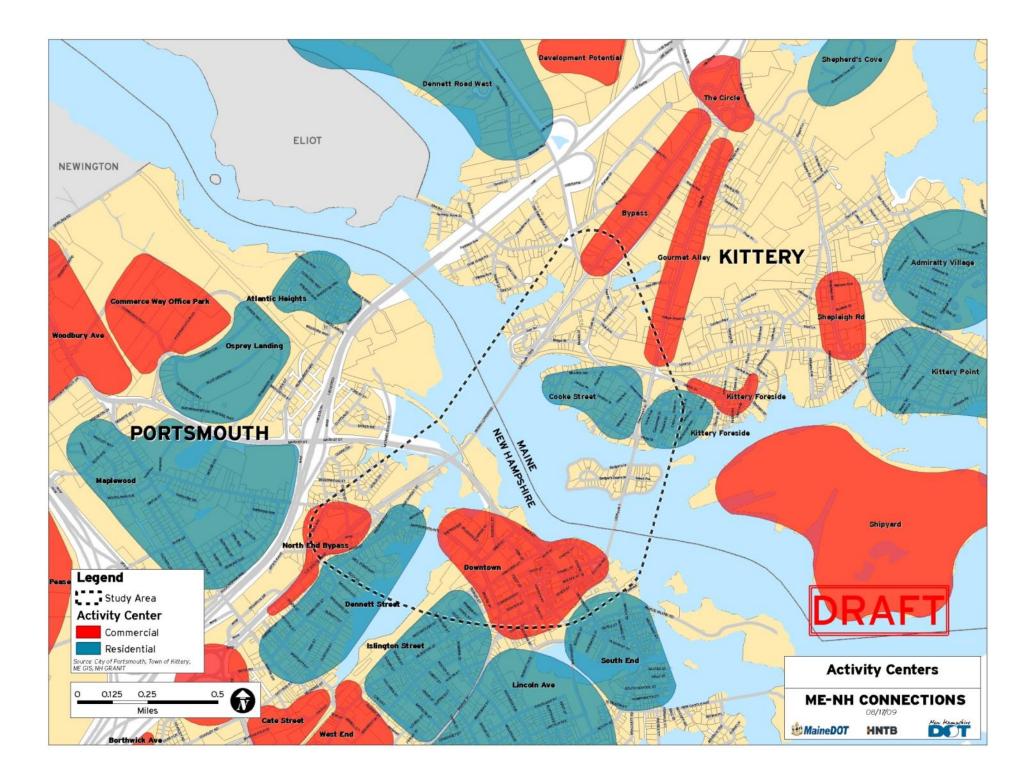




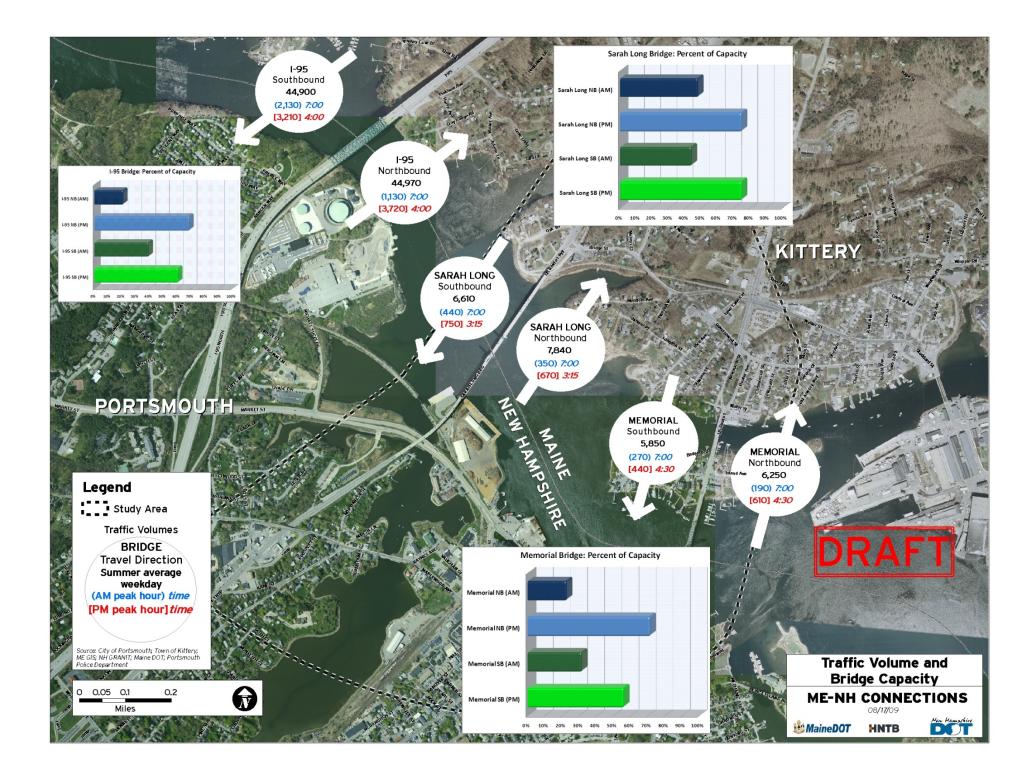
Land Use

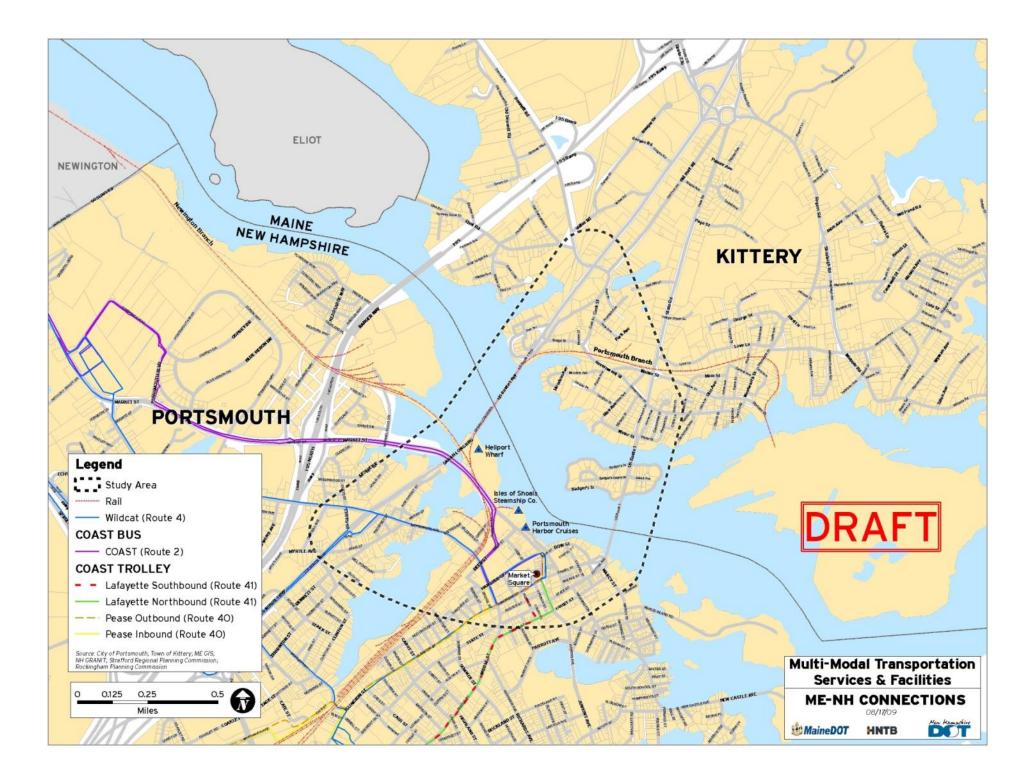




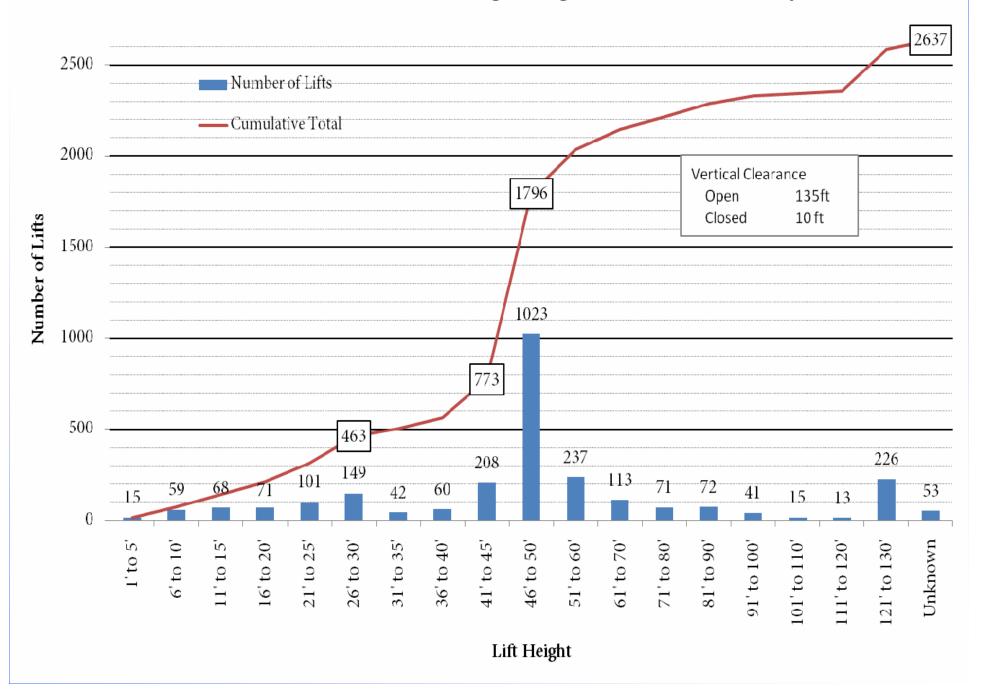


Transportation

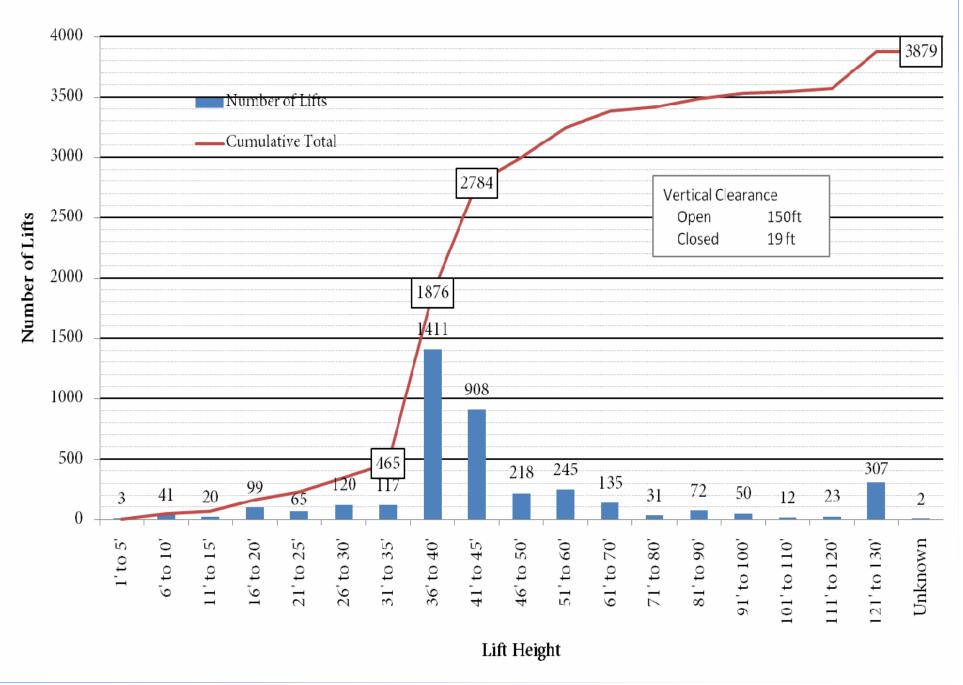




2008 Sarah Mildred Long Bridge Lift Data Summary



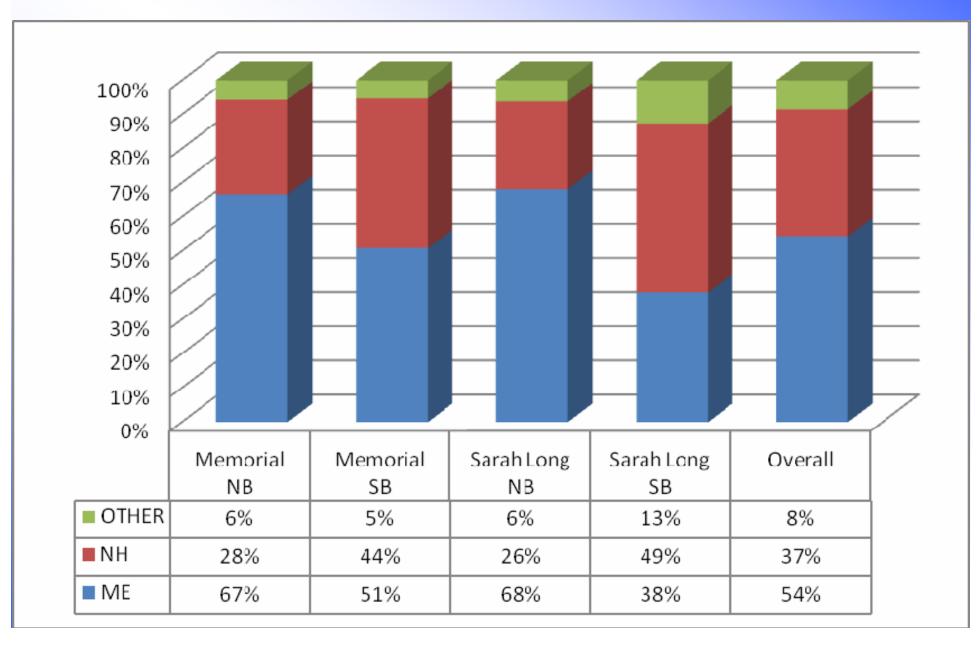
2008 Portsmouth Memorial Bridge Lift Data Summary

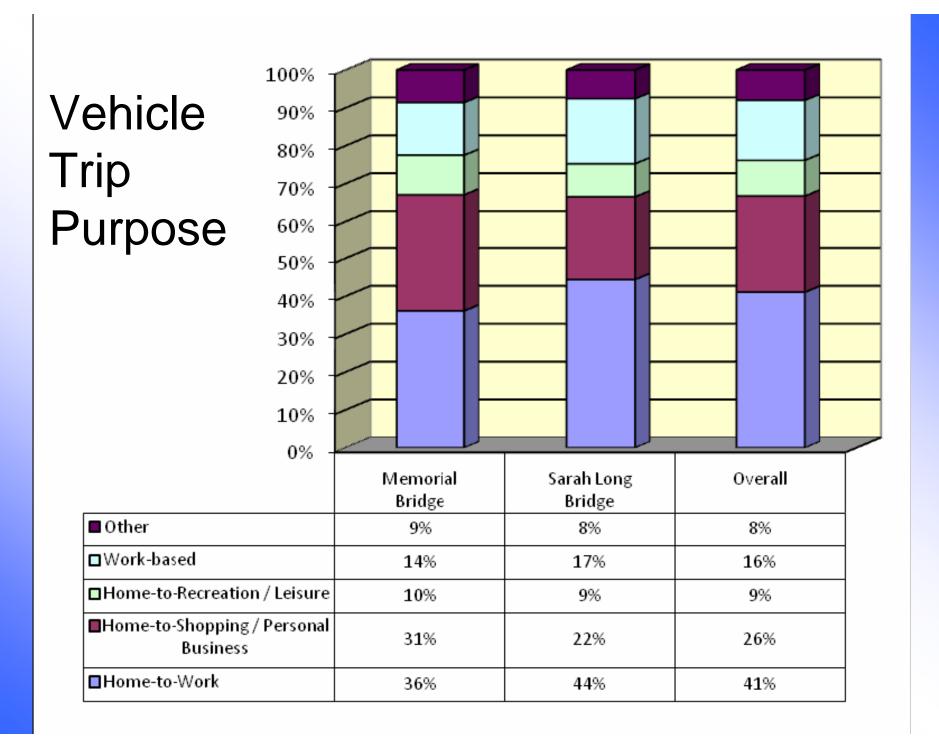


Origin Destination Survey Highlights

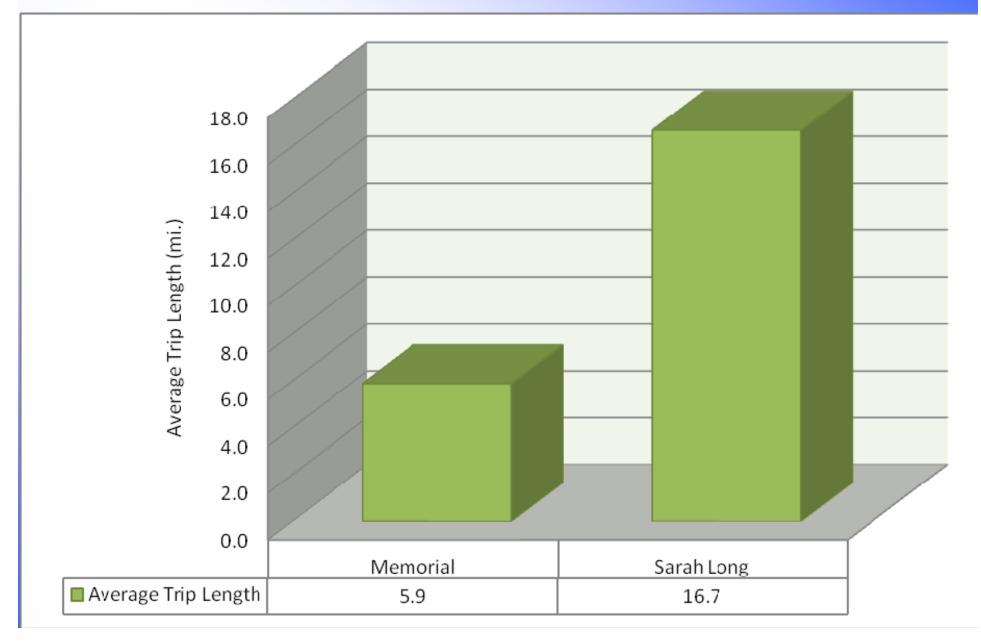
Vehicle Survey – May 2009 Bicycle/Pedestrian Survey – July 2009

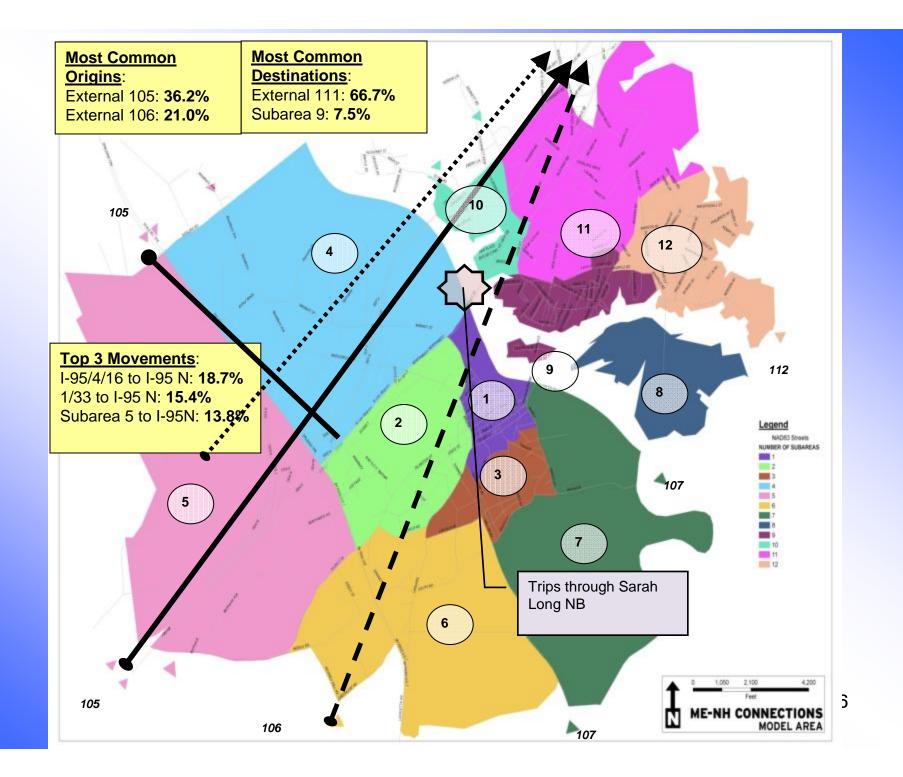
State of Vehicle Registry

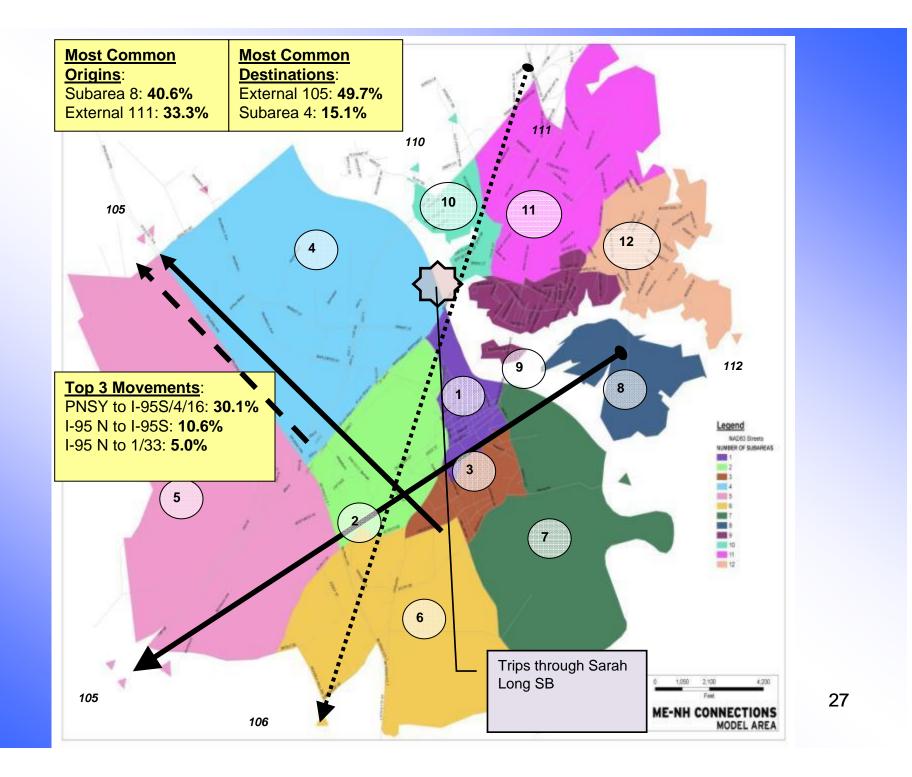


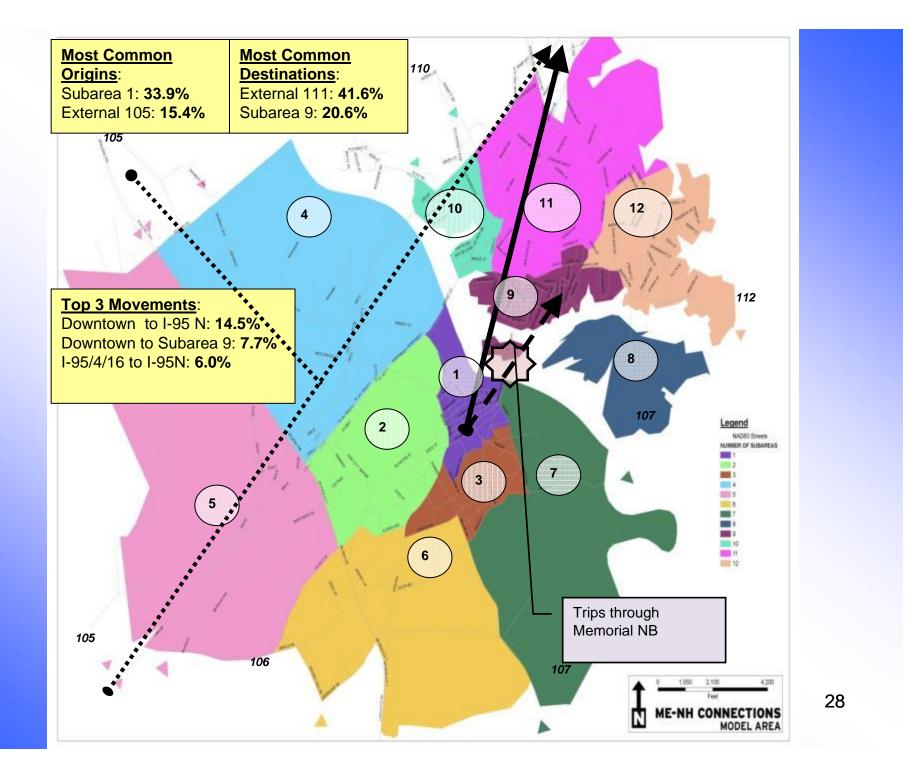


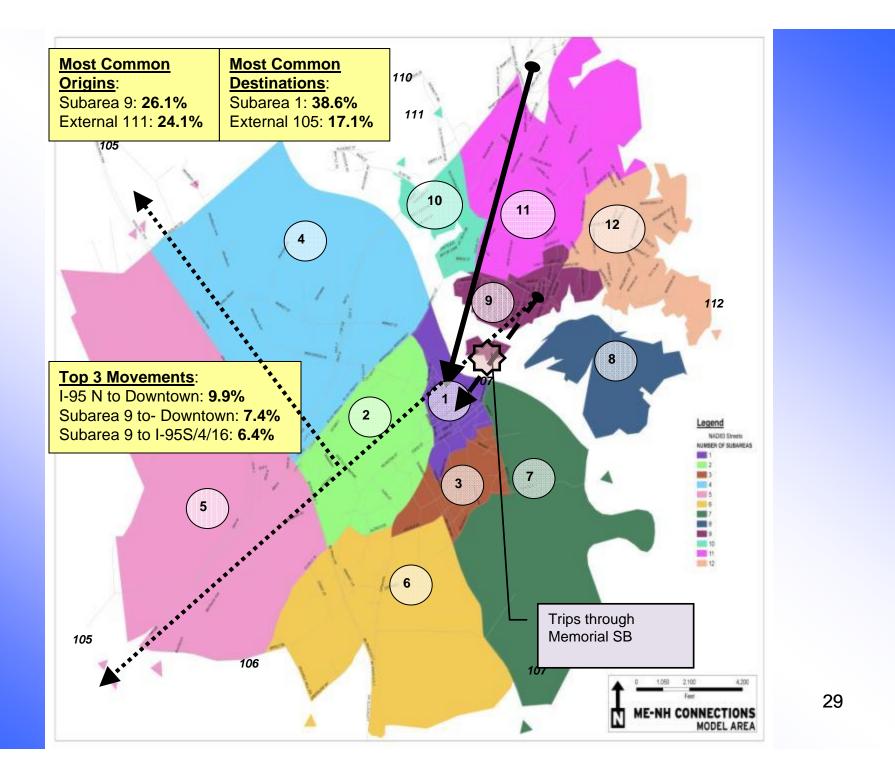
Average Vehicle Trip Length









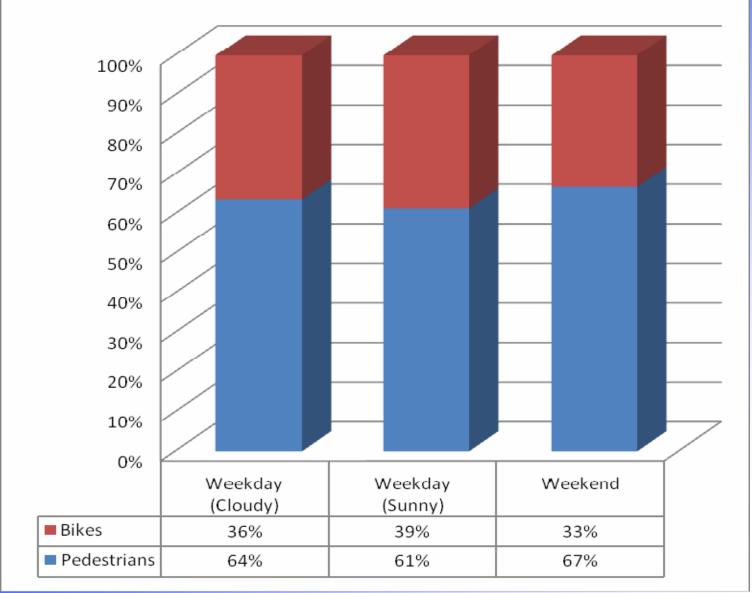


Summer Bike/Ped Volumes



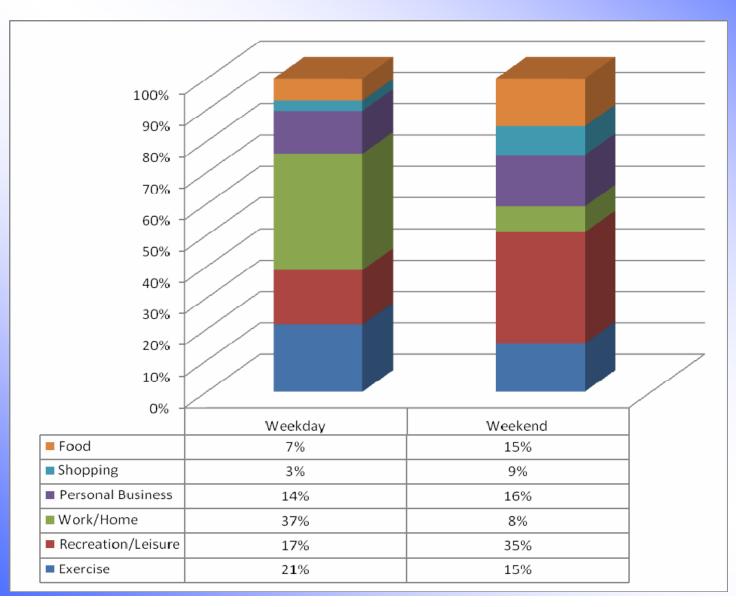
30

Percentage of Bikes vs. Peds



31

Bike/Ped Trip Purpose Summary



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Fatal Flaw Analysis

Fatal Flaw Analysis: How it works

- Used to evaluate and screen full range of alternatives (solutions) identified
- Remaining feasible alternatives receive "Higher" level of analysis
- Fatal flaw screening:
 - Does alternative satisfy purpose, need and goals?
 - Does alternative have significant impacts?
 - Is alternative permittable?
 - Is alternative financially/physically feasible?
 - Is alternative clearly inferior to other alternatives?

Fatal Flaw Analysis



All Alternatives identified by Steering and Stakeholder Committees, Public, Agencies

Fatal Flaw Analysis Evaluate Feasible Alternatives

Draft Alternatives in Scope

Alternative #	# of Crossings	Sarah Mildred Long Rehab	Sarah Mildred Long Replacement	Sarah Mildred Long Eliminated	Memorial Rehab	Memorial Replacement	Memorial Eliminated	I-95 High Level Rehab
Alternative 1	3	Х			Х			Х
Alternative 2	3		Х		Х			Х
Alternative 3	3	Х				Х		Х
Alternative 4	3		Х			Х		Х
Alternative 5	2			Х	Х			Х
Alternative 6	2			Х		Х		Х
Alternative 7	2	Х					Х	Х
Alternative 8	2		Х				Х	Х
Alternative 9	2+	X			Bike/Ped only			X
Alternative 10	2+		Х			Bike/Ped only		Х

Note – rail is assumed to be maintained under all Sarah Mildred Long bridge rehab or replacement alternatives. If eliminated, alternate rail options will be evaluated.

Fatal Flaw Draft Matrix

- Tool to "funnel" all alternatives (solutions)
- Criteria based on Purpose and Need Statement and regulatory requirements
- This analysis less detailed than for final feasible alternatives
- At this point do not have detailed information on such categories as aesthetics and economic impact. These will be applied later to feasible alternatives
- Today's hypothetical exercise: Your choice!

Fatal Flaw Draft Matrix

Brainstorming Session: Full Range of Alternatives

Draft Alternatives in Scope

Alternative #	# of Crossings	Sarah Mildred Long Rehab	Sarah Mildred Long Replacement	Sarah Mildred Long Eliminated	Memorial Rehab	Memorial Replacement	Memorial Eliminated	I-95 High Level Rehab
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Alternative 3	3	Х				Х		Х
Alternative 4	3		Х			Х		Х
Alternative 5	2			Х	Х			Х
Alternative 6	2			Х		Х		Х
Alternative 7	2	Х					Х	Х
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Alternative 9	2+	X			Bike/Ped only			X
Alternative 10	2+		Х			Bike/Ped only		Х

Note – rail is assumed to be maintained under all Sarah Mildred Long bridge rehab or replacement alternatives. If eliminated, alternate rail options will be evaluated.

Additional Alternatives

Purpose and Need

Purpose and Need Statement: The Process

- Gathered initial feedback from Public April 09
- Draft presented to Stakeholder Committee June 30
- Comments incorporated revised P&N to Steering Committee and Stakeholder Committee on July 7
- Federal agencies commented on format
- SC met to discuss in early August and agreed to revised format with adjustments
- Revision sent to SHC on August 11
- Conference call with SHC on August 17 and 19
- Feedback solicited at August 20 Public Meeting
- Version 9 includes that feedback

Purpose and Need Statement Statement of Purpose

 The purpose of the Maine-New Hampshire Connections Study is to identify and evaluate feasible long-term (2035) transportation strategies that facilitate the safe, secure and effective multi-modal movement of people and goods across and upon the Piscatagua River between Kittery, Maine and Portsmouth, New Hampshire and which support the region's objectives with respect to economic, cultural, historic, archeological and natural resources and its community quality of life. 44

Statement of Need: Transportation Deficiencies

The Need for the Study is based on present and future transportation deficiencies, specifically:

- a) Structural deficiencies exist that threaten accessibility and mobility to the region and require load postings on the Memorial Bridge and the Sarah Mildred Long Bridge,
- b) Decreased reliability of the lift spans and increasing maintenance needs of the Memorial and Sarah Long bridges are causing unnecessary delays to marine and land transportation, including response times of emergency vehicles
- c) These two bridges are functionally obsolete and include outdated design features that may affect marine and land transportation safety,
- d)Multi-modal (*pedestrian*, *bicycle*, *rail*, *maritime traffic*, *vehicular*) opportunity is limited by inadequate or outdated facilities.

Study Goals:

In order to achieve the stated Purpose and Need, the Study will strive to achieve the following goals:

- Improve local and regional economic growth and stability, tourism and recreational opportunities
- Maintain or improve access to Portsmouth and Kittery downtowns and Portsmouth Naval Shipyard
- Improve local connections to regional transportation modes, for example the Portsmouth International Airport at Pease
- Minimize long-term costs for the regional transportation system

Study Goals

- Improve bicycle and pedestrian access across the Piscataqua River Reduce operational and maintenance costs (currently \$1.1+ M per year per bridge)
- Avoid or minimize detrimental impacts to the historic significance and integrity of the Kittery-Portsmouth area
- Conserve the aesthetic setting of the Piscataqua River
- Conserve the environmental quality of the Piscataqua River

Study Goals

- Avoid or minimize detrimental impacts to residential neighborhoods in Kittery, Portsmouth and neighboring areas.
- Reduce or maintain emissions of pollutants, including greenhouse gases
- Maintain or improve emergency evacuation efficiency across the Piscataqua River.
- Do not preclude future transportation opportunities, for example, providing for passenger rail service or bus service across the Piscataqua River.

Upcoming Meetings: Fatal Flaw Analysis

- Sept. 17: Steering Committee Meeting
- Sept. 24: Public Meeting
- Oct./Nov.: Possible Stakeholder Committee Meeting to check in on Fatal Flaw Analysis