

Agenda

Introductions/Committee Overview 1. Selection of Chairperson 2. **Project Overview & History** 3. **Project Development Process** 4. 5. Study Methodology **Public Participation Process Overview** 6. **Proposed Project Schedule** 7. 8. Discussion **Public Comments** 9. 10. **Next Meeting**



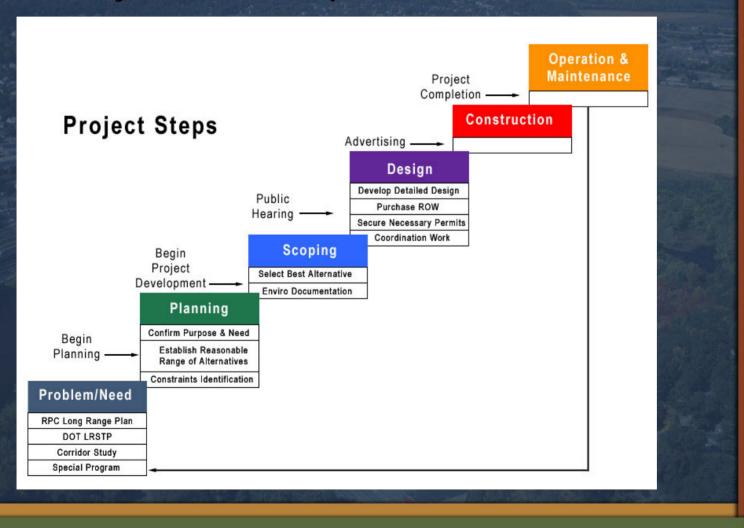
Project Overview/History

1992 I-93 Feasibility StudyExit 13 Improvements2020 Vision for Concord

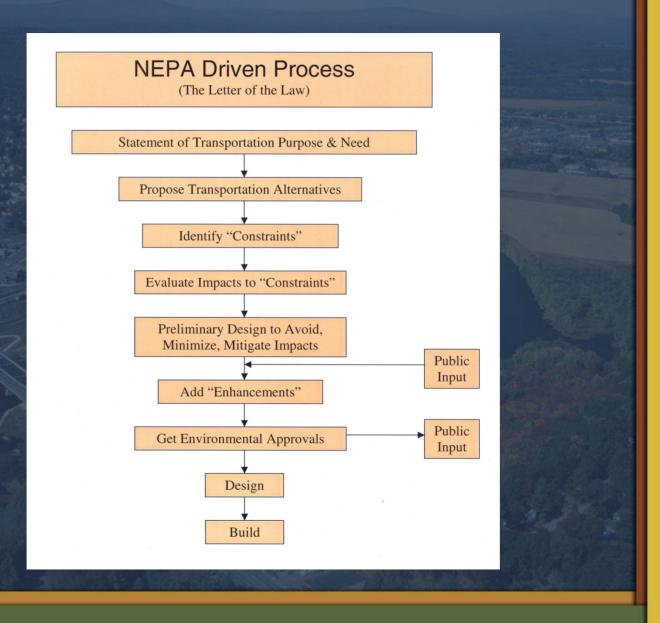




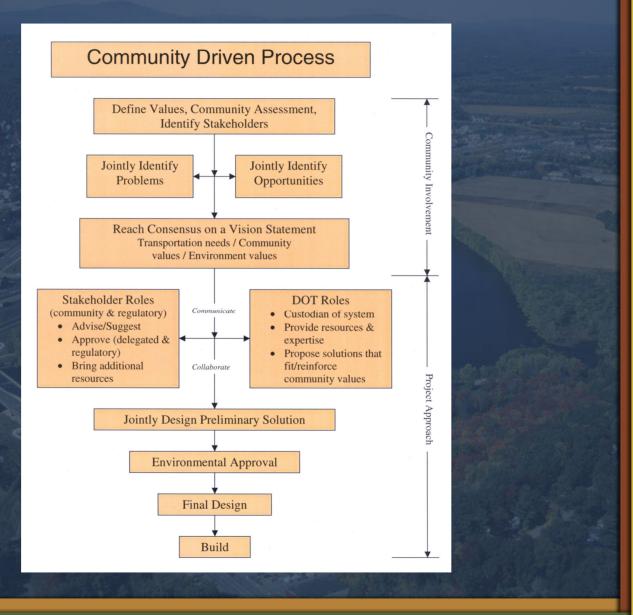
Project Development Process



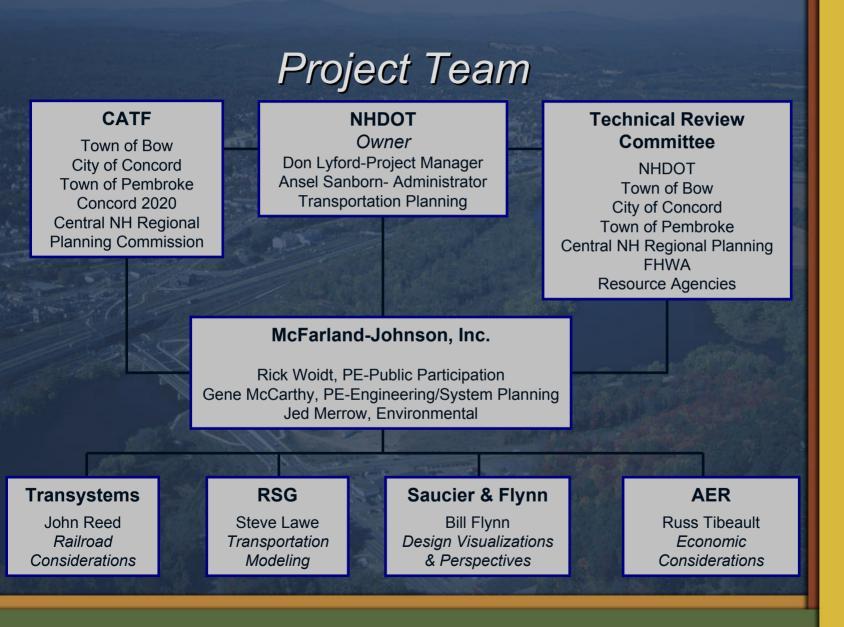












Transportation Considerations

I-93 Widen to Six Lanes **I-93 Westward Alignment Shift** Grade Reversal of Exit 14 Reconfiguration of Exits 14 & 15 Possible Connection from I-89 to 106 Exit 2 1/2 on I-393 Exit 16 1/2 on I-93 Exit South of I-89 **Commuter Rail Preservation** Pedestrian & Bicycle Access Merrimack River Access **Visual Aesthetics**



Study Methodology

Engineering/System Planning Data Collection/Base Plans Transportation Modeling Traffic Analysis Alternatives Development



Transportation Modeling

Updated CNHRPC Transportation Model Expand the model geographic boundaries 12 Towns 240 TAZ's (214 internal & 26 external) Add year 2000 data Housing data from 2000 census Employment data from State of NH Updated roadway network from CNHRPC Vehicle count data for year 2000 calibration Converted from vehicle to person based Estimate person trips rather than vehicle trips Use a mode split module to estimate transit & vehicles



Transportation Modeling

New Hampshin

Model Process

Estimate trip characteristics using: Census journey to work data Available trip diary survey data NH statewide stated preference & household survey

Calibrate model and calculate accuracy Compare vehicle results to count data FHWA standards (0.88 correlation coefficient)

Transportation Modeling

Model Overview: Base model is 3rd Friday in July, 2000 AM, PM, Off-Peak hours of analysis Auto, Shared Ride, Bus, Rail, Walk/Bike

Model Definition: 4-step approach Step 1: Person Trip Generation Step 2: Person Distribution Step 3: Mode Choice Step 4: Vehicle Assignment





Transportation Modeling Model Operation – What To Expect

Example: auto volumes on a road increased due to a major roadway investment. WHY?

Did land use change? (land use)

Was there induced demand – released suppressed demand (trip generation)

Did people change their trip ends – go somewhere different (trip distribution)

Did they use more automobiles (mode choice)

Did people change their routing changes (assignment)

Transportation Modeling Model Operation – What To Expect

Primary, secondary, tertiary impacts Increased congestion may cause route changes Decreased congestion may increase trip lengths

Importance of policy decision making What is our goal? How should we use these interesting dynamics to meet our goal?



Transportation Modeling Using the Model for the Bow-to-Concord Study Establish a baseline condition (year 2000) Define purpose and need Develop a set of scenarios. For each scenario: What land use impacts will result Code and run the transportation scenario Extract the roadway and intersection results Account for model error (base model vs count) Perform LOS and other analyses



Transportation Modeling Using the Model for the Bow-to-Concord Study The transportation model is a tool Test scenarios Spend time to ensure that results are understood Retain a high level of thought-to-run ratio Make sure the assumptions are clearly stated

Inform "mental model" We have a notion of how travel patterns work Inform and alter your mental model

Gain a group understanding of system Learning from the model and others participating





Study Methodology

Traffic Analysis I-93 Ramps Weaving Sections Traffic Needs Study

Nen Hampshire

Study Methodology

Environmental Data Collection Resource Identification Agency Coordination Potential Resource Impacts Screening of Alternatives



Study Methodology

Phase A Completion & Documentation Purpose and Need Statement Range of Reasonable Alternatives Summary/Classification Report

Public Participation Process

Citizen's Advisory Task Force (6) Technical Review Committee Community Meetings/Forums Project Newsletter Project Website Project Design Center



Public Participation Process

Collaborative Public Participation City of Concord Master Plan Town of Bow Master Plan Town of Pembroke Master Plan City of Concord Opportunity Corridor





Master Plan Process Goals Ensure community buy-in on Master Plan through meaningful public participation in the planning process Provide opportunities for participation in which the public can easily see how input will be incorporated into the Master Plan Integrate Master Plan process with other current planning efforts (e.g., I-93) **City of Concord Master Plan** Town of Bow Master Plan Town of Pembroke Master Plan **City of Concord Opportunity Corridor**

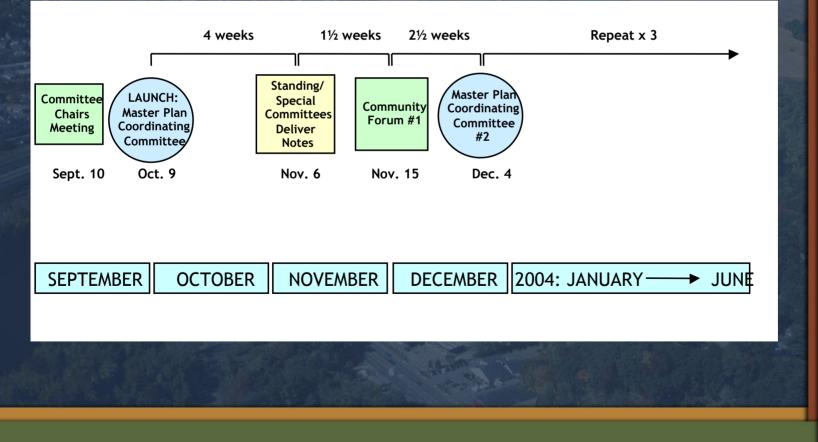


Project Approach & Design

Standing and Special Committees 5 existing committees + 2 special committees Asked to complete specific tasks with modest deliverables Master Plan Coordinating Committee All members of Standing and Special Committees "Backbone" of the planning process Strategies and ideas coordinated and conflicts resolved **Community Forums** Informal "tradeshow" event Community members are able to view the work of the committees, share ideas and provide feedback



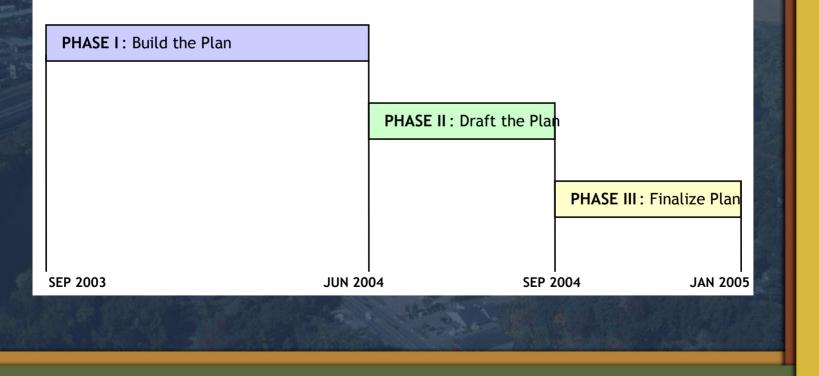






Project Approach & Design

Key Phases



Proposed Project Schedule

Notice To Proceed Data Collection Base Plans Base Year 2000 Traffic Model Design Year 2030 Traffic Model Alternatives Development Traffic Needs Study Summary/Classification Report February 2003 Spring 2003 Spring/Summer 2003 Spring/Summer 2003 Fall/Winter 2003/2004 Winter/Spring 2003/2004 Spring/Summer 2004 Fall 2004

