

# Charting a New Direction for North Carolina


## NCDOT Statewide Transportation Plan



Wilbur Smith Associates




April 4 2006 \_ SDITE Conference  
Jackson, MS



# Statewide Transportation Plan - Background & purpose -

- **1995 Plan**
  - Goals/Objectives/Strategies
- **1999/2000 — start of current Plan**
  - DOT Leadership change
  - Legislative Transportation Finance Commission.
    - Efficiency Study # 8 — 20-yr. inventory/consultant assist.
  - Adoption in September 2004
- **Plan Expectations**
  - Decision-making tool, multimodal, diverse input





# Statewide Transportation Plan - Key Plan elements -

- **Technical & Financial Analysis**
  - Rigorous and data driven
  - Infrastructure & service needs / available funds
- **Stakeholder & Public Involvement**
  - Inform & solicit—regional forums / individual groups
- **Oversight**
  - Technical Steering Comm (13 members)
  - Policy Committee (6 members)
- **Long term Investment Strategy**
  - Recommended Investment Scenario

# Statewide Transportation Plan

## - How were the needs generated? -

- **Highways & Bridges**

- HPMS - Highway Performance Monitoring System
- BNIP - Bridge Needs & Investment Process
- Maintenance Condition Assessment Report

- **Non-highway Modes**

- Source documentation (ex. *Transit 2001, NC Rail Plan*)
- Significant staff input

- **System-oriented analysis; not project/  
geographic specific**



# Statewide Transportation Plan

## - Needs per mode -

**\$84 Billion** (all modes; \$2001)

- 25-year “snapshot”
  - Highways & Bridges - \$66.6 billion
  - ITS (Intelligent Transportation Systems) - \$1.1 billion
  - Public Transportation - \$10.6 billion
  - Rail (Passenger & Freight) - \$4 billion
  - Ferry - \$1.1 billion
  - Bicycle / Pedestrian - \$300 million
  - Aviation - \$1 billion\*



*\* funding is self-contained; not in final scenario*

# Statewide Transportation Plan

## - How were the needs illustrated? -

- North Carolina Multimodal Investmest Network  
(NCMIN)
  - Classification methodology--groups facilities by:
    - Level of Interest & Importance
    - Type of Travel Served
    - Usage and Benefit
    - NOT urban vs. rural
  - **Three** Tiers (all modes): Statewide / Regional / Subregional
- \* Emphasis on *unique* contribution of each transportation asset \*

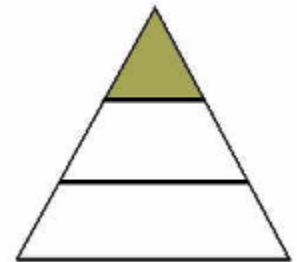


# Statewide Transportation Plan

## - How were the needs illustrated? -

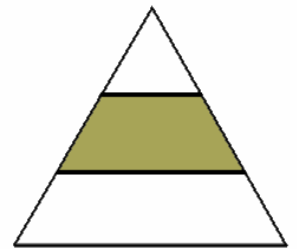
- Statewide Tier

- Long-distance trips & highest travel demand
- Connect larger population centers throughout the State
- Large scale projects; full control of access facilities
- Ex. All Interstates, all NHS routes, RDU Airport



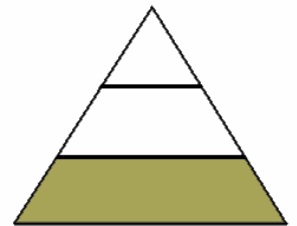
- Regional Tier

- Connect regional centers and surrounding counties
- High levels of demand; travel distances typically shorter
- Heavy commuter routes
- Ex. NC Routes, Charlotte commuter rail, Hickory Airport



- Subregional Tier

- Short-distance trips & low levels of demand
- Local land access function to businesses & residences
- Ex. Secondary Road system, Local Transit Systems





# Statewide Transportation Plan

## - How were the needs illustrated? -

### *Improvement/Investment Categories*

- **Maintenance / Preservation** - routine treatments that restore to adequate level or sustain the condition of an asset AND activities / treatments that protect the infrastructure and extend service life
- **Modernization** - upgrades to system safety, functionality, & operational efficiency w/o adding physical capacity
- **Expansion** - new construction/new services (beyond existing) and/or physically expanding capacity to an existing facility

# Statewide Transportation Plan

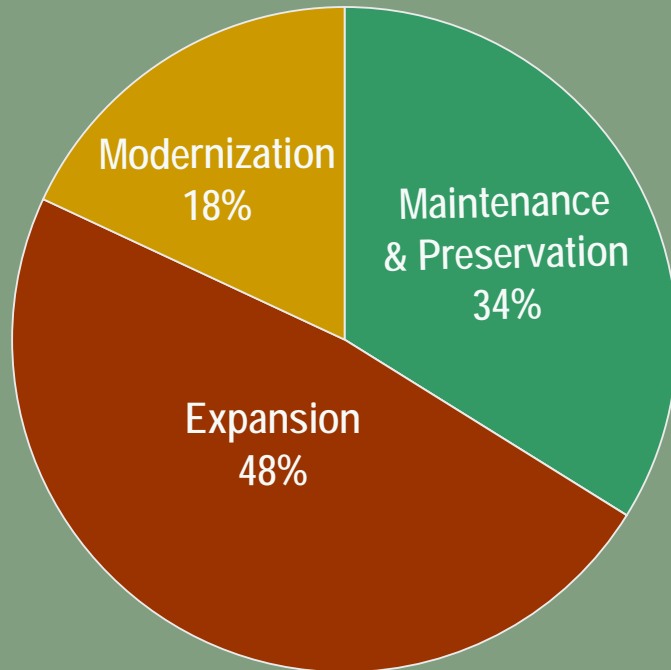
## - Revenue forecast -

- **\$55 Billion**
- Assumptions made:
  - **No new** revenue sources over 25 years
  - Continued growth of state user fee “transfers”
  - Increases in fed/state funding at a conservative rates
  - Based on historic patterns; input from state office of planning and budget
  - Inflation assumed but discounted back to 2001 \$

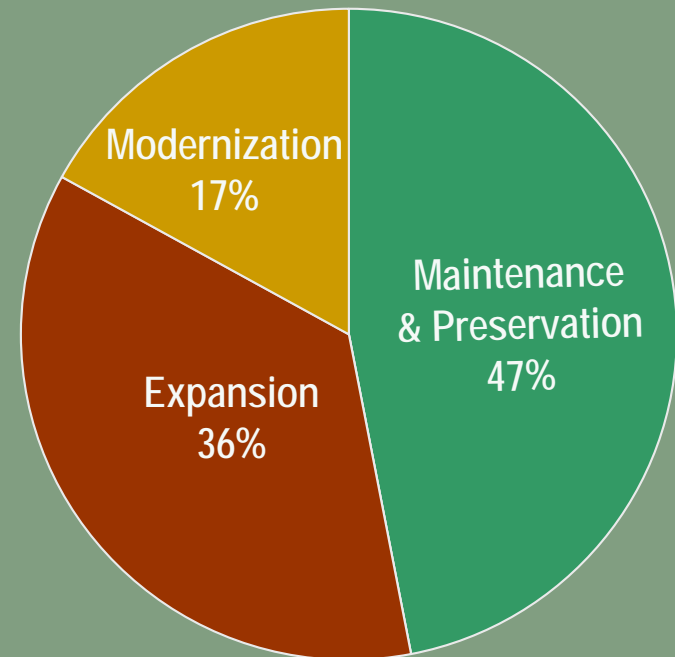


# How Do States Spend Highway Revenues Now?

NC DOT Highway Programs



Peer States

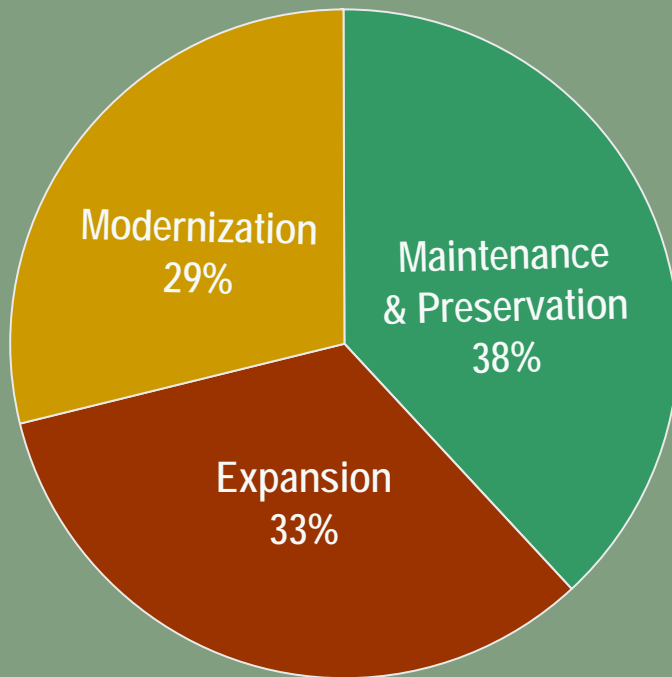


1995 - 2000

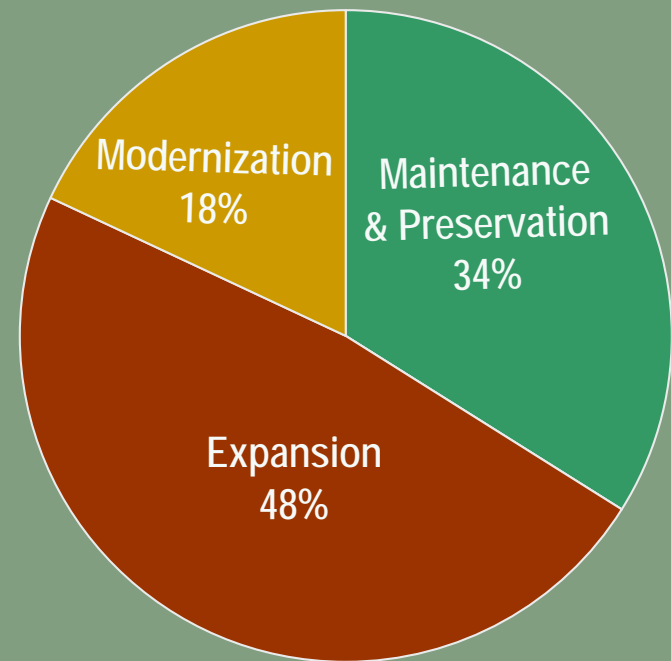


# How Do NC Highway Needs Compare with Recent Highway Investment?

NC 25 - Year Highway Needs



Six -Year NC Highway Investment



1995 - 2000

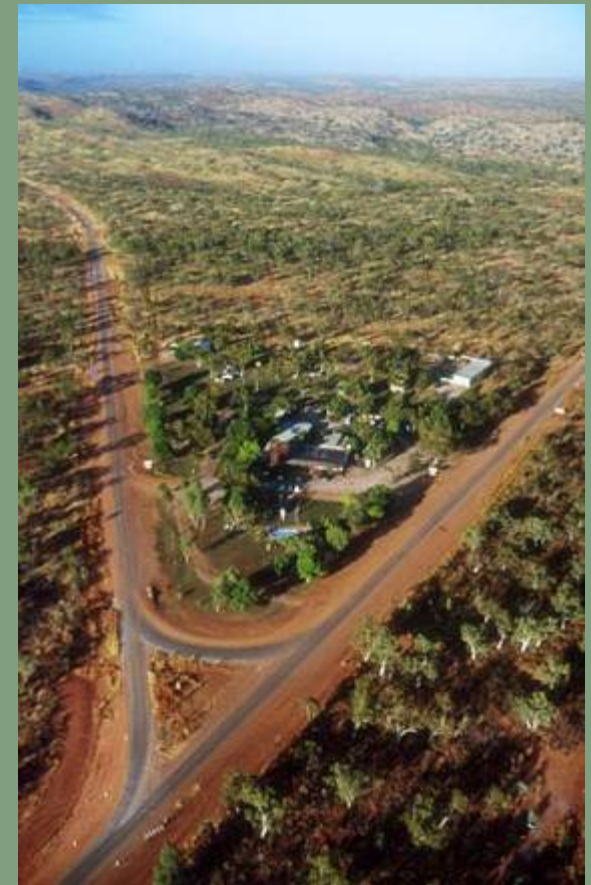


# Statewide Transportation Plan

## - Determining a direction -

Revenue = \$55 Billion

Needs = \$84 Billion



# Statewide Transportation Plan

## - Recommended scenario -

### A new Investment Direction:

- Increased investment in preservation/modernization activities for the EXISTING transportation system
  - Improve safety/maximize operational efficiency
  - Support greater statewide mobility
- Only addresses **2/3** of all projected needs



# Statewide Transportation Plan - Recommended scenario -

## Specifics - page 20 & 21 in Plan Report

- 75% of Maintenance & Preservation needs met
  - **\$22.6B = 10% increase from past**
- Major Modernization emphasis (2/3 of needs met)
  - **\$15.6B = nearly 25% increase from past**
- 2/3 of Highway Expansion needs met
- More than doubles investment in non-hwy modes (17% vs. 7%)



# Statewide Transportation Plan - Implementation -

- Senior Management Team (Technical Oversight)
- BOT Statewide Plan Committee (Policy Oversight)
- Pursue Greater Flexibility in Transportation Funding
- Improve Project Selection Process
- Monitor & Report Progress
- Establish Revision Cycles -- **mid-cycle update in 2006**
- Implement Strategic Highway Corridors Concept
  - First tangible Action Item





# Statewide Transportation Plan - Mid-cycle update in 2006 -

## ***Key Tasks/Deliverables:***


- Transportation Needs & Revenue projections to 2030
- White Paper on impacts of ignoring funding gap
- Training to NCDOT staff on HERS-ST &  
Recommendations for next full Plan update
- **Mid-Cycle Report**
  - Prepare in advance of 2007 NC Legislative session



NCDOT Statewide Transportation Plan - Microsoft Internet Explorer

File Edit View Favorites Tools Help


Address <http://www.ncdot.org/planning/statewideplan/> Go


**NORTH CAROLINA'S**  

**Long-Range Statewide Multimodal Transportation Plan**


HOME CONTACT NC DOT NC DOH

HOME

### Statewide Transportation Plan

 Download **"Charting a New Direction for NCDOT"** (4.5MB)  
 North Carolina's Long-Range Statewide Multimodal Transportation Plan

 Download **"Frequently Asked Questions"** (16KB)  
 What is the purpose of the Plan? How was the Plan developed?


 Download the press release **"Board of Transportation Approves 25-year Plan"** (16KB)  
 Emphasizing greater investment in highway maintenance, modernization and other transportation modes

North Carolina's new **Long-Range Statewide Multimodal Transportation Plan** (hereafter referred to as the Statewide Transportation Plan) stakes out a bold, ambitious course of action for NCDOT. It also reflects a greatly enhanced focus on providing and supporting a truly modern, well-maintained, and multimodal transportation system. The updated Statewide Transportation Plan is an important first step in charting a new direction for NCDOT and the State. It not only recommends a new, 25-year investment strategy that embraces all modes, it also introduces a new planning framework that is inclusive, technically sound, and reflects financial realities.

The new Statewide Transportation Plan is the product of an intensive, three-year planning process that included technical analysis, public outreach, and strategic planning. The centerpiece of the Statewide Transportation Plan is the Recommended Investment Scenario - a strategy that proposes targeted levels of funding within major transportation categories. This strategy will serve as a policy guideline to support future investment decision-making. A few important caveats should be noted about the Recommended Investment Scenario:

- It is not a remedy to fix all of the State's transportation challenges; it identifies a funding gap that leaves nearly one-third of all needs unmet if no additional revenues are obtained.

**Need Acrobat?**

 **Get Adobe Reader**

[Download It Here](#)

<http://www.ncdot.org/doh/preconstruct/tpb/statewideplan/>

# QUESTIONS?



Wilbur Smith Associates

April 4 2006 \_ SDITE Conference  
Jackson, MS