

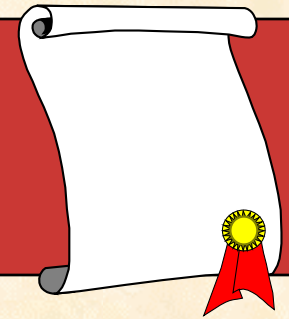
Transportation Planning for Topsail Island



NCDOT - Transportation Planning Branch

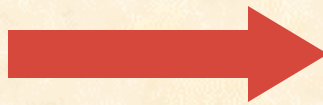
November 15, 2005

Topsail Island Area Transportation Plans



- **Area Thoroughfare plans:**
 - Pender County (1997)
- **Areas without Thoroughfare plans:**
 - Holly Ridge
 - North Topsail Beach
 - Topsail Beach
 - Surf City
 - Onslow County

**Thoroughfare
Plan**



**Comprehensive
Transportation
Plan**



What is Long Range Transportation Planning?

- ***Purpose:***
 - To generate information decision-makers can use to guide future transportation decisions
- ***Product:*** Comprehensive Transportation Plan



What is Long Range Transportation Planning?

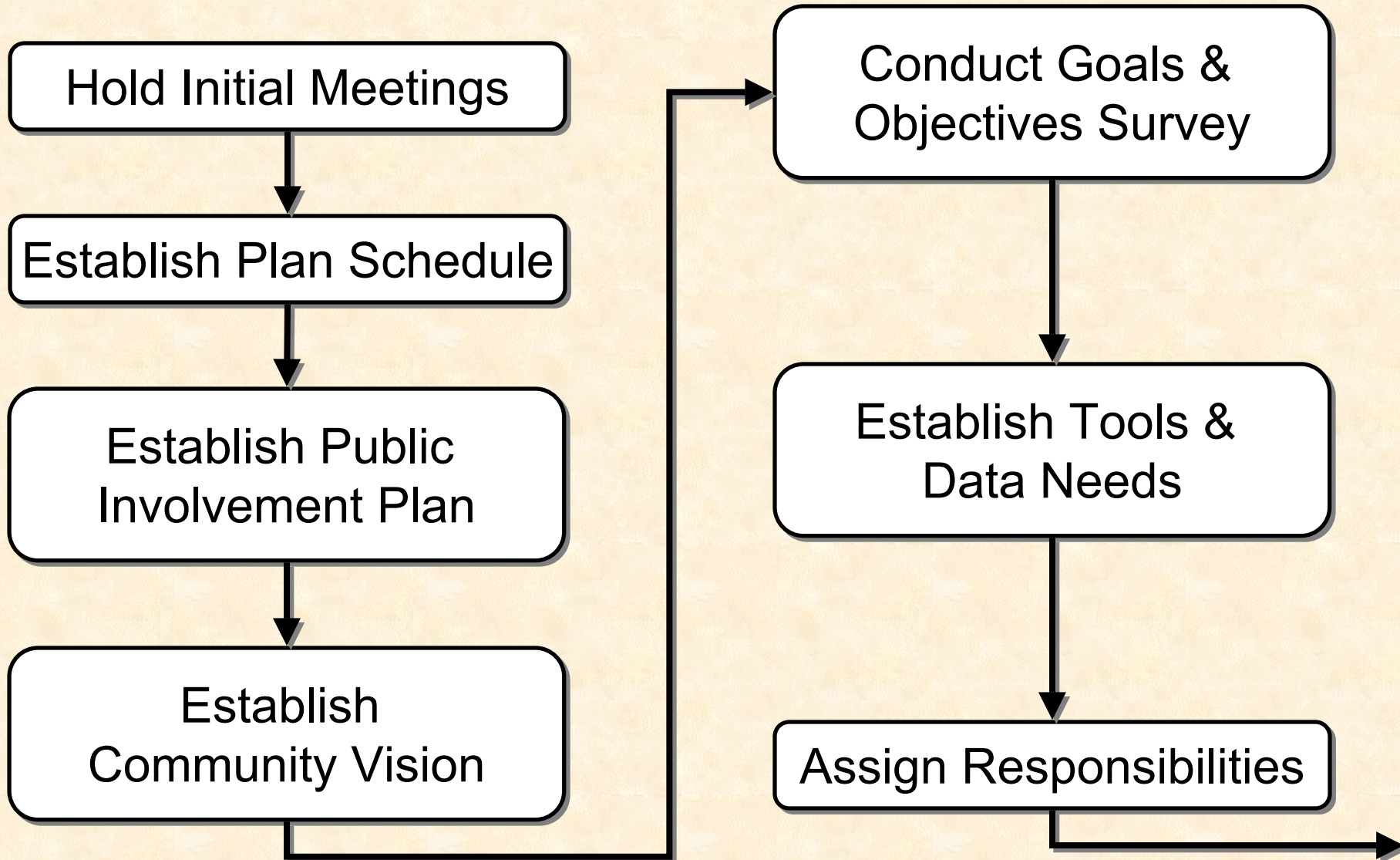
- ***Process:***
 - **Where are we now?**
 - Identify existing and future roadway deficiencies
 - Identify multi-modal elements
 - **Where do we want to go?**
 - Reduce traffic congestion
 - Improve safety
 - What are the local community's goals?
 - **How will we get there?**
 - Develop feasible solutions to address problems and meet goals



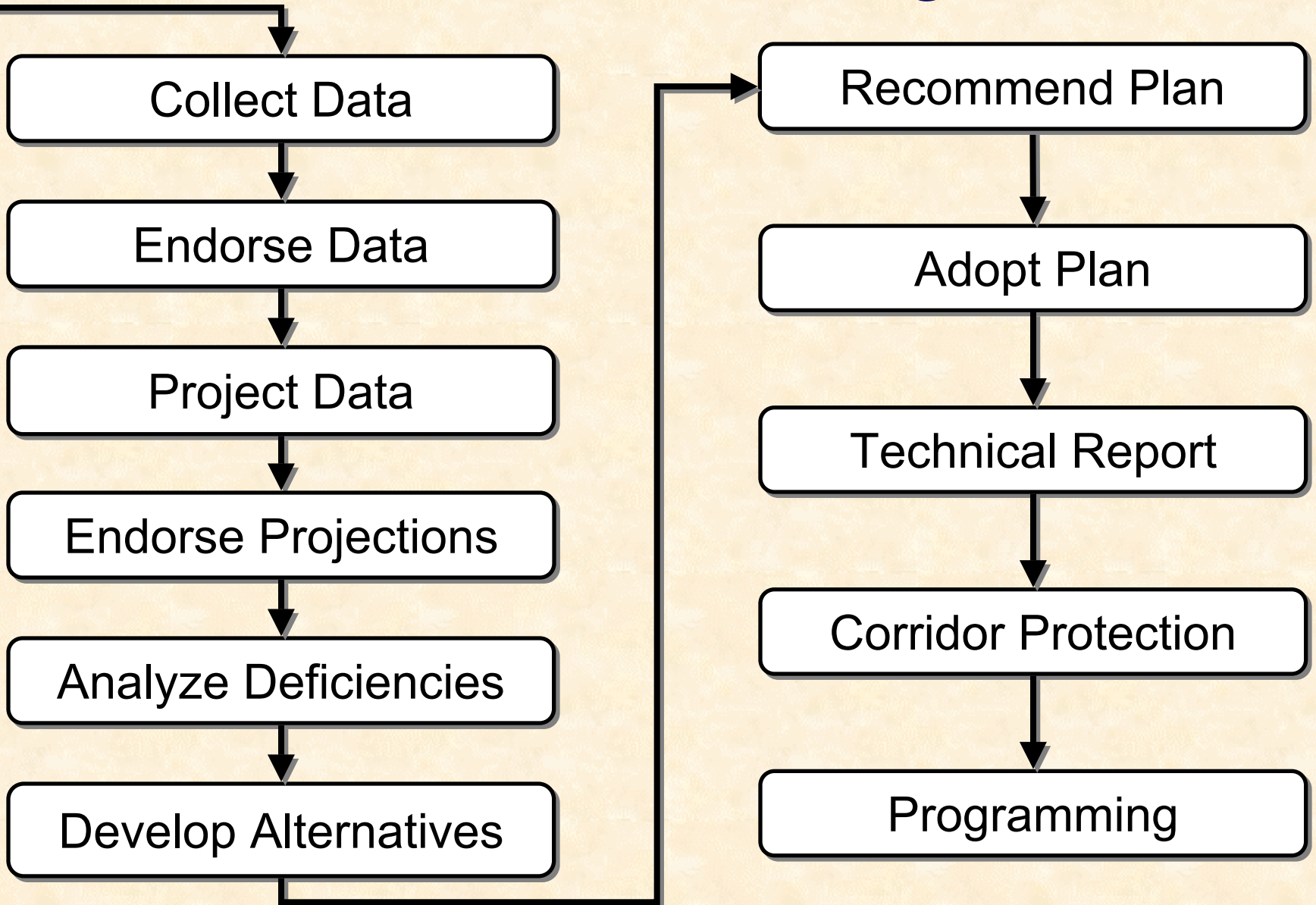
What is Long Range Transportation Planning?

- ***Benefits:***
 - Integration with land use planning and the development process
 - Minimum disruption for citizens
 - Cost savings

Transportation Planning Process



Transportation Planning Process



Relationship Between Transportation Plans

**Comprehensive
Transportation Plan
(25-30 Year Plan)**

**TIP
(7 Year Plan)**

Data Collection

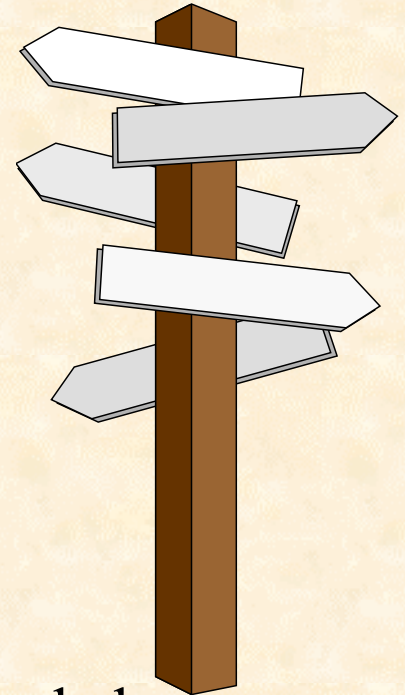
- Input from local area representatives
- Socio-economic, housing and population data
- Accident history and traffic data
- Bridge and roadway conditions
- Environmental and cultural concerns
- Current TIP projects and feasibility studies in the area

Data Analysis

- Analyze existing travel patterns using the traffic allocation method for Topsail Island
- Analyze existing housing and socio-economic data
- Project future land use, employment and housing
- Identify anticipated future deficiencies on the existing street system
- Locate Environmentally Sensitive Areas

Comprehensive Transportation Plan

- **Multimodal**
 - Highway
 - Public Transportation and Rail
 - Bicycle
 - Pedestrian (future)
- **Recommendations**
 - Existing, Needs Improvement, Recommended
- **Highway Categories**
 - Freeways, Expressways, Boulevards, Other Major Thoroughfares and Minor Thoroughfares



Freeway Facility



US 74 Near Waynesville



US 264 East of I-95

- High mobility, low access
- 55 mph or greater
- Cross-section: Minimum 4 lanes with a median
- Connections provided only at interchanges; all cross streets are grade-separated
- Driveways not allowed
- Traffic signals not allowed
- *Examples: I-40, I-95, US 64 between Rocky Mount & Williamston, US 1 between Raleigh and Sanford*

Expressway Facility



US 221 (Marion Bypass)



US 220 in Rockingham County

- High mobility, low access
- 45 to 60 mph
- Cross-section: Minimum 4 lanes with a median
- Connections: Interchanges (major cross streets) and at-grade intersections (minor cross streets)
- Driveways are limited in location and number; right-in/right-out only
- Traffic signals not allowed
- *Examples: US 117 north of I-40, US 74 in Columbus County*

Boulevard Facility



US 70 East of Goldsboro



Cary Parkway

- Moderate mobility, moderate access
- 30 to 55 mph
- Cross-section: Minimum 2 lanes with a median
- Connections: At-grade intersections for most major and minor cross streets
- Driveways allowed - primarily right-in/right-out; encourage consolidation and/or sharing of access
- *Examples: US 1 in Raleigh, NC 55 (Holly Springs Bypass), US 70 between Clayton and Garner*

Major/Minor Thoroughfares



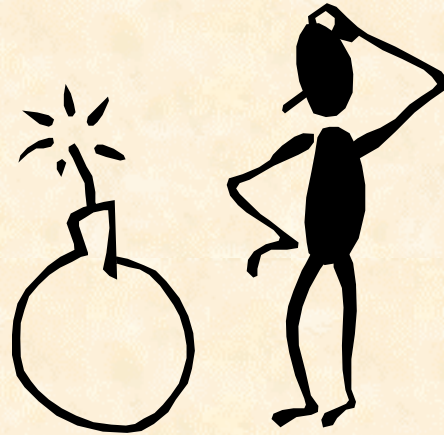
US 441 South of Dillsboro



US 13 North of Ahoskie

- Balanced mobility and access
- 25 to 55 mph
- Cross-section: Minimum 2 lanes, no median; includes facilities with a continuous left turn lane
- Connections: At-grade intersections
- Driveways allowed with full movements; consolidate or share connections if possible
- *Examples: NC 86 north of Hillsborough, US 64 in Siler City, US 70 through Kinston, NC 168 in Currituck County*

What can be done?



Develop a Comprehensive
Transportation Plan that addresses the
current and future needs of the areas
within Columbus County

Contacts

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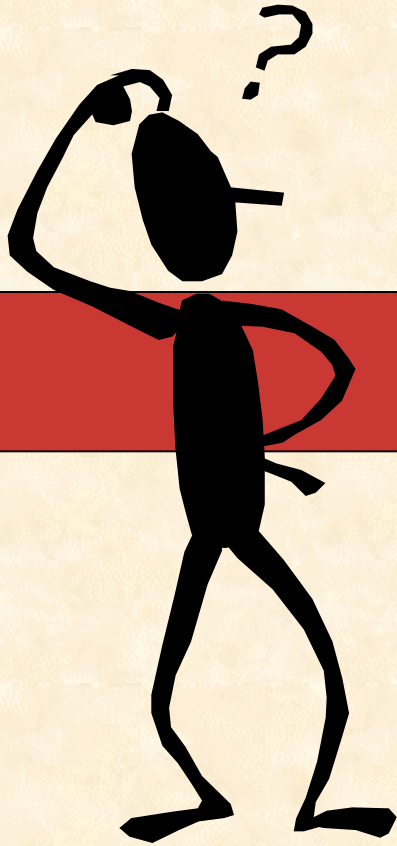
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<http://www.ncdot.org/doh/preconstruct/tpb/>



Questions??