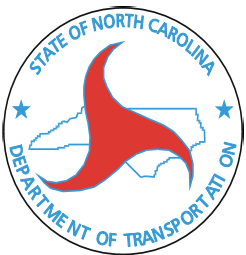

GIS Proposal

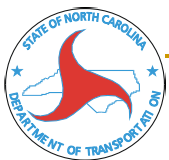
NCDOT Board of Transportation (BOT)
EPPC Meeting

Debbie Barbour
November 5, 2008



Follow-up from September BOT meeting

- Staff from NCDENR and NCDOT met to discuss how to advance update of GIS mapping
- Developed a proposal regarding GIS and shared with the Interagency Leadership Team (ILT) at their meeting on October 6, 2008 and obtained their support



Benefits of Using GIS

Reduces field time for delineations, surveys, and regulatory verifications

Reduces design time by eliminating the need to prepare as many preliminary designs for alternatives

Reduces total project preliminary engineering cost



Potential Savings of Time & Cost

If GIS were used to select the LEDPA for Crescent Road in Kinston, the following time and cost savings would have been realized:

Field Delineation Cost Savings	=	\$ 106,000
Design Cost Savings (est.)	=	\$ 320,000
(EST) Total Cost Savings	=	\$ 400,000

Field Delineation Time Savings	=	5 to 6 weeks
Design Time Savings	=	3 to 4 months
(EST) Total Time Savings	=	4 to 5 months



Proposal for BOT

- NCDOT provides funds for update of necessary high priority transportation GIS Layers in Lenoir County at an approximate cost of \$ 505,000 (subject to funding availability)
- The ILT has endorsed the Kinston Bypass as a second GIS pilot project in addition to the Carey Road project (already identified as a GIS pilot)



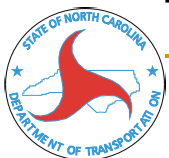
Project R-2553 Kinston Bypass

- US 70 Bypass
- Four-lane divided freeway on new location
- 12.4 miles in length
- Likely will be multiple study alternatives
- Currently scheduled for Right of Way acquisition to begin in FY 2015
- Project planning study is just starting



Why should NCDOT provide funding for GIS update in Lenoir County?

- Most opportunity exists for potential cost savings in preliminary engineering funds on new location projects
- Three new location projects in Lenoir County could benefit from updated GIS layers
 - Pink Hill Bypass, Carey Road Extension, Kinston Bypass
- Mapping could benefit Global TransPark future expansion opportunities



Why should NCDOT provide funding for GIS update in Lenoir County?

- Mapping can provide benefits for long-range transportation planning in Lenoir County
- Begin with a small subset of state and a smaller expenditure of funds
- Opportunity to prove business case for GIS update across the state



What is Required?

- We have previously obtained ILT endorsement of the proposal and agreement to include Kinston Bypass as a GIS pilot project
- Available funding to proceed with update (could use preliminary engineering funds for the Kinston Bypass)
- A minimum of one year to update GIS layers after contract is executed
- BOT endorsement



In Conclusion

Seeking a resolution of support from the
NC Board of Transportation

Questions?

