

Opening Opportunities Through Creative Infrastructure Approaches

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January 10, 2019

Role of Transportation

- Connects people to jobs, education, healthcare
- Must compliment of economic opportunities/growth
- Enhances quality of life



Challenges

- NC's population is growing
- Interstates represents 1% of the network, but carry 25% of our traffic and 50% of our freight traffic
 - Interstate's purpose was defense and commerce; neither look the same today
 - Commerce doesn't reside on the Interstate network
- Existing highway/bridge infrastructure is aging/no longer meets current demands and is outpacing available funding
- Existing infrastructure, aka utilities, are facing similar challenges
 - As we become more dependent on technology, many areas are still without reliable broadband

Opportunities

- Leverage highway assets to support infrastructure in interest of commerce
 - How will goods and service utilize the network (connected, autonomously, or a conduit to the user)
- Explore new federal partnerships
 - Grant programs – INFRA and BUILD
 - Shared use of rights of way

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Moving from Vision to Reality at the Speed of Change



I-95/US 70

INNOVATIVE TECHNOLOGY & RURAL MOBILITY CORRIDOR IMPROVEMENTS



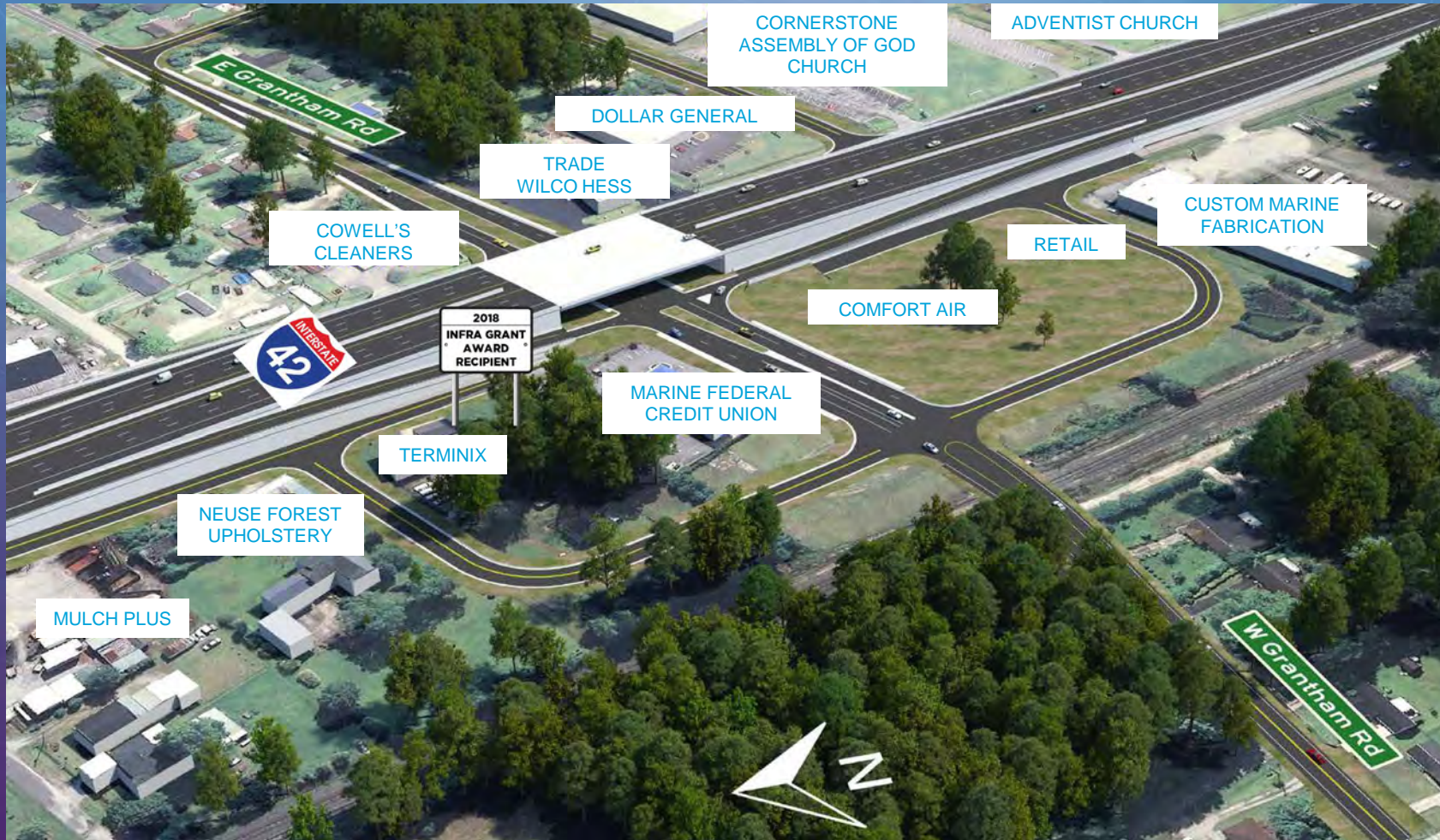
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- One of many friction points along U.S. 70 due to not having a freeway (Future I-42)
- U.S. 70 supports the Seymour Johnson Air Force Base, Cherry Point Marine Base, Camp Lejeune Marine Base and Morehead City Port



Converting U.S. 70 to a freeway (Future I-42) will reduce delays



Normal weekend and
holiday delays for I-95



- First major widening (from four to eight lanes) of I-95
- Provides reliable connectivity to Fort Bragg
- Provides “backbone” broadband to increase telecommunications footprint in Eastern North Carolina



INFRA Project Summary

- **I-95**
 - The I-95 investment will widen the highway to eight lanes for 15 miles from NC 82 (Exit 65) to I-40 (Exit 81) and upgrade (6) six interchanges
 - Install a fiber optic trunk line and microcell towers along the full 181-mile length of I-95 from the South Carolina border to the Virginia border
- **U.S. 70 (future I-42)**
 - The U.S. 70 portion of the Project completes the remaining gaps between I-40 and Havelock and upgrades the entire corridor to freeway standards
 - Install a fiber optic trunk line and microcell towers along the full 125-mile length between I-40 and Havelock

Moving from Vision to Reality at the Speed of Change

Funding Category	<u>QUANTITATIVE</u>	<u>LOCAL INPUT</u>	
	Data	Division	MPO/RPO
Statewide Mobility	Congestion = 30% Benefit-Cost = 25% Freight = 25% Safety = 10% Economic Comp. = 10%	100%	--
Regional Impact	Congestion = 20% Benefit-Cost = 20% Safety = 10% Accessibility/Connectivity = 10% Freight = 10%	70%	15%
Division Needs	Congestion = 15% Benefit-Cost = 15% Safety = 10% Accessibility/Connectivity = 5% Freight = 5%	50%	25%

LEVERAGE

Note: Several Region(s) and Division(s) use Alternate Criteria & Weights

Route	From	To	Project Cost	State Funding	Infra Participation	Leverage
Future I-42 (US 70)	Just west of New Bern	Havelock Bypass	\$455M			
I-95	Exit 81 (I-40)	Exit 56 (NC 82)	\$670M			
		Total	\$1,125M	\$978M	\$147M	87%

- In STI, Federal Grants are exempt from prioritization; therefore, federal grant dollars can increase leverage for benefit/cost in NCDOT's process.
- Increased state dollars with innovative plan made the project compete well at federal level

INFRA Grant Summary

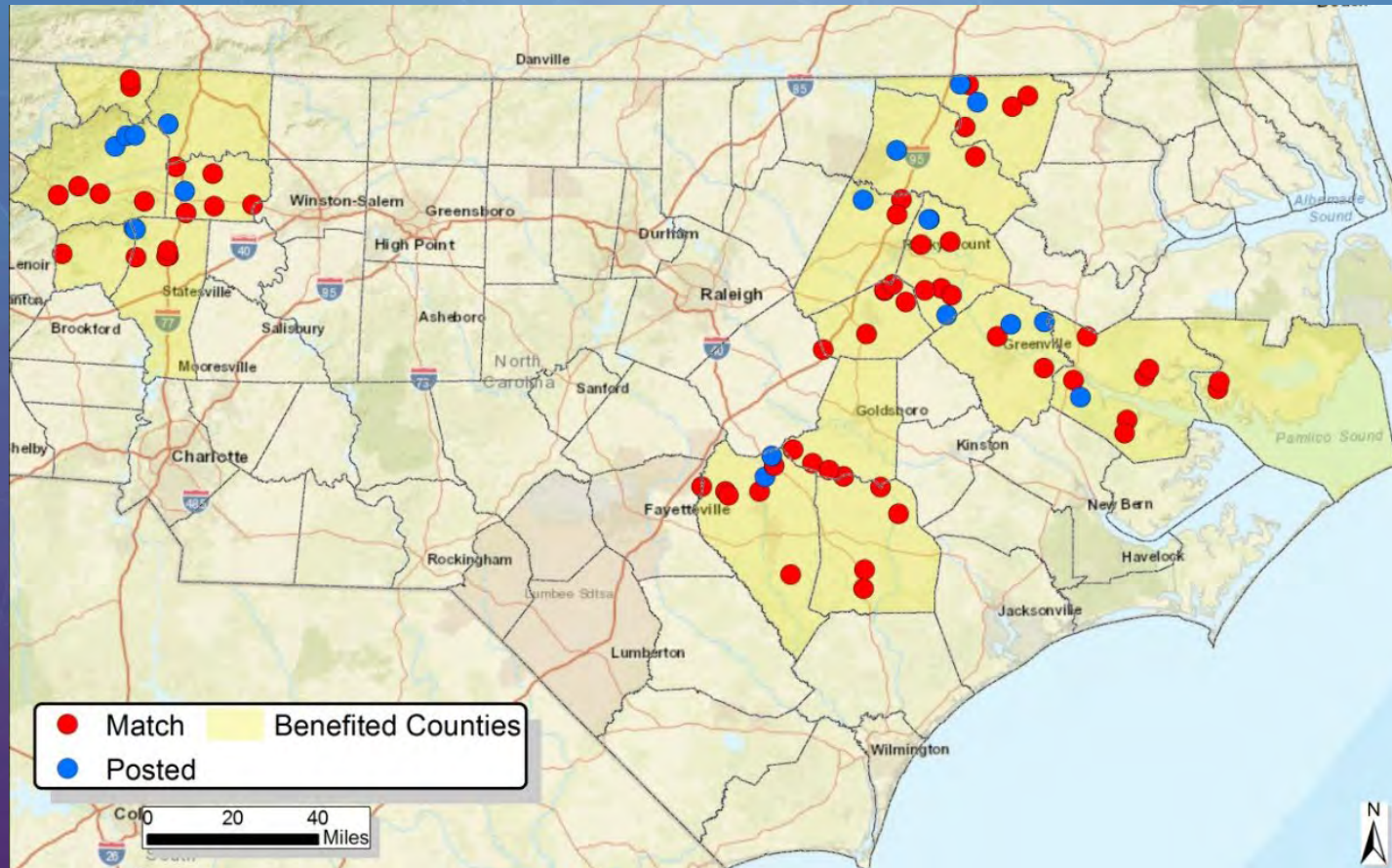
- 25 miles of major widening on I-95
- Helps connect U.S. 70 (into a freeway: Future I-42) from I-40 to Morehead City Port
- Connects four military bases: Fort Bragg, Seymour Johnson, Camp Lejeune, and Cherry Point
- Provides reliable freight movement for Morehead City Port
- 300 miles of broadband backbone to connect Eastern North Carolina to telecom
- Due to NCDOT's data-driven process, an INFRA Grant Award was successful

***Growing Rural Economy & Agriculture Through Transportation & Technology
Enhancement or Replacement***



GREATER

GREATER-NC



GREATER-NC

- ~\$119M (\$94M state match; \$23M federal)
- 77 bridges total (58 structurally deficient/functionally obsolete; 19 low-weight posted bridges)
- Located in 17 rural counties dependent on agriculture
- Includes connectivity of broadband

GREATER-NC

- Agriculture
 - Volume business that requires larger machinery and trucks to move livestock and crops
 - Supports nearly 11,000 farms in the 17 county area with cash receipts at over \$4.5B
 - Is as reliant on technology as any other business! Quality fiber is paramount to success.

GREATER-NC

- Flood Sensor
 - Each bridge will have flood sensors to assist with flood inundation mapping
 - Will assist with flash flooding and providing reliable detour routes in advance of the flooding

Summary

- NC is growing and changing
- Partnerships are critical
- Must look for ALL opportunities to leverage transportation infrastructure to enhance NC's economic competitiveness



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