

Transit, Land Use and GHG Emissions



OurTransit
F U T U R E

Triangle Transit

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October 29, 2014

Tonight's Discussion



- More transit options
- Improving the pedestrian experience
- Making Transit Easier to Use
- Land Use, Transportation and GHG
- Discussion

More Transit Options



- New and Expanded Bus Service
 - 15-min service from Southpoint-UNC on Route 800
 - Extended Saturday hours to 11 pm
 - Sunday Service 7 am to 7 pm from Chapel Hill to Durham, RTP, Raleigh, RDU Airport
 - Orange-Durham Express (ODX) from Hillsborough to Duke / Downtown Durham; extends to Efland, Mebane in 2015



More Transit Options



- More frequent service on Chapel Hill-Raleigh Express (CRX)
- 15-501 Coordination
 - Coordinate multiple transit routes in the corridor
 - Streamline and simplify services
 - More frequent service during peak and midday
 - Improve transit access from Carrboro to Durham

Improving the Pedestrian Experience



- Funds available for bus stops from the Orange County half cent sales tax
 - Improve the safety, comfort, and information at stops
 - Bus stop inventory created a baseline
 - Prioritize improvements based on need
- Review site plans and rezoning requests
- Develop an amenities guidelines and standards



Making Transit Easier to Use



- Unification of Customer Information
 - One Call Center (919) 485-RIDE
 - One Regional Farebox / Fare system
 - One real-time app (TransLoc)
 - Coming soon? One regional transit identity

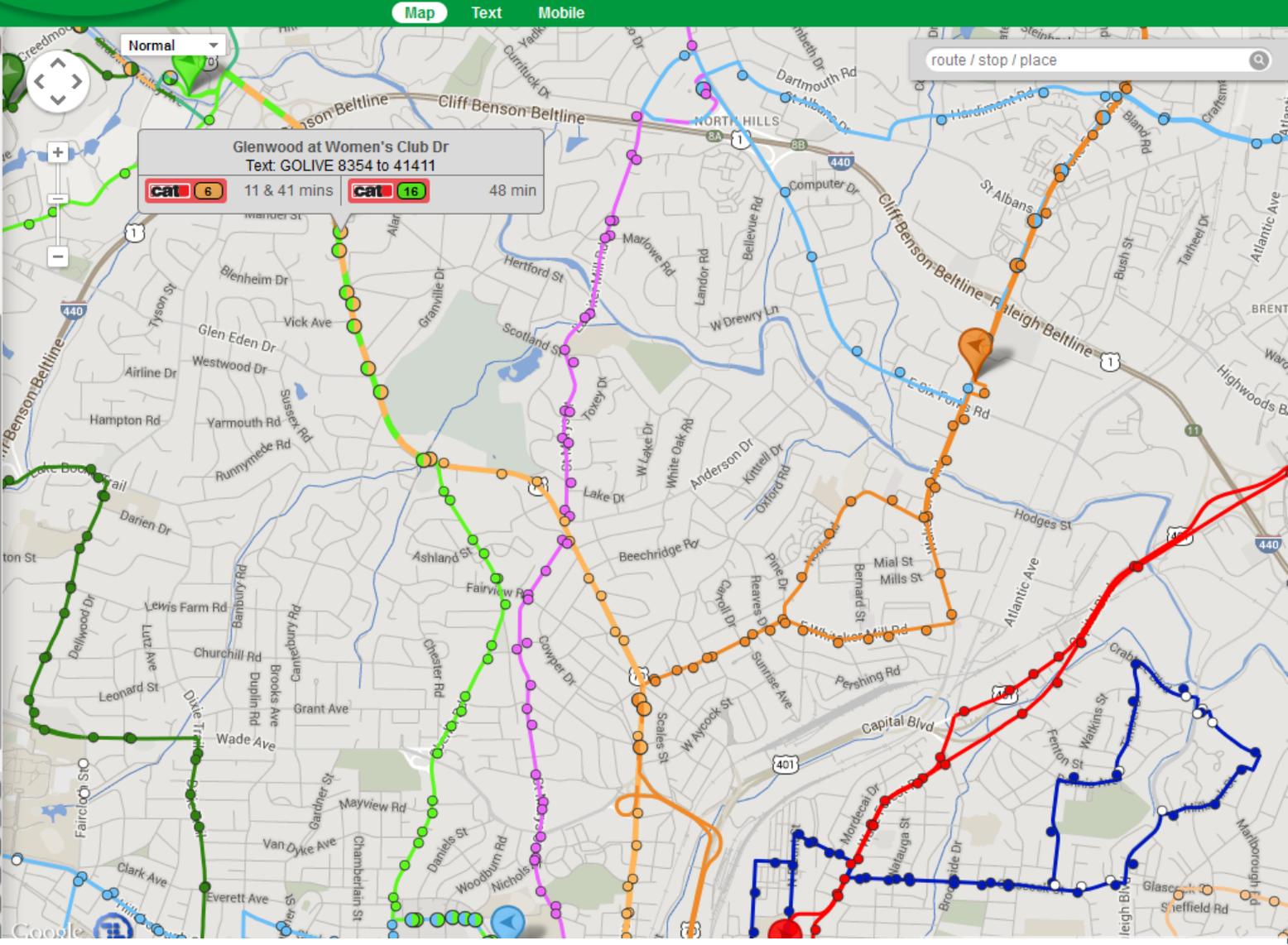


powered by TransLoc Transit Visualization

I want to find...
 Please Select Search site go

- Transit
- Rideshare
- Bike/Walk
- Telework
- Go Info
- About Us

- cat** Capital Area Transit
- 10 Longview
 - 11 Avent Ferry
 - 11L Buck Jones Connector
 - 12 Method
 - 13 Chavis Heights
 - 15 WakeMed
 - 15L Trawick Connector
 - 16 Oberlin
 - 18 Worthdale
 - 19 Apollo Heights
 - 21 Caraleigh
 - 22 State Street
 - 23L Millbrook Connector
 - 24L North Crosstown Connector
 - 25L Triangle Town Center Connector
 - 40X Wake Tech Express
 - 54L Spring Forest Crosstown
 - 70X Brier Creek Express
 - r-line Free Downtown Circulator
 - wrl Wake Forest Loop
-
- Announcements
- Cary Transit
 - Chapel Hill Transit
 - Duke University
 - Durham Area Transit Authority
 - NC State University Wolfline
 - Triangle Transit



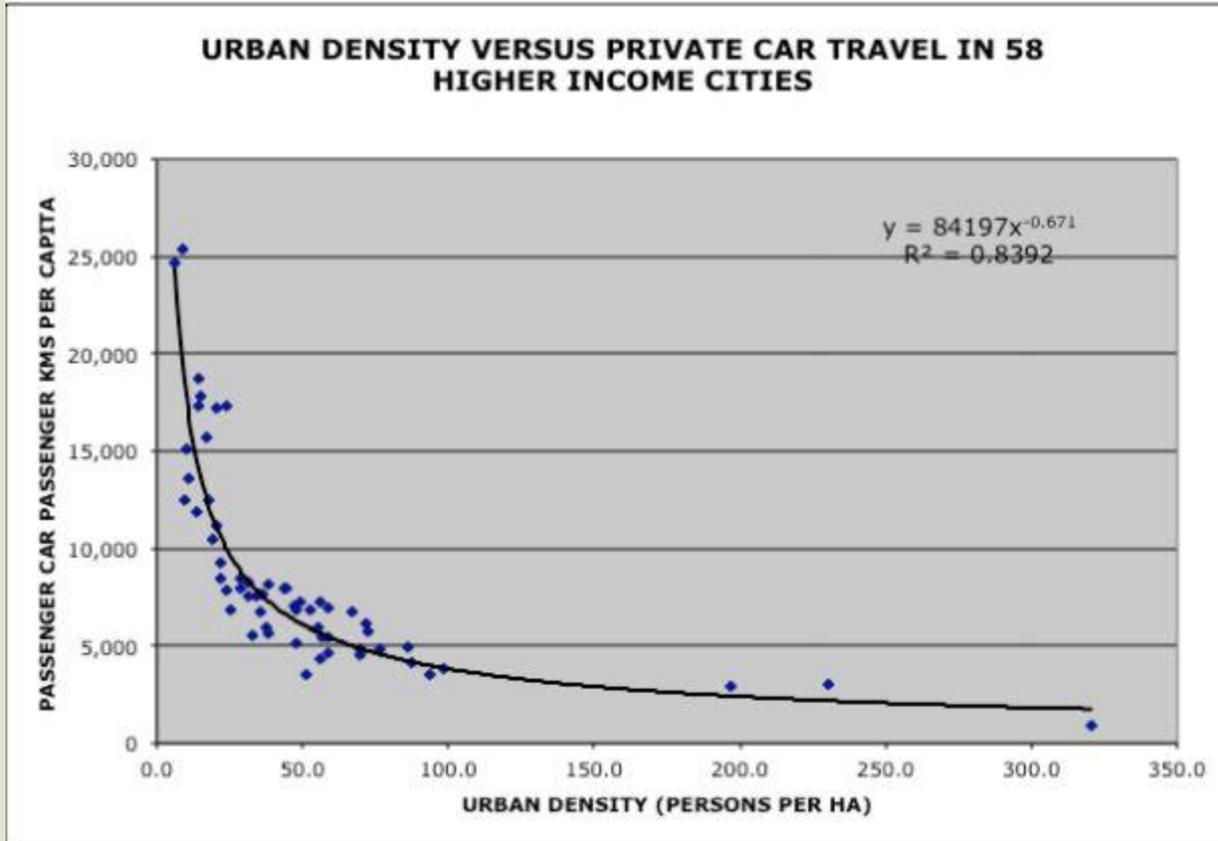
Transit Rebranding



- Re-branding:
 - CAT >>> GO Raleigh
 - DATA >>> GO Durham
 - Triangle Transit >>> GO Triangle
 - Chapel Hill Transit: Under Discussion



Land Use, Transportation, and GHG



**Rapid
reductions in
car travel with
density up to
approximately
20-25
units/acre**

Newman and Kenworthy, World Transport Policy and Practice
Volume 17.2 June 2011

Visualizing Density



Washington, DC

22 units/acre

<< -- >>



Huntersville, NC



Dorchester, MA

29 units/acre

<< -- >>



Tampa, FL

What Sustainable Transport is Really About: Compact Green Development

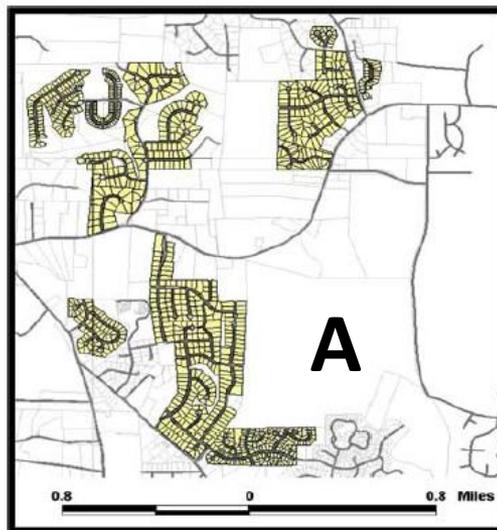


Community Travel Study: Chapel Hill / Carrboro

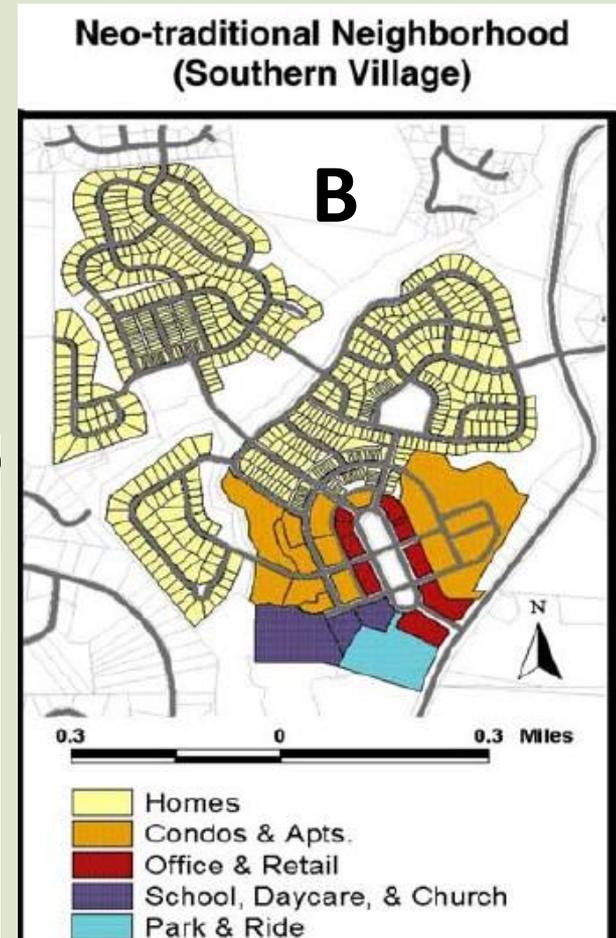


- Compact community households drove 17.4 miles fewer each day than Conventional Subdivision residents
- Vehicle Miles saved per household per year: **4367**
- Gallons of fuel saved per household per year: **211**

Switching 55 million conventional suburban households from land use pattern A to pattern B would eliminate 14.4% of US gasoline demand



Conventional Neighborhoods
(Northern Carrboro)



Public Meetings: Nov. 2014

For more information:

1-800-816-7817

info@ourtransitfuture.com

www.ourtransitfuture.com



A screenshot of the 'Our Transit Future' website. The header includes the organization's logo and a search bar. The main content area features a banner for 'DOLRT public meetings November 2013' with navigation tabs for 'Durham-Orange', 'EIS', 'Light Rail', 'Public Involvement', and 'Video'. Below the banner is a photograph of a public meeting. A text block below the photo states: 'On Nov. 12, 13 and 14, 2013, Triangle Transit hosted three public meetings to update the public on the Durham-Orange Light Rail Transit project. For anyone who missed the meetings or would like to take a second look at the materials, everything presented at the public meetings is included here.' Below this text is a link: 'To make comments online in English or in Spanish; click here to begin.' A 'Corridor Video' section is partially visible at the bottom. On the right side, there is a vertical navigation menu with buttons for 'home', 'Jump Aboard', 'learn about Our Transit Future', 'what's new OTF News', 'multimedia Library', 'get to know the Projects', 'information Just For You', and 'the future is coming Get Involved'. At the bottom right, there is a 'Translate' section with a dropdown menu set to 'Spanish' and a 'Translate' button.

Triangle Transit



Discussion

Legend

-  Proposed Light Rail Transit stations
-  Proposed Light Rail Transit stations with alternatives
-  Alternative sites for Rail Operations and Maintenance Facility

Alignment alternatives

-  Locally Preferred Alternative (LPA) alignment
-  C1 alternative
-  C1A alternative
-  C2 alternative
-  C2A alternative
-  New Hope Creek LPA alternative
-  New Hope Creek alternative 1
-  New Hope Creek alternative 2

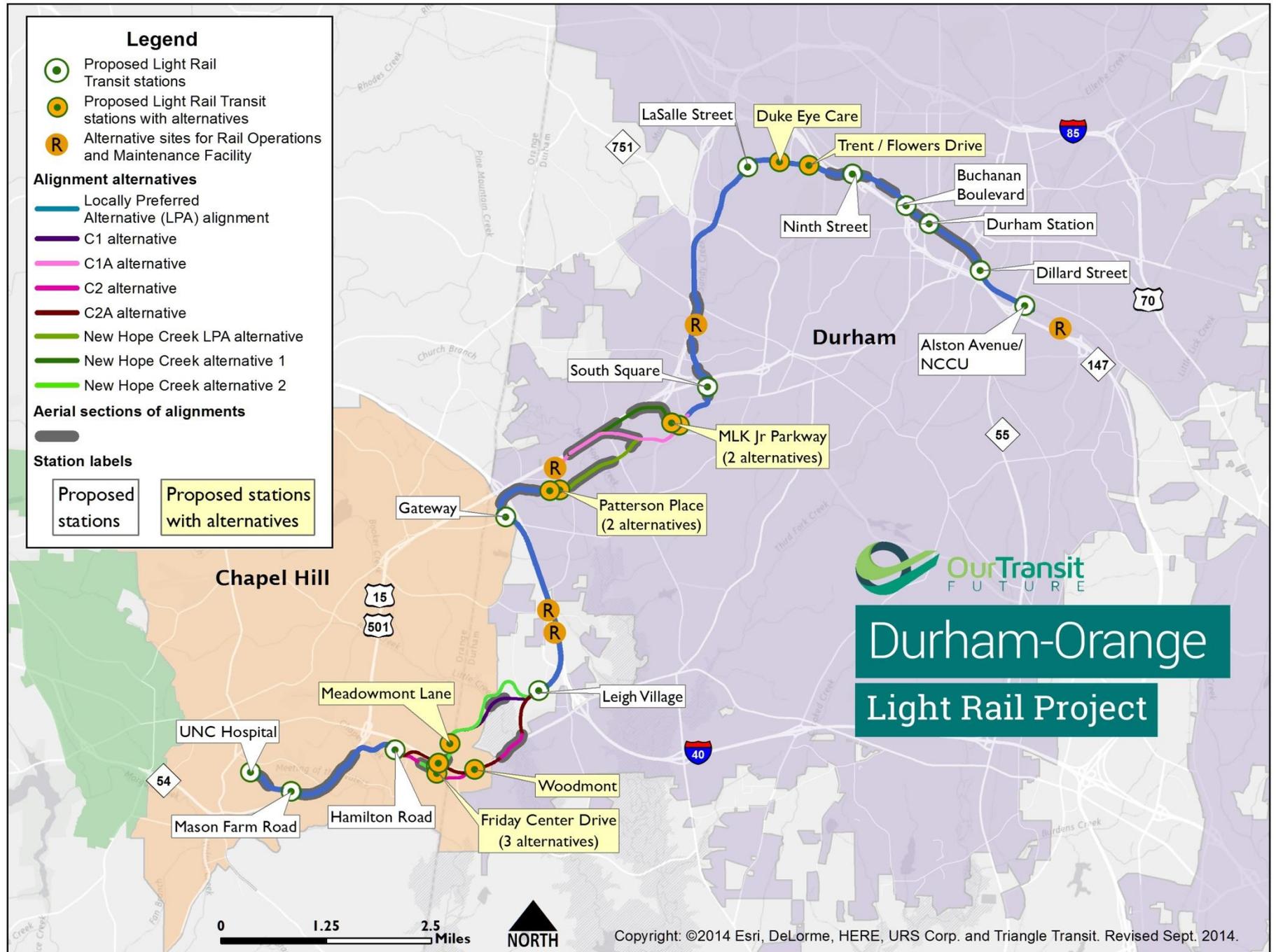
Aerial sections of alignments



Station labels

Proposed stations

Proposed stations with alternatives



Durham-Orange Light Rail Project

Goals of the Proposed Project



- **Enhance Mobility**
 - 56,000 residents and 81,000 jobs coming to Durham-Orange corridor = 255,000 trips by 2035
- **Expand Transit Options**
 - Need more options to connect to Durham and Chapel Hill
- **Serve populations likely to use transit**
 - Low-income households; University employees; University students; Employees and patients of medical centers and hospitals
- **Foster compact development**
 - Durham and Chapel Hill development plans call for mixed-use development and higher density within the D-O Corridor

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MIN GUIDE:

PROBLEM

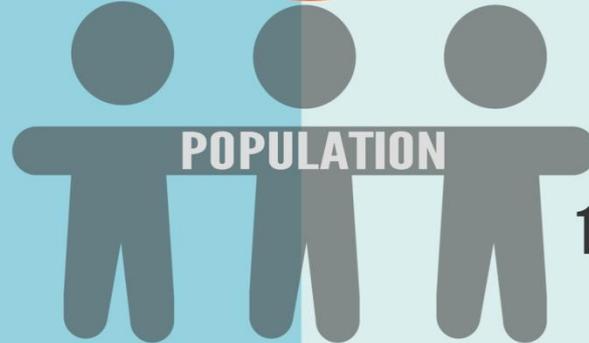
CURRENT POPULATION
IN TRIANGLE

1.6 million

EXPECTED POPULATION
IN TRIANGLE

2.9 million

2040



1.6 million

2010



2005 POPULATION
WITHIN DURHAM / ORANGE CORRIDOR

175,000

EXPECTED 2035 POPULATION WITHIN
DURHAM / ORANGE CORRIDOR

231,000



GROWTH = CONGESTION

Now Playing: Fall 2014



- New and Expanded Bus Service

- Orange-Durham eXpress (ODX) from Hillsborough to Duke / Downtown Durham; extends to Efland, Mebane in 2015
- On-time performance improvements to Route 400 (Durham-Chapel Hill)
- Extended Saturday hours to 11 pm
- Sunday Service 7 am to 7 pm from Chapel Hill to Durham, RTP, Raleigh, RDU Airport

- All changes took place August 2014

- Additional improvements to DATA services in Durham



Map Legend

Durham-Orange LRT

 Locally Preferred Alternative

 Proposed stations

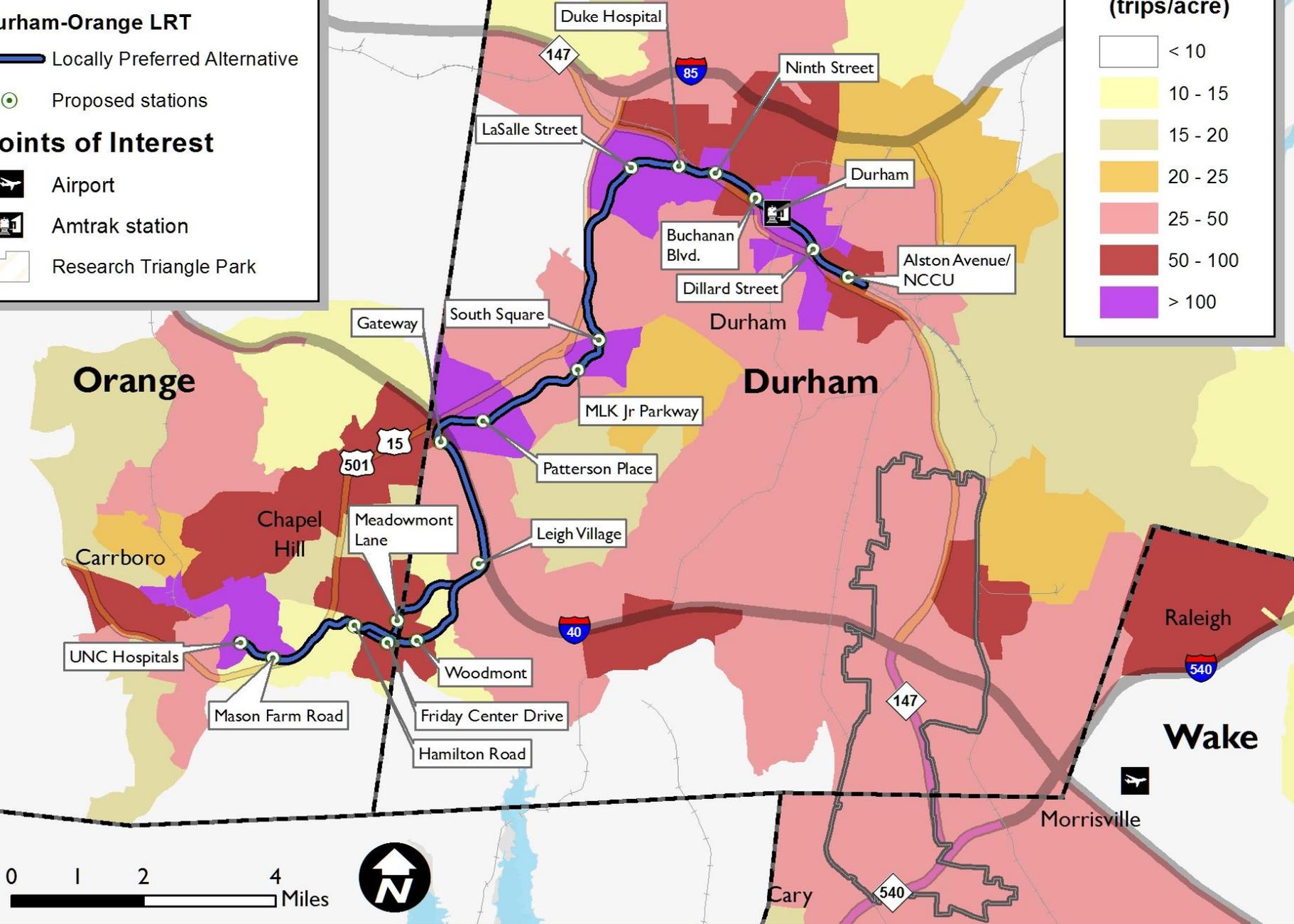
Points of Interest

 Airport

 Amtrak station

 Research Triangle Park

Travel intensity (trips/acre)



UNC Hospital

LaSalle St /
Duke Hospital

Ninth St

Downtown
Durham

South
Square
Area

Patterson
Place

Alston
Avenue

Gateway

Glen Lennox /
East 54

