

Charlotte Regional Express Lanes Network – How Do They Work?

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Let's Connect

Please log onto:

<https://pollev.com/radhakrishna408>



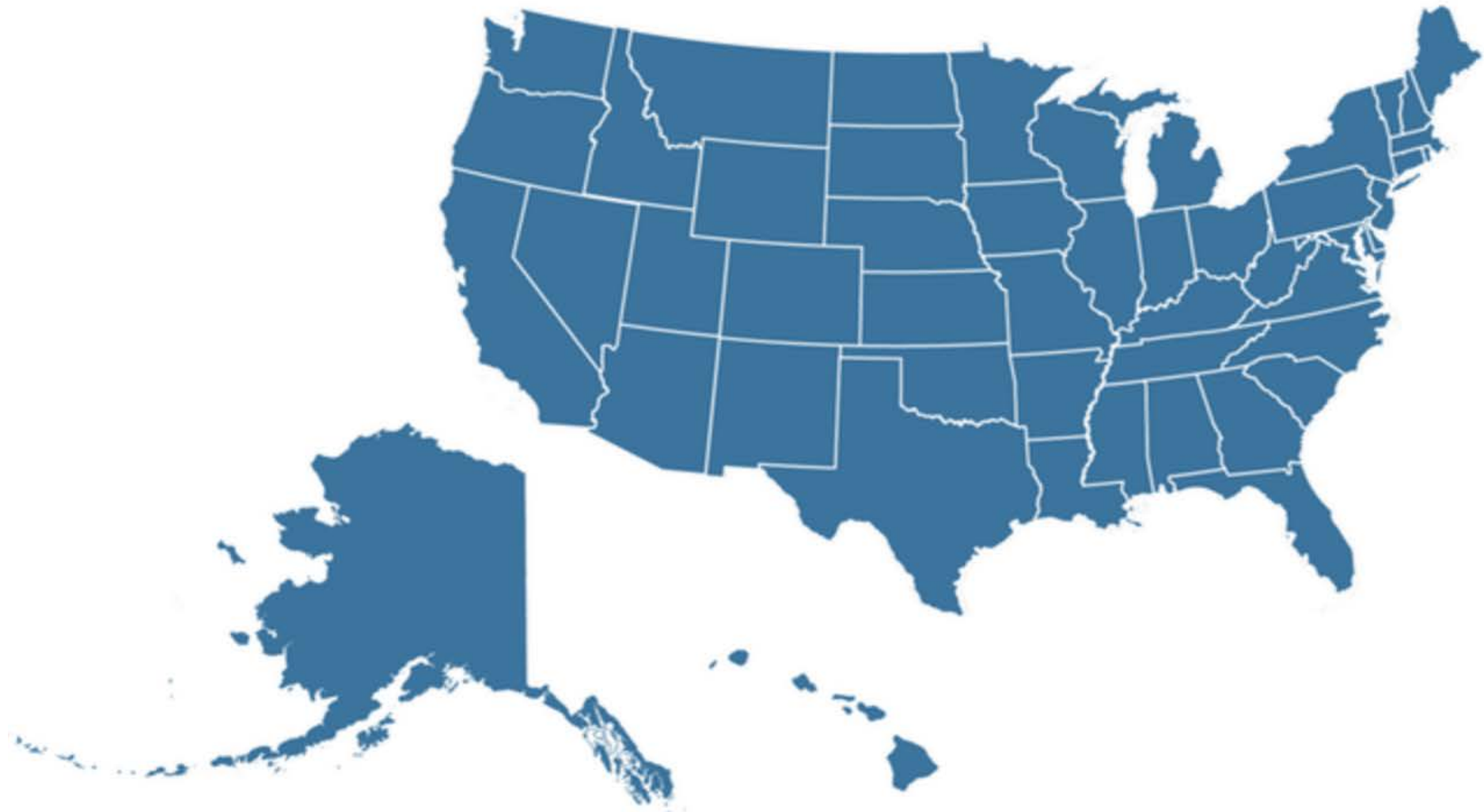
Are you a dog or a cat person?

Do you prefer Coke or Pepsi?

On average, how much time does the Charlotte commuter spend in congestion?

- A** 10-20 Hours
- B** 1-10 Hours
- C** 90-100 Hours
- D** 50-60 Hours

Click the area on the map that contains cities with managed lanes.



Which of the following states do not accept the NC Quick Pass?

New York

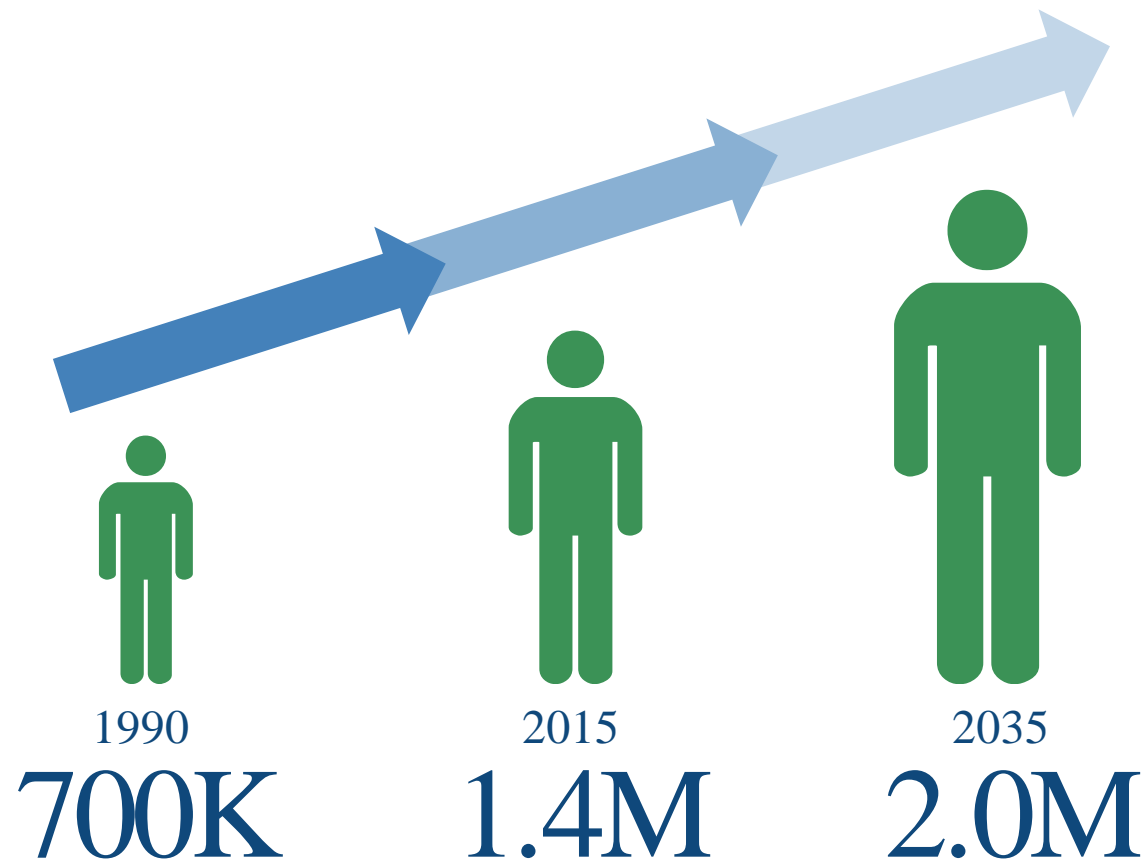
Illinois

Texas

Georgia

Charlotte is Growing...

Charlotte Area Population



Charlotte is Growing...

Increasing Capital Investment



\$1.5B+

2018 ALONE

Charlotte is Growing...

Increasing Congestion



95 HOURS

PER YEAR IN
CONGESTION



\$1,332

PER YEAR IN
COST

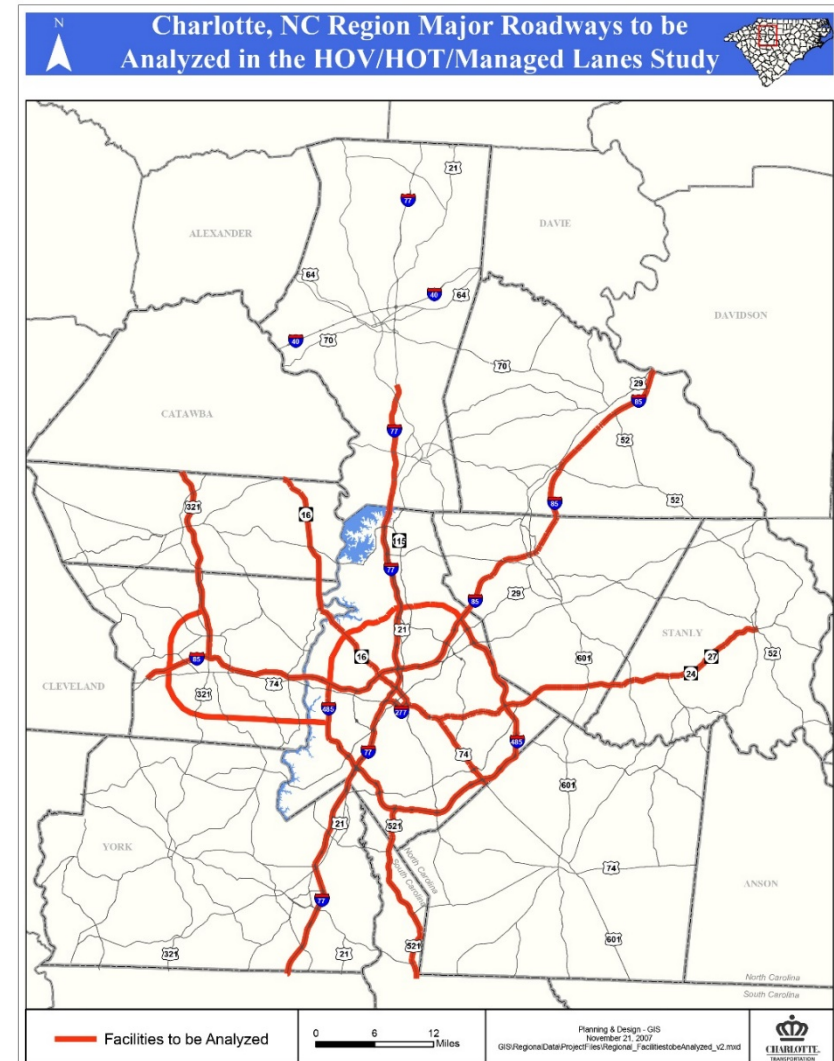
Fast Lanes Study

- Led by Charlotte DOT with support from many local, regional, and state partnering agencies
- Conducted in three phases between 2007 and 2013
- Purpose was to identify corridors where HOV/HOT/TOT facilities could help manage congestion during peak travel periods

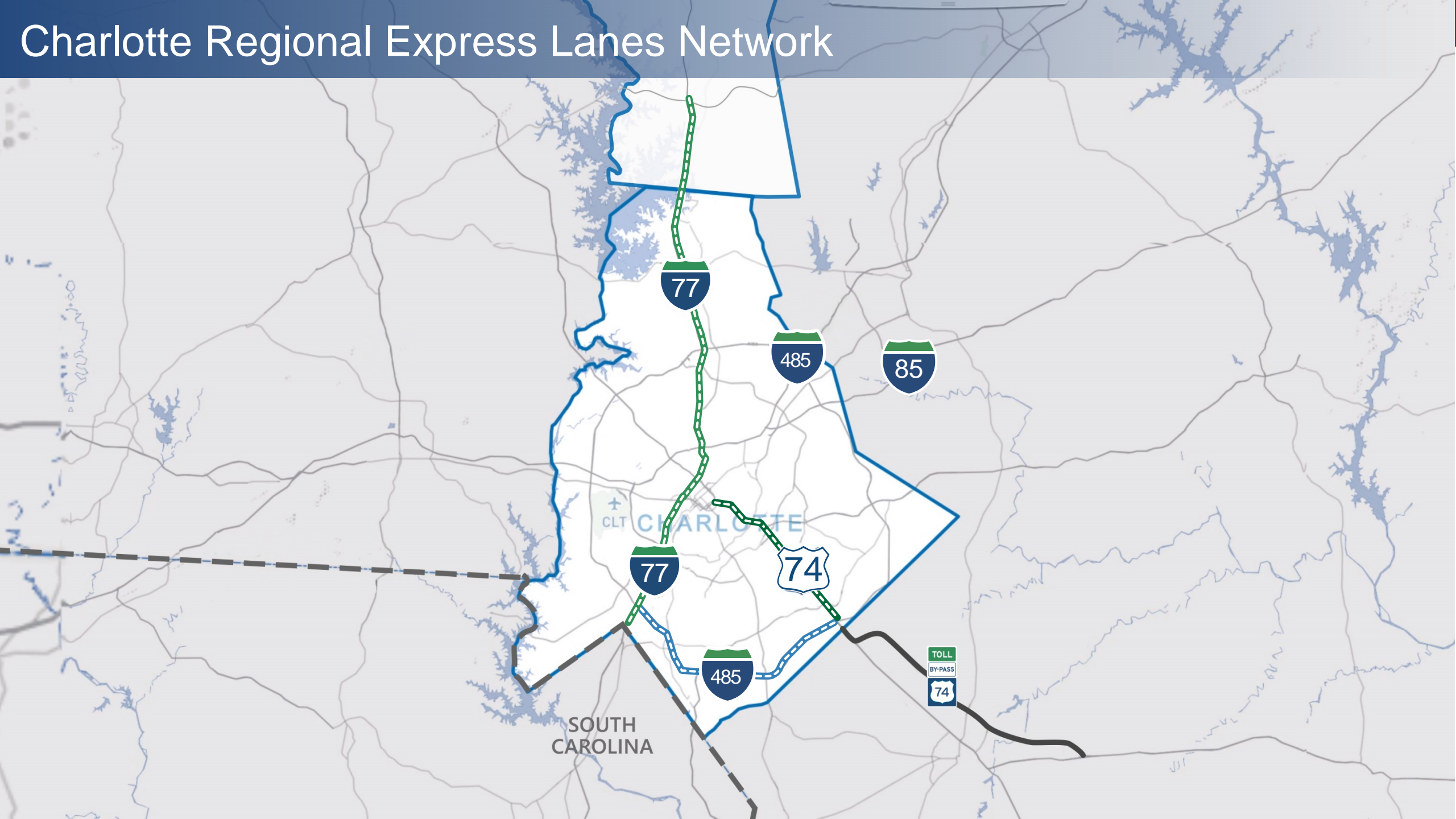


Fast Lanes Study

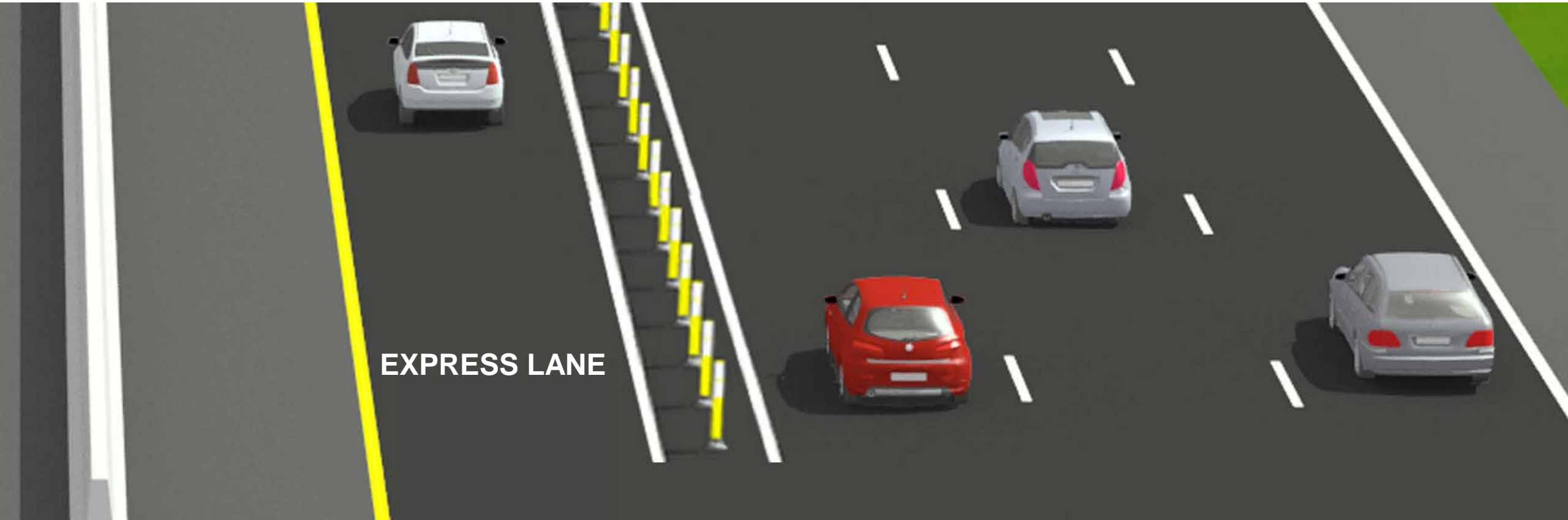
- Evaluation included operational, revenue, engineering, and public acceptance factors
- Screened 11 corridors (>300 miles in length)
- Result of the study is the Charlotte Regional Express Lanes Network



Charlotte Regional Express Lanes Network



What is an Express Lane?



A separate lane in a highway corridor in which drivers can choose to pay a variable toll for a more reliable travel time

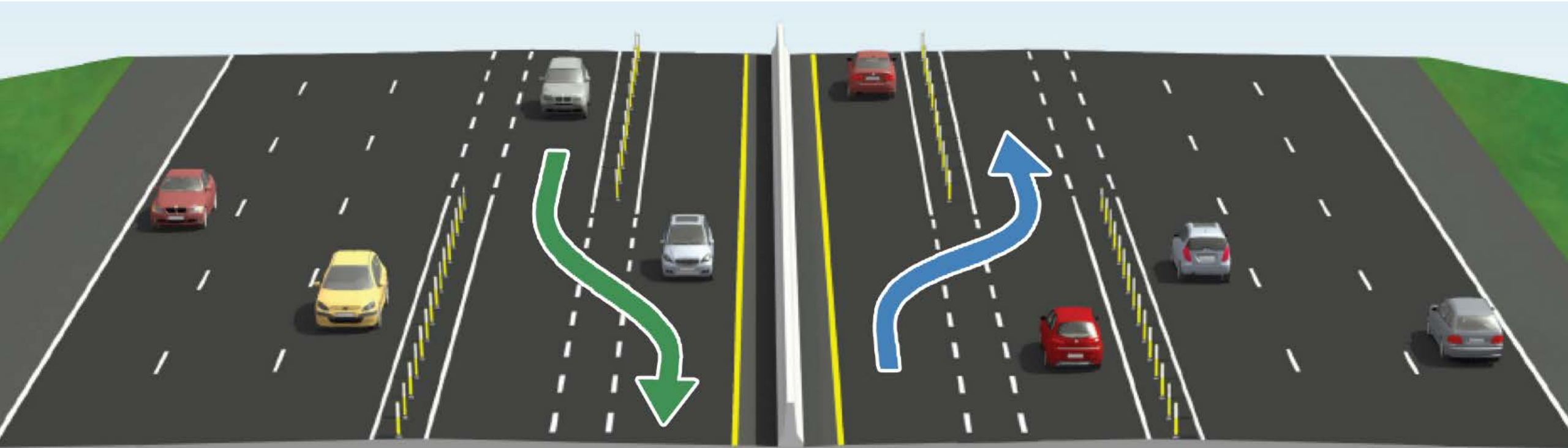
Note: transit vehicles and emergency responders do not pay tolls to use express lanes.

How Do Express Lanes Work?

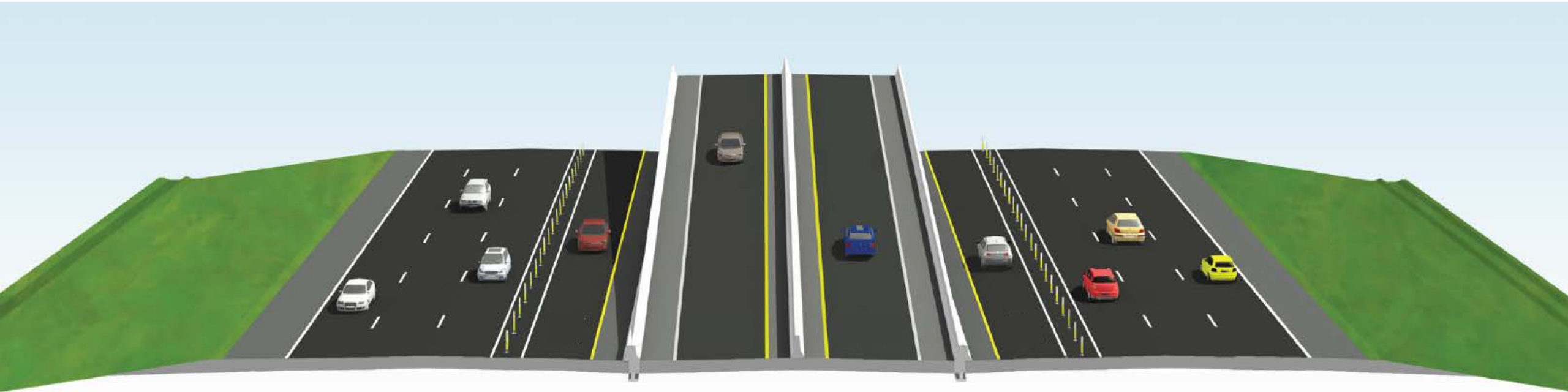
- Variable toll manages express lanes traffic volume
- Express lanes provide reliable travel times throughout the day
- Drivers know the price before choosing express lanes
- All-electronic tolling



At Grade Express Lanes Access Points



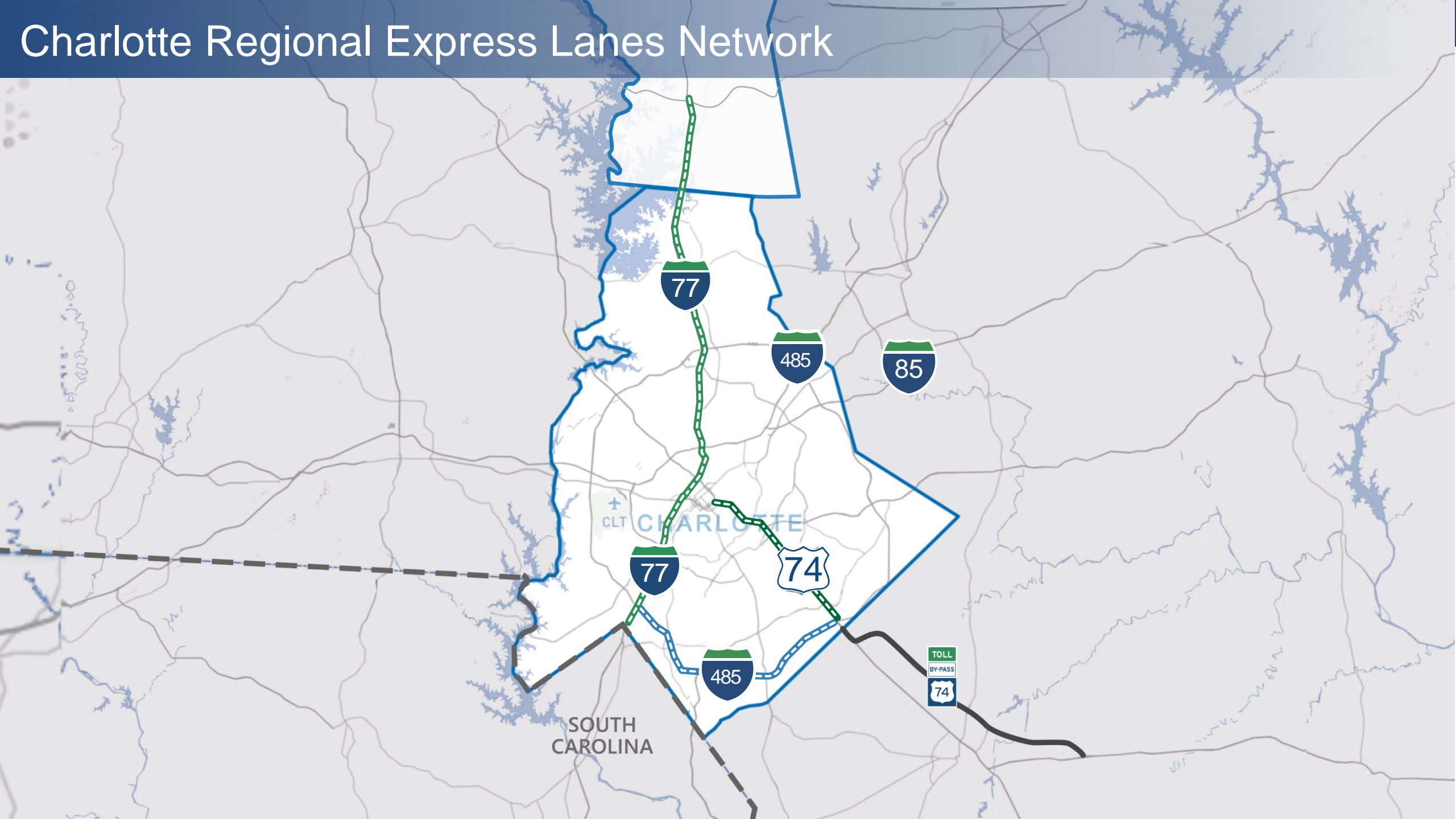
Express Lanes Direct Connectors

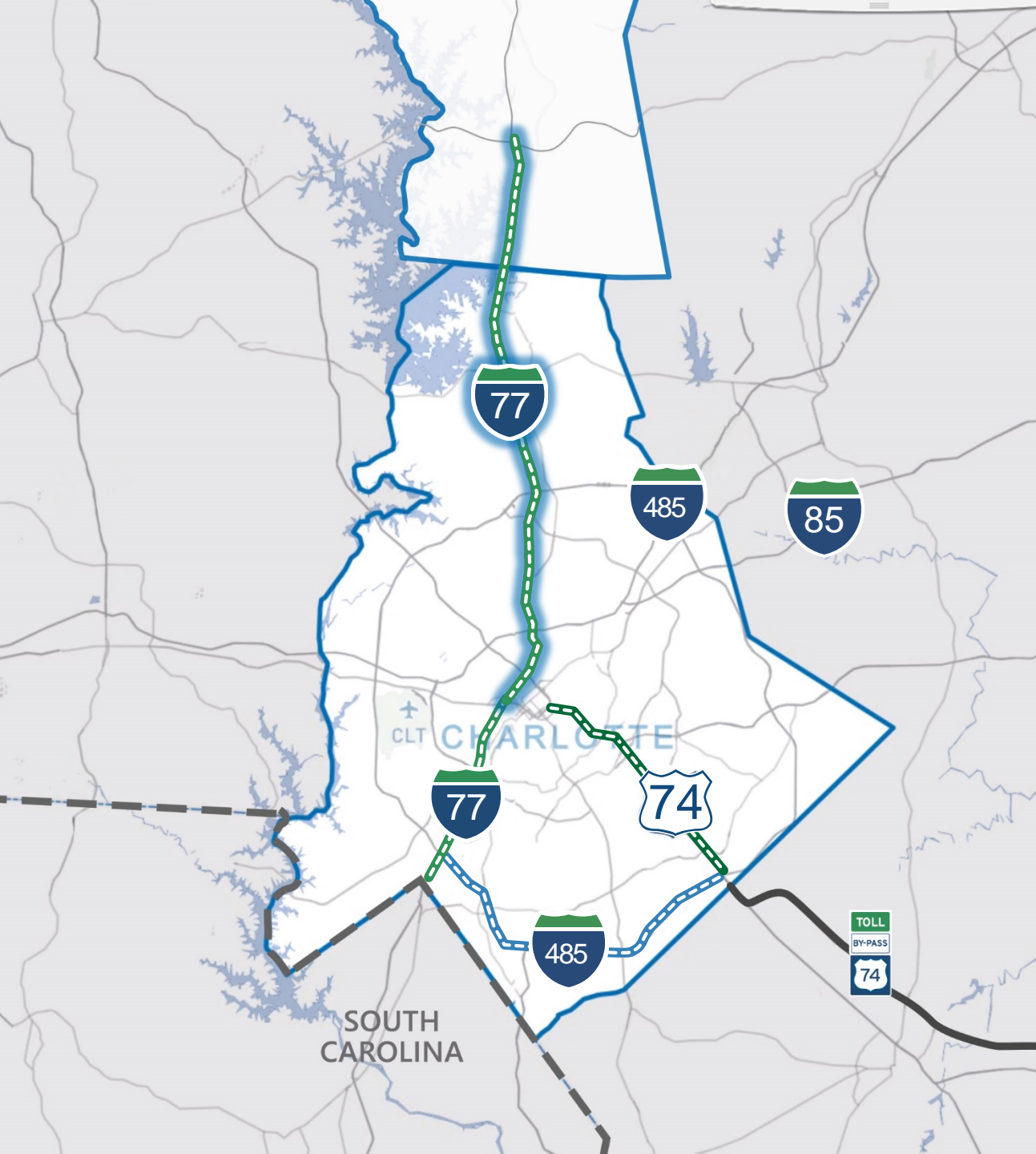


Express Lanes Nationwide



Charlotte Regional Express Lanes Network





I-77 North



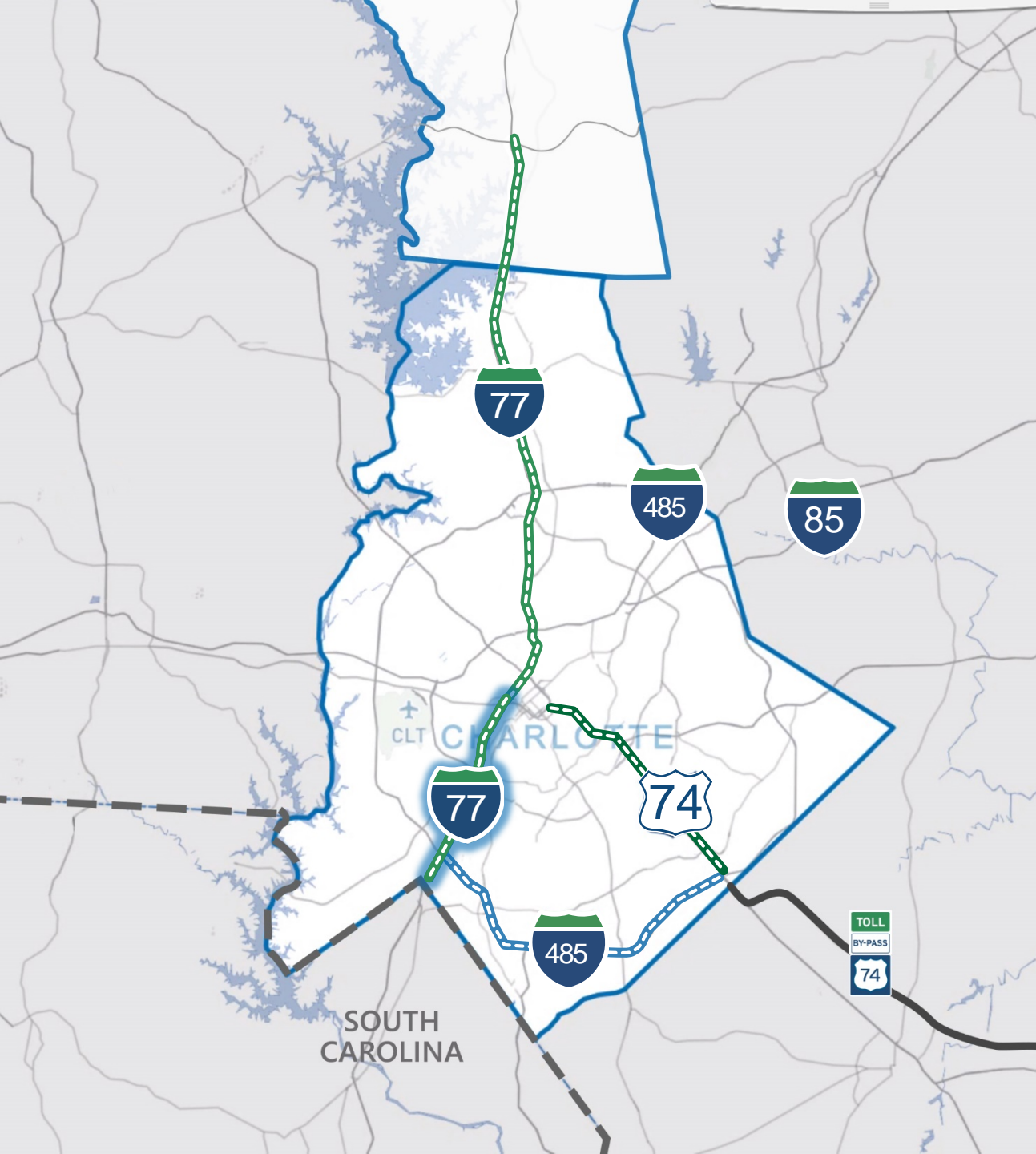
26 Miles (Uptown to Mooresville)



1-2 Express Lanes



First Segment Opens This Spring



I-77 South



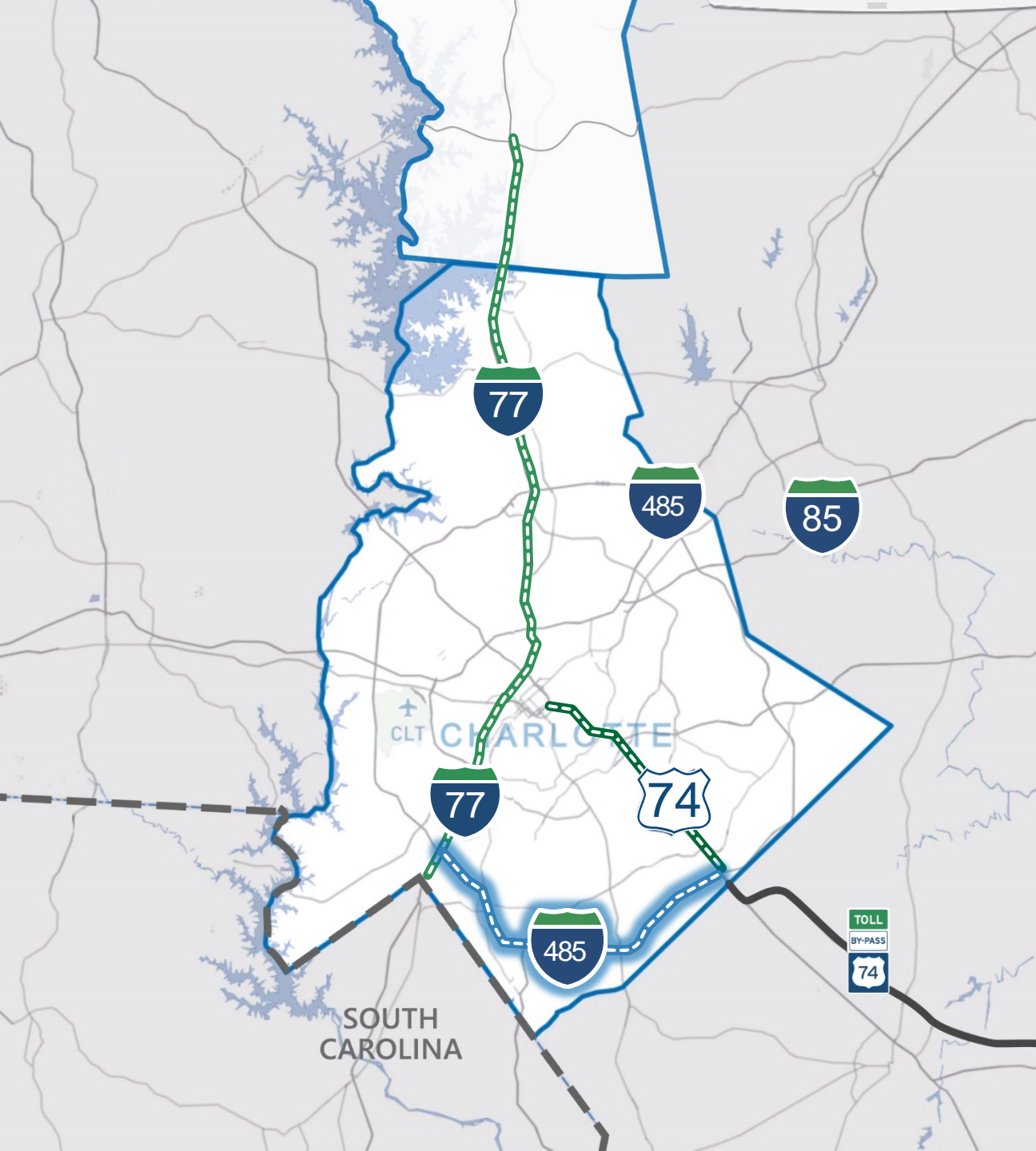
11 Miles (Uptown to South Carolina State Line)



2 Express Lanes



Planning and Design Studies Have Been Initiated



I-485



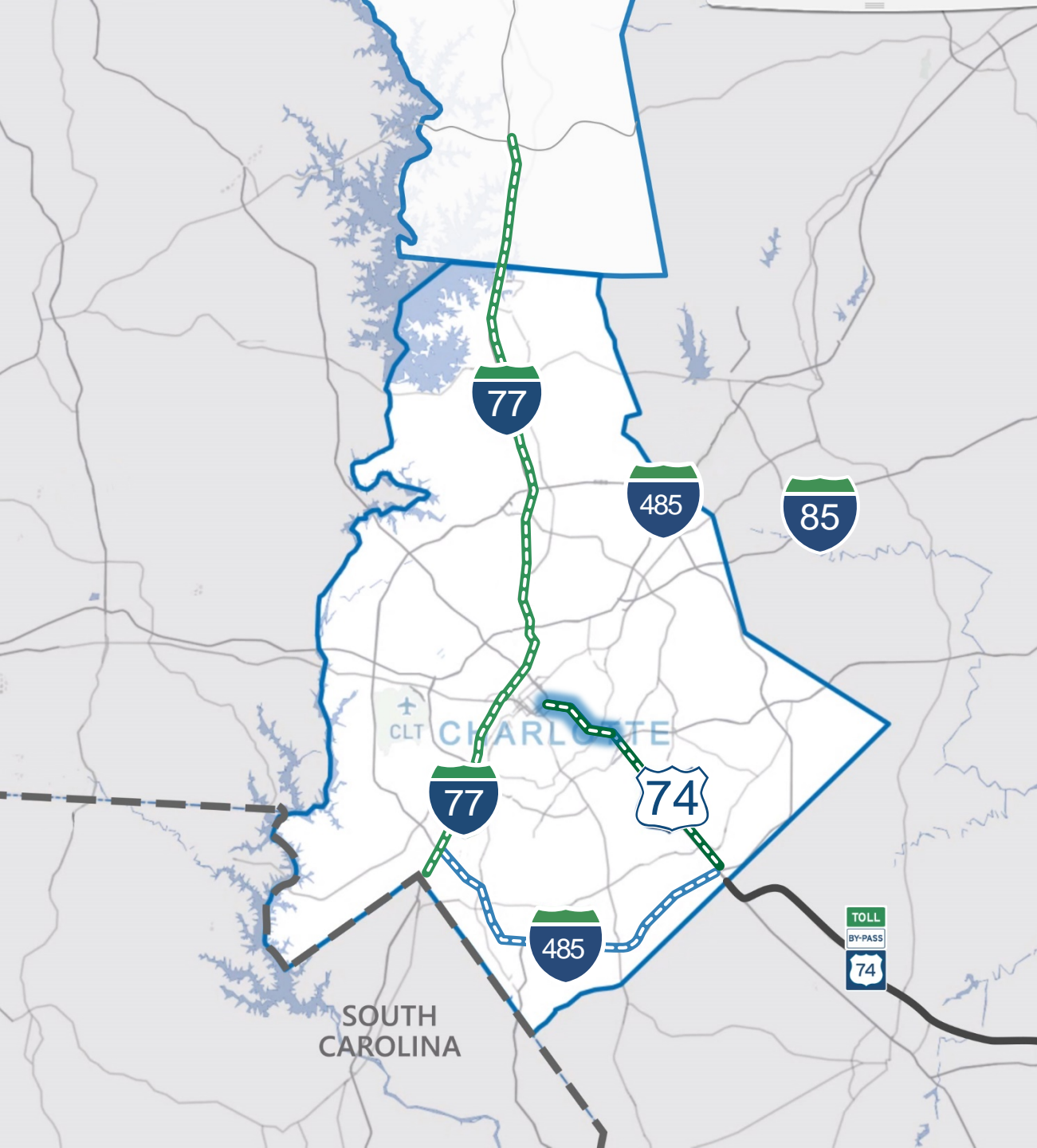
17 Miles (I-77 to
US 74)



1 Express Lane



Construction Will
Begin This Summer



US 74 Phase I



5 Miles (Uptown to Idlewild Rd)



Convert Bus Lanes to Express Lanes



Planning and Design Studies are Ongoing

US 74 Phase II



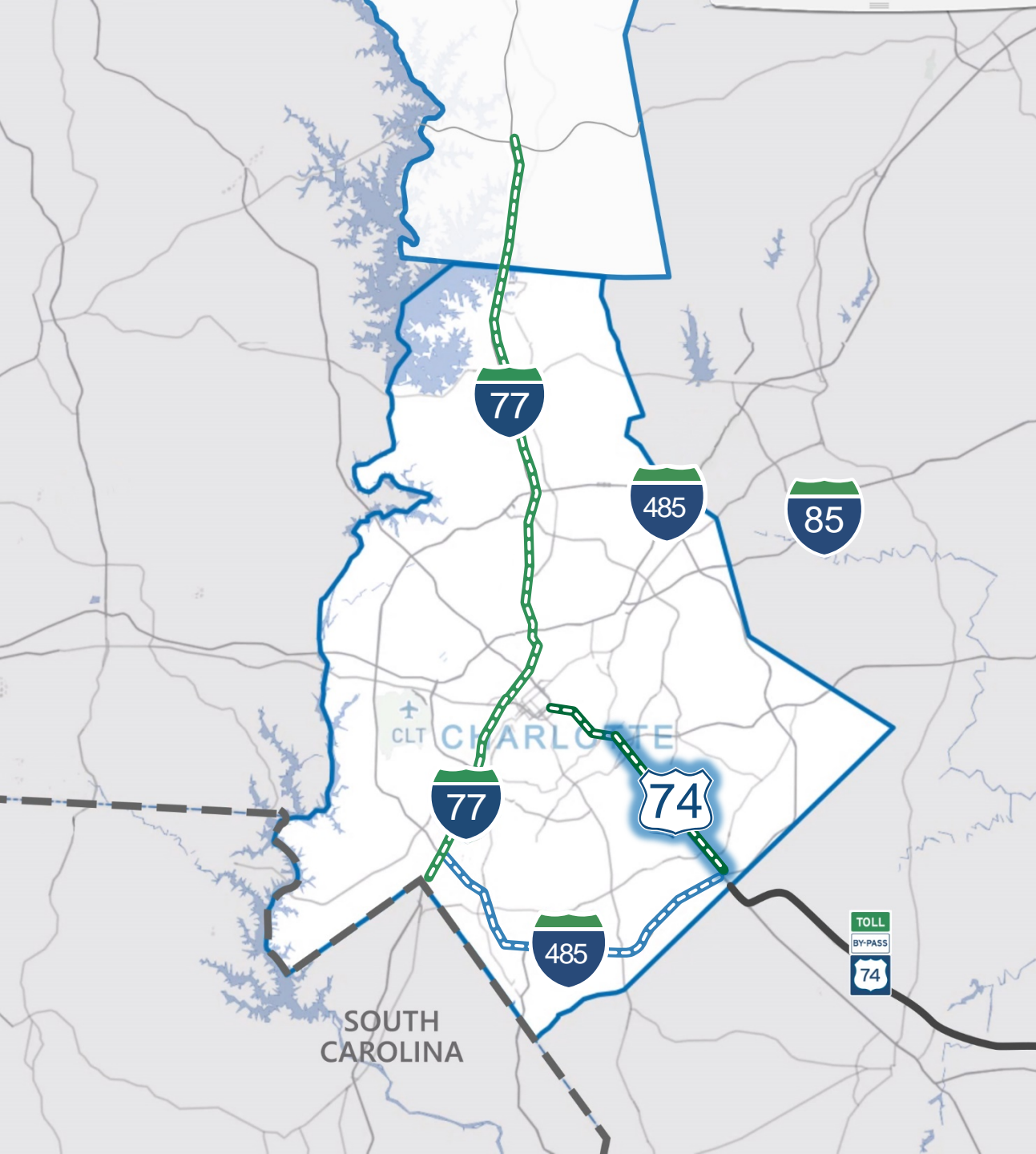
6 Miles (Idlewild Rd
to I-485)



1 Express Lane



Planning and Design
Studies are Ongoing



Charlotte Area Express Lanes Network

How Do they Work?

Andy Lelewski, P.E.

EXPRESS LANE



RATE



Sam Furr Rd

\$0.65

Gilead Rd



RATES HIGHER

Toll Collection Roles

With the I-77 Express Lanes



I-77 Mobility Partners

- Develops toll rates
- Classifies vehicles
- Develops fully-formed transaction



NC Turnpike Authority

- Receives and processes transactions
- Account management & customer service
- Transponder fulfillment

Toll Payment

Drivers pay a toll to utilize the I-77 Express Lanes for a reliable travel time

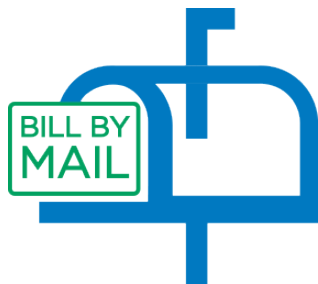
A vehicle with three or more people is considered a high-occupancy vehicle (HOV) and is eligible to travel the express lanes for free

How to Pay



NC Quick Pass Transponder


- Save 35% on tolls in NC
- Tolls automatically deducted from a pre-paid balance
- Interoperable options



Bill-by-Mail Program


- Vehicle identified through license plate
- Invoice mailed to address associated with the vehicle's registration
- Higher toll rates

Transponder Interoperability

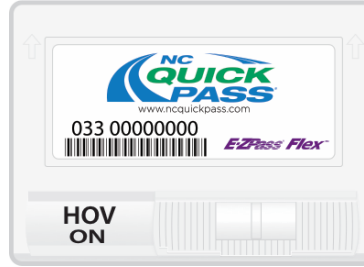


033 0000000

**Pays tolls in
NC, GA & FL**



033 00000000



033 00000000

HOV
ON

**Pays tolls in
NC, GA FL & all
E-ZPass States**



How to Travel for Free

High-Occupancy Vehicles (HOV)

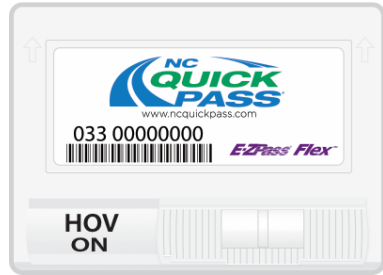


High-Occupancy Vehicles

- Three or more people in the vehicle
- Free to ride on the I-77 Express Lanes
- Must have an NC Quick Pass transponder and set HOV status

How to Travel for Free

HOV Status Options



NC Quick Pass E-ZPass Transponder

- Pays tolls in NC, FL and GA & all E-ZPass states
- \$16.49 + tax



NC Quick Pass HOV App

- Must use with an NC Quick Pass transponder
- App is FREE
- Can use from phone or website

How to Travel for Free

HOV Exemptions

Motorcycles

- Ride the I-77 Express Lanes for FREE
- No account or transponder needed

Transit Vehicles

- Ride the I-77 Express Lanes for FREE
- Transit transponder needed

First Responders

- Ride all roads for FREE
- First Responders transponder needed

Thank you!