



North Carolina Turnpike Authority

Board of Directors Meeting

August 8, 2019

Operations & Customer Service



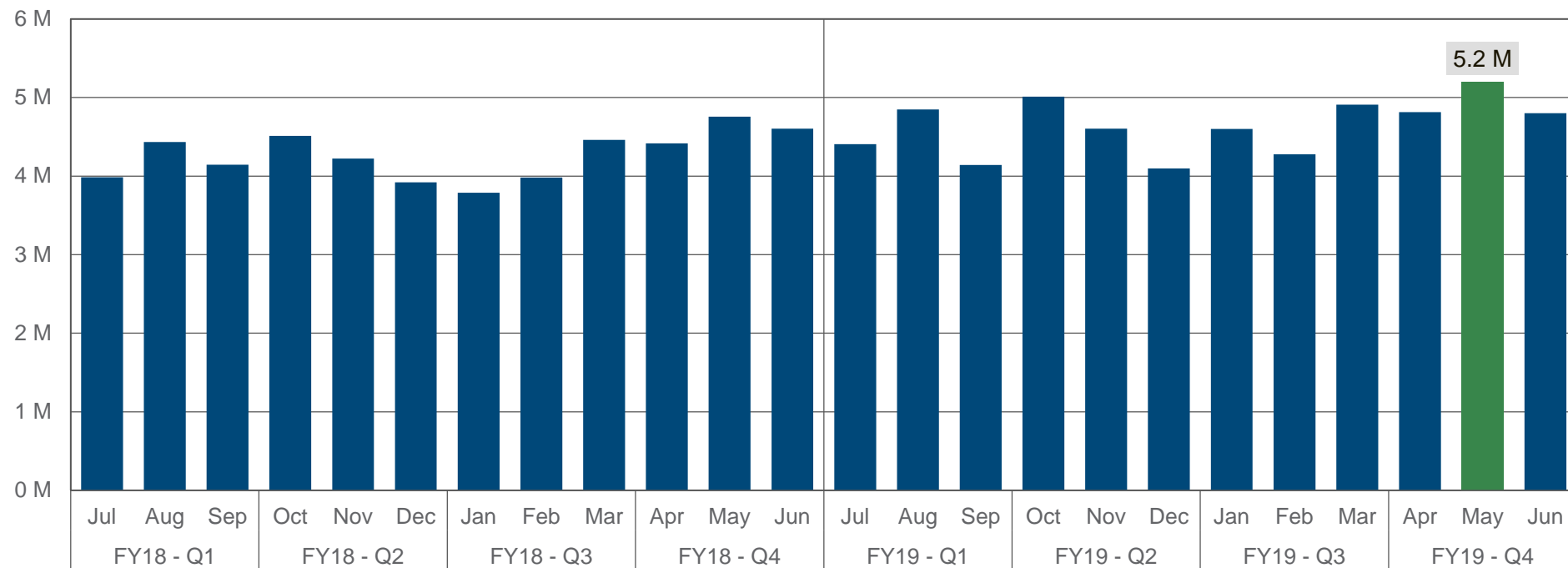
Andy Lelewski, P.E.

Director of Toll Operations

Transaction Statistics

Triangle Expressway

■ Actual Transactions

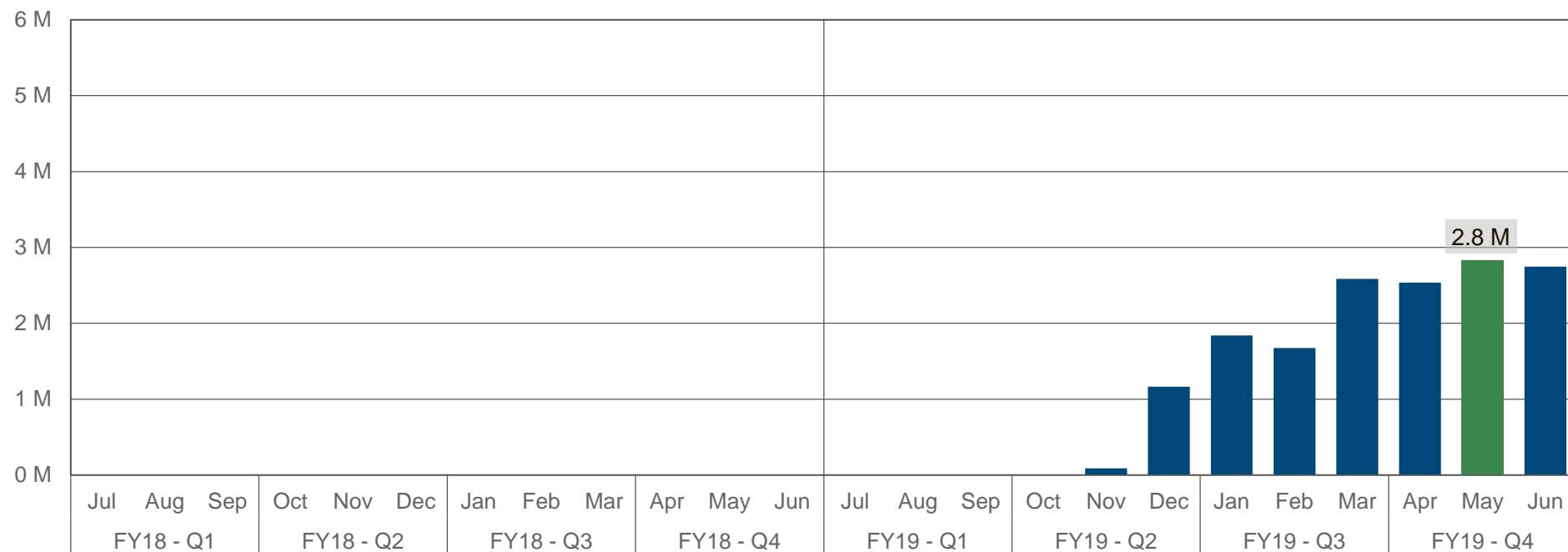


	FY18 - Q1	FY18 - Q2	FY18 - Q3	FY18 - Q4	FY19 - Q1	FY19 - Q2	FY19 - Q3	FY19 - Q4
Actual Transactions	12,566,202	12,657,190	12,232,513	13,780,931	13,394,773	13,712,458	13,787,834	14,816,341
YOY Percent Change	8.6%	8.1%	5.8%	8.7%	6.6%	8.3%	12.7%	7.5%

Transaction Statistics

Monroe Expressway

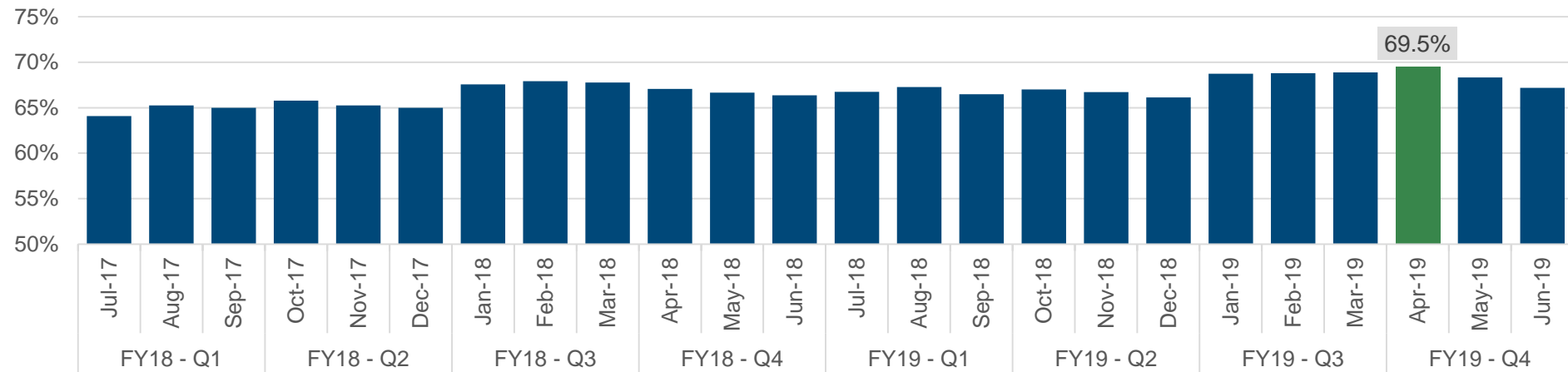
■ Actual Transactions



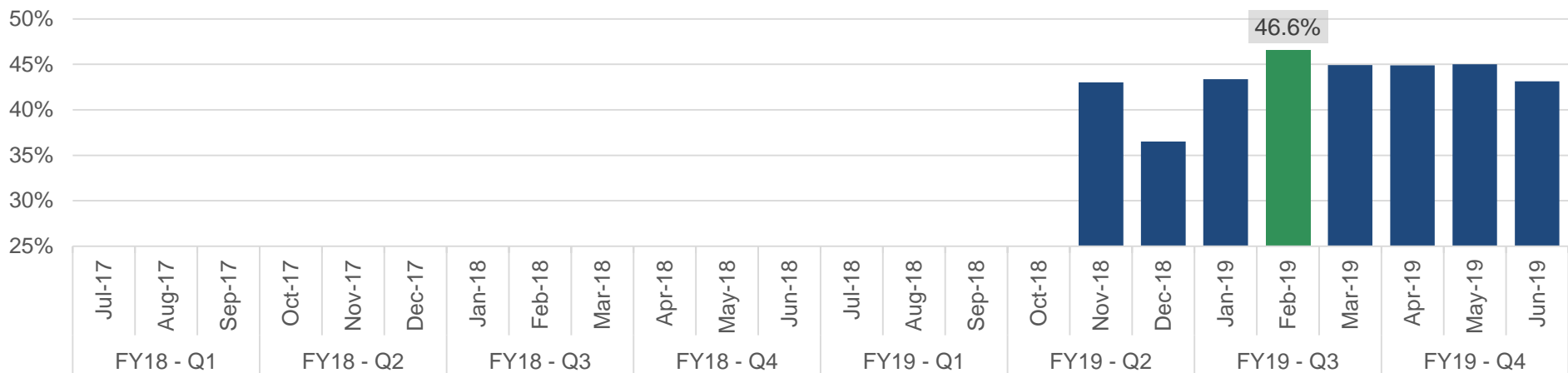
	FY18 - Q1	FY18 - Q2	FY18 - Q3	FY18 - Q4	FY19 - Q1	FY19 - Q2	FY19 - Q3	FY19 - Q4
Actual Transactions	-	-	-	-	-	1,253,524	6,096,550	8,115,596

Prepaid Transaction Statistics

Triangle Expressway

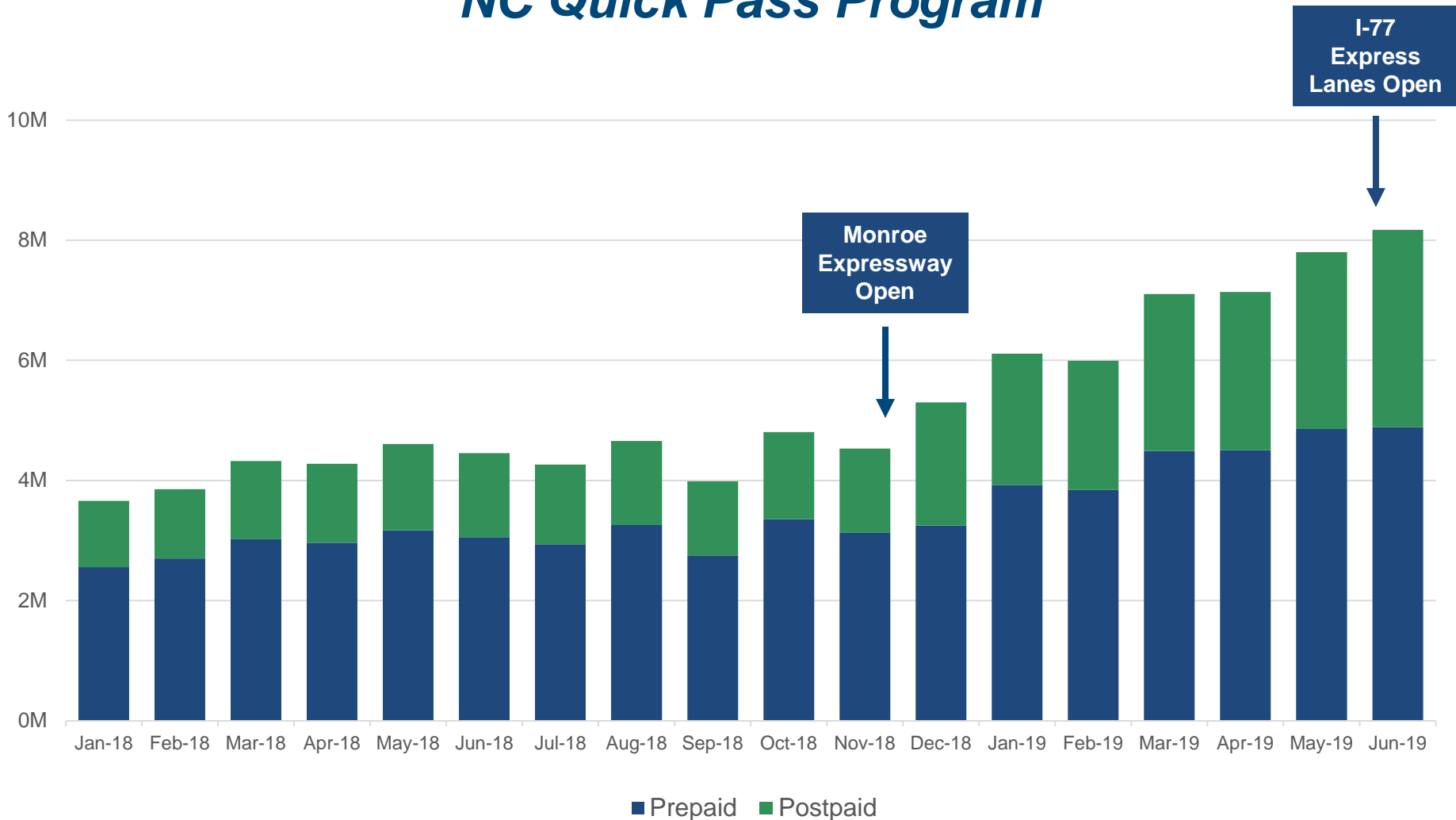


Monroe Expressway



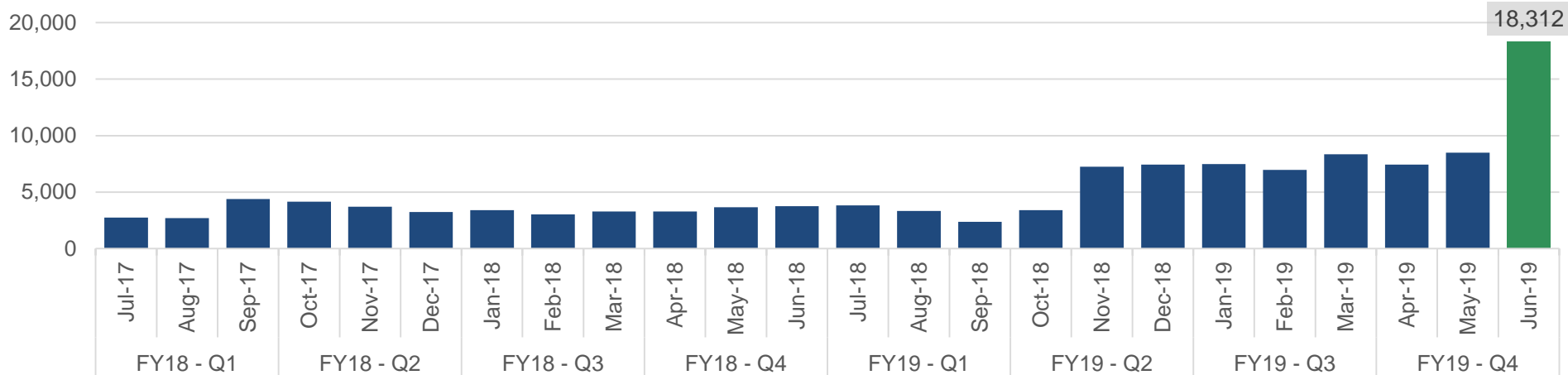
Total Posted Transactions

NC Quick Pass Program

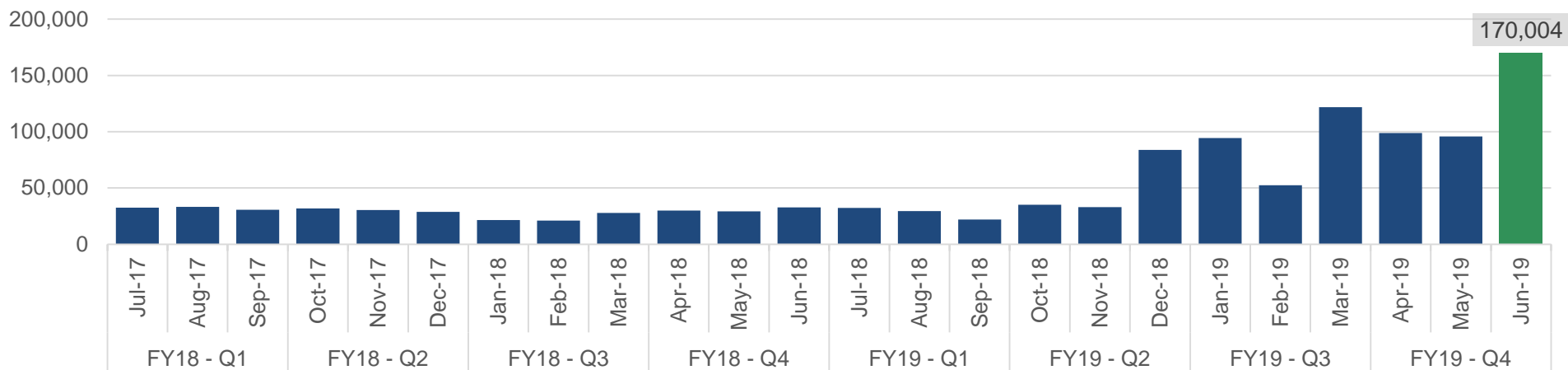


Account Openings

NC Quick Pass Accounts

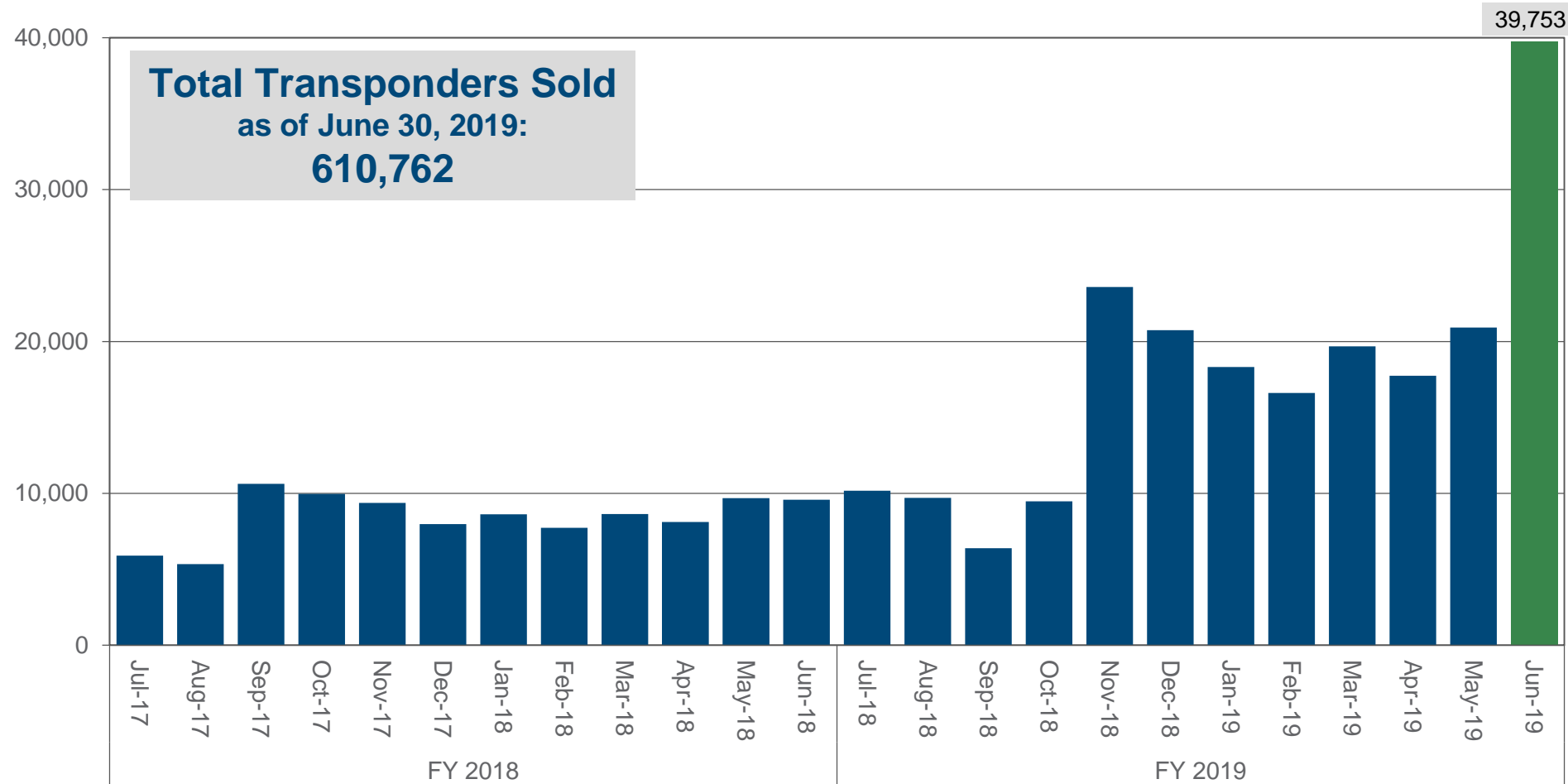


Bill By Mail Accounts

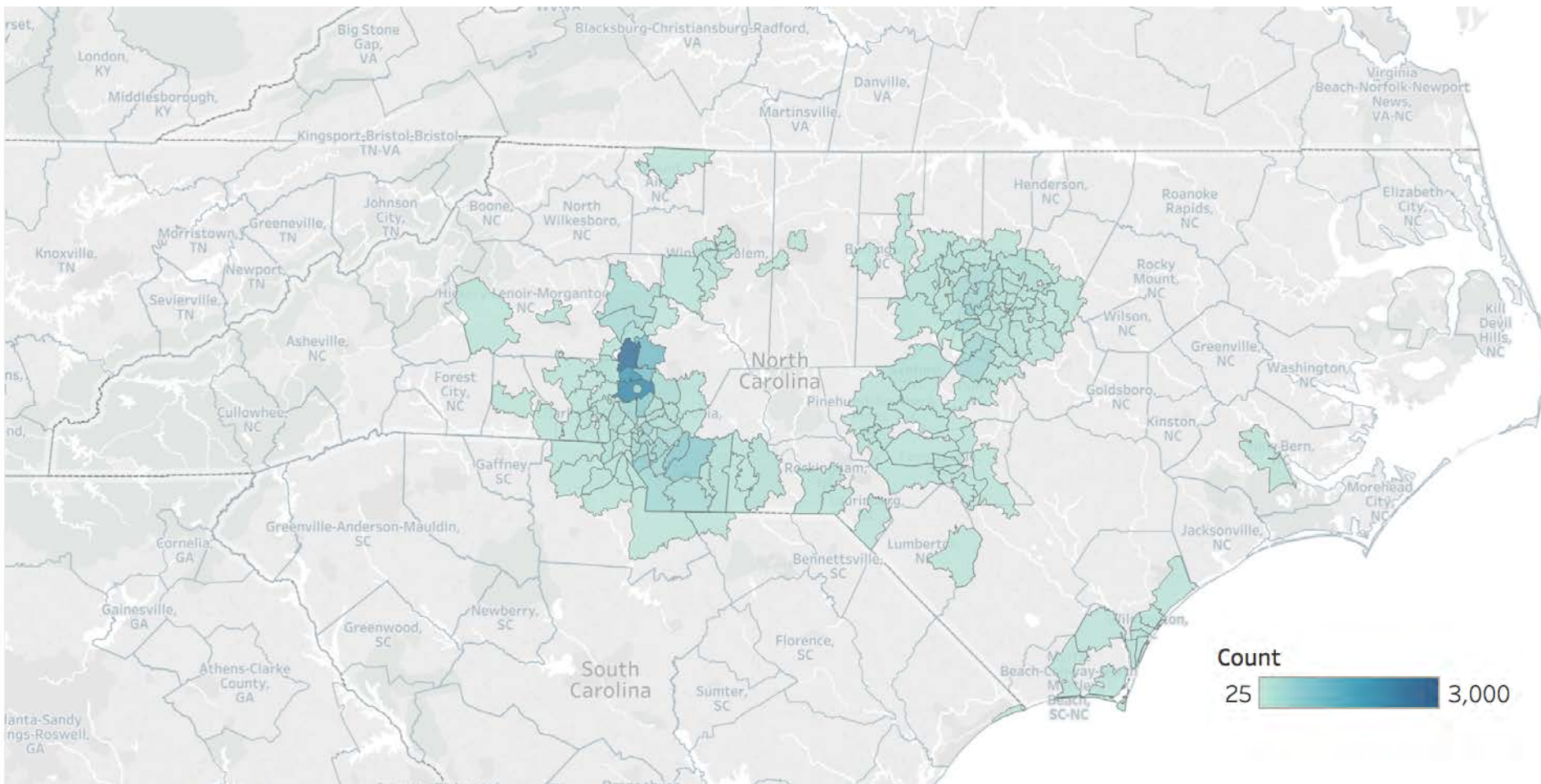


Monthly Transponders Sold

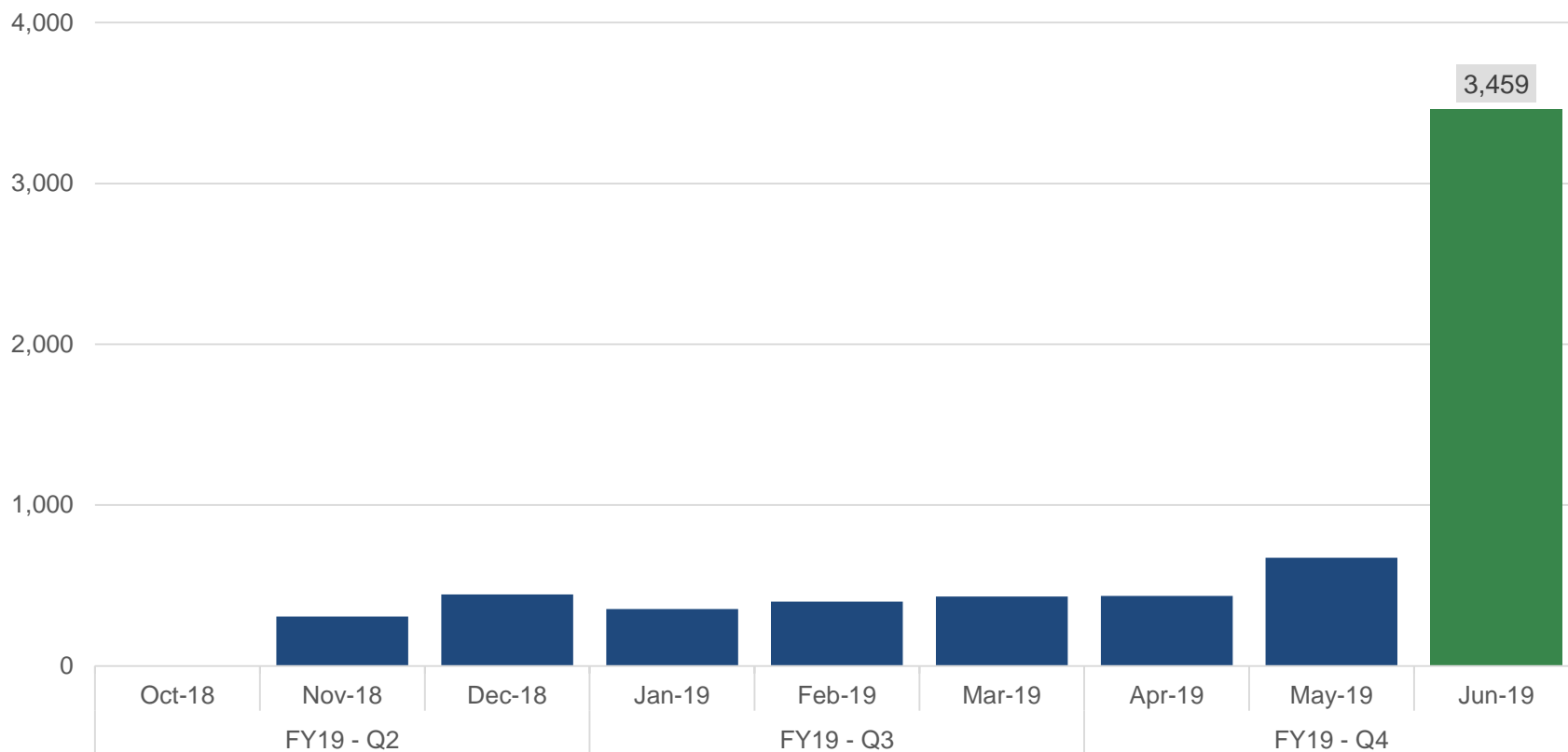
NC Quick Pass Program



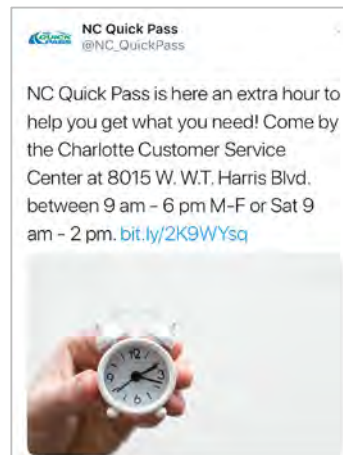
NC Quick Pass Accounts Opened *by Zip Code*



HOV Application Downloads



NC Quick Pass Customer Outreach



Finance & Budget



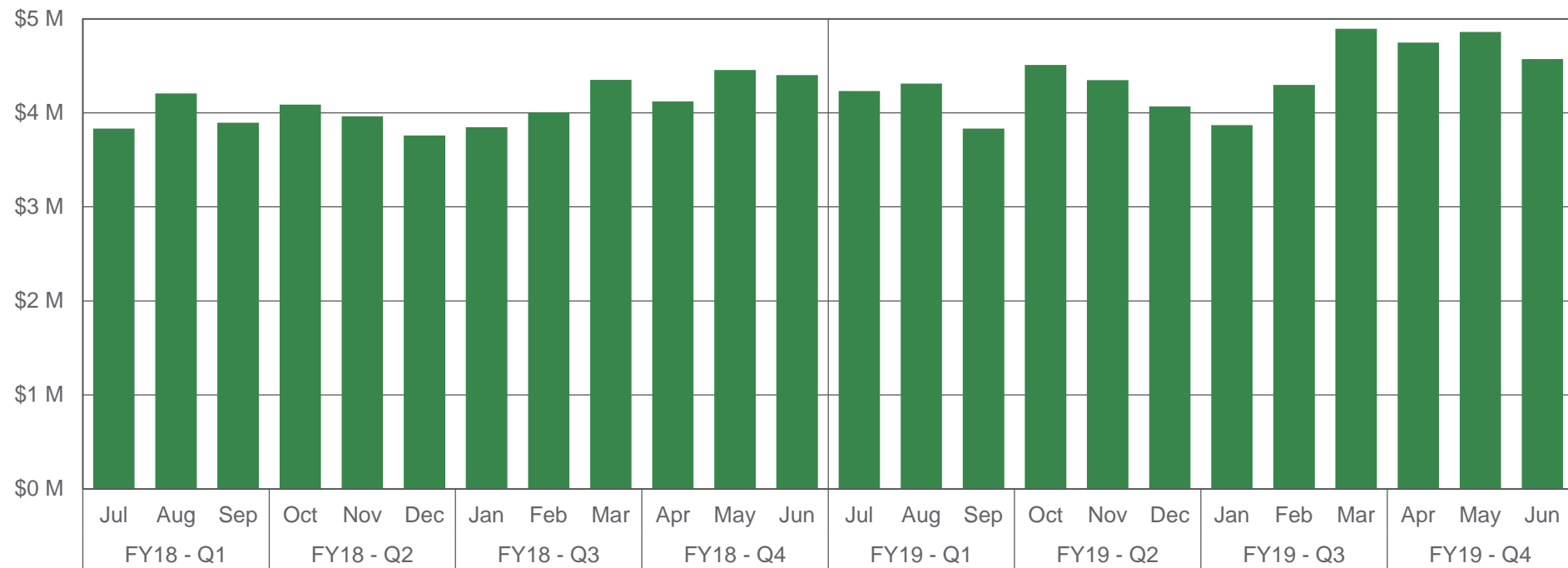
David Roy

Director of Finance

Revenue Statistics

Triangle Expressway

■ Actual Revenue

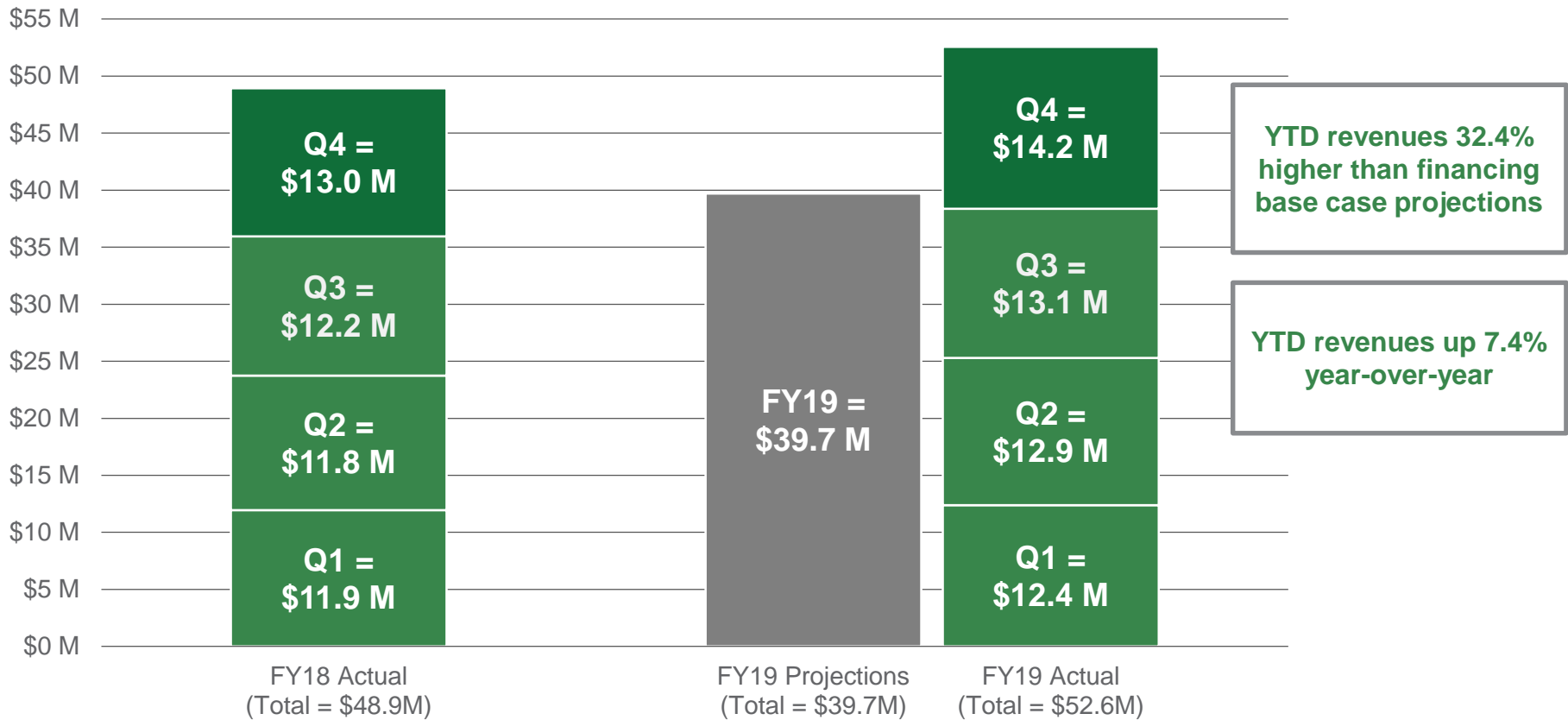


	FY18 - Q1	FY18 - Q2	FY18 - Q3	FY18 - Q4	FY19 - Q1	FY19 - Q2	FY19 - Q3	FY19 - Q4
Actual Revenue¹	\$ 11,938,800	\$ 11,810,005	\$ 12,206,584	\$ 12,982,210	\$ 12,378,736	\$ 12,925,510	\$ 13,064,297	\$ 14,182,712
YOY Percent Change	16.9%	9.3%	7.3%	11.7%	3.7%	9.4%	7.0%	9.2%

¹Actual revenue is reported on a cash basis

Revenue Statistics

Triangle Expressway

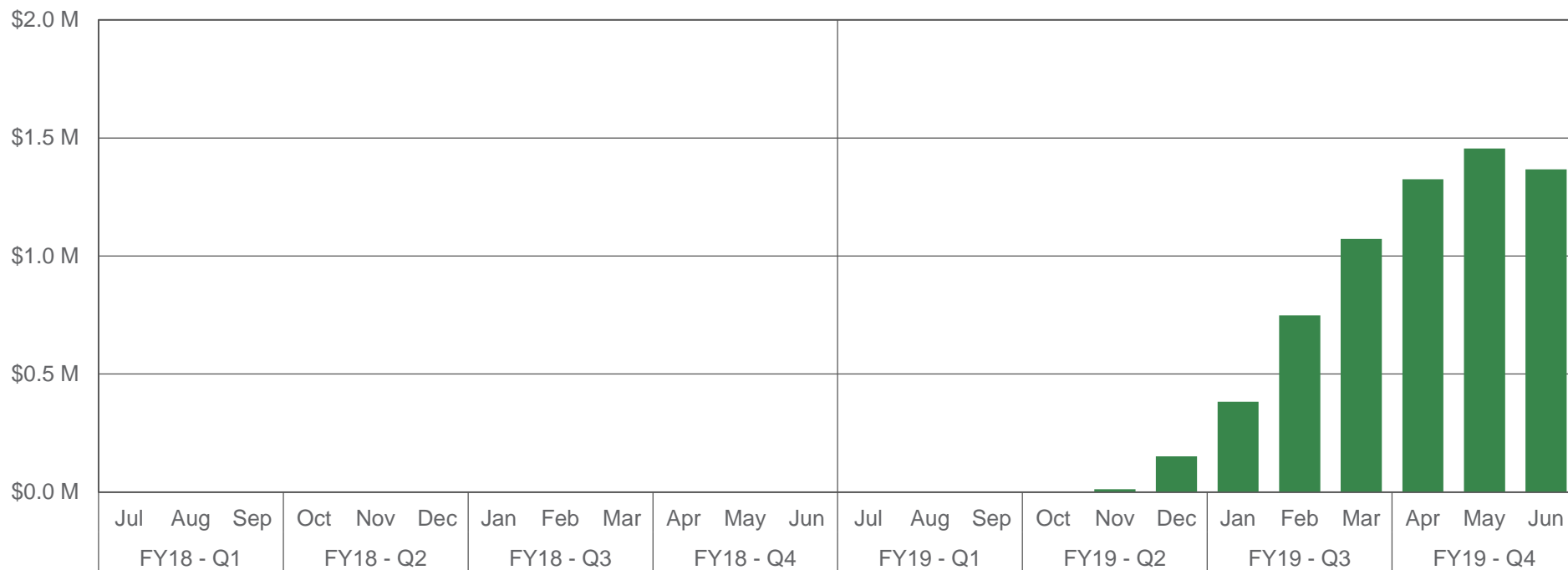


- Revenue figures are inclusive of all toll revenue and fees
- Actual revenues reported on a cash basis

Revenue Statistics

Monroe Expressway

■ Actual Revenue

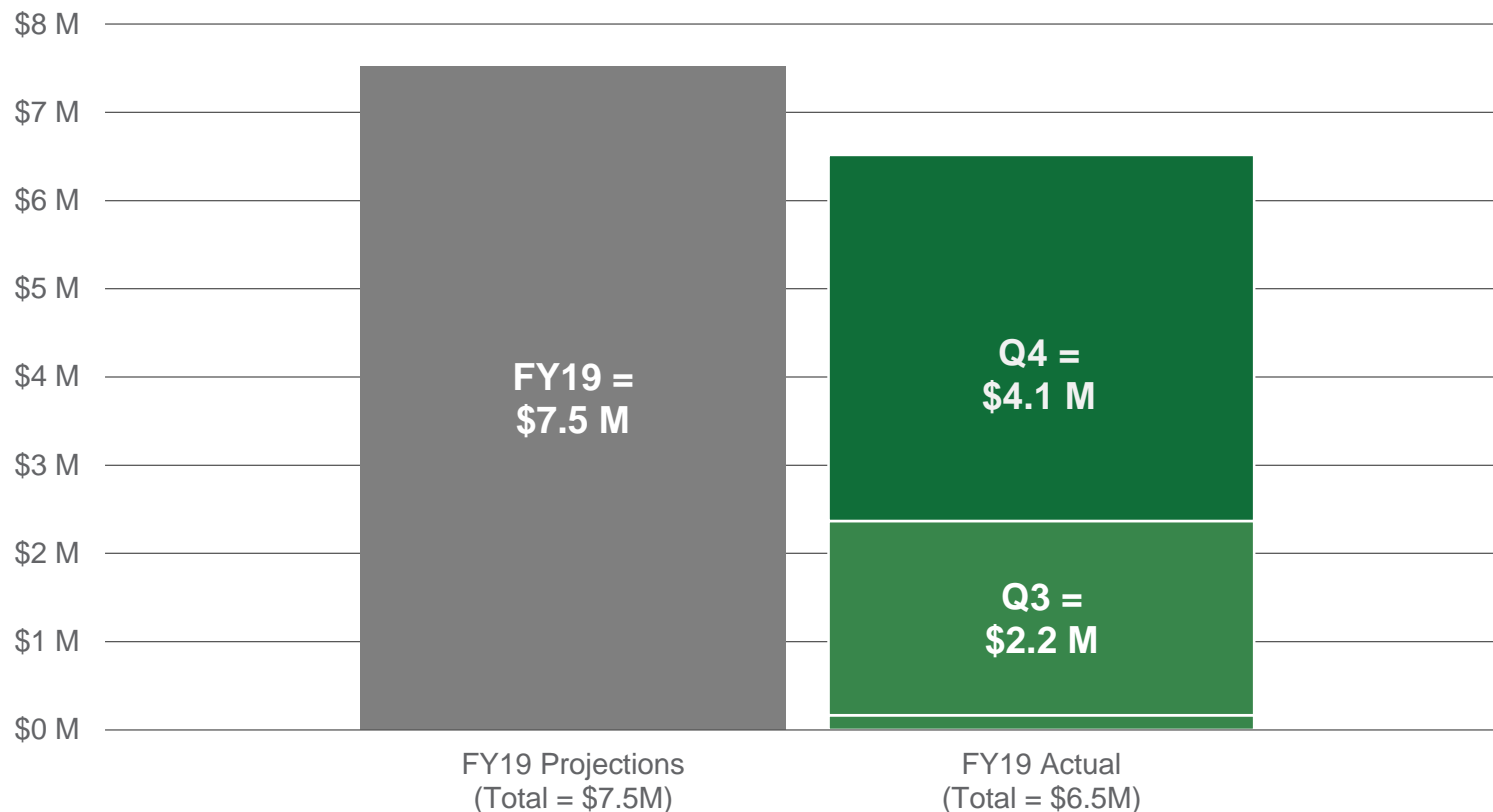


	FY18 - Q1	FY18 - Q2	FY18 - Q3	FY18 - Q4	FY19 - Q1	FY19 - Q2	FY19 - Q3	FY19 - Q4
Actual Revenue¹	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 165,086	\$ 2,203,676	\$ 4,147,407

¹Actual revenue is reported on a cash basis

Revenue Statistics

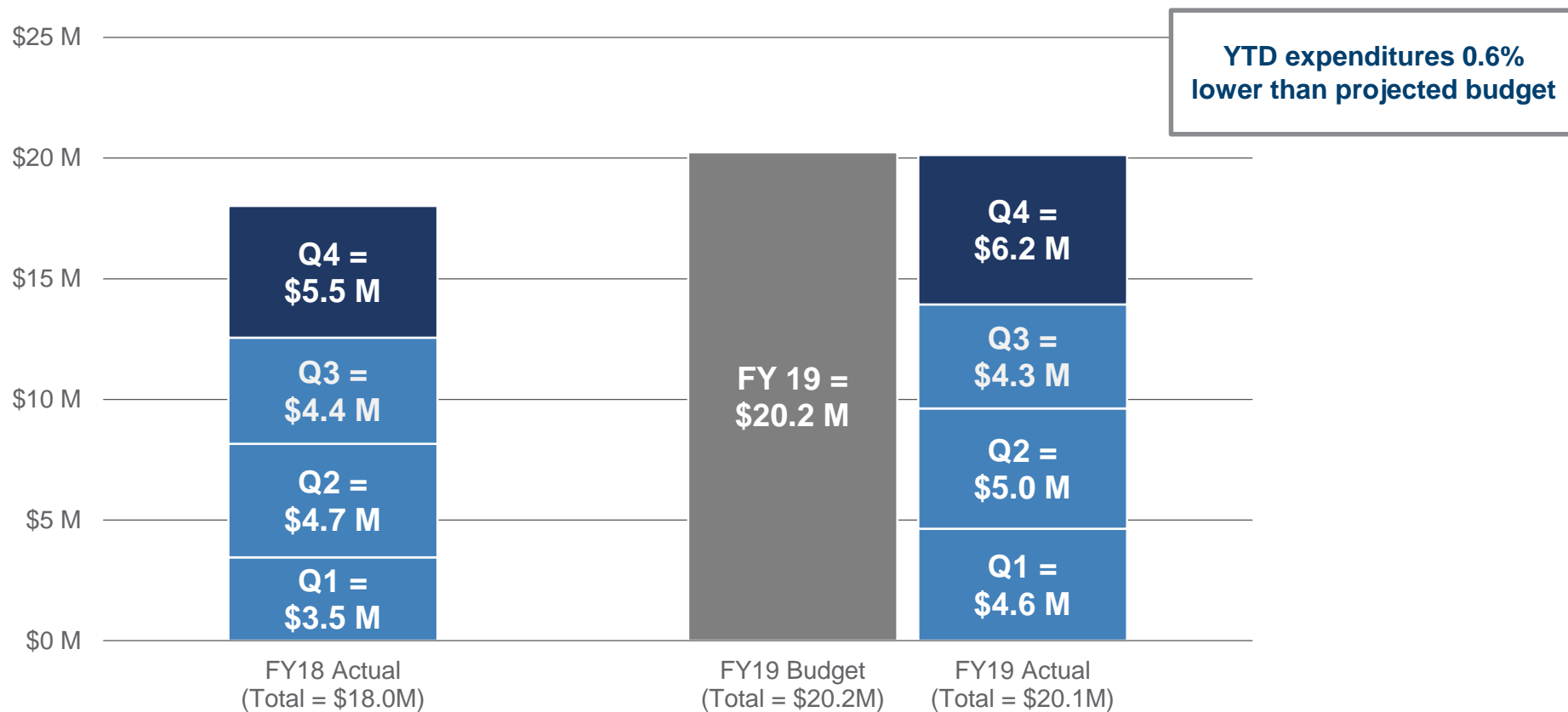
Monroe Expressway



- Revenue figures are inclusive of all toll revenue and fees
- Actual revenues reported on a cash basis
- Projections based on 2016 Traffic & Revenue Study; revenues are shown in the same fiscal year as the corresponding transaction

Operating Expenditures

Triangle Expressway



- Actual operating expenditures reported on a cash basis

Roadway Operations

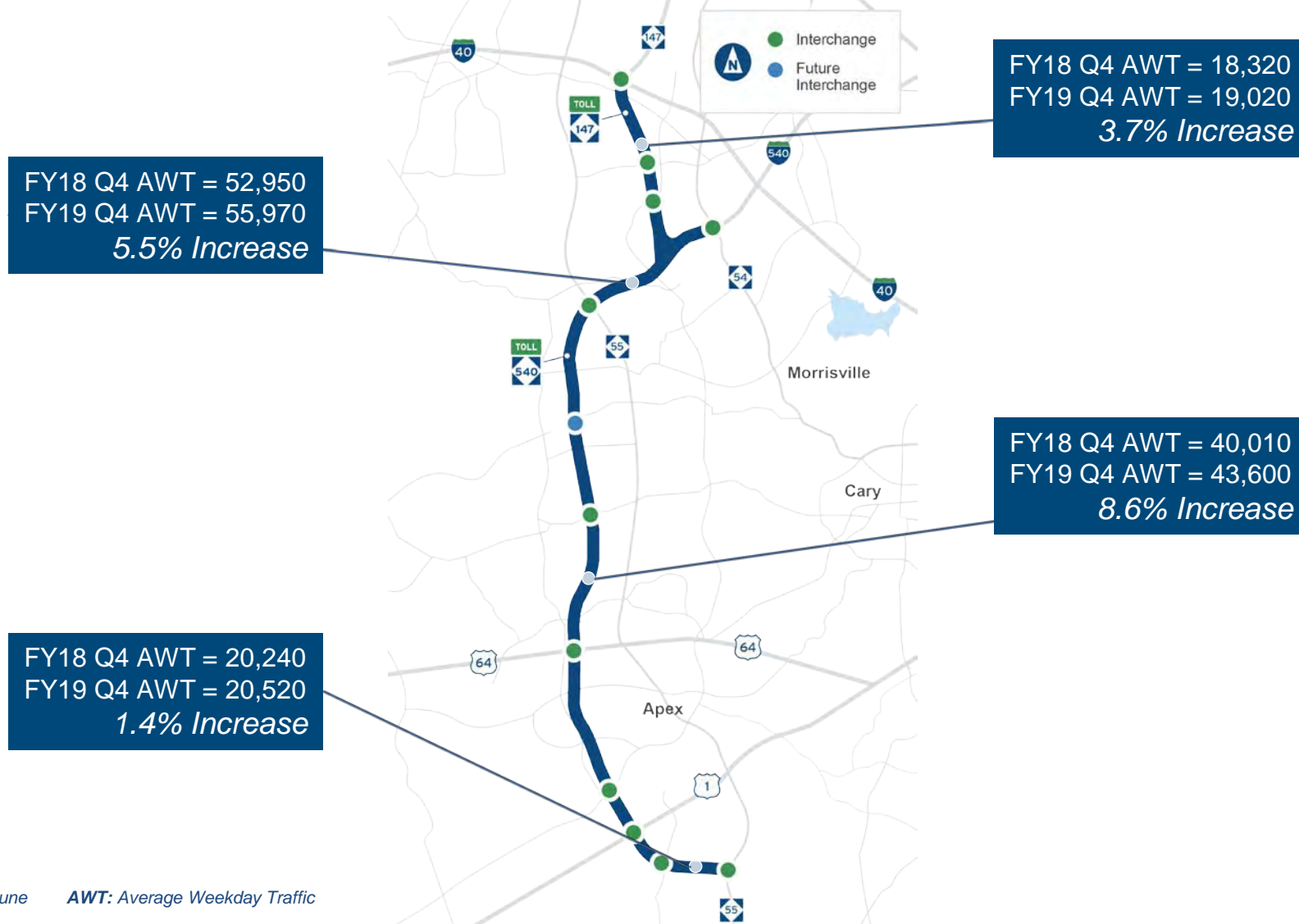


Dennis Jernigan, P.E.

Director of Highway Operations

Mainline Traffic Statistics

Triangle Expressway



Roadway Maintenance Statistics

Triangle Expressway

	FY 2019 Q1	FY 2019 Q2	FY 2019 Q3	FY 2019 Q4	Rolling Rating
Road Surface	99.2	99.2	96.0	92.6	97.1
Unpaved Shoulders and Ditches	97.1	99.0	97.4	97.8	97.9
Drainage Structures	96.1	92.8	91.3	94.0	93.6
Roadside	94.9	97.1	92.8	92.8	94.6
Traffic Control Devices	94.6*	95.1	92.1	87.9	92.6
Overall	96.4*	96.6	93.7	92.1	94.9

* Excludes Pavement Striping/Marking, Characters and Symbols, and Pavement Markers characteristics.

Mainline Traffic Statistics

Monroe Expressway



Toll Project Development Briefing

Gene Conti

The Conti Group

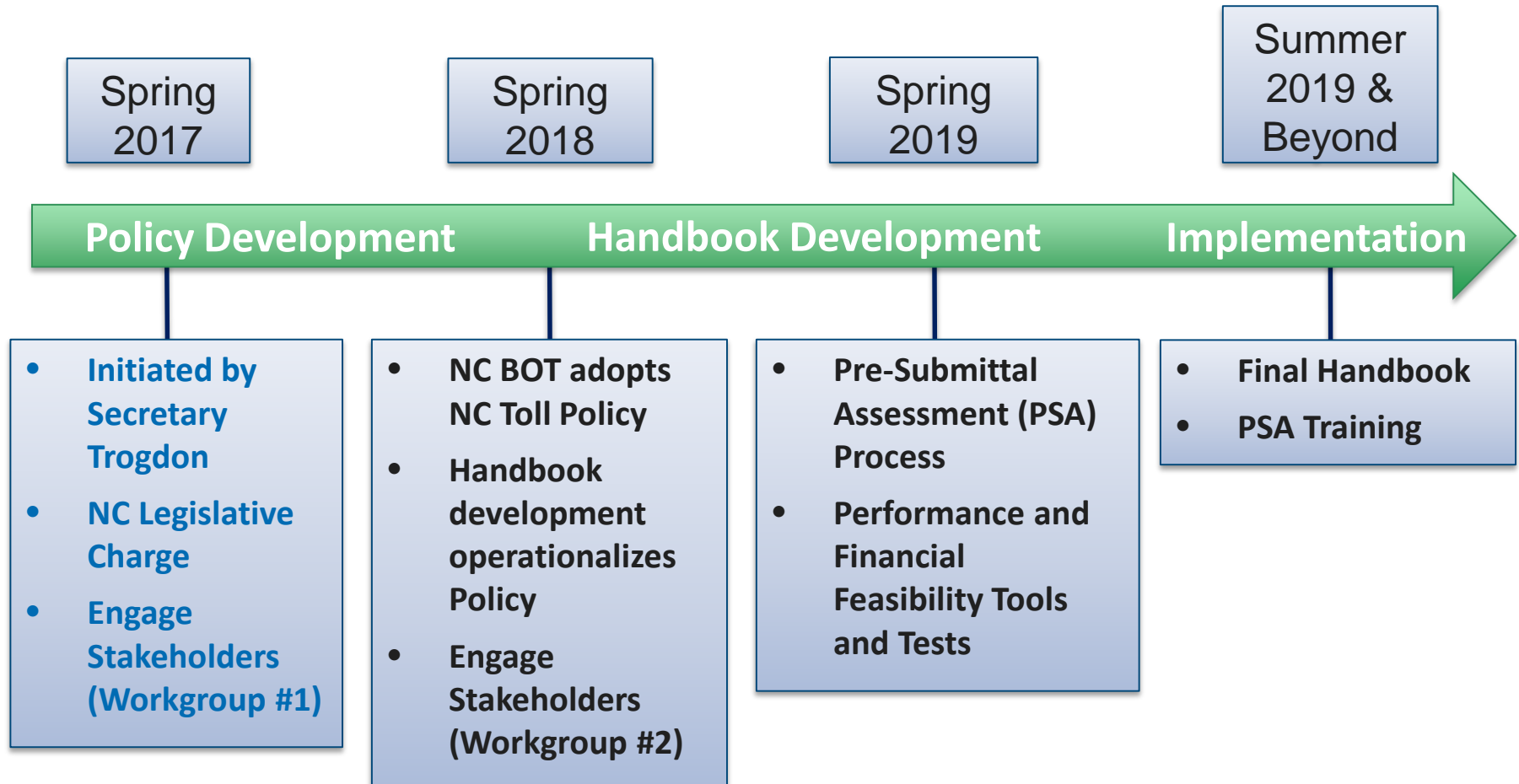
Alpesh Patel

Cambridge Systematics, Inc

Outline

- NC Toll Policy
- NC Toll Policy Handbook
 - Objectives
 - Content / Process
 - Amendment / Implementation
- Next Steps
 - Training, NCDOT Resources

Policy Development & Implementation Timeline



Policy Development

NC Toll Project Development Policy or NC Toll Policy

Adopted by the Board of Transportation (2018)

Framework:

- Defines eligible project types
- Directs close coordination with M/RPOs
- Directs development of a **defined** tolled and express lanes feasibility process

Framework does not:

- Require or mandate increased tolling
- Allow NCDOT to identify specific projects to evaluate



Eligible Project Types

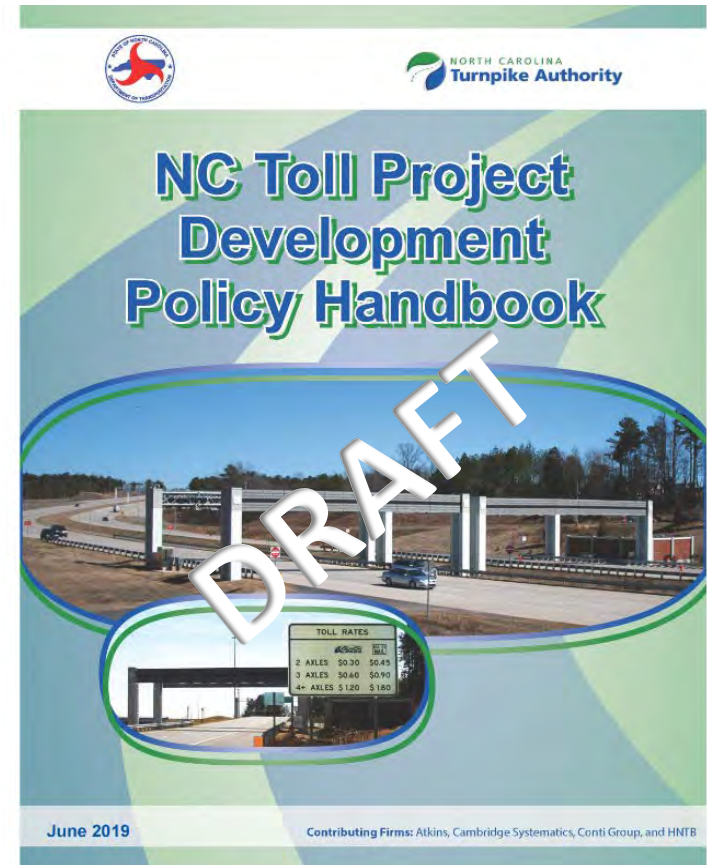
- Greenfield expressways or freeways
- Express lanes (or priced managed lanes)
- Upgrades of existing partial-control roadways to full access control facilities
- New bridges or major bridge replacements



Policy Implementation

Development of a **Handbook** operationalizes the NC Toll Policy, including:

- Assessment structure, steps, and timetables
- Financial feasibility and performance reporting
- Communication and documentation of results



Handbook Development Management

Internal NCDOT team (PMT)

- Turnpike Authority, Transportation Planning Division, Division of Highways

Work Group (advisory)

- MPOs/RPOs, League of Municipalities, Metro Mayors, Association of County Commissioners, FHWA, Agency staff

Multi-disciplinary consultant team

Handbook Development Objectives

- **Create a defined process** to support local decision making for toll candidate considerations in advance of submission to NCDOT Strategic Prioritization and consistent with State Transportation Improvement Program requirements.
- **Increase accountability** through more openness and transparency, particularly as NCDOT faces funding challenges posed by diminishing reliability of traditional funding sources for NC Highway Trust Fund.
- **Engage partners, develop protocols/procedures** to guide early identification and tolling potential.

Handbook Development

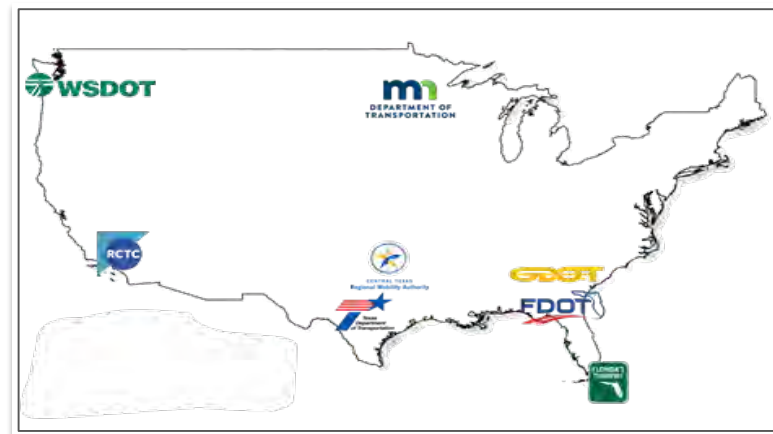
Project Sponsor Feedback

- Focus on standards, benchmarks, planning practice
- Uniform method, approach for assessment
- Develop and test tools; provide access
- Provide adequate time for assessment
- Ensure implementation is rolled out well...education, expectations are important!



Handbook Development Content

**Peer Review – DOTs, Toll
Authorities interviews**



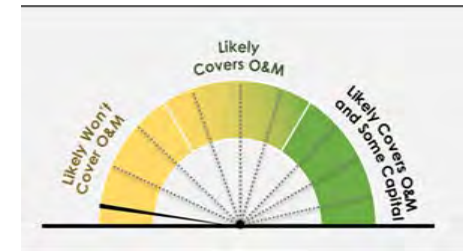
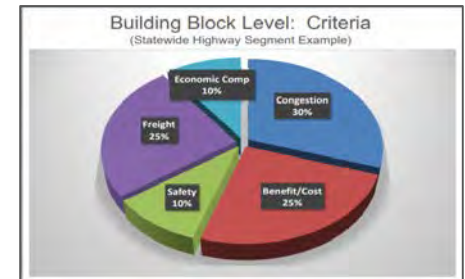
**Prototype Analysis –
evaluation standards and
criteria testing**



Handbook Development Content

Pre-Submittal Assessment (PSA)

- **Performance Criteria** – linked to Strategic Prioritization
- **Financial Feasibility** – can the candidate project cover Operating and Maintenance costs



Implementation – dedicated internal resources, liaison to project sponsors



Handbook Development

Pre-Submittal Assessment (PSA)

Early evaluation of performance and financial project viability

- **Pre-screening steps** coordinated with project sponsors
- **Incorporate into** Comprehensive and Metropolitan Transportation Plan development
- **Structured process** and schedule
- **Evaluation tools** accessible via NCDOT
- **More information** for local policy boards

Performance and Data Driven Approach

Performance Based Criteria tied to Strategic Prioritization

– Example: Congestion Relief

Volume-to-Capacity Ratio

- Calculated from Statewide Model or Congestion Management Team
- Compare V/C ratio with and without project

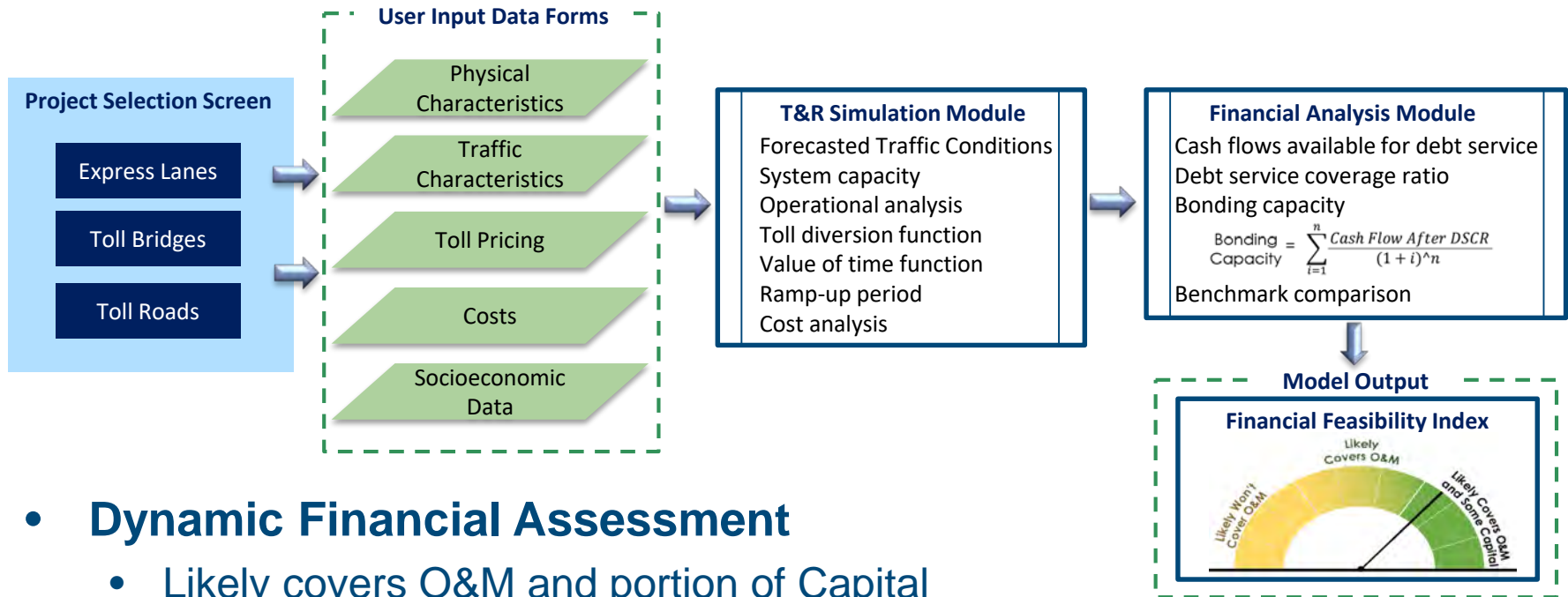
Transit Utilization

- Requested from Regional Transit Authorities
- Quantify expected number reduced single-occupancy vehicle trips

Travel Time Savings

- Calculated from Statewide Model or Congestion Management Team
- Requires value-of-time assumption

Preliminary Financial Feasibility Module



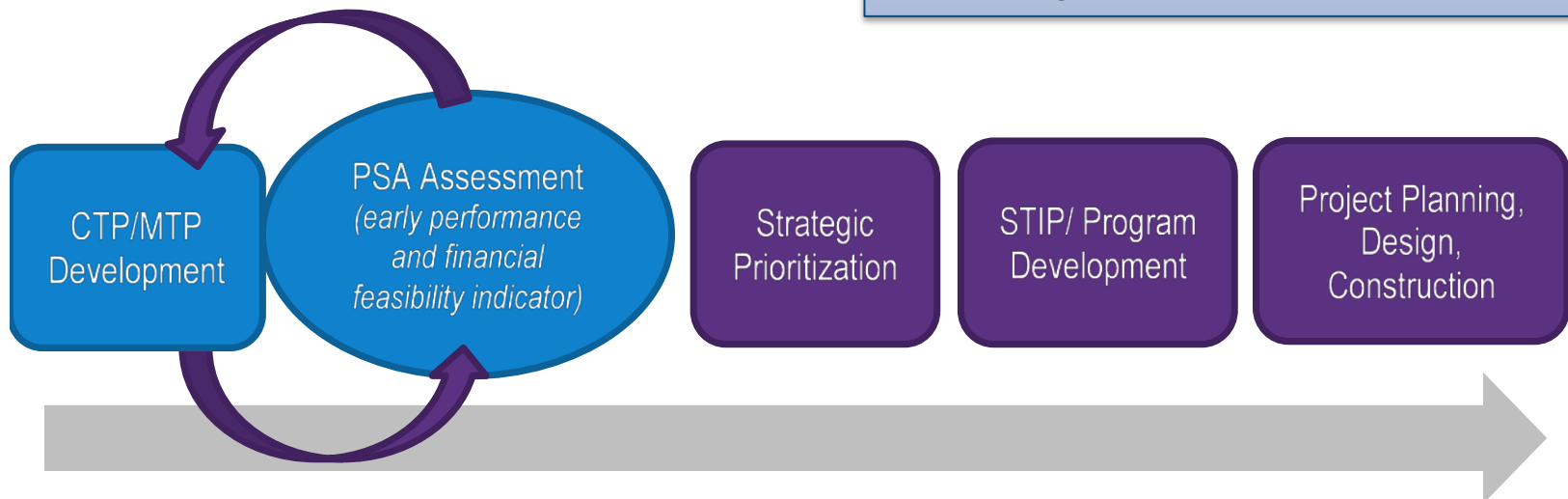
- **Dynamic Financial Assessment**

- Likely covers O&M and portion of Capital (i.e., presents positive financial flexibility)
- Likely covers O&M only (i.e., potential financial flexibility)
- Likely won't cover O&M (i.e., additional funding sources would likely be needed)

Long Range Planning Integration

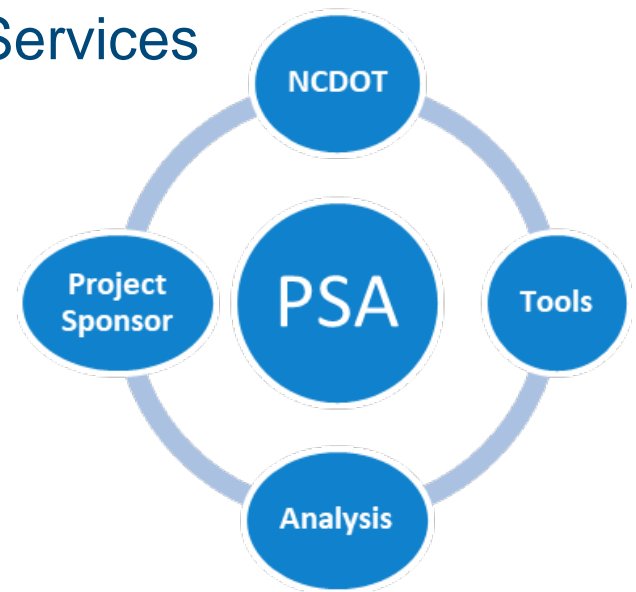
- Additional step in Comprehensive and Metropolitan Transportation Plan Development
- Include in early scoping and Plan “Set Up” meetings

- Scoping checklist
- Sets expectations with local communities
- Supports “fiscal realism” for RPO area plans
- Occurs prior to project submission for Strategic Prioritization



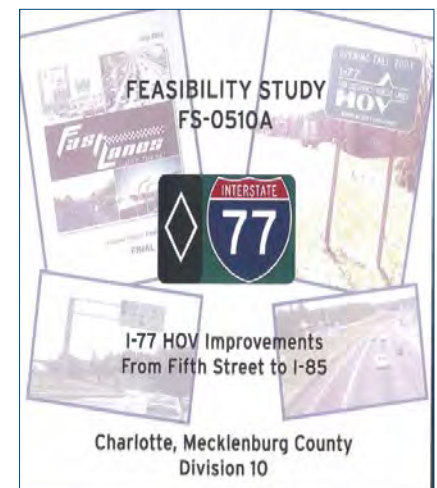
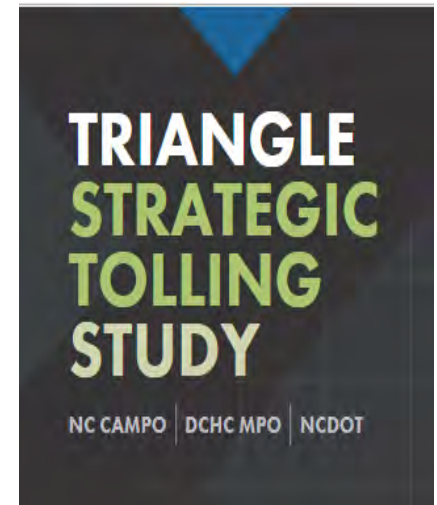
Implementation Framework

- **Intra-Departmental Project Evaluation Team (IDPET)**
 - TPD, NCTA, SPOT, STIP, Technical Services
 - Oversee PSA schedule, steps and tools
 - Technical expertise; liaison to project sponsors
 - Division Engineers local support role
- **PSA Training Program**
 - September 2019
- **Biennial updates** tied to Strategic Prioritization cycles and industry changes



Implementation Considerations

- **Region and Corridor Based Planning**
 - Impacts of various alternatives
 - Network Analysis
- **Data/Studies**
 - Leverage field-collected and/or early project screening data to support PSA inputs
- **Inform project submittals for future Strategic Prioritization**
 - Refines project cost estimates



NC Tolls Policy Amendment

"Grandfather" Policy:

“Any toll candidate project(s) not committed in P6.0 will be subject to the Handbook guidelines. An MPO or RPO request to convert a current non-tolled project in NCDOT’s strategic prioritization database to a tolled project would be considered a new project and subject to the Handbook guidelines.*

**Note: “committed” refers to the definition used for programming a project for right-of-way or construction in the STIP under NCDOT’s latest strategic prioritization process.*

- ✓ **Accommodates P6.0 Schedule**
- ✓ **Recognizes projects in planning vs project development phase**
- ✓ **Supports project assessment for future Prioritization cycles**

Approved by NCDOT BOT (June 27, 2019)

PSA Training

Purpose

- Review additional PSA steps/details
- Interact with the Financial Feasibility Tool
- Understand the role/resources of IDPET

Expectations

- Bring your laptop
- Bring toll project/candidate examples to “test” through the Tool

SAVE THE DATE

September 9, 2019

- 9:00am – 12:00pm; 1:00pm – 4:00pm
- Piedmont Triad RPO
Piedmont Triad Regional Council Building (Large Conference Room)
1398 Carrollton Crossing Drive
Kernersville, NC 27284

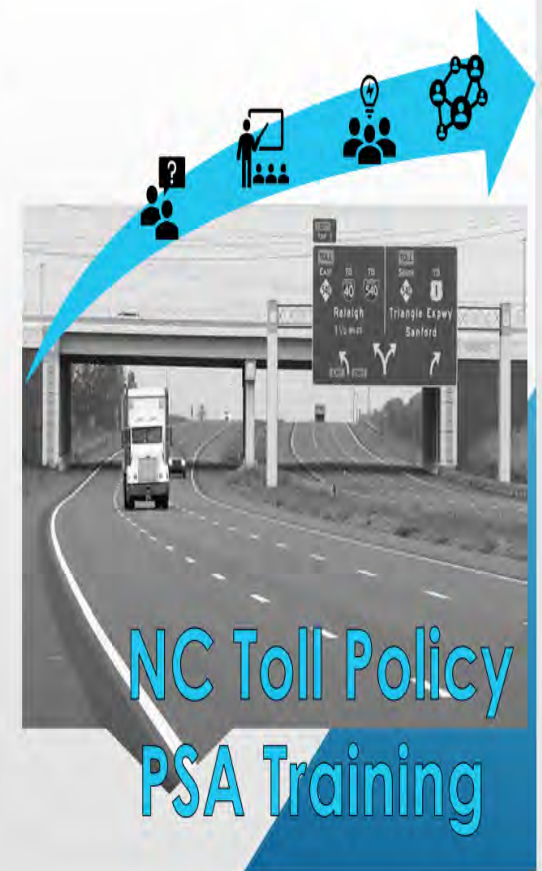
September 10, 2019

- 1:00pm – 4:00pm
- French Broad River MPO
Land-of-Sky Regional Council Building (Large Conference Room)
339 New Leicester Highway
Asheville, NC 28806

September 12, 2019

- 1:00pm – 4:00pm
- Greenville City Council
City of Greenville City Hall Building (Conference Room 328)
200 West 5th Street
Greenville, NC 27858

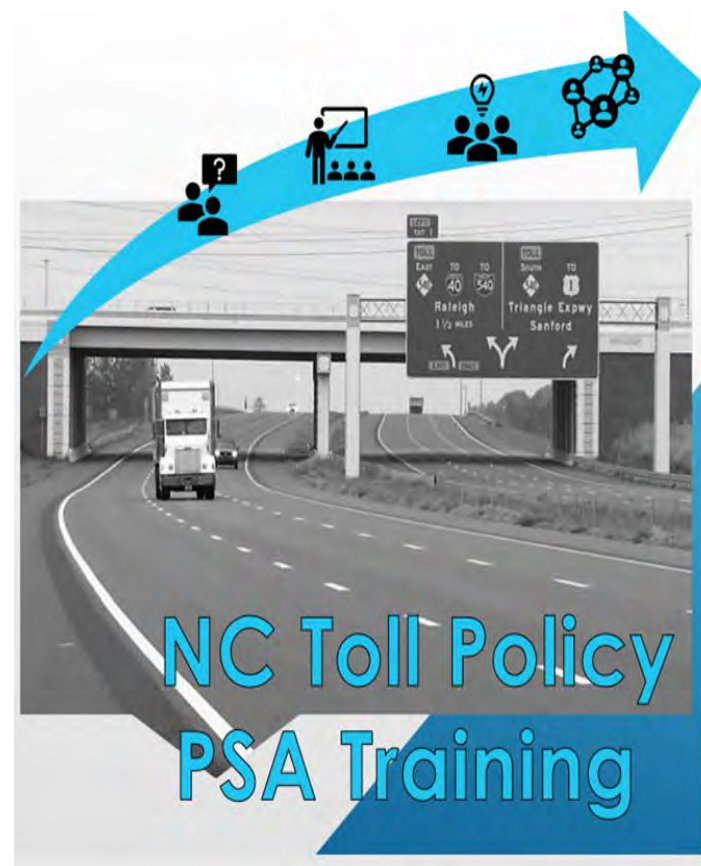
Questions? Contact: Tyler Bray, PE, 919-431-5274,
tyler.bray@atkinsglobal.com



PSA Training

Cross Section of Participants

- M/RPOs
 - Invite other technical staff from your respective organizations
- NCDOT – PMT
- NCDOT – IDPET unit representatives
- NCDOT – Division Staff
- FHWA

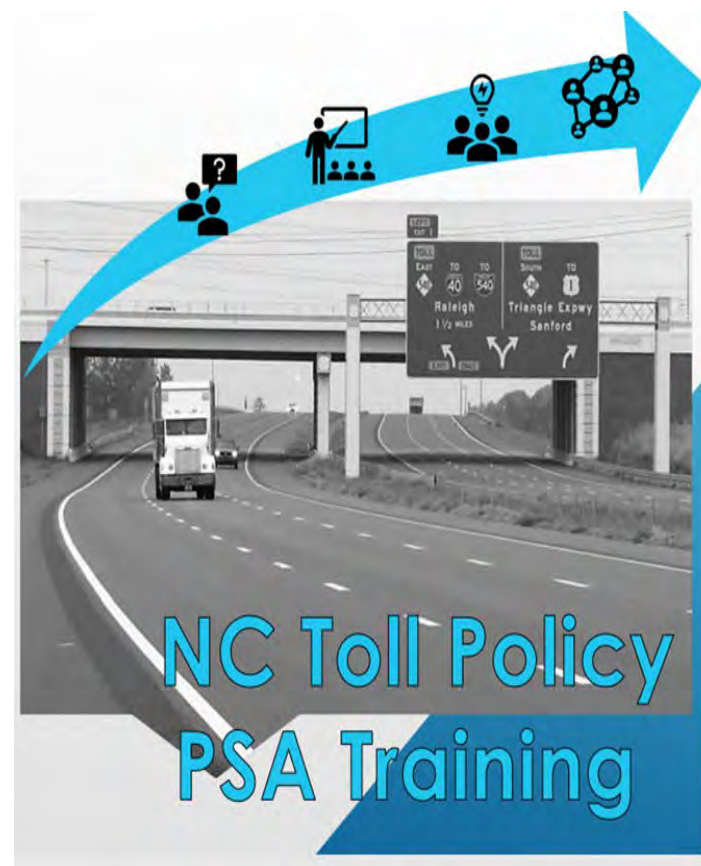


Post Training

NC Toll Policy Materials

Accessible through Transportation Planning Division (TPD) website by Dec. 2019

- Handbook
- Financial Feasibility Tool, including User Guide
- IDPET contacts/resources



Questions?

Wrong Way Driver Update



Dennis Jernigan, P.E.

NCTA Director of Highway Operations

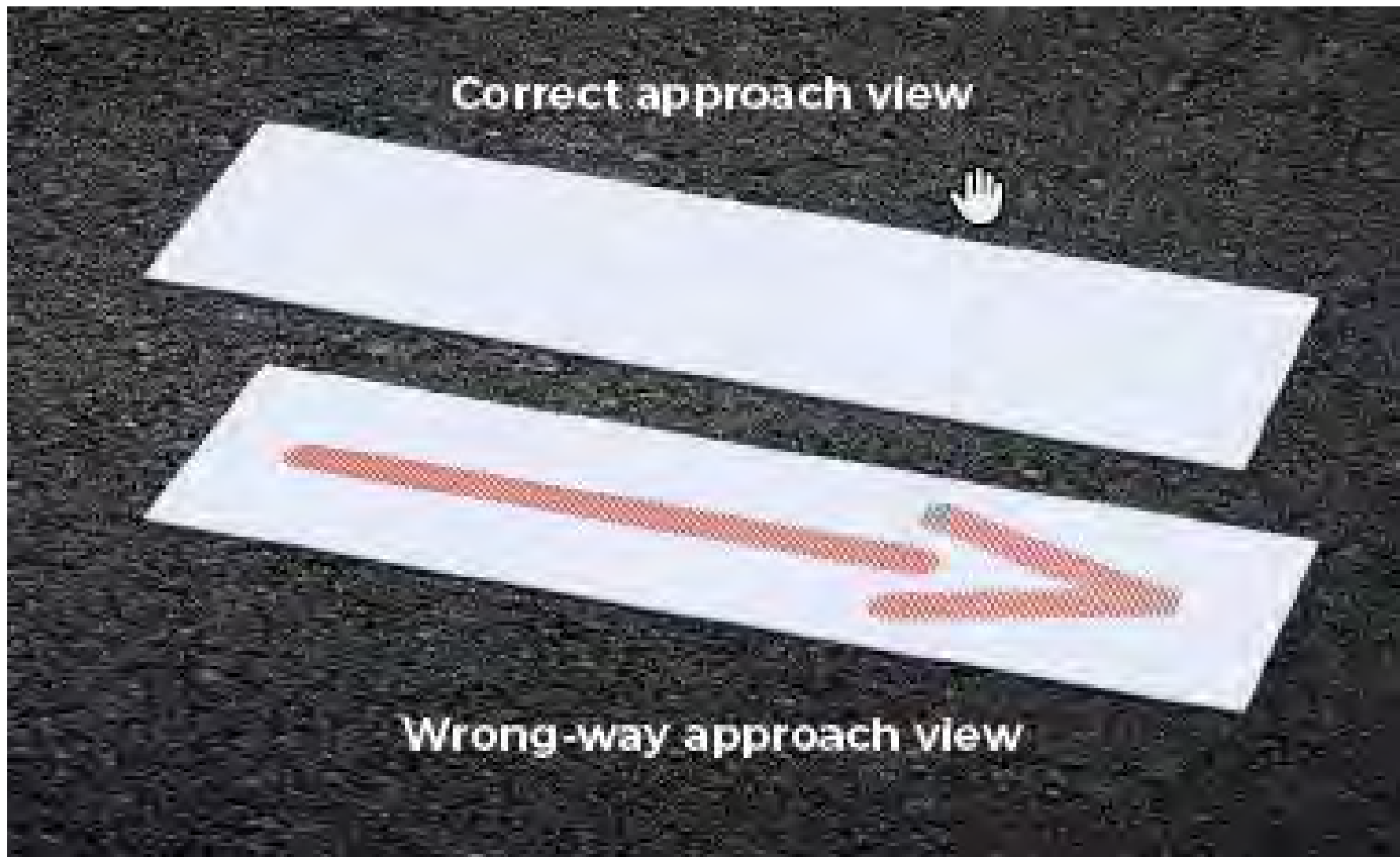
LaneAlert 2xTM

**LaneAlert 2xTM Series 1 PFT
Pavement Marking**

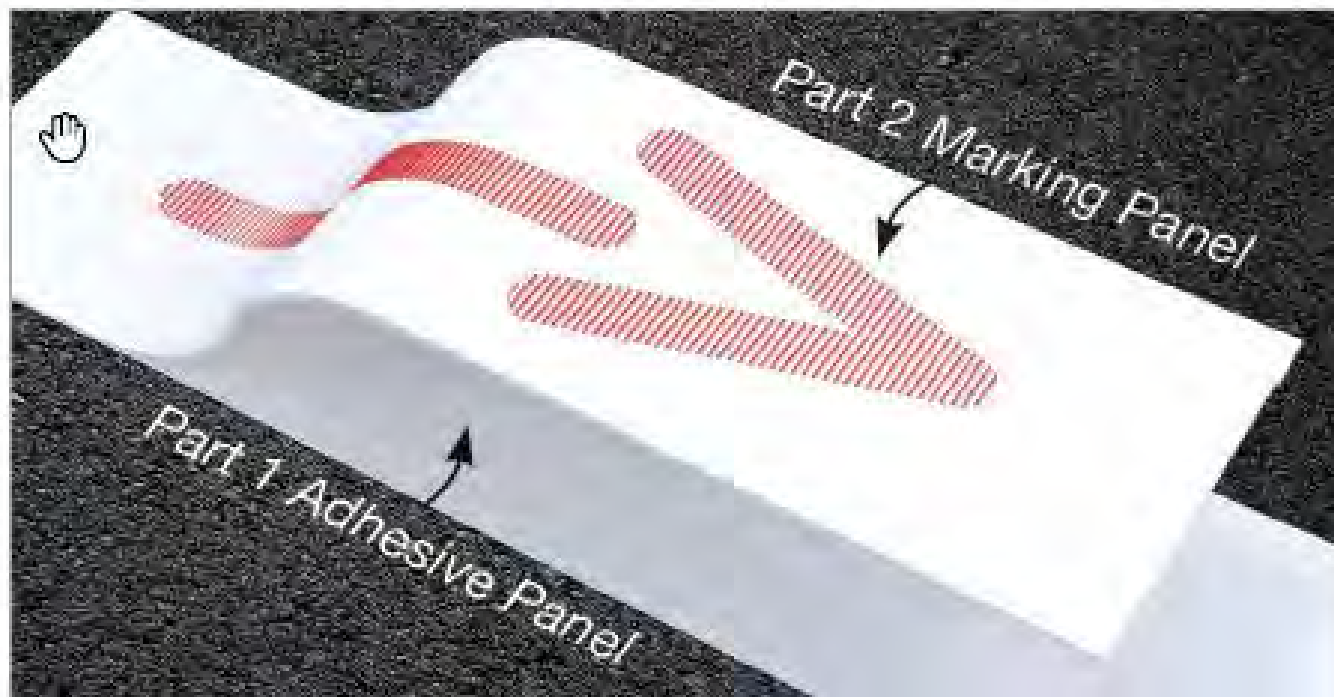
Correct approach view



Wrong-way approach view



LaneAlert 2x™ Part 1 & Part 2



LaneAlert 2x™
Part 2 Profile
Cutaway



Thank You!

