



TRANSPORTATION
RESOURCE ADVISORY
COMMITTEE & COMMUNITY
COLLABORATION

December 5, 2019



Item #1

CITIZENS PARTICIPATION



Item #2

APPROVAL OF MINUTES



Item #3

TRAC GOALS & AGENDA REVIEW



COMMITTEE GOALS

- Learn about Southern Nevada's mobility challenges, new developments and opportunities.
- Learn about smart communities, emerging technologies and how these efforts can impact and improve mobility, accessibility and safety in Southern Nevada.
- Obtain input and feedback and make recommendations on how to best address and prioritize mobility solutions.
- Explore current and future mobility funding and resources.



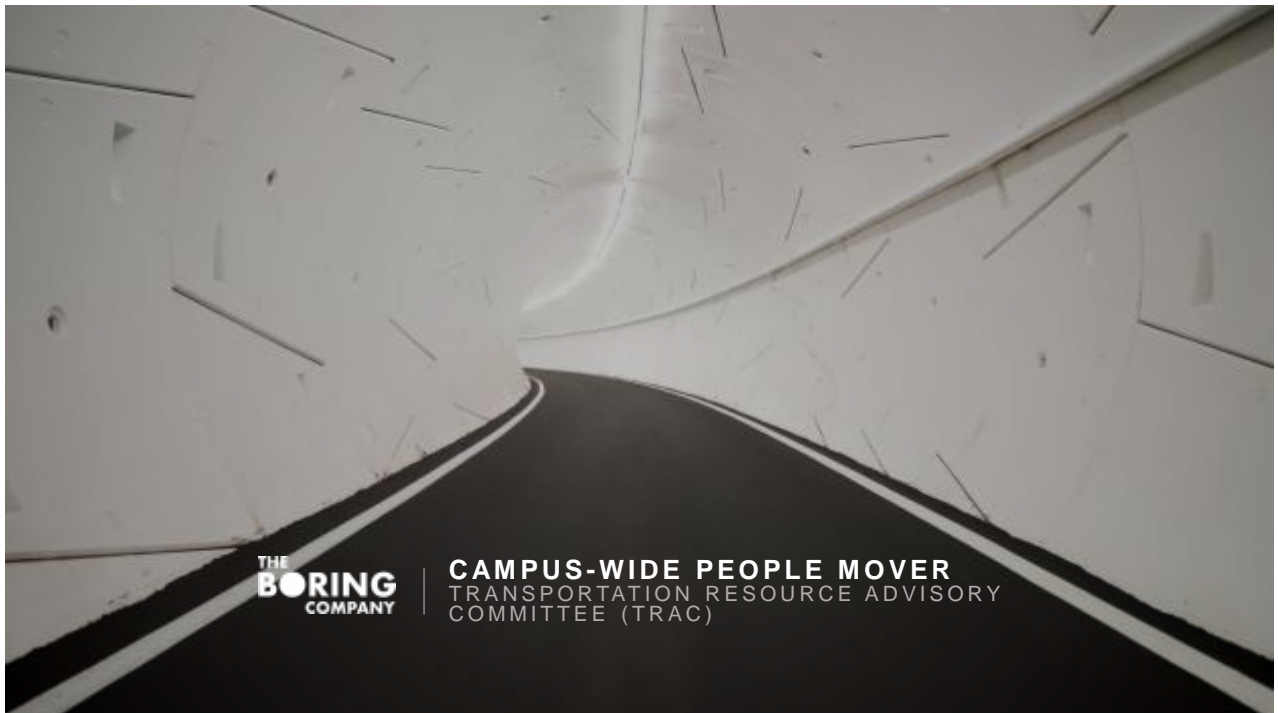
AGENDA REVIEW

- Las Vegas Convention Center Loop Project Update
- Near-Term Unfunded Transit Needs
- Transportation Network Companies
- Meeting Recap – Legislative Committee on Energy's Working Group
- TRAC Next Steps
- Upcoming Events and Announcements



Item #4

LAS VEGAS CONVENTION CENTER LOOP PROJECT UPDATE



THE
BORING
COMPANY

CAMPUS-WIDE PEOPLE MOVER
TRANSPORTATION RESOURCE ADVISORY
COMMITTEE (TRAC)

COMPANY OVERVIEW

Created by Elon Musk, founder of Tesla and SpaceX, The Boring Company (TBC) constructs safe, fast-to-dig, low-cost, and zero-emissions transportation tunnels in order to alleviate traffic congestion.



THE BORING
COMPANY

LYCC LOOP

WHY TUNNELS?

1

No conflict with currently operating transportation systems (roads and surface walkways)

2

Minimize use of valuable surface land

3

No surface noise or vibration, no effect on surface aesthetics (construction/operation is "invisible"), and no road closures.

4

Weatherproof

5

Shorter and straighter alignments allow for more direct and faster routes

6

No practical limit to how many layers of tunnels can be built, so can address any volume of traffic

7

Architecture can flexibly support different types of transportation (Loop AEVs, moving sidewalks, and pedestrian walkways)

8

Easily expanded

THE BORING
COMPANY

LYCC LOOP

WHAT IS LOOP

High-speed, underground public transportation system

Public Transportation: Passengers are transported in compatible Autonomous Electric Vehicles (AEVs)

High-Speed: Speeds of up to 150 miles per hour

All-electric: Battery-powered, zero emissions

Express: Travel directly to your destination without stopping at intermediate stations



LOOP SAFETY

VEHICLE

AEVs (Tesla Model X and 3) are NHTSA 5-star rated
Lowest probability of injury of any vehicles ever tested by NHTSA

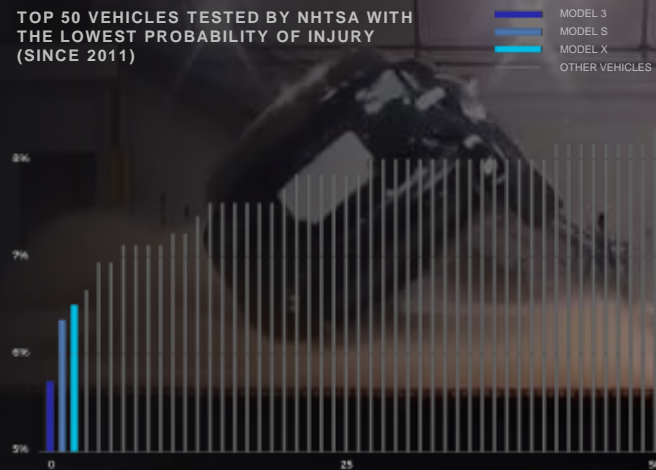
SYSTEM

Wide walkway for emergency egress
Real-time gas and smoke detection
Ventilation system designed to NFPA standards
Direct communications within tunnel to Control Center via tunnel intercoms, cell service, and WiFi

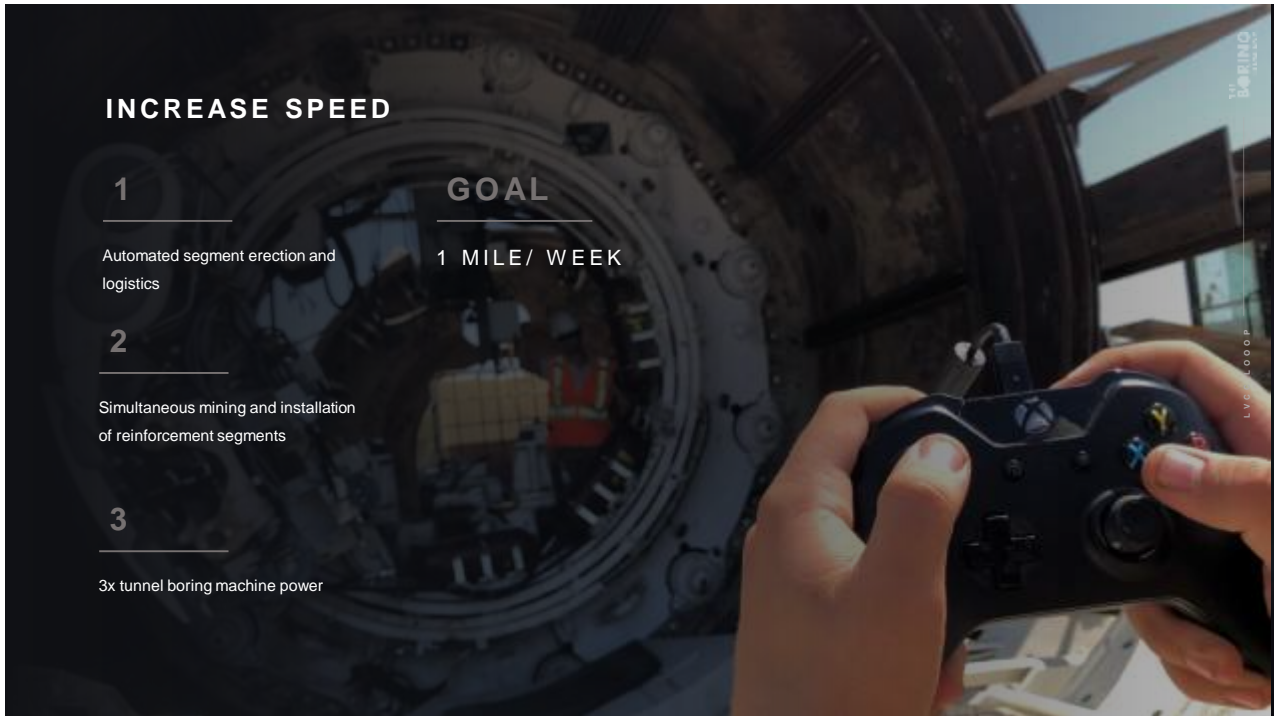
TRACK

No third rail or touch-hazards
Minimal fire load due to use of batteries
Highly resistant to water intrusion

TOP 50 VEHICLES TESTED BY NHTSA WITH THE LOWEST PROBABILITY OF INJURY (SINCE 2011)







INCREASE SPEED

1

Automated segment erection and logistics

2

Simultaneous mining and installation of reinforcement segments

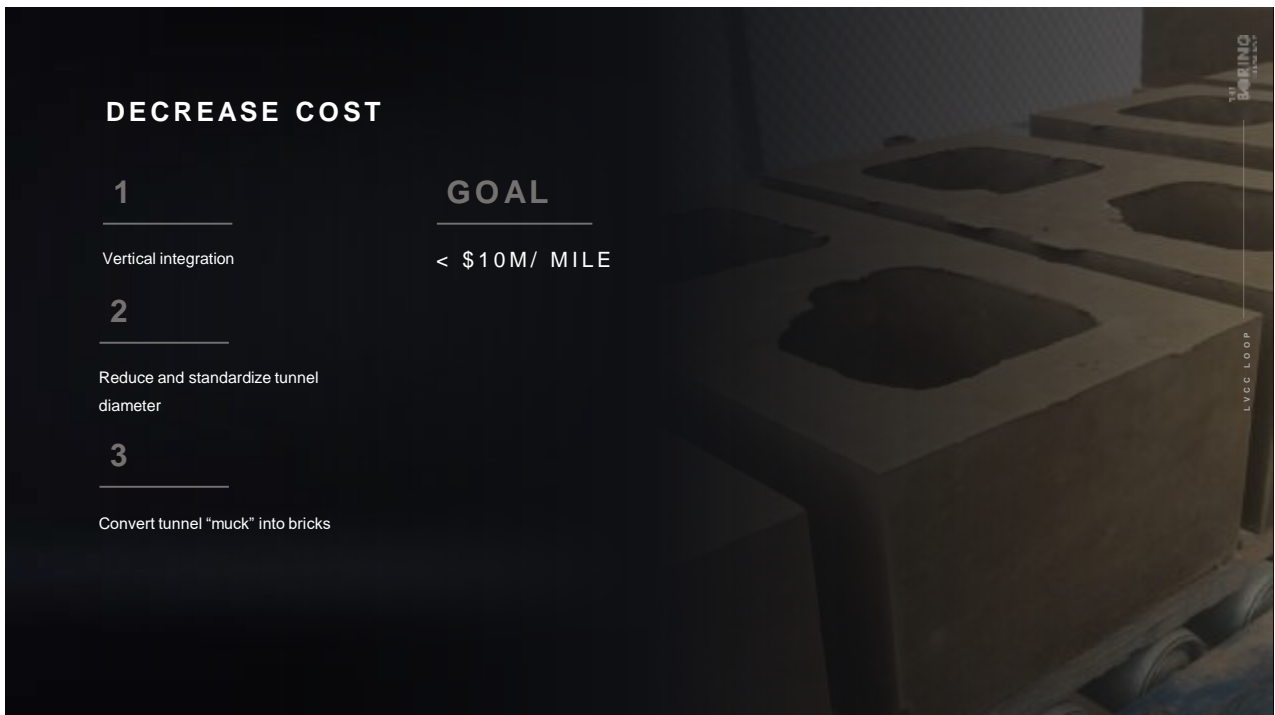
3

3x tunnel boring machine power

GOAL

1 MILE/ WEEK

THE BORING COMPANY
LVCC LOOP



DECREASE COST

1

Vertical integration

2

Reduce and standardize tunnel diameter

3

Convert tunnel "muck" into bricks

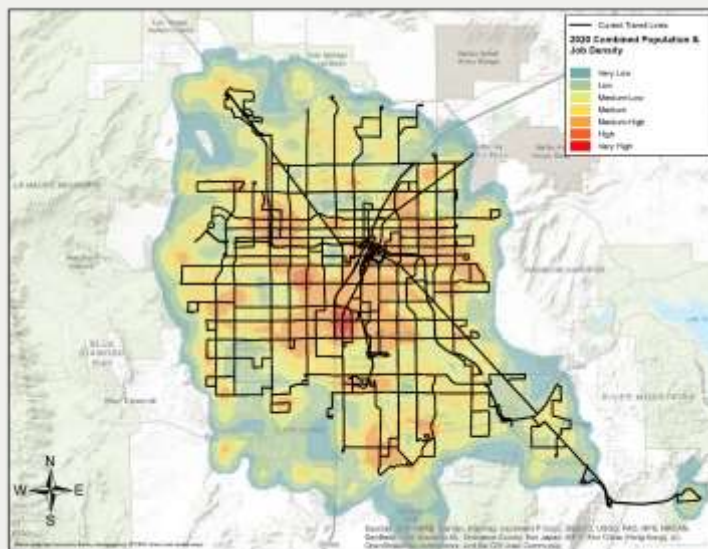
GOAL

< \$10M/ MILE

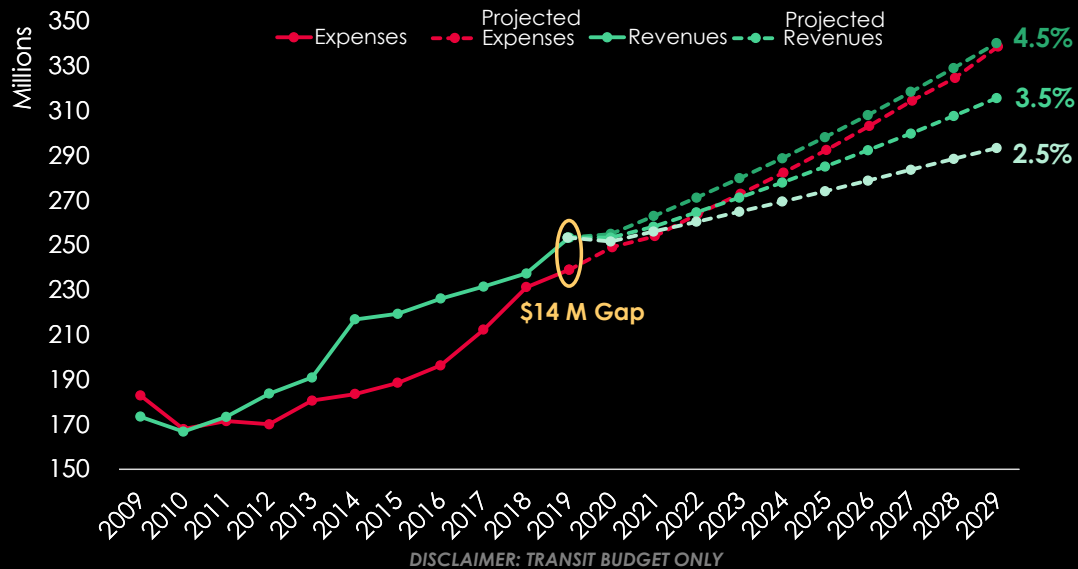
THE BORING COMPANY
LVCC LOOP

NEAR-TERM UNFUNDED TRANSIT NEEDS

2020 Combined Population & Job Density with Current Routes



OPERATING REVENUE & EXPENSES



NEAR-TERM NEEDS THRU 2024

Maintain Current Service
\$10 to \$20 Million Per Year

Maintain Current Service + Near-Term Improvements
Up to \$26 Million Per Year

Long-Term Improvements (On Board)
TBD

NOTE: Based on current projections, which could vary, assuming 3.5% average annual growth in sales tax.



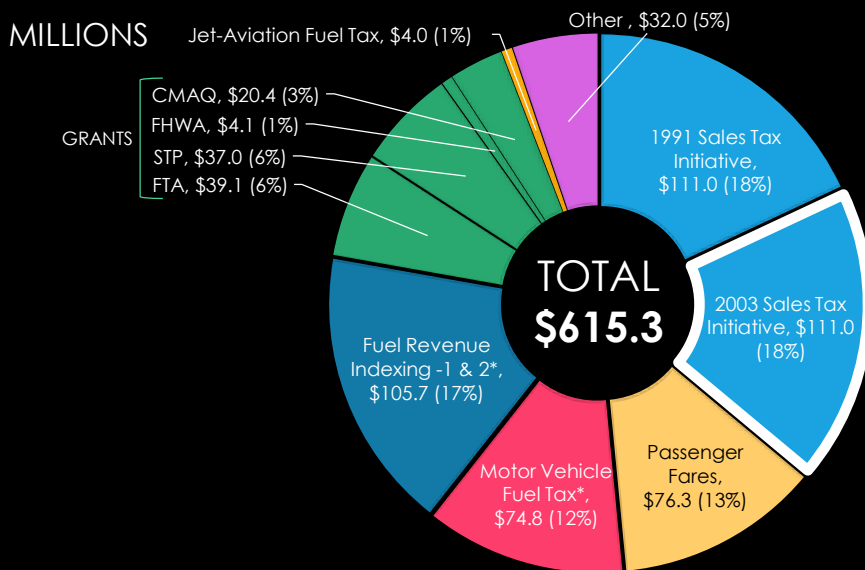
ROUTE REDUCTION CRITERIA



NO NEW TAXES / WORK WITH LOCAL GOVERNMENTS TO EXAMINE CURRENT SOURCES

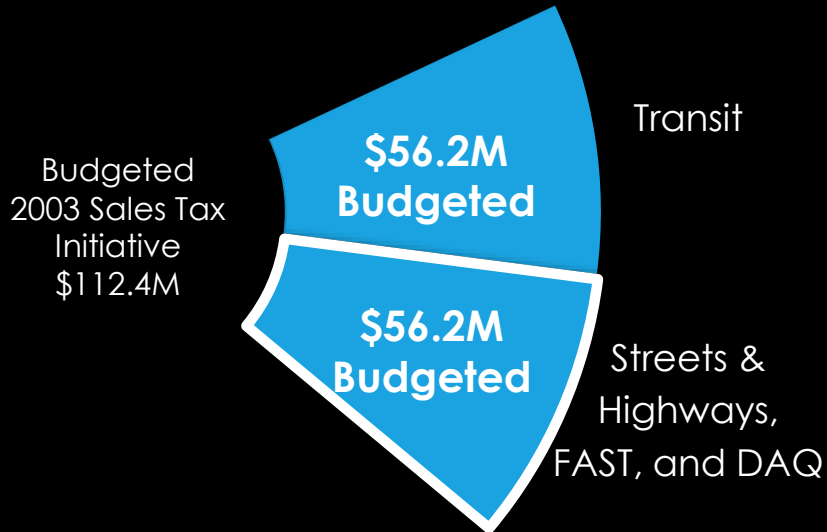


RTC REVENUE SUMMARY

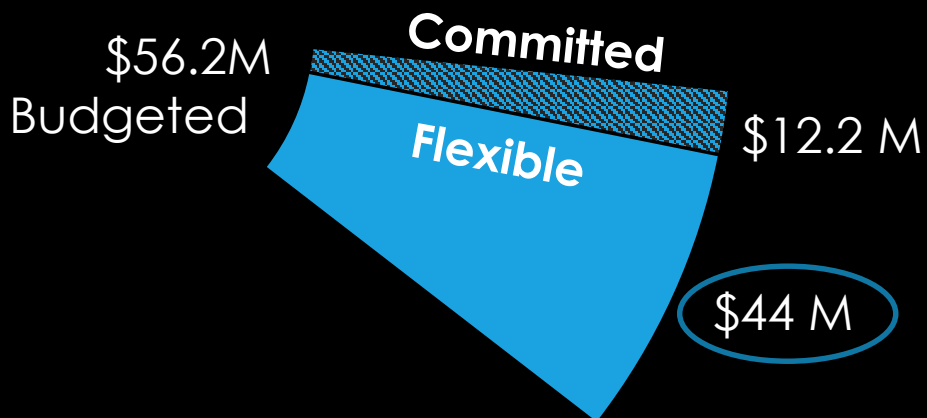


*Restricted to Streets and Highways Projects

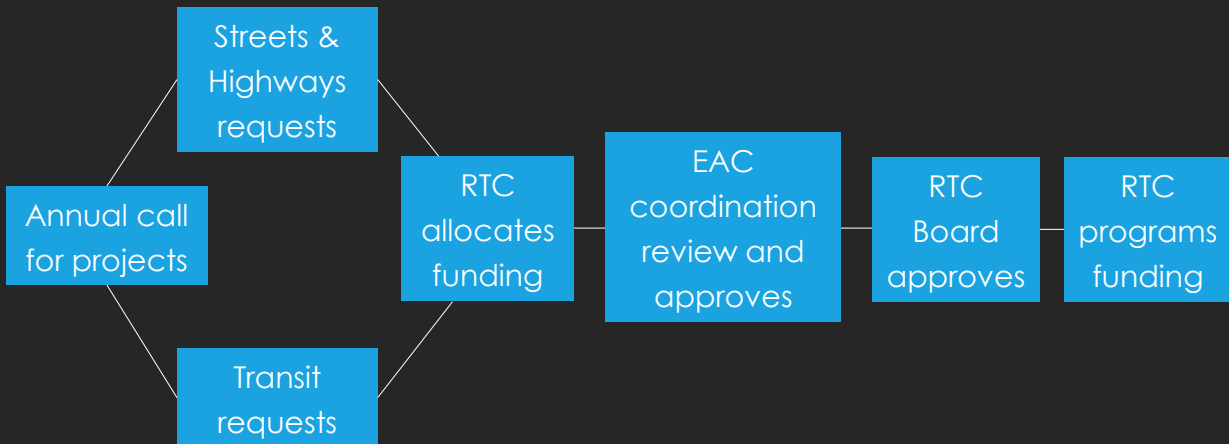
SALES TAX FUNDING



SALES TAX FUNDING



PROPOSED COLLABORATIVE PROCESS



SALES TAX BALLOT QUESTION





Item #6

A dark, atmospheric photograph of a modern building with a curved facade, illuminated at night. The building's lights create a starburst effect against the dark sky.

TRANSPORTATION NETWORK COMPANIES

A photograph of a multi-lane highway at night, with cars visible as blurred streaks of light, suggesting motion.

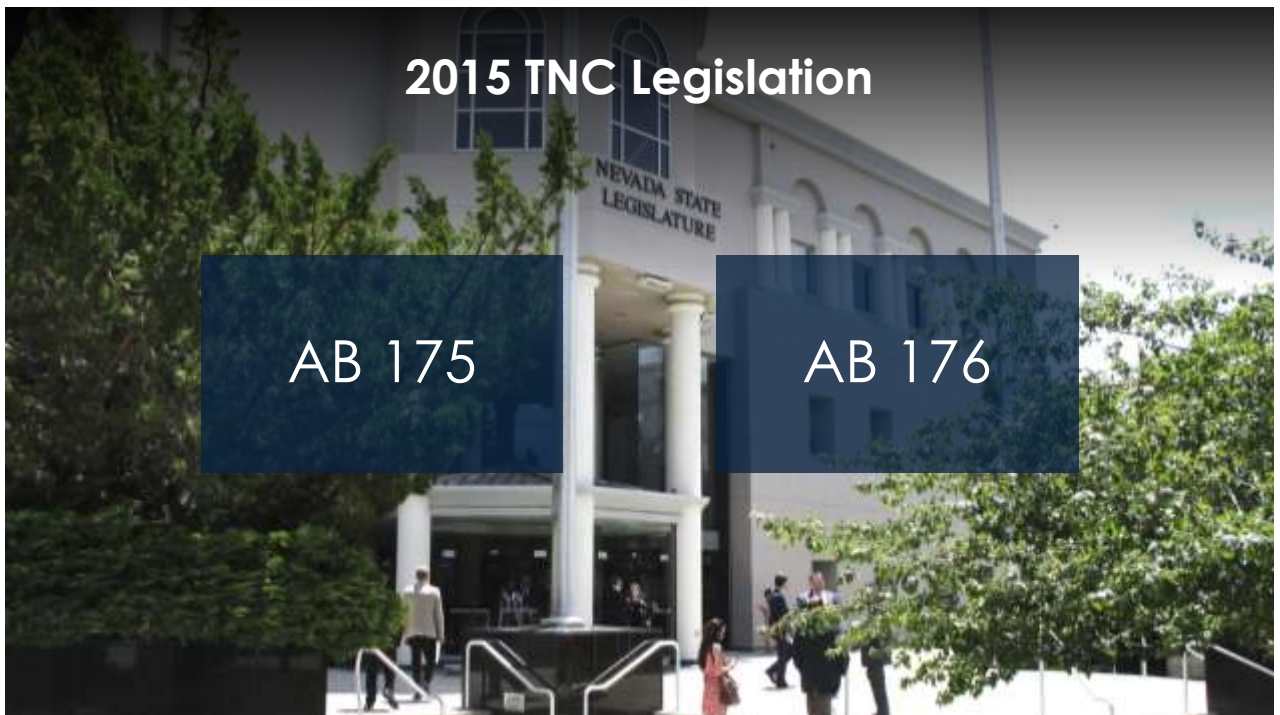
Transportation Network Company Legislative History

Brittany Walker
Holland & Hart

2014 Uber Launch in Nevada



2015 TNC Legislation



Record Keeping and Reporting Requirements

Record Keeping (3 years)

Trip records

Driver
records

Vehicle
inspections

Complaints

Accident
reports

Reporting

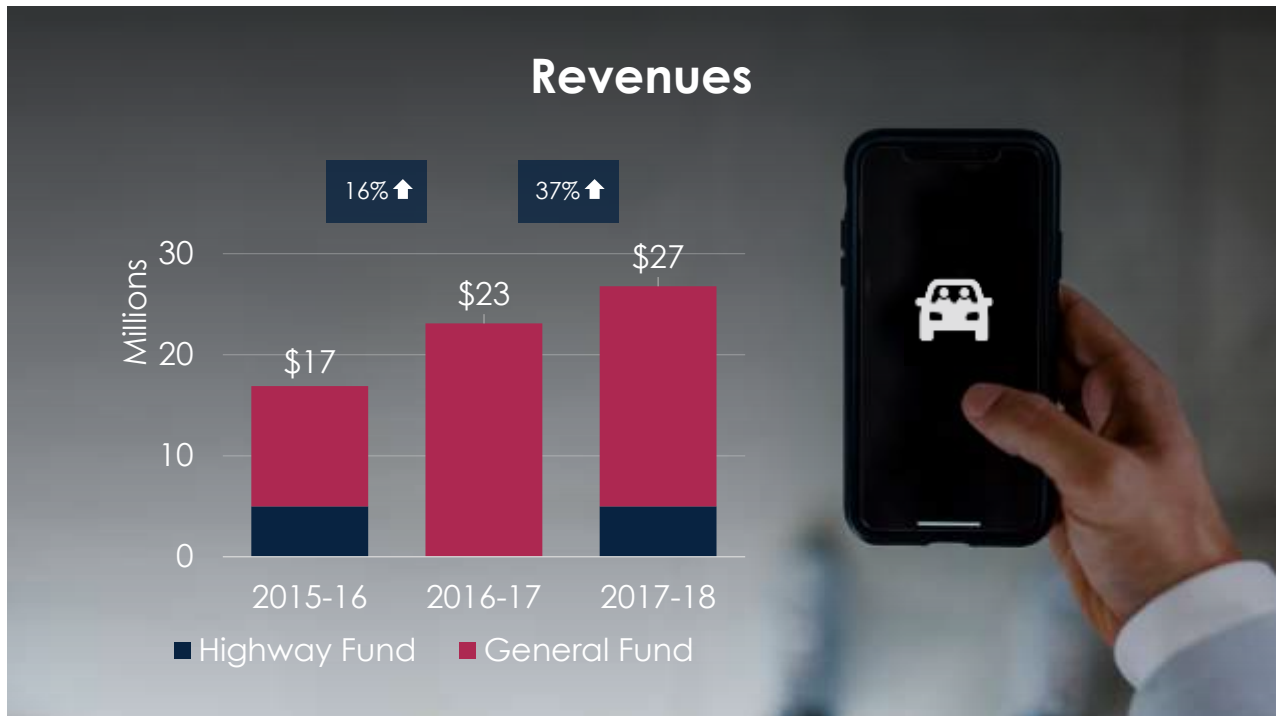
Business
transacted
in the State

Accident
information

Tax Rate

Excise tax = 3% of the
total fare charged





2019 TNC Legislation

No Legislation



Outstanding Issues





Questions?



Transportation Network Company Regulations

David Newton
Commissioner,
Nevada Transportation Authority

Who is the Nevada Transportation Authority (NTA)?

Limousines

Charter Buses

Towing Services

Transport of
Household
Goods

Contract
Carriers

Taxis Outside of
Clark County

Transportation
Network
Companies

Autonomous
Vehicle
Network
Companies

What is a Transportation Network Company (TNC)?

UBER

lyft

Requirements for Permit



TNC Fees

Application Fee

Minimum

No more than 100 drivers -
\$6,000

Maximum

More than 7,000 drivers -
\$500,000



Annual Assessment

Minimum

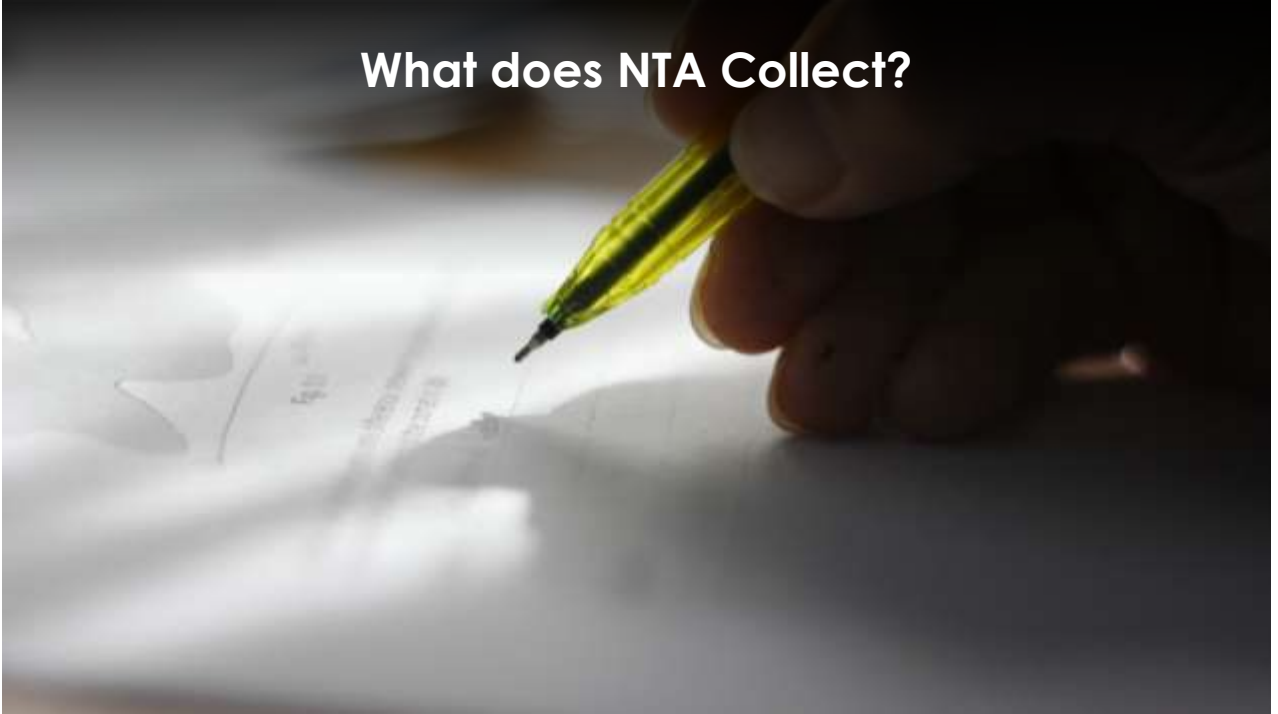
Operating Revenue of \$152,375 or
less - \$2,090

Maximum

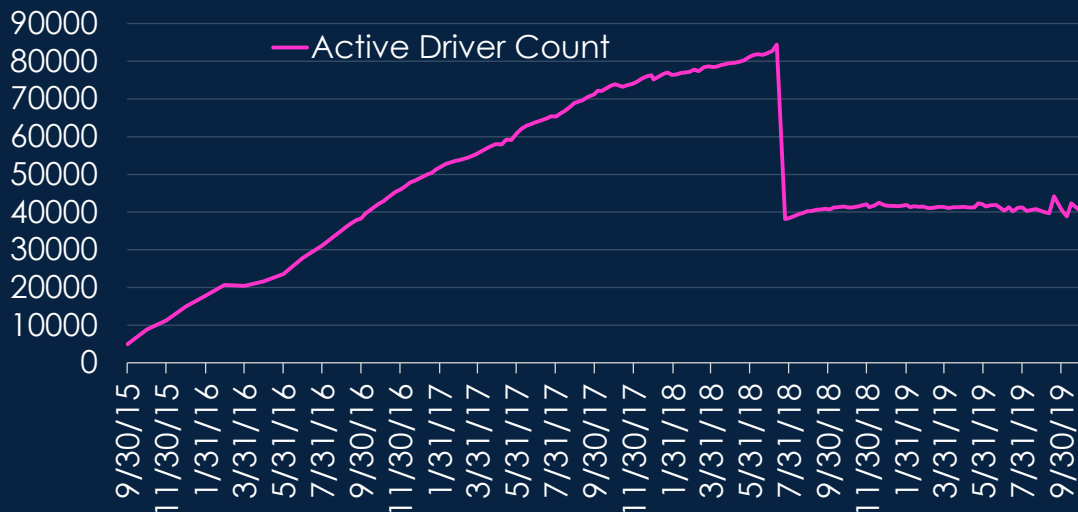
Operating Revenue of more than
\$70 M - \$1.6 M



What does NTA Collect?



TNCs ACTIVE DRIVER COUNT
As of 10/30/2019



Prohibited Acts by Drivers



Enforcement





Questions?



Nevada Transportation Authority



Transportation Network Companies in Other Cities and States

Guy Hobbs
HOBBS, ONG & ASSOCIATES



TNC Fees by City and State

Cities

Chicago, IL
New Orleans, LA
New York, NY
Philadelphia, PA
Portland, OR
Seattle, WA
Washington, D.C.

States

Alabama
California
Connecticut
Hawaii
Maryland
Massachusetts
Nevada
New York
Rhode Island
South Carolina
South Dakota
Wyoming

Types of Fees

Per Trip

\$.20 to \$2.75

Percentage

.33% to 8.875%

Fee Allocations

City General
Fund

State General
Fund

Regulatory
Agency

Transit
Agency

School
District

Parking
Authority

Transportation
Fund



Discussion



Item #7



MEETING RECAP:
LEGISLATIVE COMMITTEE ON
ENERGY'S WORKING GROUP



Item #8

TRAC NEXT STEPS



Item #9 – Upcoming Events



Monday, January 6, 2020

SUMMIT

7:30 - 11:30 a.m.

TECH SHOWCASE

11:30 a.m. - 4 p.m.



Wendy Brown
City of Las Vegas



David Martin
Nevada State



Paul Lambert
Nevada State



Laura Brown
Nevada State



Michael Brown
City of Las Vegas



Brent Wright
Nevada State



Cynthia White
City of Las Vegas



Amy Ross
City of Las Vegas



Michael Brown
City of Las Vegas



Ryan Kelly
Nevada State



Matt Kelly
Nevada State



Chris Brown
Nevada State



Bob Taylor
City of Las Vegas



Item #10

OPEN DISCUSSION



Item #11

FINAL CITIZENS PARTICIPATION

