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
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.

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
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 tunneled 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
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

DECREASE COST

1
Vertical Integration

2
Reduce and standardize tunnel diameter

3
Convert tunnel “muck” into bricks

GOAL
< $10M/MILE
Item #5

NEAR-TERM UNFUNDED TRANSIT NEEDS

2020 Combined Population & Job Density with Current Routes
OPERATING REVENUE & EXPENSES

- Expenses
- Projected Expenses
- Revenues
- Projected Revenues

$14 M Gap


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.
POTENTIAL ACTIONS TO ADDRESS BUDGET GAP

ROUTE REDUCTION CRITERIA

- Frequency reductions

- Reduction or elimination of routes based on ridership and proximity to other transit services
NO NEW TAXES / WORK WITH LOCAL GOVERNMENTS TO EXAMINE CURRENT SOURCES

RTC REVENUE SUMMARY

MILLIONS

1991 Sales Tax Initiative, $111.0 (18%)
2003 Sales Tax Initiative, $111.0 (18%)
Passenger Fares, $76.3 (13%)
Motor Vehicle Fuel Tax*, $74.8 (12%)
Fuel Revenue Indexing -1 & 2*, $105.7 (17%)
CMAQ, $20.4 (3%)
FHWA, $4.1 (1%)
STP, $37.0 (6%)
FTA, $39.1 (6%)
Other, $32.0 (5%)
Jet-Aviation Fuel Tax, $4.0 (1%)

TOTAL $615.3

*Restricted to Streets and Highways Projects

GRANTS

*Restricted to Streets and Highways Projects
SALES TAX FUNDING

Transit

$56.2M

Budgeted

Budgeted

Streets & Highways, FAST, and DAQ

Budgeted

$112.4M

2003 Sales Tax Initiative

SALES TAX FUNDING

Committed

$56.2M

Budgeted

Flexible

$12.2 M

$44 M
PROPOSED COLLABORATIVE PROCESS

- Annual call for projects
- Streets & Highways requests
- Transit requests
- RTC allocates funding
- EAC coordination review and approves
- RTC Board approves
- RTC programs funding

SALES TAX BALLOT QUESTION
TRANSPORTATION NETWORK COMPANIES

Transportation Network Company Legislative History

Brittany Walker
Holland & Hart
2014 Uber Launch in Nevada

2015 TNC Legislation

AB 175

AB 176
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

**Excise tax = 3% of the total fare charged**
Revenues

<table>
<thead>
<tr>
<th>Year</th>
<th>Highway Fund</th>
<th>General Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015-16</td>
<td>$17</td>
<td></td>
</tr>
<tr>
<td>2016-17</td>
<td>$23</td>
<td></td>
</tr>
<tr>
<td>2017-18</td>
<td>$27</td>
<td></td>
</tr>
</tbody>
</table>

2017 TNC Legislation

AB 487  
SB 554
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)?
Requirements for Permit

TNC Fees

<table>
<thead>
<tr>
<th>Application Fee</th>
<th>Annual Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Minimum</strong></td>
<td><strong>Minimum</strong></td>
</tr>
<tr>
<td>No more than 100 drivers -</td>
<td>Operating Revenue of $152,375 or less - $2,090</td>
</tr>
<tr>
<td>$6,000</td>
<td></td>
</tr>
<tr>
<td><strong>Maximum</strong></td>
<td><strong>Maximum</strong></td>
</tr>
<tr>
<td>More than 7,000 drivers -</td>
<td>Operating Revenue of more than $70 M - $1.6 M</td>
</tr>
<tr>
<td>$500,000</td>
<td></td>
</tr>
</tbody>
</table>
What does NTA Collect?

TNCs ACTIVE DRIVER COUNT
As of 10/30/2019

ACTIVE DRIVER COUNT
As of 10/30/2019

Active Driver Count
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

GO NV
Monday, January 6, 2020

SUMMIT
7:30 - 11:30 a.m.

TECH SHOWCASE
11:30 a.m. - 4 p.m.
Item #10

OPEN DISCUSSION

Item #11

FINAL CITIZENS PARTICIPATION