Transportation Planning at the Regional Scale

Elizabeth Whitton, AICP
Transportation Planner
ewhitton@metroplanorlando.com
MetroPlan Orlando

- Allocate federal and state funds related to transportation and air quality
- Long Range Transportation Plan (LRTP)
  Transportation Improvement Program (TIP)
  Prioritized Project List (PPL)
MetroPlan Orlando

BLUEPRINT 2040
• Adopted in 2014
• Readopted in 2015
• Fiscally Constrained
• Sets priorities
  – 5 years: TIP
  – Next 20 years: PPL

I-4 Ultimate
SunRail
Coast to Coast Trail
What must we consider for the next plan?
• FAST Act/Funding
  – 5-year federal transportation bill
  – Policy and Funding Questions remain
• Autonomous Vehicles
  – Must be part of next LRTP
• Connectivity
• Technology
• Demographics

Broadly speaking...
Getting There From Here

• How can our investment decisions make the region better?
• How can our investment decisions make the region better?
  – Access to Opportunities
Getting There From Here

• How can our investment decisions make the region better?
  – Access to Opportunities
  – Improve Health Outcomes
Getting There From Here

- How can our investment decisions make the region better?
  - Access to Opportunities
  - Improve Health Outcomes
  - Economic Development
Access to Opportunity

Technology

• Central Florida:
  – ITS Master Plan
  – Advanced Transportation & Congestion Management Technologies Deployment
  – Shared Mobility Strategies
    • Uber partnerships in Seminole County

• Across the country:
  – Smart Cities Challenge
  – Autonomous and Connected Vehicles
Ladders of Opportunity: USDOT Secretary Foxx initiative
- Connecting jobs, services, and healthcare
- Central Florida:
  - Average person spends 26% of their income on transportation
  - 718,941 jobs within ½ mile of transit
  - 2.2% commute on transit
Transportation and Health
Transportation and Health

Physical Activity: walk, bike, roll in safe, supportive environments

<table>
<thead>
<tr>
<th>Health condition</th>
<th>Reduced risk from being physically active^</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coronary heart disease and stroke</td>
<td>20–35%</td>
</tr>
<tr>
<td>Type 2 diabetes</td>
<td>35–50%</td>
</tr>
<tr>
<td>Colon cancer</td>
<td>30–50%</td>
</tr>
<tr>
<td>Breast cancer</td>
<td>20%</td>
</tr>
<tr>
<td>Hip fracture</td>
<td>36–68%</td>
</tr>
<tr>
<td>Depression</td>
<td>20–30%</td>
</tr>
<tr>
<td>Death</td>
<td>20–35%</td>
</tr>
<tr>
<td>Alzheimer’s disease</td>
<td>40–45%</td>
</tr>
</tbody>
</table>

Source: London Transport Action Plan
Transportation and Health

**Food Access:** eliminate food access gaps through transportation

- Increase availability of healthy, affordable food
- Improved diet can reduce chronic disease rates
Transportation and Health

**Environment:** promote sustainability

- Improved air quality can reduce asthma rates
- Other considerations:
  - noise pollution
  - Soil/Water quality

*Wekiva Island: 2016 Clean Air Award Winner*
Access to Care: improve how individuals access medical care

- Identified as a barrier in region’s 2013 Community Health Needs Assessment
Transportation and Health

Safety: create safe places to walk, bike, roll, play, and drive

Automobile Fatalities
- 2015: -20.4% vs 2011

Bicycle Fatalities
- 2015: -3.9% vs 2011

Pedestrian Fatalities
- 2015: +4.9% vs 2011

Automobile Injuries
- 2015: -9.3% vs 2011

Bicycle Injuries
- 2015: +5.0% vs 2011

Pedestrian Injuries
- 2015: +6.6% vs 2011

Source: Florida Department of Highway Safety and Motor Vehicles & Metropolitan Orlando Web-Based Crash Database
Transportation and Health

- **Physical Activity**: walk, bike, wheel in safe, supportive environments
- **Food Access**: eliminate food access gaps through transportation
- **Environment**: promote sustainability
- **Access to Care**: improve how individuals access medical care
- **Safety**: create safe places to walk, bike, wheel, play, and drive
- **Quality of Life**: provide mobility options leading to a resilient, engaged, and economically viable community
Transportation and Health

Complete Streets Program:
- Regional policy nearing adoption
- 6 municipalities with adopted policies
- Shift in PPL: 26 projects identified
  - up from 6 in TIP

Transit Expansion:
- Sunrail Phases 2 & 3
- BRT routes: US 192, SR 50, downtown, OIA to Convention Center

Best Foot Forward:
- Orange County, planned expansion to Osceola Co
Transit-Oriented Development (TOD)

- Denser development around transit stations
- Significant ROI
  - impact varies across the country
  - Cleveland’s Healthline:
    - $5-6.3 billion (114:1)
  - Las Vegas:
    - $2 billion (42:1)
  - Eugene, OR:
    - $100 million (4:1)

Tupperware SunRail Station and Mixed-Use Development
Economic Development

Connecting People and Goods Movement

- **IMPORTS**
  - 37.9 million tons

- **EXPORTS**
  - 23.1 million tons

- **WITHIN REGION**
  - 20.6 million tons

- **THROUGH REGION**
  - 120.6 million tons
Connecting People and Goods Movement: Regional Freight Network

**How Freight Moves**

- 95% by truck
- 4% by rail
- 1% by sea
- <0.1% by air
Questions Without Answers

• How do we integrate autonomous and connected vehicles into existing infrastructure?

• How can we ensure transportation connects, not divides?

• How will we pay for it?