

#### New Mobility + Complete Streets Workshop

May 29, 2019

Brad Davis & Jean Crowther– Alta Planning + Design Catherine Ciarlo – City of Portland

#### Agenda

- Welcome and Introductions 8:30am
- New Mobility Policy 8:45am
- Lunch + Keynote 11:45am
- New Mobility + Complete Streets Design 1pm
- Closing Remarks 3:30pm







#### **Presenters**



Jean Crowther, AICP



Brad Davis, AICP



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Catherine Ciarlo
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#### **Complete Streets Initiative**

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#### Overview

Complete Streets Advisory Committee (CSAC)

ADA Assistance & Trainings

Broward Complete Streets Guidelines



Safer, Healthier Streets for ALL Users



#### New Mobility Policy Scenario Planning Exercise

• Step 1: Policy Scenario

#### Scenario 1 New Courier Services

#### Service Description

A major online retailer has created a new suite of delivery services that include pickup kiosks and sidewalk bots. The retailer is looking to launch these services in your City.

#### **Problem Statement**

There is concern about locating pickup kiosks in the public right of way and the potential increase in traffic at their locations. For the sidewalk bots, there is concern about how a device can operate on sidewalks safely and efficiently. Are these services allowed with your existing codes? Is this a service that you need to/can regulate?



#### New Mobility Policy Scenario Planning Exercise

Step 2: Character Cards

#### Local Business Owner

Role: Your restaurant and coffee shop is an iconic destination for visitors and residents in Downtown, and is busy throughout the week and weekend. You have been running your business for 15 years. When you started your businesses, Downtown was struggling and it was easy to get to Downtown by car-easy to find parking spaces and no major traffic issues. Now Downtown is bustling with new businesses, residents, and tourism. While you appreciate the growth and financial performance of your businesses, your customers and food delivery services are increasingly complaining about access to your restaurants.



#### New Mobility Policy Scenario Planning Exercise

Step 3: Scenario Planning Worksheet

Scenario Planning Exercise	
1 Name Your Scenario	
2 What are your desired outcomes?	3 What are your tradeoffs?
What policy is needed to implement desired outcomes?	5 How are you going to build public support for your scenario?



#### Trend: Placemaking + People-Oriented Cities





# **Trend: Autonomous Urbanism**

























## Complete Streets 2.0



- Access and mobility for everyone regardless of age, ability, mode
- **Unique** responds to the specific needs of the community, streetscape, and land use context
- Balanced Provides the highest degree of transportation options, transitioning away from autocentric planning and design
- **Safe** prioritizes the needs of most vulnerable users
- Comprehensive Considers the larger network, a system-wide approach



## **Complete Streets 1.0**

# + New Mobility

# **Complete Streets 2.0**





PRIORITIZED USES



SAFE BY DESIGN



POINT-TO-POINT TRIPS



MULTIMODALISM



COMPLETE Networks

DIGITAL

INFRASTRUCTURE



ADAPTABILITY



OUTCOMES BASED





USES







#### SAFE BY DESIGN









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**POINT-TO-POINT** 

TRIPS



#### MULTIMODALISM







#### COMPLETE NETWORKS







#### DIGITAL INFRASTRUCTURE











#### ADAPTABILITY









#### **Complete Streets 2.0 in Practice**



MOBILITY HUB SITE



LINEAR MOBILITY BLOCKS















### **Complete Streets 2.0 in Practice**

Design is guided by:

- Mode
- Speed
- Person-Capacity
- Demand


























# **Complete Streets 2.0 in Practice**

#### Design by Mode







## Design for **Person-capacity**

A growing city, a fixed right-of-way



Cars: 28 people / city block



Buses: 225 people / city block



Walking: 1000 people / city block

Source: Portland Bureau of Transportation



# **Complete Streets 2.0 in Practice**

## Design by Speed





# **Complete Streets 2.0 in Practice**

## Design for **Demand**





#### **BENEFITS AND RISKS: PEDESTRIANS**





## **BENEFITS AND RISKS: PEDESTRIANS**

- Assumed Benefit: Reduction in crashes since AVs automatically stop for pedestrians
- Potential Risk: Pedestrians will be highly regulated to avoid stop-and-go AV traffic



#### **BENEFITS AND RISKS: BICYCLISTS**





## **BENEFITS AND RISKS: BICYCLISTS**

Assumed Benefit: Reduction in crashes and increased bike-sharing options

Potential Risk: Attention to individual AV vehicles prioritizes road space for cars



#### **BENEFITS AND RISKS: CARS**





## **BENEFITS AND RISKS: CARS**

- Assumed Benefit: Reduction in car use and ownership with shared, autonomous fleets
- Potential Risk: Increased car use as travelers eschew active modes and transit for the ease of AVs



## **BENEFITS AND RISKS: TRANSIT**





## **BENEFITS AND RISKS: TRANSIT**

Assumed Benefit: AVs feed more riders to transit

Potential Risk: Transit suffers as riders switch to shared-use ridesharing and AVs



#### **BENEFITS AND RISKS: STREETS**





## **BENEFITS AND RISKS: STREETS**

- Assumed Benefit: Excess street space can be converted to parks and open space
- Potential Risk: Cities will need to invest heavily in street repair and maintenance to avoid false signals for AVs using roadways



## **BENEFITS AND RISKS: PARKING**





## **BENEFITS AND RISKS: PARKING**

- Assumed Benefit: Shared AVs need fewer spaces and parking can be located in otherwise inconvenient locations
- Potential Risk: AVs will clog streets as they circulate – using streets like parking. Higher VMT from cars circulating or relocating to distant parking



# **BENEFITS AND RISKS: FREIGHT & DELIVERIES**





#### **BENEFITS AND RISKS: FREIGHT & DELIVERIES**

Assumed Benefit: Faster deliveries for on-demand retail and lower delivery costs

Potential Risk: Job losses. Sidewalk congestion with driverless delivery pods



#### **BENEFITS AND RISKS: REVENUE**





## **BENEFITS AND RISKS: REVENUE**

- Assumed Benefit: Cities can rethink revenue sources as gasoline tax remittances shrink. The new frameworks can include incentives for active and low impact modes
- Potential Risk: Job losses. Loss of office and hotel taxes as drivers use vehicles for overnight trips and work. Loss of auto permits, tickets and parking revenue



## **BENEFITS AND RISKS: SAFETY**





## **BENEFITS AND RISKS: SAFETY**

- Assumed Benefit: Fewer collisions between cars and vulnerable roadway users
- Potential Risk: AVs can be hacked. Ethical considerations for unavoidable crashes



### **BENEFITS AND RISKS: EQUITY**





## **BENEFITS AND RISKS: EQUITY**

- Assumed Benefit: Travel options increase for mobility-impaired populations such as teenagers and the elderly. Greater number of options outside city centers
- Potential Risk: Cars can be programmed to avoid certain situations and geographic locations



#### Urban Location Street: *Las Olas Blvd, Ft. Lauderdale, FL* ROW: *81*'





Suburban Location Street: *Oakland Park Blvd, Oakland Park, FL* ROW: 100'





'Rural' Location Street: *SW 45th Street, Davie, FL* ROW: **72'** 





## GOAL

- Design your ideal cross section.
- Balance the needs of a variety of road users.

At a <u>minimum</u>, strive to achieve the following:

- **Urban:** All Ages and Abilities micro-mobility facility, improved pedestrian experience, improved transit experience.
- **Suburban:** High-quality transit experience, improved micromobility experience, minimum of 2 car lanes.
- *Rural:* Improved walking and biking experience, improved freight access, maintain car access.





## **RULES**

#### You...

- must stay within the right-of-way (ROW);
- can change curb lines, lane widths, etc.;
- can stack elements that can occur within the same zone; and
- can propose elements that are not part of the game pieces (draw them out!)



## **ASSUMPTIONS**

 Certain uses have MIN and MAX widths:

ITEM	MIN	MAX
SIDEWALK	4'	-
STREET TREES	4'	-
CAR PARKING	7'	8'
PRO-TIME PARKING	10'	-
MICRO-MOBILITY LANE	5′	6'
MICROMOBILITY LANE BUFFER	2'	-
2-WAY MICRO-MOBILITY LANE (BUFFER REQUIRED)	10'	-
STANDARD TRAVEL LANE	10'	-
LANES w/ TRANSIT (EXISTING)	10′	-
LANES w/ TRANSIT (PROPOSED)	11'	-
SIDEWALK	4'	-



# **10 Steps to Be New Mobility Ready**

- 1. Define success
- 2. Prepare for rapid flux
- 3. Engage communities, constituents, clients, and new allies
- 4. Adopt a new mobility resolution
- 5. Prepare for disruption at city hall
- 6. Design high performing, human-oriented streets
- 7. Take advantage of technology now
- 8. Focus on transitions as transportation and technology advances
- 9. Adopt pilot projects as an implementation tool
- 10. Continue designing human-oriented communities


## **Contact Us**



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