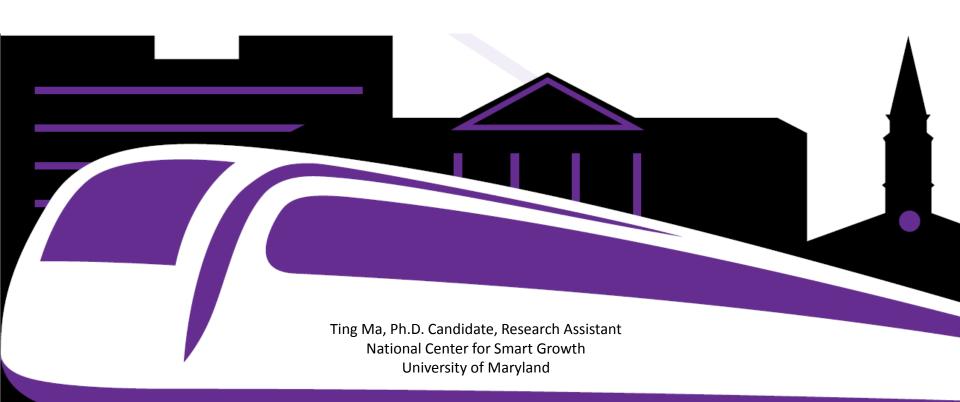


14th Annual New Partners for Smart Growth Conference

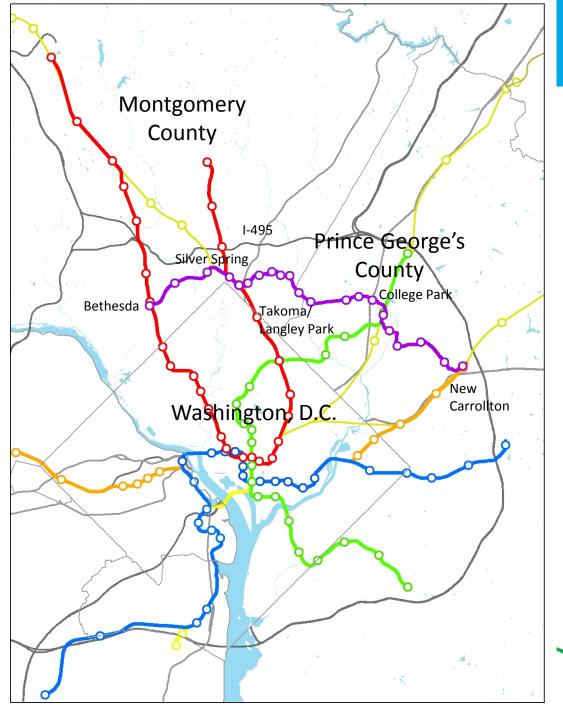
### **Leveraging New Transit for Better Communities:**

Transit-Oriented Development as a Catalyst and Stabilizer along the Red and Purple Lines

### **Maryland Purple Line**









### **Project Schedule**

- Environmental Approval in 2013
- FTA New Starts
  - Entry into Preliminary Engineering in Oct 2011
  - Entry into Engineering in Aug 2014
  - Recommended for full funding in FY 2015 budget
- Public-Private Partnership (P3)
  - Approved by BPW in Nov 2013
  - Shortlisted proposers in Jan 2014
  - Proposals due March 2015
- 2015-2020 Final design & construction
- 2020 Purple Line service begins

Maryland National Capital Purple Line Bethesda to New Carrollton, Maryland New Starts Engineering (Rating Assigned July 2014)

#### **Summary Description**

Proposed Project: Light Rail Transit

16.2 Miles, 21 Stations

Total Capital Cost (\$YOE): \$2,427.97 Million (Includes \$126.0 million in finance charges)

Section 5309 New Starts Share (\$YOE): \$900.00 Million (37.1%)

Annual Operating Cost (opening year 2020): \$58.15 Million

Current Year Ridership Forecast (2014): 44,300 Daily Linked Trips

16,627,600 Annual Linked Trips

Horizon Year Ridership Forecast (2035): 56,100 Daily Linked Trips 20,979,500 Annual Linked Trips

Overall Project Rating: Medium-High
Project Justification Rating: Medium-High
Local Financial Commitment Rating: Medium-High





## THE PURPLE LINE

by the numbers





16 miles



61,000 average weekday trips



21 stops



2 counties

#### Within a half mile:







#### **Serves Diverse Communities**



Housing values range from



\$100,000 to over \$1,000,000









### Four Goals

- Ensuring Housing Choices for All. Balance housing options for people of all income levels in communities throughout the corridor.
- Supporting and Growing Local Businesses. Maximize the likelihood that diverse, locally owned businesses thrive during and after the construction period.
- Building a Thriving Labor Market. Assure that workers and employers in the corridor grow in number and are well matched in skill levels and location.
- Celebrating Neighborhood Identities. Create vibrant and sustainable environments that enhance community health, culture and sense of place.



### 20+ Members 150+ Engaged Stakeholder Organizations





NC:

- Tool 1. Data-driven analysis of both Purple Line corridor's today and tomorrow.
- Tool 2. Workshops to create shared vision, to identify opportunities and challenges, and to seek solutions.

 Tool 3. A community compact to articulate vision, strategy, and commitment.



## A CAR NCSG

## Tool 1. Data-driven analysis

- Corridor database
- GIS models
- GIS maps
- Web tools
- Reports

- Demographics
- Housing
- Jobs
- Economic development
- Transportation
- Land use
- Schools, health care facilities, institutions...



### **Percentage of African American Population**

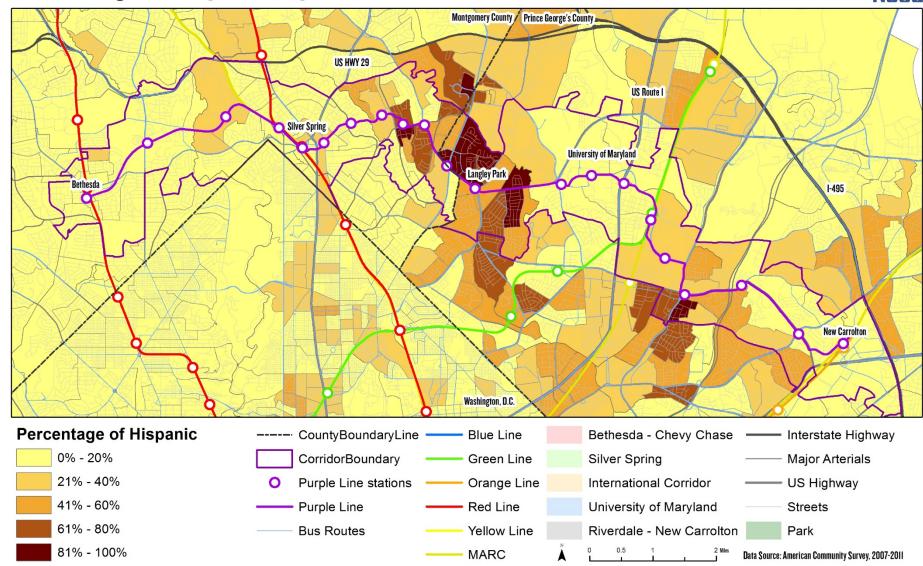






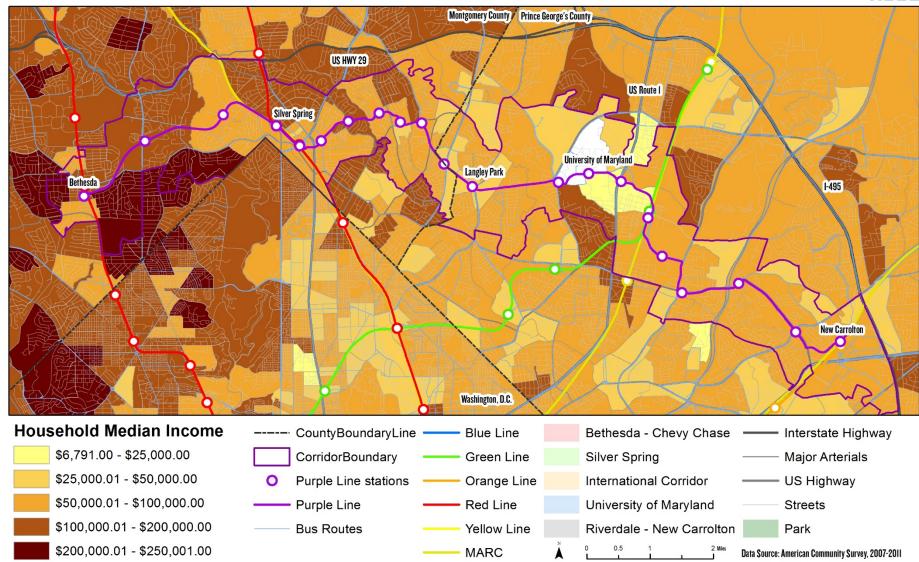
### **Percentage of Hispanic Population**





### **Household Median Income**



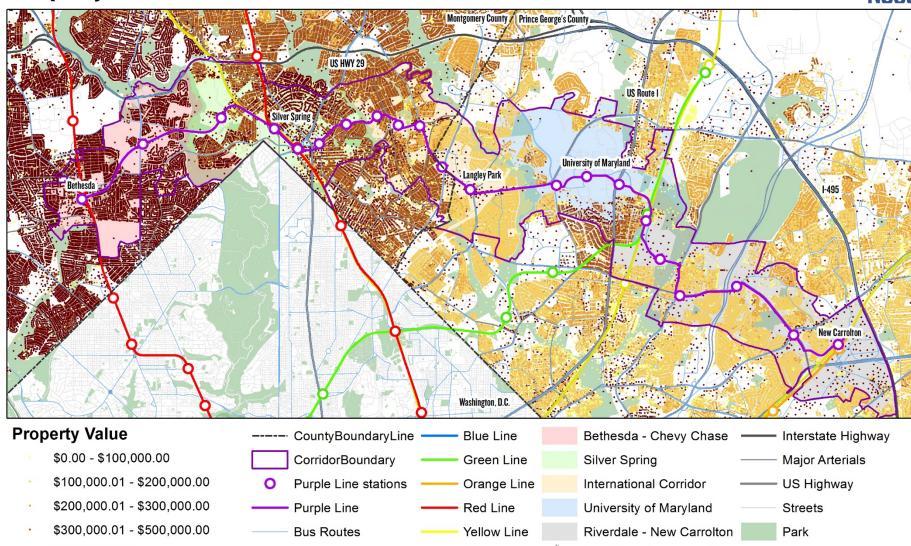


### **Property Value**

\$500,000.01 +



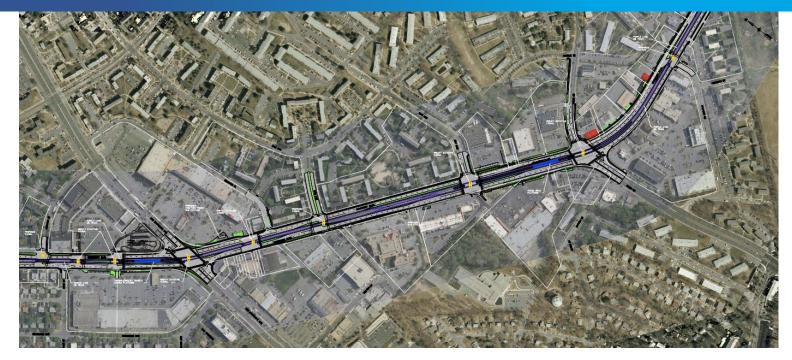
Data Source: Maryland Property View, 2011

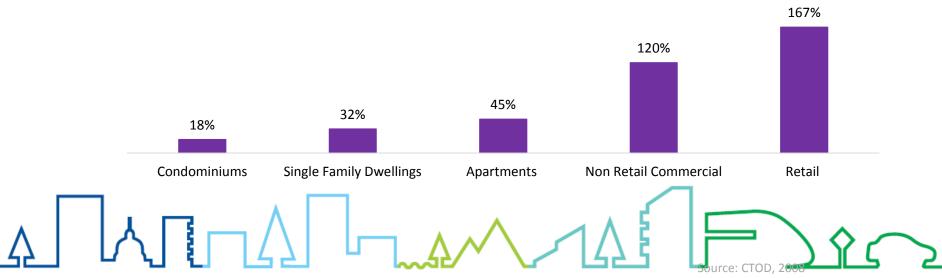


MARC

### **Property Value Premium Attributable to Proximity of Transit**

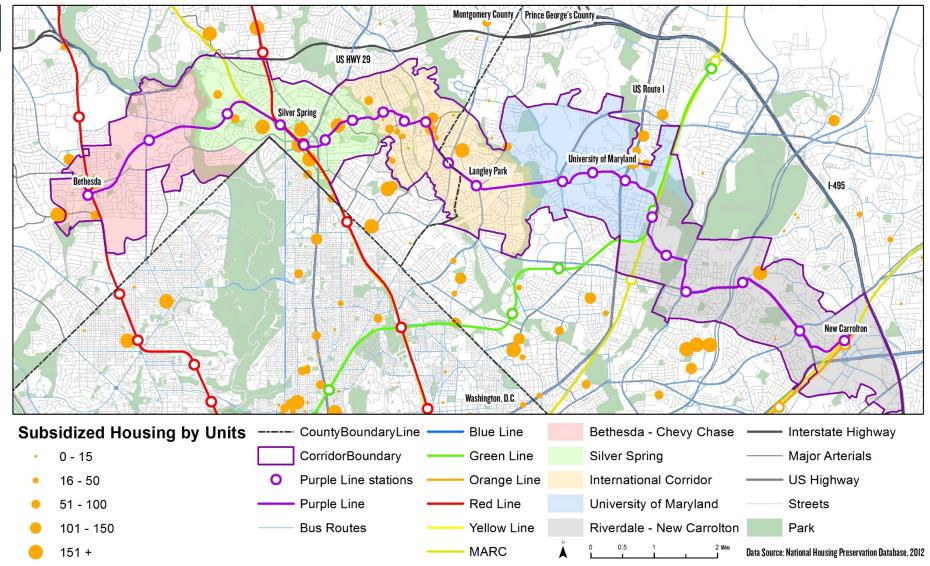
NCSG





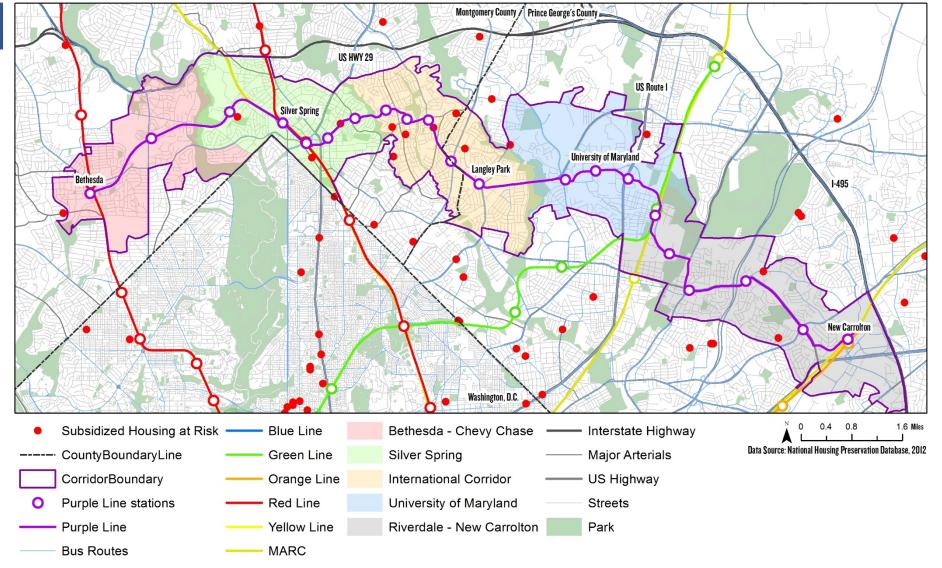
### **Subsidized Housing Units**





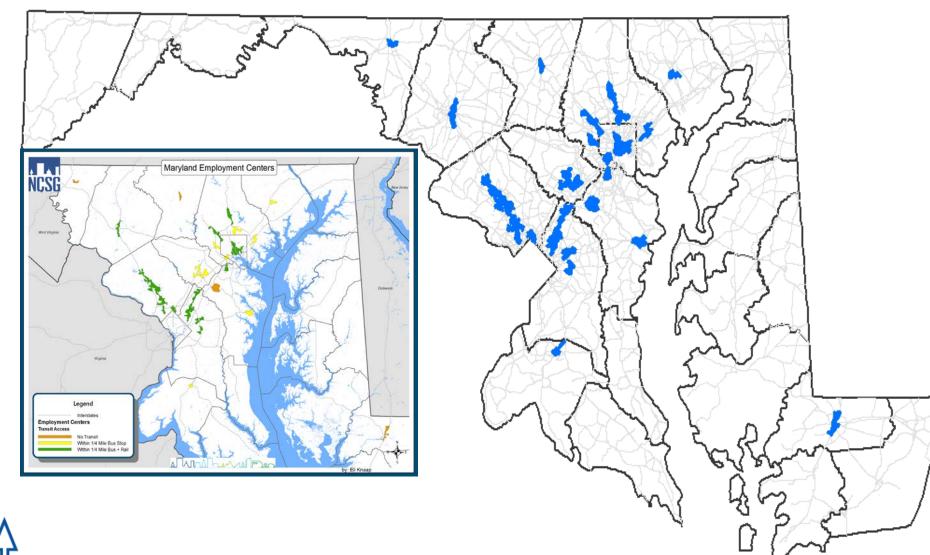
### Subsidized Housing at Risk (Expire by 2020)





## Maryland's Economic Engines

23 Job Centers = 1% of land, 40% of jobs

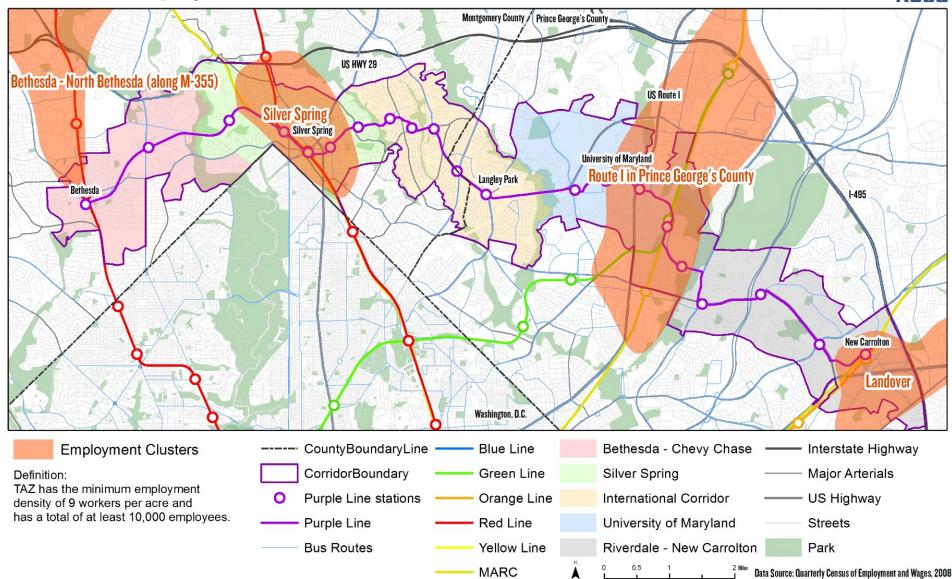




**NCSG** 

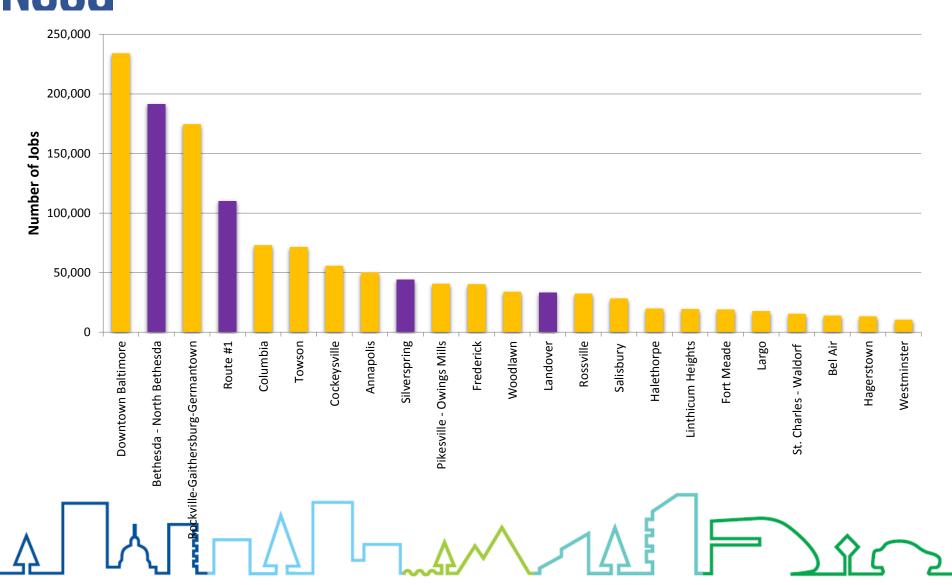
### **Access to Employment Clusters**



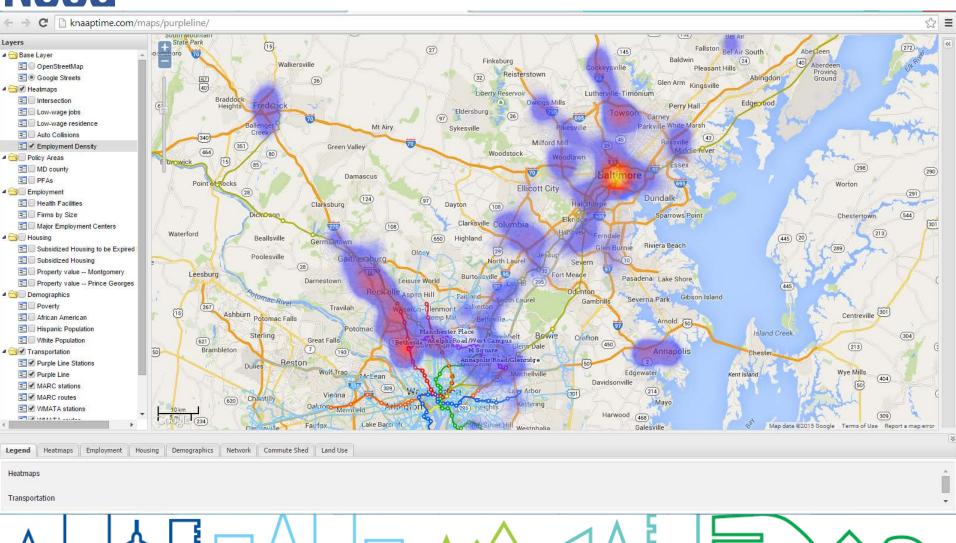


# A CAR

## Cluster Employment



## Web Tool - Employment "Heat Map"



## Tool 2. Workshop

- Beyond the Tracks: Community Development in the Purple Line Corridor
- 260 + community stakeholders
- Learn case studies of Denver, Minneapolis-St. Paul, etc.
- Build a shared approach towards Purple Line development
  - Take a corridor view
  - Provide strong, committed leadership
  - Adopt a collective impact strategy
  - Support community economic development
  - Develop strategic plans and goals



### **Purple Line Workshop**



# Tool 3. Community Compact

A community Compact is a written but not legally binding document that articulates a vision for the future, a strategy for achieving that vision, and a commitment of its signatories to taking actions toward the vision. When prepared in advance of a major investment in light rail transit, community compacts often include commitments to preserving affordable housing, supporting small businesses during and after construction, connecting workers with jobs, and working to create vibrant, sustainable, and equitable communities. Community Compacts are typically signed by elected and appointed government officials; léaders of community, business, and labor organizations; and representatives of key public and private institutions. Community compacts are not an end in themselves, but set the framework for future steps towards implementation by signatory organizations.



# Purple Line Community Compact

- Two Town Hall Meetings
- Draft PLCC Compact Underway
- Will Be Presented to New Administration















- Purple Line Corridor Coalition: <a href="http://smartgrowth.umd.edu/plcc">http://smartgrowth.umd.edu/plcc</a>
- Purple Line GIS maps: <a href="http://smartgrowth.umd.edu/plccmaps">http://smartgrowth.umd.edu/plccmaps</a>
- Purple Line web tool: <a href="http://knaaptime.com/maps/purpleline/">http://knaaptime.com/maps/purpleline/</a>
- Purple Line Community Compact: <a href="http://smartgrowth.umd.edu/plcompact">http://smartgrowth.umd.edu/plcompact</a>







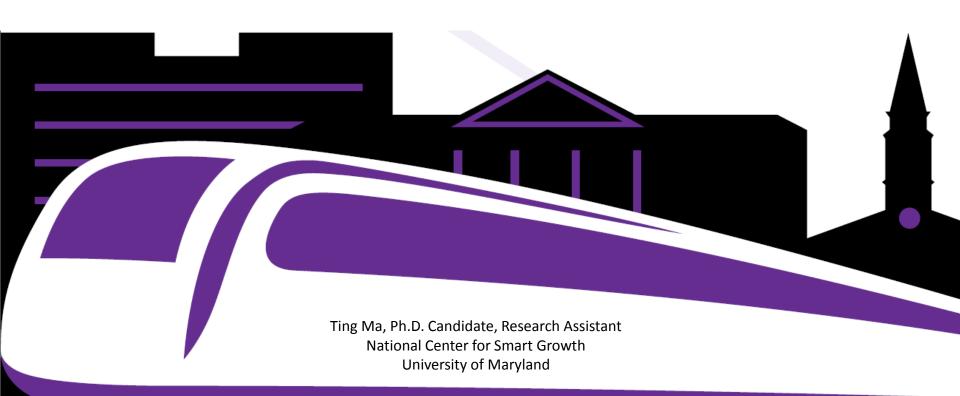


14th Annual New Partners for Smart Growth Conference

### **Leveraging New Transit for Better Communities:**

Transit-Oriented Development as a Catalyst and Stabilizer along the Red and Purple Lines

### **Maryland Purple Line -- Job Accessibility Model**

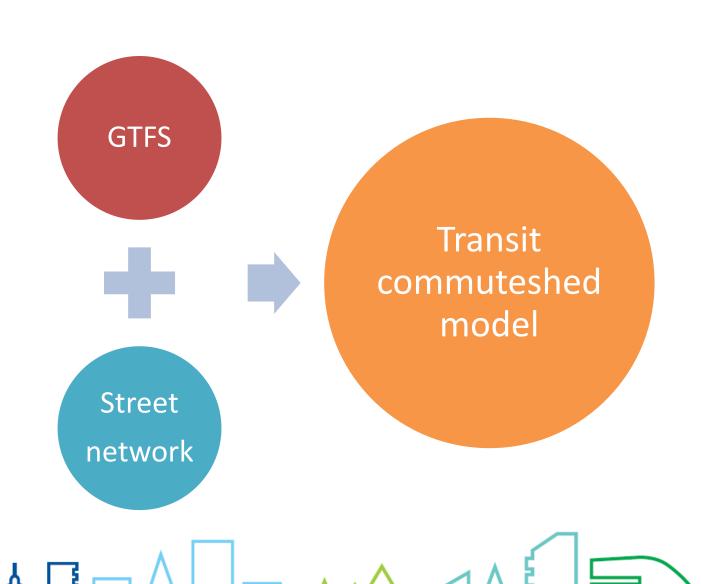




Where the Purple Line can get people to?



### Purple Line's Impact on Job Accessibility



# General Transit Feed Specification (GTFS) Sepency\_1.64, spency\_ust, spency\_us

#### stops.txt

```
stop_is, stop_name, stop_deac, stop_let, stop_len, stop_wrl, location_type, parent_station
$1, Mission St. & Silver Arm., The stop is located at the southwest corner of the intersection., $7.72853, -122.4312
$3, Mission St. & Continual Arm., The stop is located 2D Cest south of Mission St., $21.7412, 412453,,,,
$3, Mission St. & Silver Arm., The stop is located at the southwest corner of the intersection., $7.75213, -122.43851,,,
$4, Mission St. & Silve St., The stop is located at the northwest corner of the intersection., $7.75213, -122.43851,,,
$5, Mission St. & 19th St., The stop is located 2D feet west of 18th St., $7.762529, -122.438521,,,,
$5, Mission St. & 19th St., The stop is located 1D feet month of Mission St., $1.766529, -122.438762,,,,,
$7,24th St. Mission Station,, $7.732140, -122.43850, http://www.bart.gov/stations/stationguide/stationoverview_24st.

4
```

#### routes.txt

```
route_id, route_short_name, route_long_name, route_desc, route_type
A,17, Mission, "The ""A" route travels from lower Mission to Downtown.", 3
```

#### trips.txt

```
coute_id, mervice_id, trip_id, trip_headmign, block_id
A, NE, ANEI, Downtown, 1
A, NE, ANEI, Downtown, 2
```

#### stop\_times.txt

```
trip_id, arrival_time, departure_time, stop_id, stop_sequence, pickup_type, drop_off_type
AMEL, pose:10,0:00:10,5:1,0:0,0
AMEL, pose:20,0:00:30,53,3,0,0,0
AMEL, pose:20,0:00:30,53,3,0,0,0
AMEL, pose:20,0:00:30,53,3,0,0,0
AMEL, pose:20,0:00:30,53,3,0,0,0
AMEL, pose:20,0:00:20,5:0,5,3,0,0,0
AMEL, pose:20,0:00:20,5:0,5,3,0,0,0
AMEL, pose:20,0:00:20,5:0,5,3,0,0,0
AMEL, pose:20,0:00:20,5:0,5,3,0,0,0
AMEL, pose:20,0:00:20,5:0,5,3,0,0,0
AMEL, pose:20,0:00:20,5:0,5,0,0,0
AMEL, pose:20,0:00:20,5:0,5,0,0,0
AMEL, pose:20,0:00:20,5:0,5,0,0,0
```

#### calendar.txt

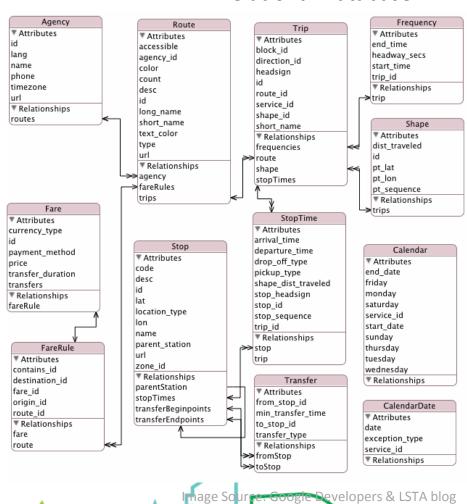
```
service_id, monday, toesday, wednesday, thursday, Criday, saturday, sunday, start_date, end_date
ME_C, C, C, C, C, L, L, LCCCCCCL, LCCCCCCLL
MC, L, L, L, L, C, C, CCCCCCLL, LCCCCCCLL
```

#### calendar\_dates.txt

This example shows service exceptions for the independence Day holiday in 2006. On Monday July 3, 2006, regular weekday service (service\_Id+WD) is interrupted (exception\_type+2). Instead, weekend service (service\_Id+WE) runs on that date (exception\_type+1). The same change applies on Tuesday July 4, as well.

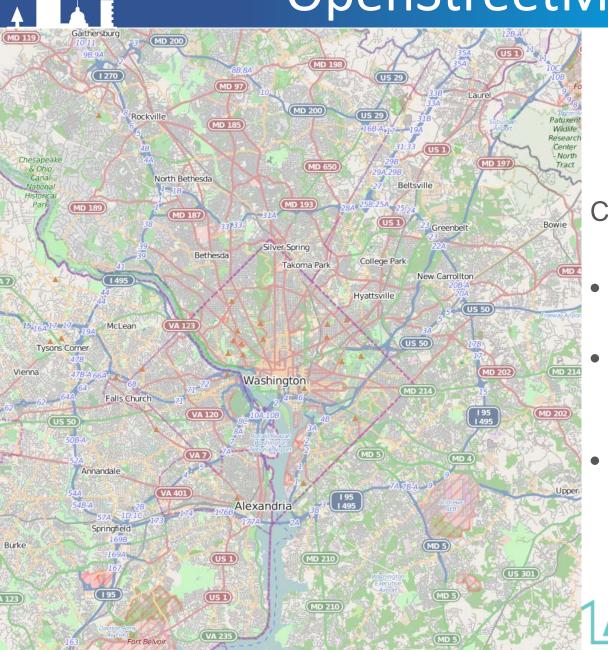
```
DELTATOR OF THE STATE OF THE ST
```

#### **Relational Database**





## OpenStreetMap

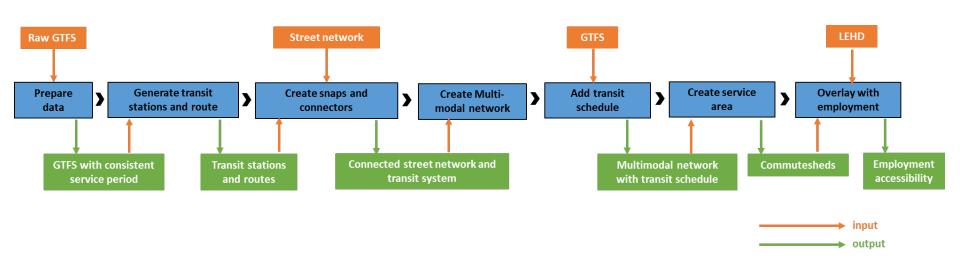


#### Characters

- Created and edited by volunteer mappers,
- Elements include roads, trails, stations, and so on,
- Open data, free to use

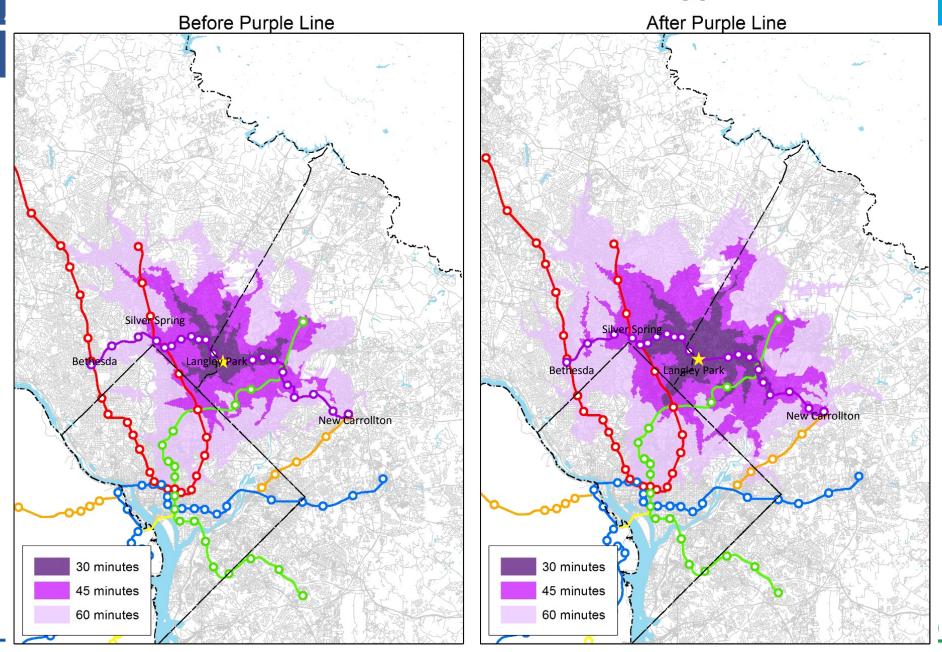


## **Model Steps**





### MultiModal Transit Commuteshed of Planned Riggs Road Station





### Accessible Jobs by Skill Level

	30 minutes			45 minutes			60 minutes		
	Before	After	Change	Before	After	Change	Before	After	Change
Low Skill Jobs	2,689	4,829	80%	10,156	14,363	41%	47,681	72,922	53%
Medium Skill Jobs	10,123	18,254	80%	37,561	53,110	41%	160,358	269,157	68%
High Skill Jobs	9,915	16,065	62%	29,781	40,231	35%	118,546	236,957	100%





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