

# Easing Gridlock by Connecting Development & Transportation Demand Management

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# What could TDM mean for Charlotte?

ULI Charlotte: Easing Gridlock by Connecting Development & TDM



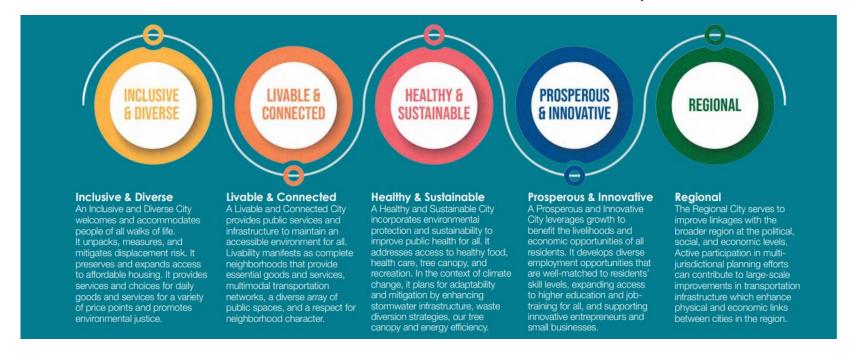
Christopher Forinash, Principal

June 10, 2021

# So, anything going on in Charlotte with development, planning, or transportation these days?

# SO, ANYTHING GOING ON IN CHARLOTTE WITH DEVELOPMENT, PLANNING, OR TRANSPORTATION THESE DAYS?

- Charlotte Future 2040 Comprehensive Plan ... under development for 2+ years, in front of Council
- Unified Development Ordinance (UDO) ... TOD Districts adopted 2019, remainder in development
- Charlotte MOVES Task Force ... recommended transformational mobility network investments late 2020



# SO, ANYTHING GOING ON IN CHARLOTTE WITH DEVELOPMENT, PLANNING, OR TRANSPORTATION THESE DAYS?

Meanwhile, development continues apace, in Uptown, TOD districts, and well beyond.

- City and region continue to attract new residents and businesses
- Increasing demand for living closer-in, near walkable streets and transit and greenways
- Demand for conventional suburban development remains ... but evolves
  - Outdated, inflexible minimums require too much parking in most contexts
  - o Traffic Impact Study methods aren't capable of understanding multimodal travel
  - Traffic mitigations rigidly require expanding roads

## **The Vicious Cycle**

**Traffic and Congestion More People Drive** Widen Roads More Development Happens **Faster Driving** 



## **MOBILITY BEYOND EXPANDING ROADS**

#### Goal: Safe and Equitable Mobility

- Mobility that serves everyone
- Gets them to where they want to go safely, conveniently, and affordably
- Gives them choices
- Meets other goals and values

#### How does it happen?

- The City plans and creates the mobility network (with developer contributions)
- Make sure it serves everyone, for most destinations, with real choices
- But providing the network is only part of what's needed
- Help people learn about, try, and maybe adopt a range of ways to meet their mobility needs



## GOAL 5: SAFE AND EQUITABLE MOBILITY

Charlotte will provide safe and equitable mobility options for all travelers regardless of age, income, ability, race, where they live, or how they choose to travel. An integrated system of transit, bikeways, sidewalks, shared-use paths, and streets will support a sustainable, connected, prosperous, and innovative network that connects all Charlotteans to each other, jobs, housing, amenities, goods, services, and the region.

## What is TDM and how can it help?

Transportation demand management (TDM) strategies include:



#### Services

- Car-Share parking
- Special event transit service
- On-site child care



#### Infrastructure

- Off-site active transportation improvements
- · Bicycle storage and showers



- Transit station/ stop investment
- Pedestrian and cyclist wayfinding



#### Parking Management

- Unbundled parking
- · Parking cash-
- Preferential parking for carpooling
- Parking fees/ paid parking

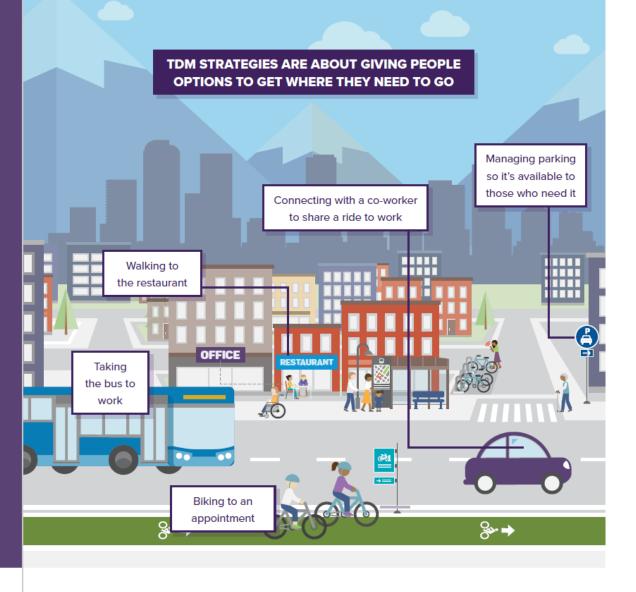


#### Multimodal **Subsidies**

- Visitor discounts to avoid peak period trips
- Subsidize transit passes
- · Car-share or bike-share membership discounts

#### Education

- New resident/ employee welcome kits
- Information kiosks, transit screens, or websites
- Trip planning assistance
- TDM program branding and messaging



#### TDM STRATEGIES BENEFIT BY HELPING:



Provide easy and affordable travel options they want

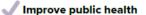
#### Reduce congestion and traffic gridlock

Spend less time sitting in traffic and get where you need to go on time



#### Promote sustainability

Lower greenhouse gas emissions with fewer vehicle trips



Get more people walking. biking, and breathing clean air

#### Enhance equity

Reduce transportation costs and increase access to local destinations to support a thriving economy

#### Decrease development costs

Lower the cost of construction with unbundled parking; pass the savings on to tenants

## What is TDM and how can it help?





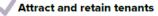




# TDM STRATEGIES ARE ABOUT GIVING PEOPLE **OPTIONS TO GET WHERE THEY NEED TO GO**



#### TDM STRATEGIES BENEFIT BY HELPING:



Provide easy and affordable travel options they want

#### Reduce congestion and traffic gridlock

Spend less time sitting in traffic and get where you need to go on time

#### Promote sustainability

Lower greenhouse gas emissions with fewer vehicle trips

#### ✓ Improve public health

Get more people walking, biking, and breathing clean air

#### Enhance equity

Reduce transportation costs and increase access to local destinations to support a thriving economy

#### Decrease development costs

Lower the cost of construction with unbundled parking; pass the savings on to tenants

### TO HELP EXPLAIN, LET'S INTRODUCE FIVE CHARACTERS



Renter Renee



Homeowner Harriet



Shopkeeper Shauna



Developer Danielle



Planner Pamela

# A BALANCED APPROACH WOULD HELP



Renter

Renee























Give new flexibility to small business owners who want to use their off-street parking for other uses











3 Support economic growth











Reduce our emissions and make walking, biking, and transit more appealing











### **HOW TDM WORKS**



Planner Pamela provides a menu of tools designed to make it easier to walk, bike, and take transit







Developer Danielle chooses tools from the menu for her new development

Shopkeeper Shauna chooses tools for her new store



Renter Renee and Homeowne Harriet feel more empowered to walk, bike, and take transit



### **HOW TDM WORKS**



Planner Pamela provides a menu of tools designed to make it easier to walk, bike, and take transit



















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### **HOW TDM WORKS**



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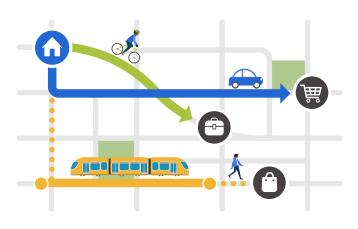


Developer Danielle chooses tools from the menu for her new development

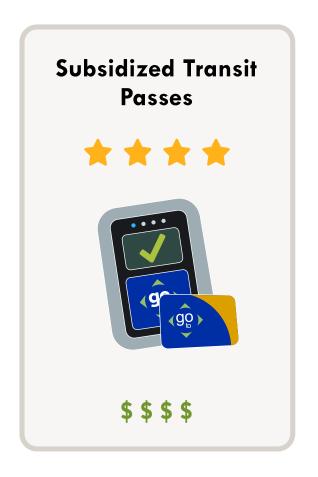
Shopkeeper Shauna chooses tools for her new store

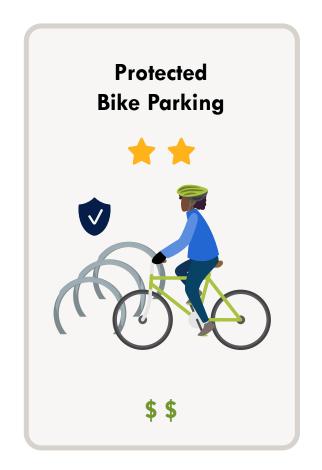


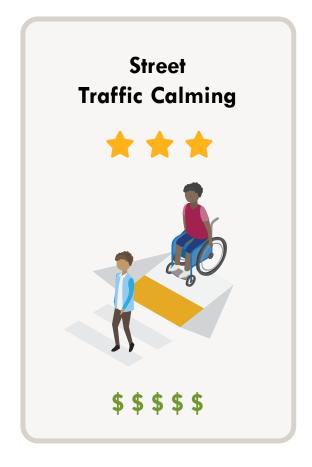
Renter Renee and Homeowner Harriet know about their choices and feel empowered to walk, bike, and take transit



### THE MENU WOULD INCLUDE TOOLS LIKE ...







# Even before the pandemic, our shopping and work patterns were changing

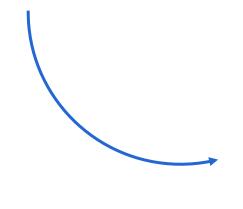
# For example, Homeowner Harriet was increasingly ...

Using ride hail











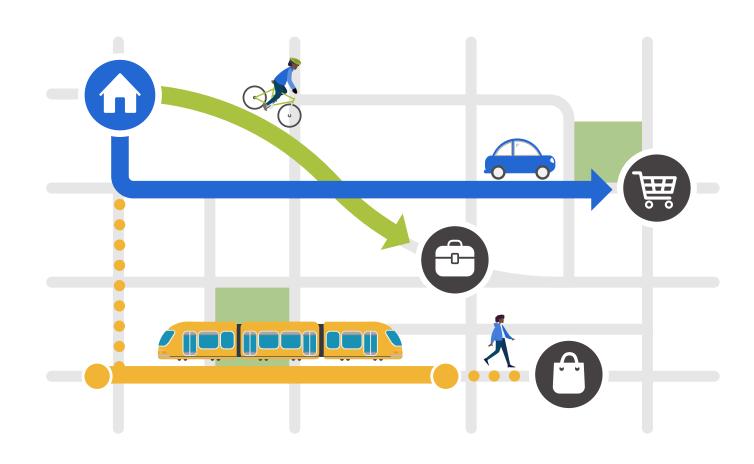
Working from home





Prioritizing experiences over things

# Even though she has a car, she uses it less often for shopping, visiting friends, and getting to the office





# Shopkeeper Shauna sees these trends ...

... and wants to attract people like Harriet with a better customer experience by converting part of her parking lot into a patio





# Not so fast: parking minimums!



## YOUR ROLE IN CHANGE

- The TDM approach and tools aren't just for new development
- TDM is a tool for universal mobility
- You can influence policy changes to work best for you ...
- ... while helping you contribute to the overall vision
- Charlotte's peers are:
  - Striving to meet broader, values-based goals
  - Using TDM aggressively
  - In conjunction with TIS changes
  - Typically implementing a menu-based TDM approach
  - Marketing the mobility benefits of their projects



Ease of travel leads to upward mobility. Yet, in transportation demand management (TDM)—an industry focused on making mobility options more diverse, efficient, and sustainable—programs disproportionately benefit high-income earners.

TDM has a much broader and more impactful role to play in our communities. It's time for equitable and inclusive TDM that expands participation and tailors programs—going beyond climate goals and vehicle trip requirements—to directly improve people's lives. Here are five ways to make that happen:

#### **1. Expand participation.**



Most TDM policies are focused on two populations: (1) employees who travel to work during peak commute hours and (2) residents who live in new, multifamily residential developments. Relying on market-rate housing developers and large employers to lead TDM implementation excludes low-wage and hourly workers who commute outside traditional peak hours. This disproportionately affects people of color.<sup>1</sup>

Mobility programs offered at market-rate residential developments and large employment sites should also be offered at public and affordable housing developments, and they should be made available to non-peak commuters. Diverse, efficient, and sustainable transportation options need to be within everyone's reach. This includes transit subsidies, rideshare discounts, and parking cash-out programs. In practice, city and regional policies should work to broaden participation.

#### Case Study: Casa Arabella

The City of Oakland has a reduction-based TDM policy that requires all new developments that generate more than 50 net-new a.m. or p.m. peak-hour vehicle trips to prepare and implement a TDM program. Unlike other cities' TDM programs, multifamily, affordable housing developers are required to participate.<sup>2</sup>

At Casa Arabella, a newly constructed affordable housing development in the Fruitvale neighborhood of Oakland, residents have access to the following mobility benefits:

- Mobility Wallet: Households receive \$150 per year in flexible transportation dollars, providing residents access
  to multiple transit agencies and micromobility services.
- Bicycle Library: Residents can borrow bicycles and gear through an on-site bicycle library. Non-recreational bike trips can shift household costs and improve health outcomes. These bicycle libraries also help residents avoid the significant financial investment of purchasing and maintaining a bike.
- Family Amenities: Residents can rent collapsible utility carts and strollers, helping families without access to a private vehicle meet their daily transportation needs.

#### Case Study: Large Employer

A large employer in Oregon is thinking differently about how it helps employees get to work sustainability:

- In 2018, the employer implemented a subsidized Lyft program designed to support people who work the night shift. The program provided a subsidized Lyft ride to or from work during hours not well served by transit.
- In 2021, the employer is exploring ways to support low-wage workers by implementing a wage-based daily
  parking program. The program would tailor the parking price based on income to support equitable access to
  transportation options.

Key Takeaway: Expand TDM policies to improve mobility and access for more people—for both commute and non-commute trips.

1. U.S. Bureau of Lebor Statistics (2019). Lebor Force Characteristics by Race and Ethnicity, 2018. Retrieved from <a href="https://www.bis.gov/apub/reports/race-and-ethnicity/2018/nome.htm">https://www.bis.gov/apub/reports/race-and-ethnicity/2018/nome.htm</a>
2. City of Oakland (2017). Transportation impact Review Guidelines. Retrieved from <a href="https://ace-94612.stamarcnaws.com/documents/eab/65381.odf">https://ace-94612.stamarcnaws.com/documents/eab/65381.odf</a>
and City of Oakland (2002). Standard Conditions of Approvious Pt. 59



# Thank You

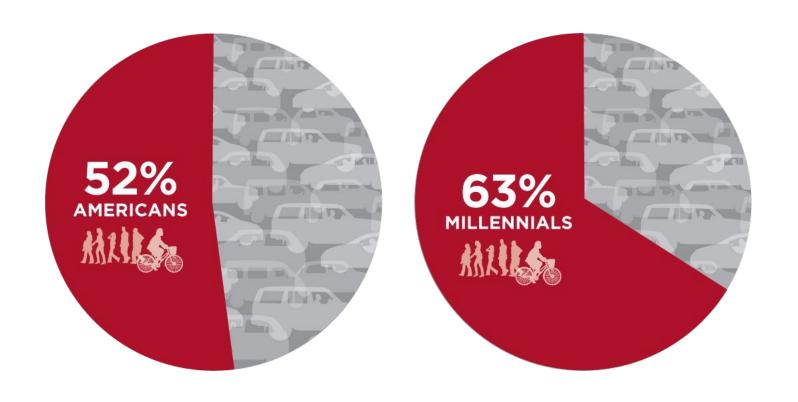
Chris Forinash cforinash@nelsonnygaard.com



Building a
Multimodal
Future



# Market Demand for Less Car Use



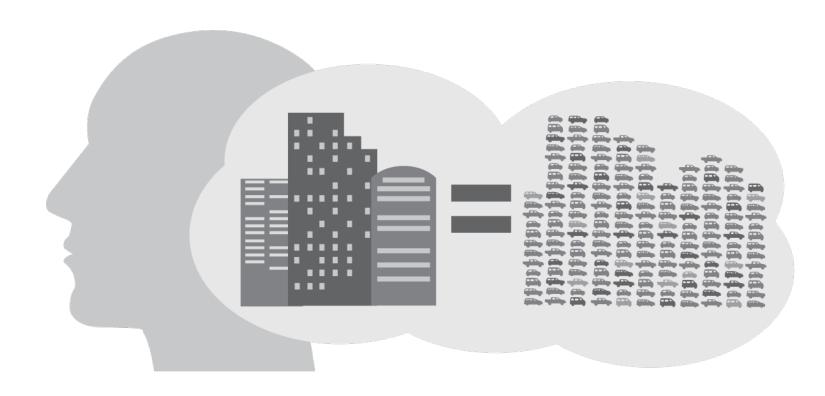


# Responding to Demand





# The Challenge





# The Solution







# Engaging Development in that Solution

Communities leverage permitting or rezoning process to require new developments to provide TDM



# Making TDM Worthwhile: Increase Revenue







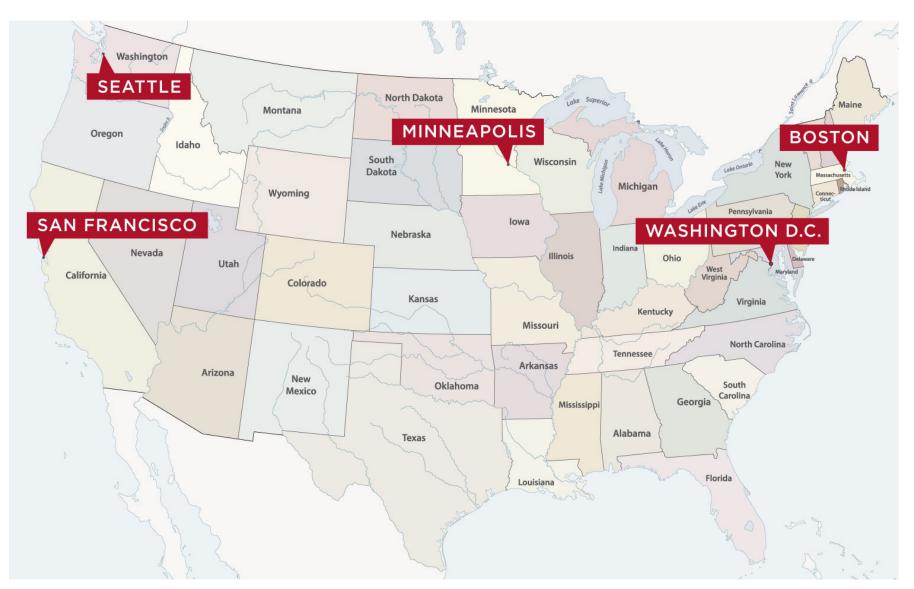


## Making TDM Worthwhile: Decrease Costs





## Where is this happening now?







Steps for Establishing a TDM Policy in Your Community

#### STEP 1:

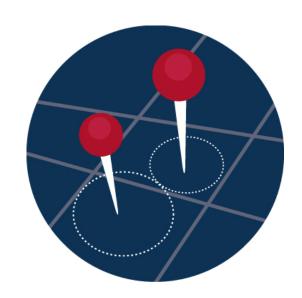
Understand How the TDM Policy Fits into the Planning Fabric of the Community





STEP 2:

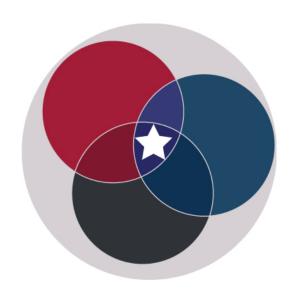
# Identify Where the TDM Policy Should Apply





#### STEP 3:

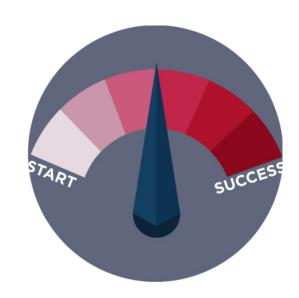
Determine the Types of Developments that Should Comply with the TDM Policy





STEP 4:

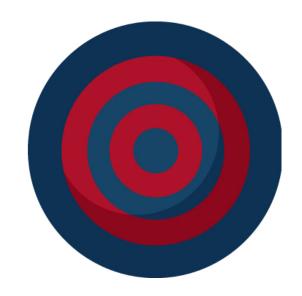
### Select an Appropriate Metric to Quantify Site-Based Success





#### STEP 5:

## Set the Appropriate Goal to Quantify Site-Based Success





STEP 6:

## Establish How the TDM Policy Will Be Monitored





#### **STEP 7:**

## Determine Appropriate TDM Strategies for Properties Affected by the TDM Policy





#### STEP 8:

## Determine Whether a TDM Plan is Required





#### STEP 9:

## Decide on a Enforcement Mechanism to Ensure TDM Policy Compliance









#### JBG SMITH AT A GLANCE

**OPERATING PORTFOLIO** 

COMMERCIAL SF

MULTIFAMILY UNITS

11.1M 5,999

**UNDER-CONSTRUCTION** 

COMMERCIAL SF

**MULTIFAMILY UNITS** 

274K

161

**NEAR-TERM DEVELOPMENT** 

5.6M SF

FUTURE DEVELOPMENT PIPELINE

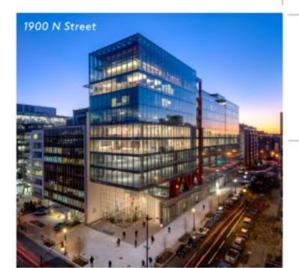
10.0M SF

WEIGHTED AVERAGE LEASE TERM

**6.1YEARS** 

TOTAL ENTERPRISE VALUE<sup>(1)</sup>

\$6.7B



WALK SCORE

83

NET DEBT/TOTAL ENTERPRISE VALUE<sup>(1)</sup>

32.0%

METRO-SERVED

97%

NET DEBT/ANNUALIZED ADJUSTED EBITDA<sup>(2)</sup>

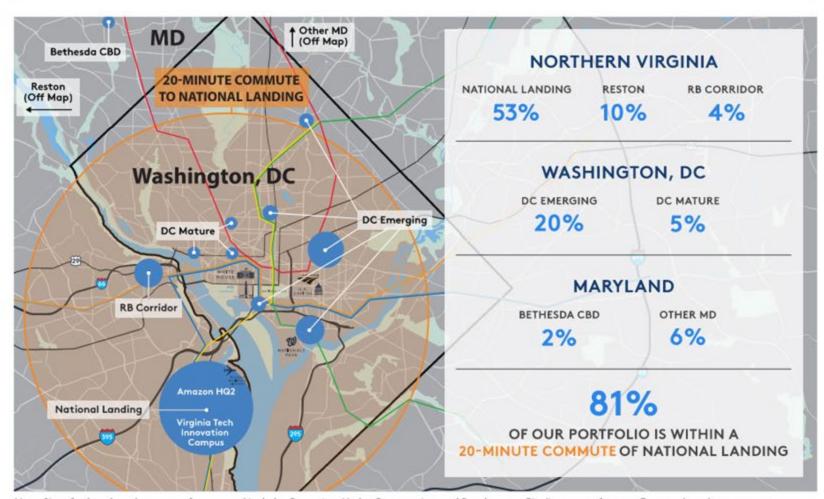
9.2x



<sup>(1)</sup> Total Enterprise Value is based on the closing price per share of \$31.27 as of December 31, 2020.

<sup>(2)</sup> Adjusting for estimates of the amounts management believes to be attributable to the COVID-19 pandemic, we believe our Net Debt/Annualized Adjusted EBITDA wo have been 6.5x. On a trailing 12-month basis, our Net Debt/Adjusted EBITDA was 8.4x.

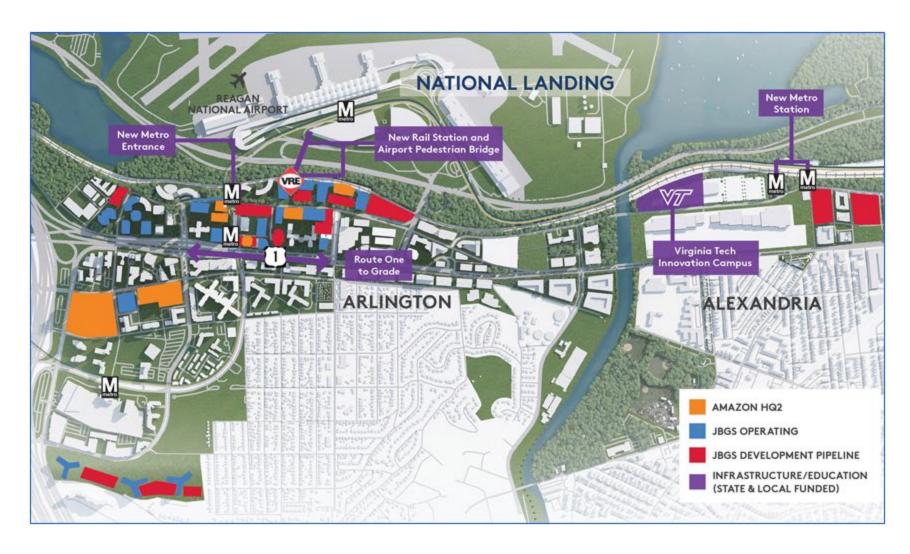
### JBGS' Portfolio



Note: Size of sphere based on square footage and includes Operating, Under-Construction, and Development Pipeline square footage. Target submarkets represent the primary focus of new JBGS investment: National Landing, DC Emerging, Reston Town Center, the Rosslyn-Ballston Corridor (RB Corridor), and Bethesda CBD.



## JBG SMITH in National Landing



- 6m SF of operating assets + 7.2m SF development pipeline
- Development partner on Amazon's HQ2 and VT's Innovation Campus



### TDM: County-led Approach



- \$.06/sf/year, or \$16k
- Transportation information displays in lobby
- Dedicated car/vanpool spaces
- Bike parking/facilities
- · Performance monitoring



### TDM: Developer-led Approach



- Between \$.2 and \$.3/sf/year
- Administered by the property owners via transportation management association
- Required to meet specific transportation goals re: mode share and passengers per vehicle.
- Specific activities determined by TMA, annual reporting required.



### Perspective

- Tangible activities/investments
- Involvement in decision making
- Goals>process
- Finding the right scale





