

# MULTIMODAL AND PUBLIC SPACE DESIGN GUIDELINES VIRGINIA DEPARTMENT OF RAIL AND PUBLIC TRANSPORTATION



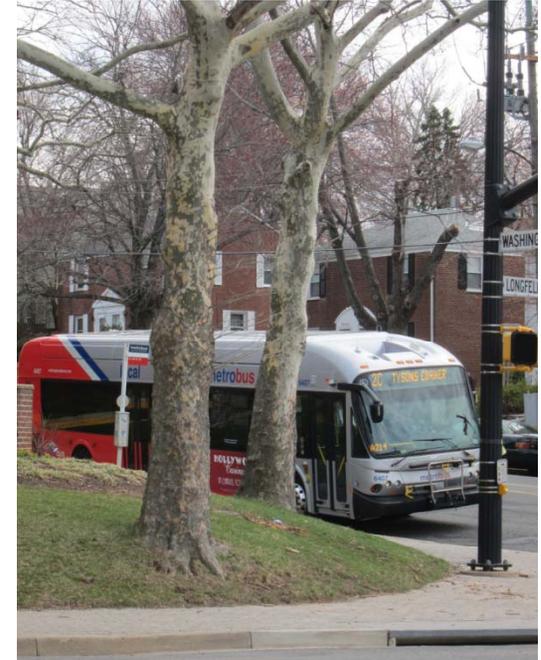
MARCH 25, 2011  
STEERING COMMITTEE

# AGENDA

- Introductions
- Project Overview & Goals
- Best Practices Review Key Findings
- Guidelines Content
- Issues and Opportunities
- Next Steps

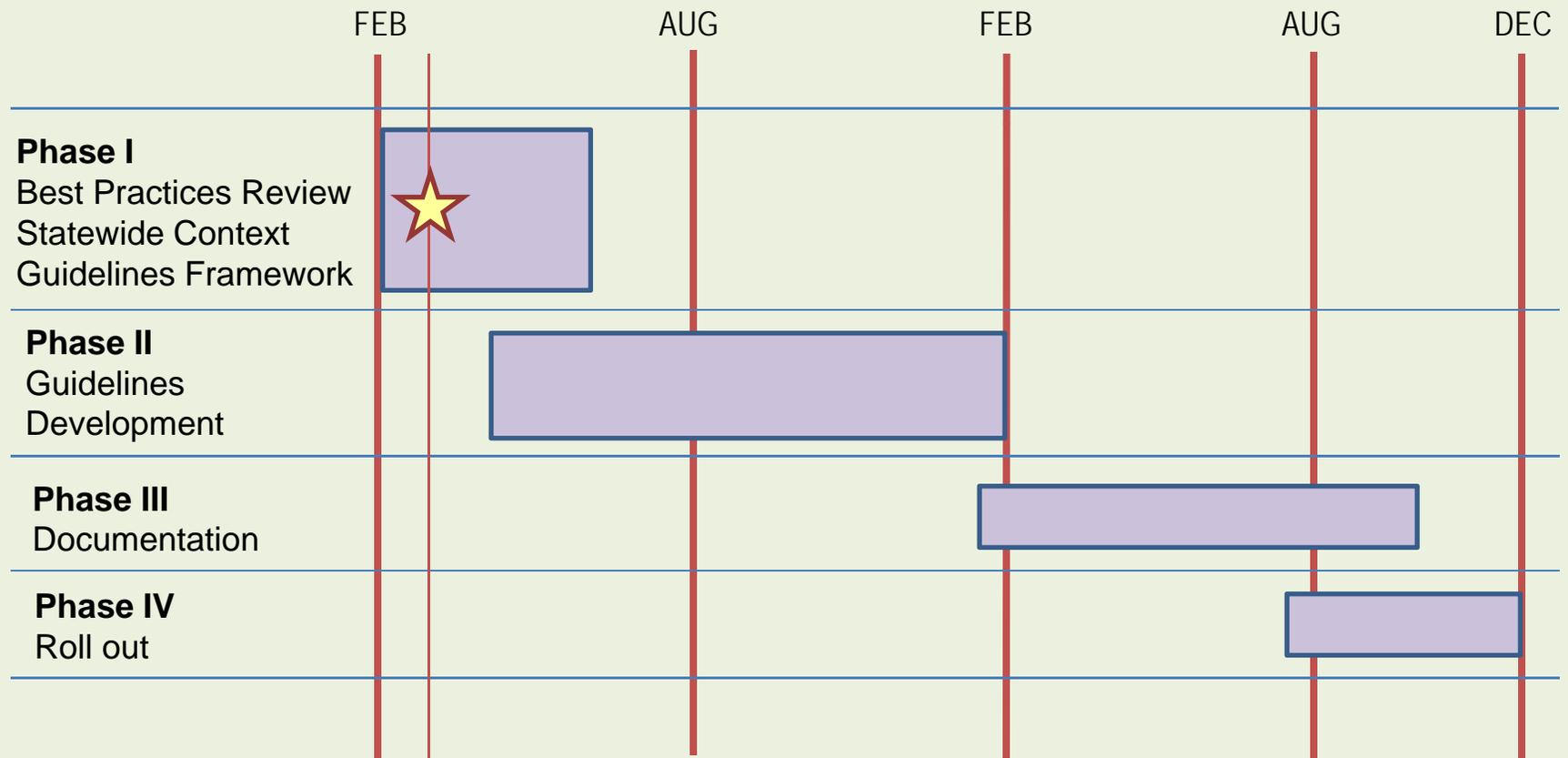
# PROJECT GOALS

- Create a statewide resource for planners, transit professionals, elected officials and the public
- Identify integrated land use, transportation and urban design approaches to support multimodal mobility
- Provide guidelines to help planners optimize transit investments and reduce reliance on SOVs



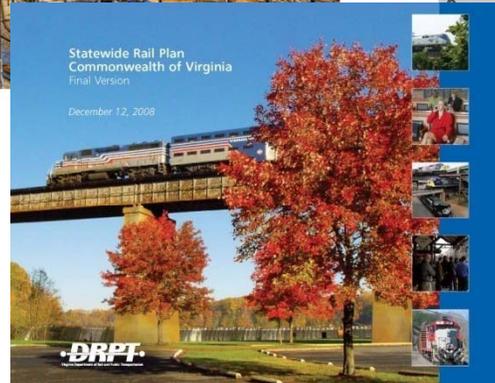
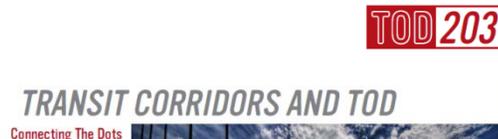
# PROJECT OVERVIEW

- Four major phases over 2 years



# BEST PRACTICES REVIEW

- National & Virginia scan
  - Plans, policies and guidelines
  - Multimodal & Transit Oriented Development
  - Livability and Complete Streets



**Street Design Guidelines**  
City of Roanoke, Virginia



<b>Agency/Organization</b>	<b>Policy/Plan</b>
Center for Transit Oriented Development	<i>Station Area Planning: How to Make Great Transit Oriented Places</i>
	<i>Mixed Income Housing Near Transit: Increasing Affordability with Location Efficiency</i>
	<i>Realizing the Potential for Sustainable and Equitable TOD: Recommendations to the Interagency Partnership on Sustainable Communities</i>
	<i>Performance-Based Transit Oriented Development Typology Guidebook</i>
Institute of Transportation Engineers and Congress for New Urbanism	<i>Designing Walkable Urban Thoroughfares: A Context Sensitive Approach</i>
Indianapolis MPO	<i>Multimodal Corridor and Public Space Design Guidelines</i>
Florida Department of Transportation	<i>A Framework for Transit Oriented Development in Florida</i>
Utah's Wasatch Front	<i>Transit Oriented Development Guidelines</i>
City of Charlotte, NC	<i>Urban Street Design Guidelines</i>
	<i>Centers, Corridors and Wedges Growth Framework</i>
City of Denver, CO Community Planning & Development	<i>Transit Oriented Development (TOD) Strategic Plan</i>
City of Denver, CO: Regional Transportation District (RTD) FasTracks	<i>FasTracks: Strategic Plan for Transit Oriented Development</i>
Sacramento Regional Transit	<i>Transit for Livable Communities</i>
Bay Area Rapid Transit (BART) - San Francisco, CA	<i>BART Station Access Guidelines (Apr 2003)</i>
	<i>BART Transit Oriented Development Guidelines (Jun 2003)</i>
Metro Portland, OR	<i>Transit Oriented Development Program</i>
New Jersey Department of Transportation and Pennsylvania Department of Transportation	<i>Smart Transportation Guidebook: Planning and Designing Highways and Streets that Support Sustainable and Livable Communities</i>
California Department of Transportation	<i>Smart Mobility: A Call to Action for the New Decade</i>

<b>Agency/Organization</b>	<b>Policy/Plan</b>
Virginia Department of Rail and Public Transportation	<i>Transit Service Design Guidelines</i>
	<i>Amtrak Station Area Planning and Land Use Analysis</i>
Washington Metropolitan Area Transit Authority	<i>Station and Site Access Planning Manual</i>
	<i>Joint Development Policies and Guidelines</i>
Fairfax County and Tysons Land Use Task Force	<i>Transforming Tysons: Vision and Area Wide Recommendations</i>
Hampton Roads Metropolitan Planning Organization	<i>Vision Plan Document: A Transit Vision Plan for Hampton Roads</i>
City of Norfolk	<i>Downtown Norfolk 2020 Plan</i>
	<i>Downtown Norfolk Pattern Book: Architectural Guidelines for Place Making</i>
Arlington County, Virginia	<i>Transit Corridor Growth Strategy</i>
	<i>General Land Use Plan</i>
	<i>Crystal City Sector Plan</i>
	<i>East Falls Church Area Plan</i>
	<i>Clarendon Sector Plan</i>
Arlington County Transportation Demand Research Center	<i>Master Transportation Plan</i>
	<i>Arlington County Commercial Building Research Summary Report</i>
Loudoun County	<i>2007 State of the Commute Study: Arlington Perspective. The Factors of Success in Reducing Drive Alone Commuting in Arlington</i>
	<i>TOD Planning and Zoning Districts</i>
City of Roanoke, VA	<i>Route 28 Corridor Plan</i>
	<i>Street Design Guidelines</i>
Virginia Department of Transportation	<i>Policy for Integrating Bicycle and Pedestrian Accommodations</i>
	<i>State Bicycle Policy Plan</i>
	<i>Context Sensitive Solutions Policy</i>
	<i>Secondary Street Acceptance Requirements</i>
	<i>Chapter 527 Traffic Impact Analysis Regulations</i>
Virginia General Assembly	<i>Access Management Regulations and Standards</i>
	<i>Urban Development Areas (Code of Virginia Section 15.2-2223.1)</i>
Virginia Office of Intermodal Planning and Investment	<i>VTrans2035 and the Virginia Surface Transportation Plan</i>

# KEY FINDINGS

## National

- Most cities and metropolitan areas define TOD place types by levels of densities, land use composition, and transit type
- Generally plans follow a standard structure of defining land use context and roadway classification
- California and Florida – only statewide approaches to TOD
- Several examples of multimodal corridor design and complete streets independent of TOD
- Very little guidance on planning for evolution of places/corridors over time
- Very few examples beyond Indianapolis and Florida of multimodal 'district' approach

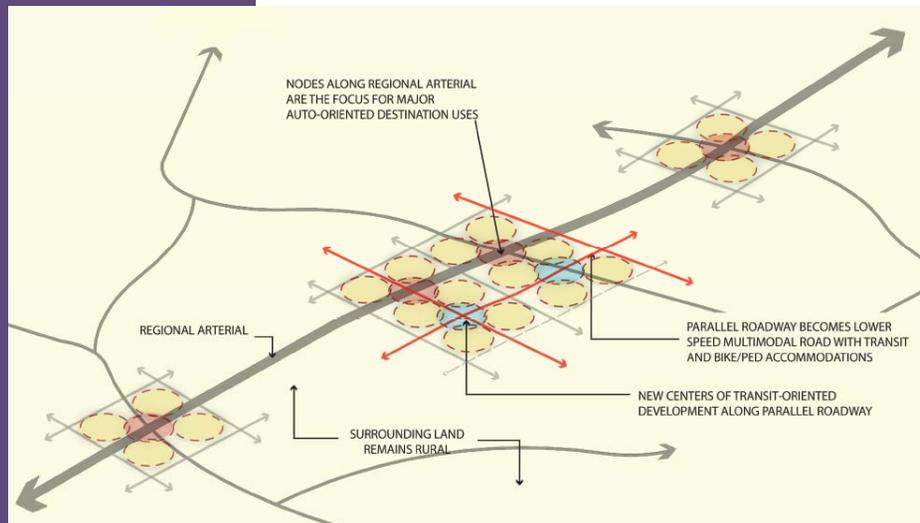
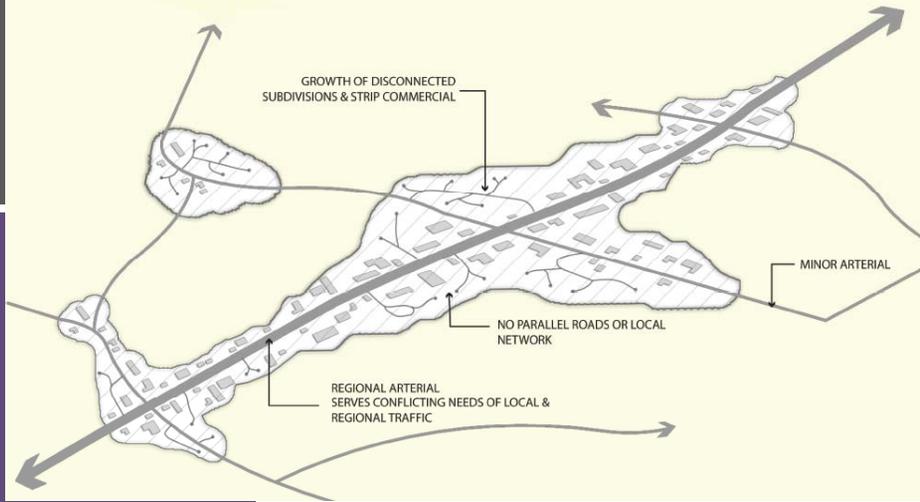
# KEY FINDINGS

## Virginia

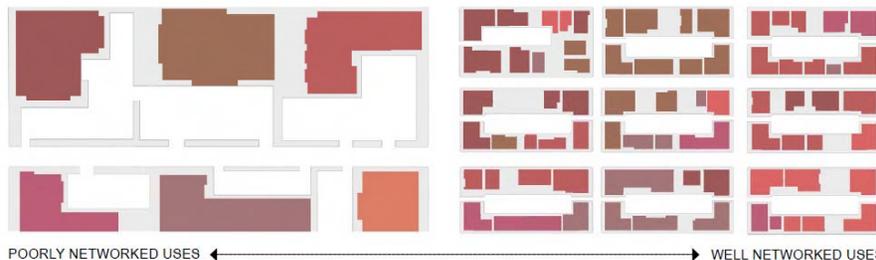
- VTrans2035 and the 2035 Virginia Surface Transportation Plan provide statewide policy framework that integrates all modes
- DRPT's Transit Service Design Guidelines define general development levels supportive of transit, and options for all community types
- VDOT's policies address context sensitive design and integrating bicycle and pedestrian accommodations
- WMATA's Station Site Access Planning Manual detail design guidelines at station area scale
- Urban Development Area (UDA) legislation considers more compact development
- DRPT's Amtrak Area Plans, Norfolk, Arlington, Tysons and Loudon model station area policy/planning
- Similar to national findings – no Virginia example tying together TOD with multimodal corridors and districts

# SYNTHESIS

- Best practices review confirms project approach:
  - Create new framework for Virginia that pulls together guidelines for TOD, multimodal corridors, networks and districts
  - Address corridor design, roadway network capacity, urban design and land use at the various scales
  - Address evolution and phasing of places, districts and corridors over time



## DIVERSITY AND CONNECTIVITY

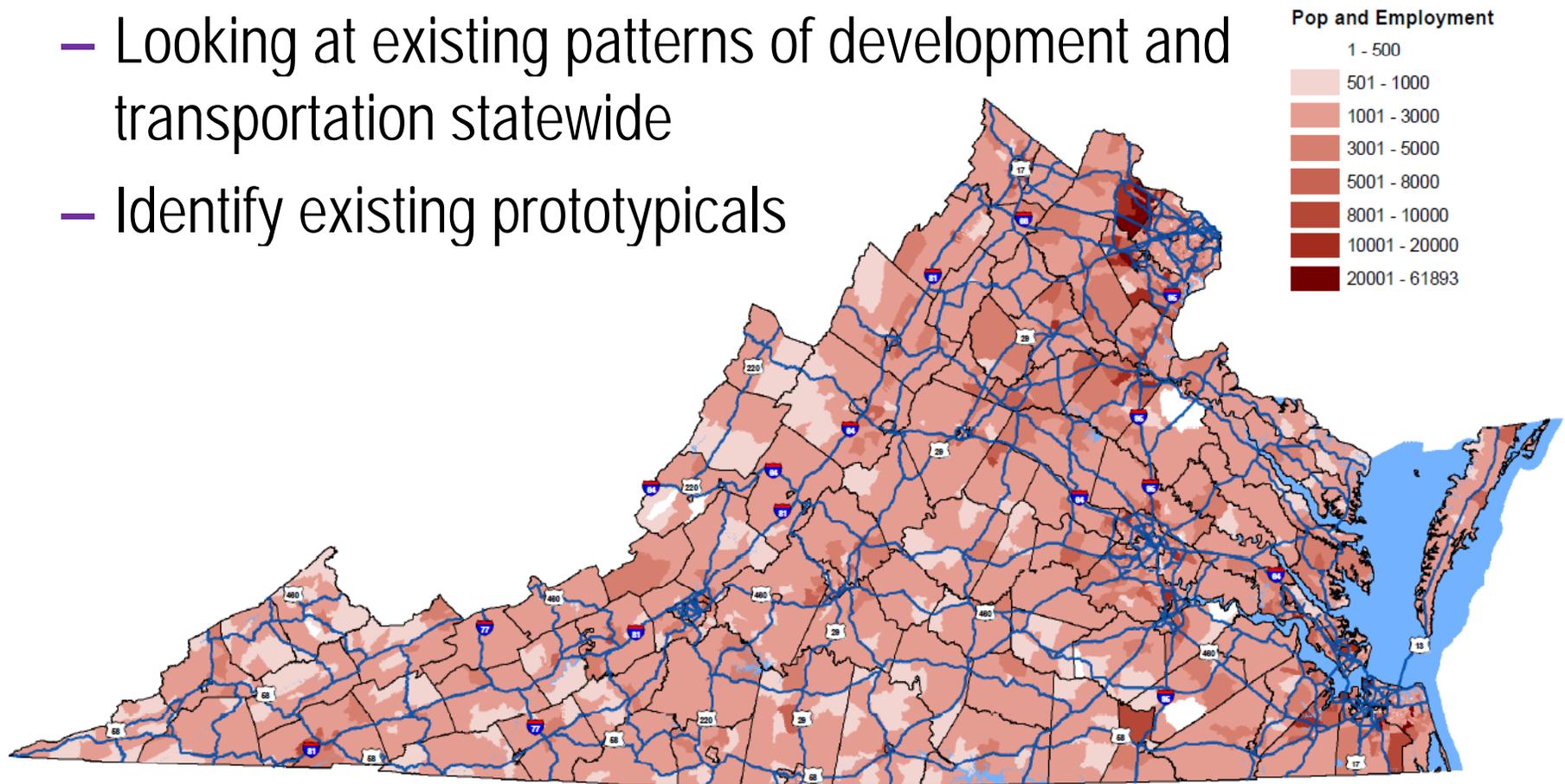


# GUIDELINES DEVELOPMENT

- Draft Chapters
  - Statewide Context – Existing Placetypes & Transportation Characteristics
  - Transportation Demand Management (TDM) Strategies
    - Integrated Transit and Land Use Planning
    - TDM calibrated to different placetypes and community scales
  - Multimodal districts, corridors, networks and transit oriented development (TOD)
    - Organized by different placetypes, transit types and corridor types
  - Funding and Implementation Best Practices

# STATEWIDE CONTEXT

- What are the Virginia placetypes?
  - Looking at existing patterns of development and transportation statewide
  - Identify existing prototypicals



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Miles

# STATEWIDE CONTEXT

- Examples of placetypes linked with transit
  - Richmond – bus rapid transit (BRT)
  - Northern Virginia – commuter and heavy rail
  - Norfolk/Hampton Roads – light rail and regional connections
  - Farmville – fixed route bus



# TDM STRATEGIES

- Look to best practices
- Align TDM strategies to different multimodal placetypes

ARLINGTON'S  
**car-free diet**

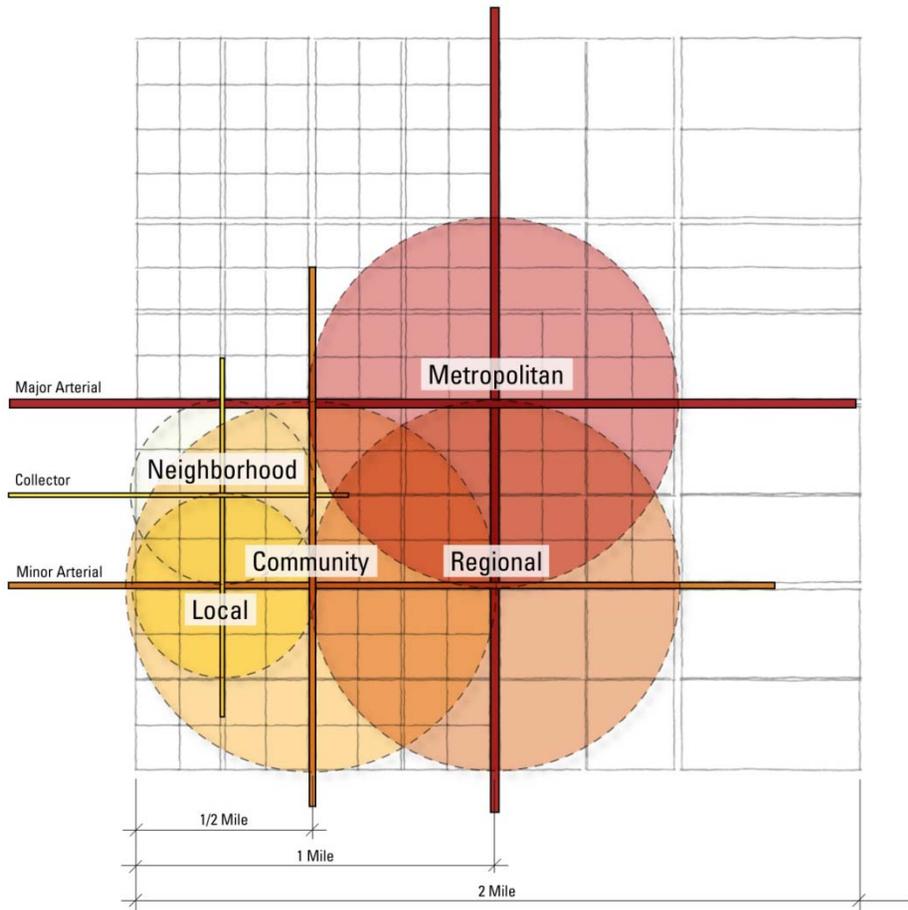
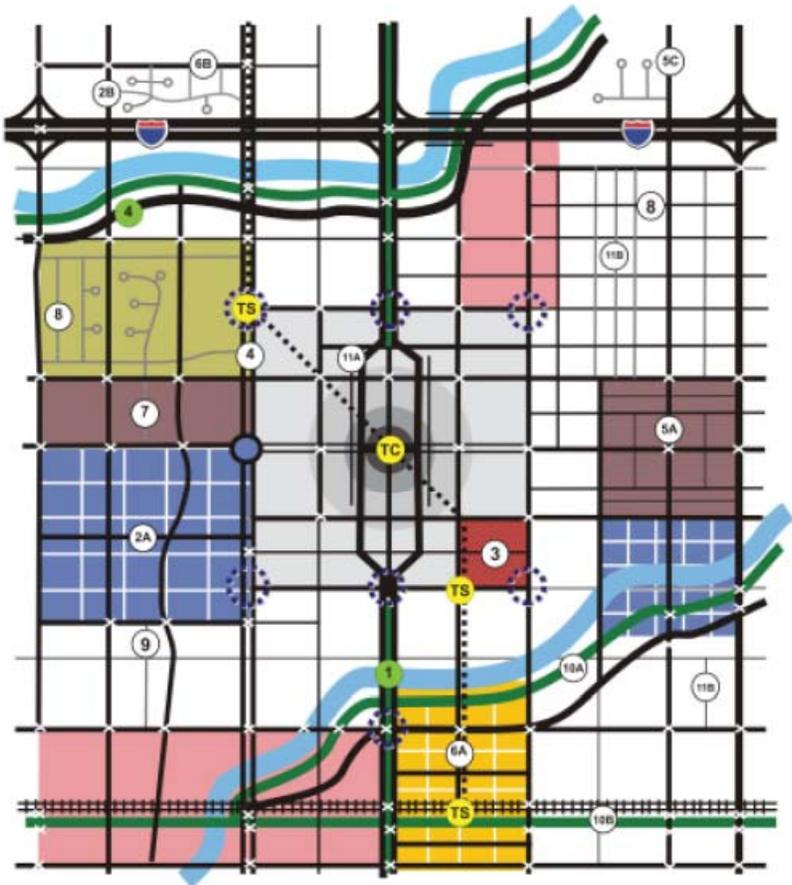
- 📊 The Calculator
- 👤 Car-Free Diet Skeptics
- 🚆 Transportation Options
- ❓ Transit How-To Guide
- 📍 Where to go Car Free
- 📅 The Seven-Day Diet Plan
- 📰 News / Events
- 🏢 Put Your Company on the Diet
- 💬 Share Your Story

What Your Neighbors Are Saying on the Car-Free Diet Blog  
Vote for your favorite skeptic  
The contestants have entered their videos for the Car-Free Diet... [READ MORE...](#)

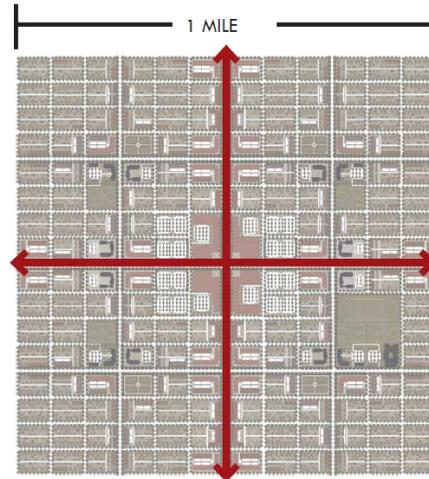
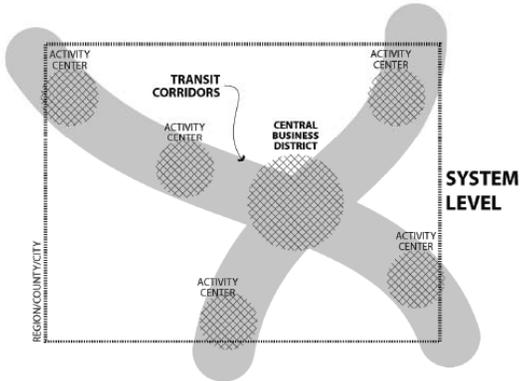
**vote** for your favorite  
**car-free diet**  
**SKEPTIC** now!

voting ends March 31

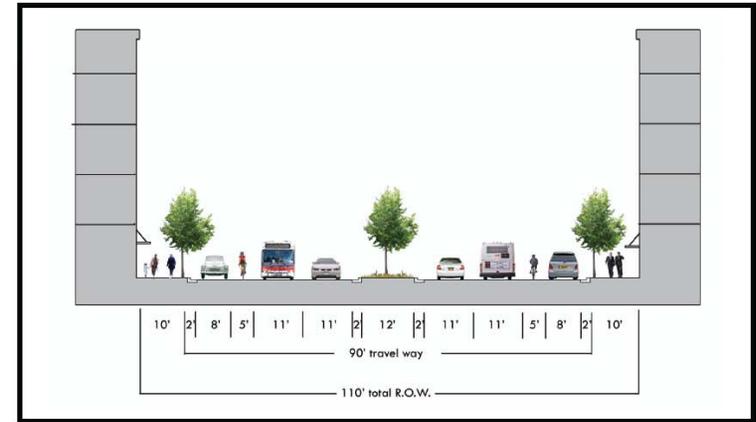
# MULTIMODAL DISTRICTS



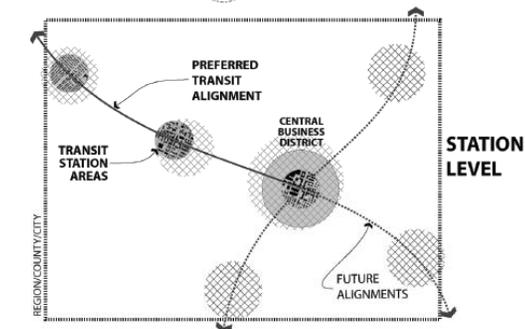
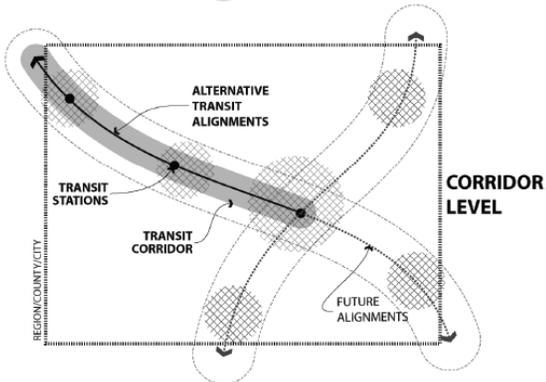
# MULTIMODAL CORRIDORS & NETWORKS



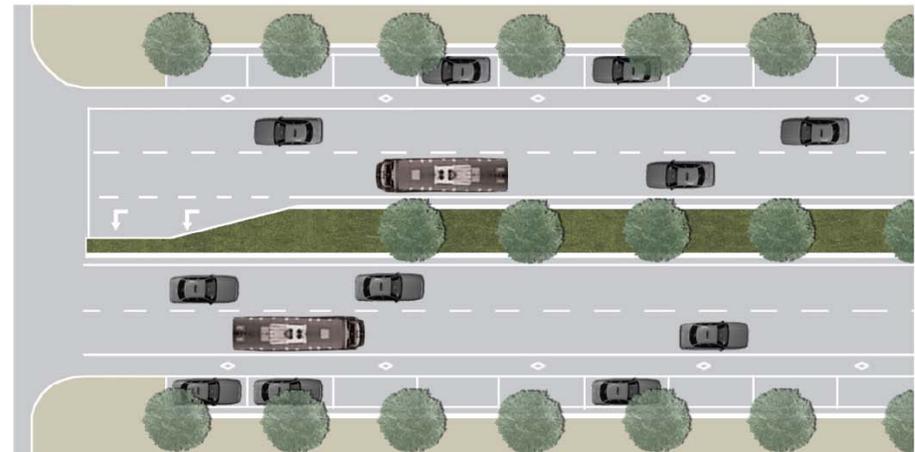
BOULEVARD LOCATIONS



SECTION NOT TO SCALE

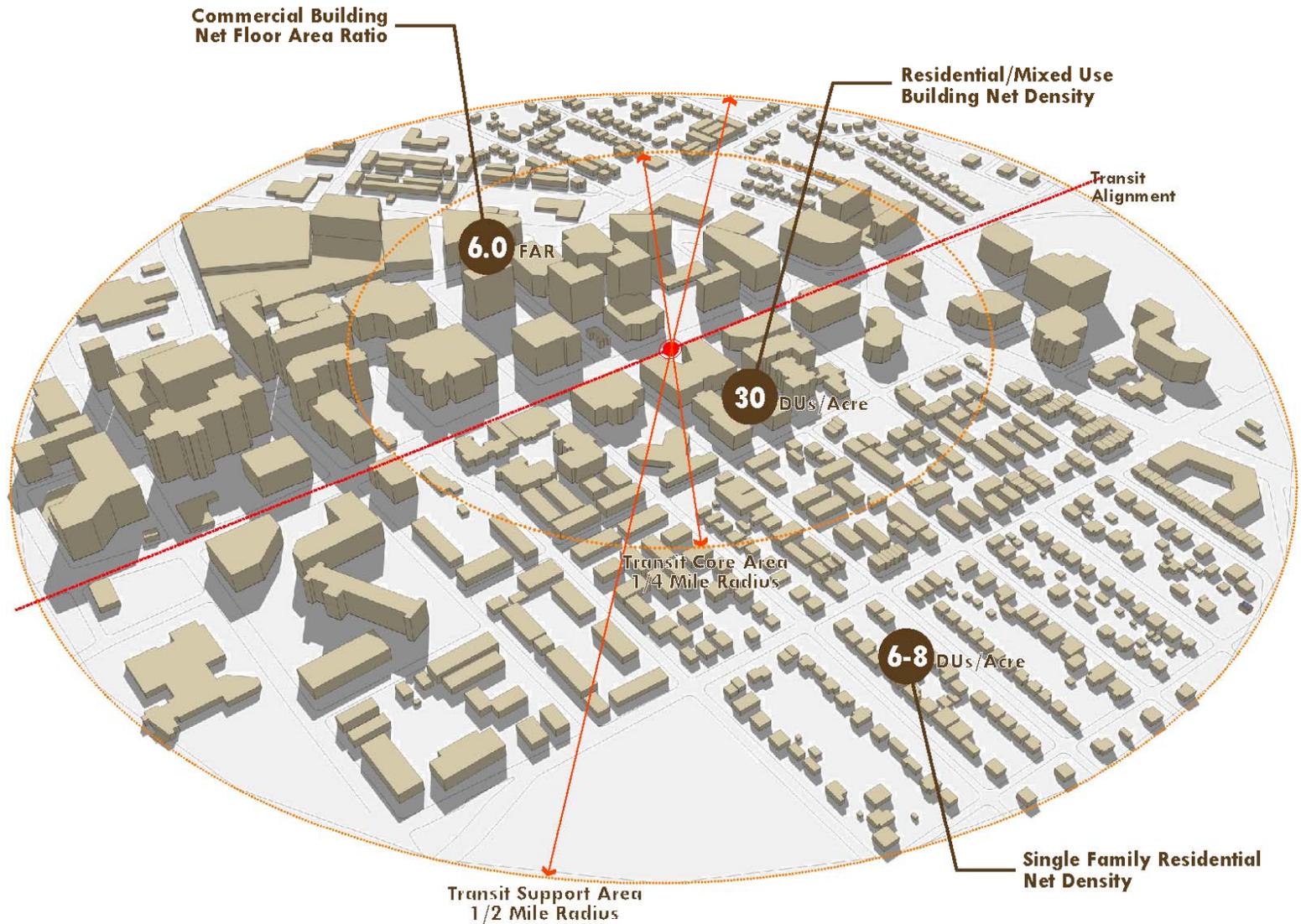


- \_\_\_\_\_ SIDEWALK
- \_\_\_\_\_ ON-STREET PARKING
- \_\_\_\_\_ BIKE LANE
- \_\_\_\_\_ TRAVEL LANES
- \_\_\_\_\_ MEDIAN/CENTER TURN LANE
- \_\_\_\_\_ TRAVEL LANES
- \_\_\_\_\_ BIKE LANE
- \_\_\_\_\_ ON-STREET PARKING
- \_\_\_\_\_ SIDEWALK



PLAN NOT TO SCALE

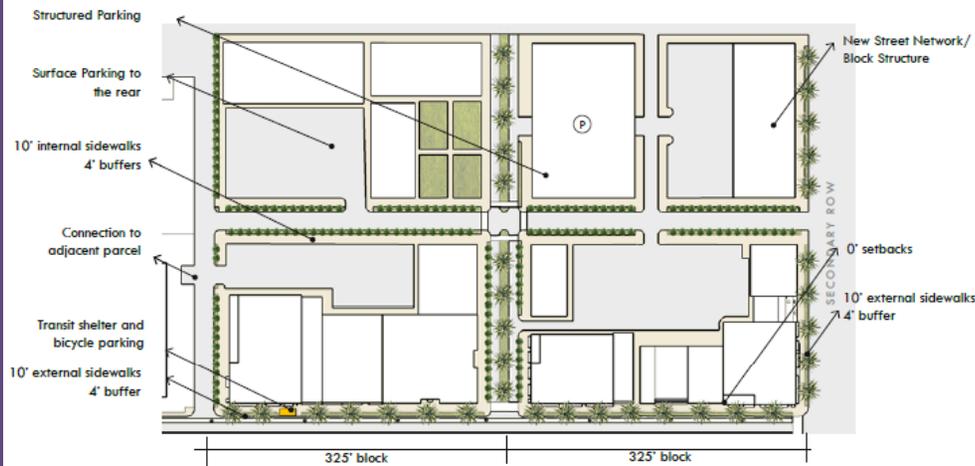
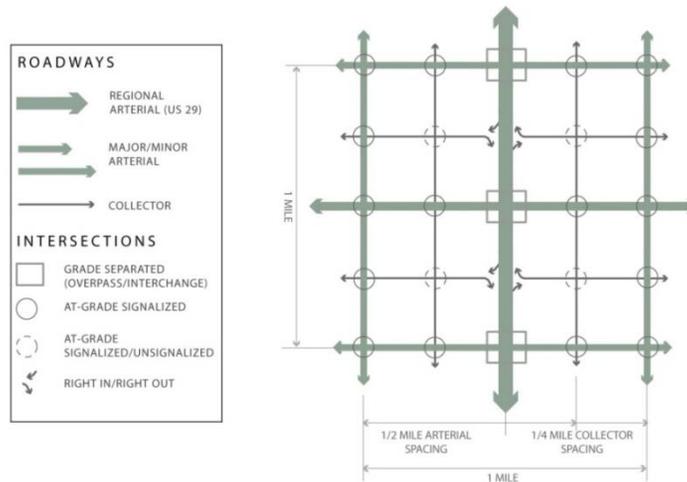
# STATION AREAS



# MEASURES AND VARIABLES

## TRANSPORTATION - EFFICIENT LAND USE IN URBAN DEVELOPMENT AREAS

### A. EFFICIENT TRANSPORTATION SYSTEM



- Population & Employment Density
- Jobs to Housing Ratio
- Total Floor Area Ratio (FAR)
- Mixture of Uses
- Lot Coverage
- Block Size
- Building Heights
- Bike Lanes and Sidewalks
- Parking
- Street Frontage and Public Realm
- Multi-Modal Connectivity
- Corridor Design and Speeds
- Areawide VMT/VMC
- Network Density
- Transit Ridership Thresholds
- Accessibility
- Block Size

# GUIDELINES ROLL-OUT

- Statewide workshops & presentations
- Guidelines in website and hard copy formats
- 3-D Animations and illustrations



# ISSUES AND OPPORTUNITIES

- What are the issues and opportunities for creating more multimodal places in Virginia?
- What elements of the guidelines will be most useful for you?
- Are there any additional elements or additional best practices to consider?

# NEXT STEPS

- Document Best Practices Research
- Statewide Analysis - Synthesis
- Annotated Outline/TOC
  - Sample illustrative, measures, etc.
- Stakeholder/focus group engagement
- May Steering Committee

# QUESTIONS

## Points of Contact:

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