

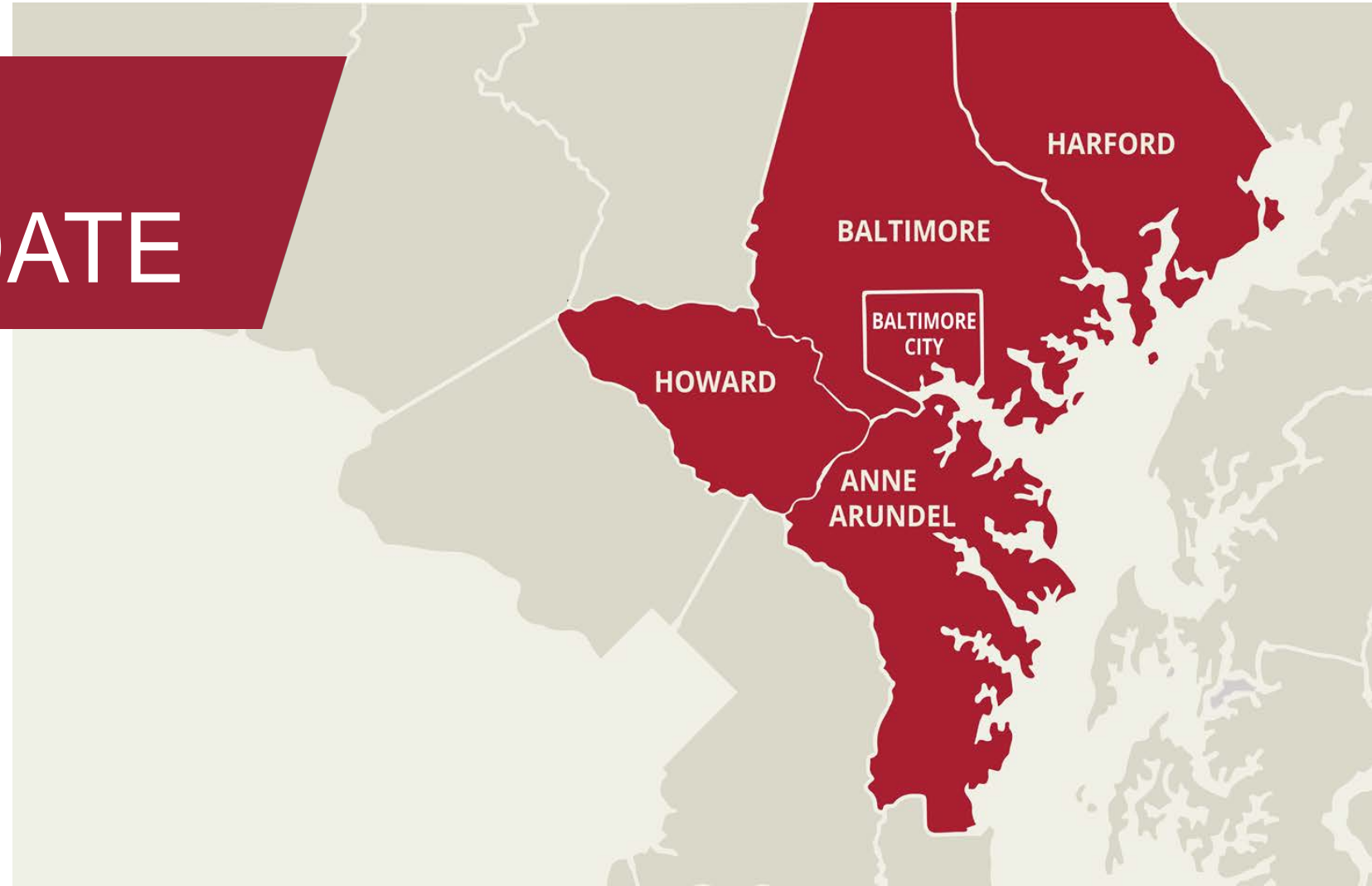


Connecting Our Future

A Regional Transit Plan for Central Maryland

PROJECT UPDATE

Transit Choices Meeting
Impact Hub Baltimore
September 26, 2019





PRESENTATION OUTLINE

- RTP Background & Approach
- RTP Goals
- Transit in the Region Today
- Identifying Transit Needs & Corridors of Opportunity
- Public Outreach Approach
- Looking Ahead



RTP BACKGROUND & APPROACH

Purpose & Approach

MDOT MTA is developing this 25-year plan to meet the transit needs of the Core Service Area, guided by Maryland Chapter 352 (2018).

PURPOSE

- Develop a new Regional Transit Plan (RTP) for Central Maryland that will define public transportation goals over the next 25 years

VISION

- Address traditional transit (buses and trains) as well as explore new mobility options and technology

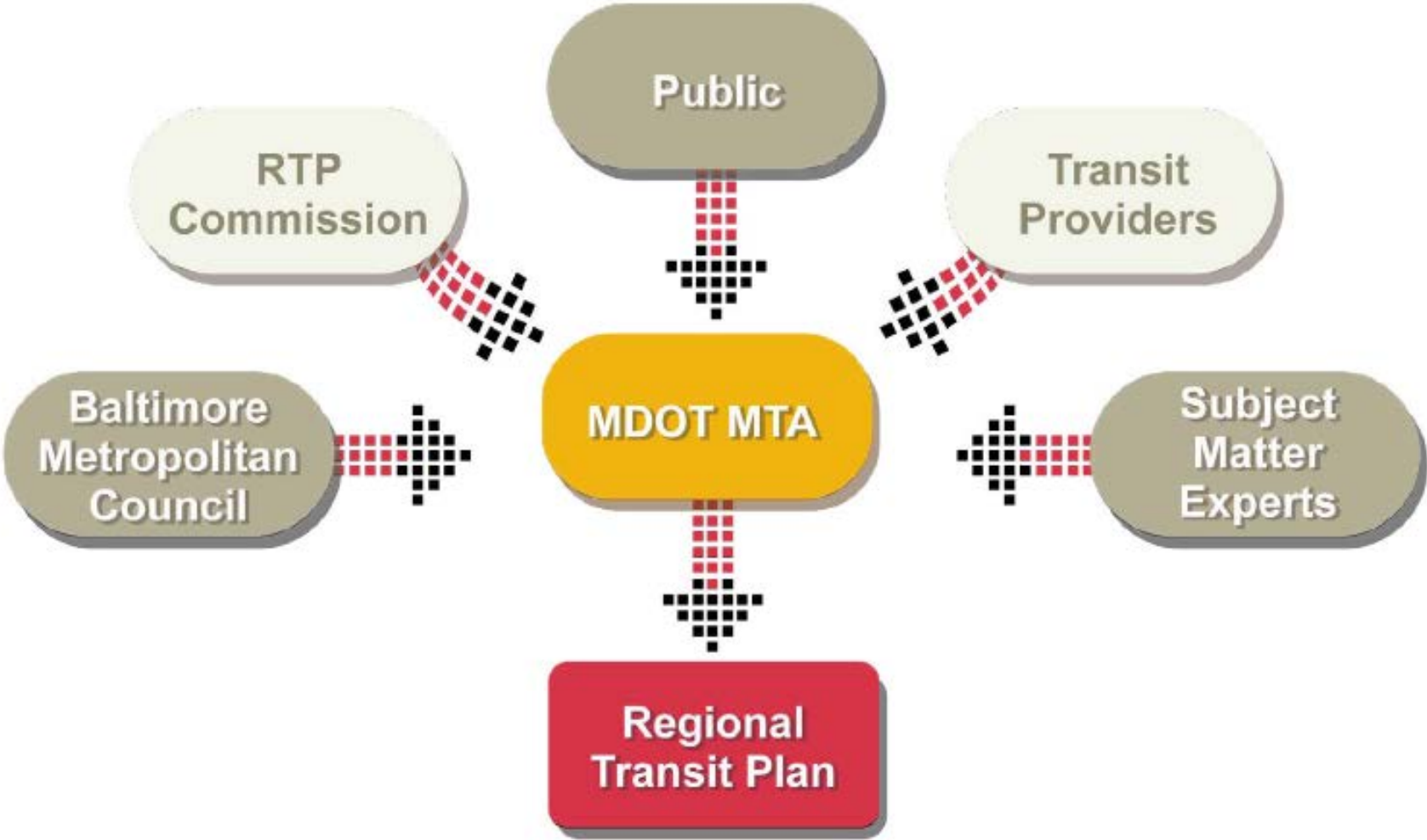


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A Regional Transit Plan for Central Maryland



Project Partners

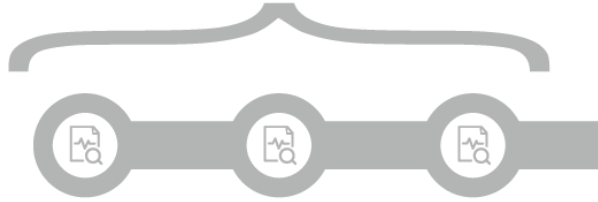


Project Schedule



ANALYZE

Review the current system; identify opportunities for improvement.



March 2019
Transit 101

April 2019
Overview of Trends and Benchmarks; Draft Goals

June 2019
Review State of Good Repair, Funding, and New Mobility



PROPOSE

Review system performance and propose improvements.



September 2019
Address Service Gaps and Corridors of Need

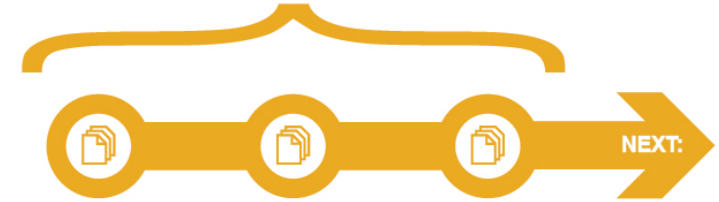
October 2019
Understand the Rider Perspective

December 2019
Review Goals and Prioritize Strategies



PUBLISH

Present findings and recommendations.



April 2020
Review Draft Plan

June 2020
Update Draft Plan Based on Feedback

September 2020
Review and Publish Final Plan

IMPLEMENT

- Current Task
- Upcoming Task
- Completed Task



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NEXT
STOP 2045



RTP GOALS

Draft RTP Goals



Improve connectivity and integration of existing and future transit services



Optimize existing transit services



Enhance fiscal sustainability



Connecting Our Future

A Regional Transit Plan for Central Maryland



Improve connectivity and integration of existing and future transit services

Connecting Our Future should...

- a. Reduce or eliminate gaps in current transit services
- b. Prioritize connection to economic opportunities and services
- c. Prioritize existing and emerging transit-supportive corridors and nodes for new or enhanced services
- d. Increase regional collaboration





Optimize existing transit services

Connecting Our Future should...

- a. Advance equitable access to jobs, schools, and services
- b. Promote travel choice, affordability, reduce delay, and reduce emissions
- c. Improve service quality, customer experience, and safety on existing services
- d. Ensure the region meaningfully integrates new transit innovations and technology





Enhance fiscal sustainability

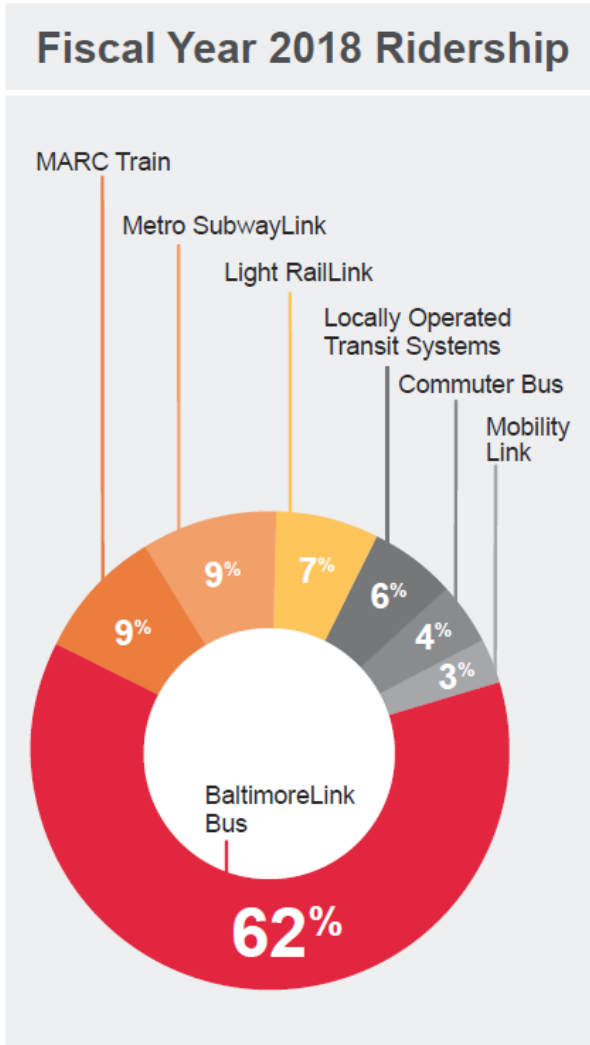
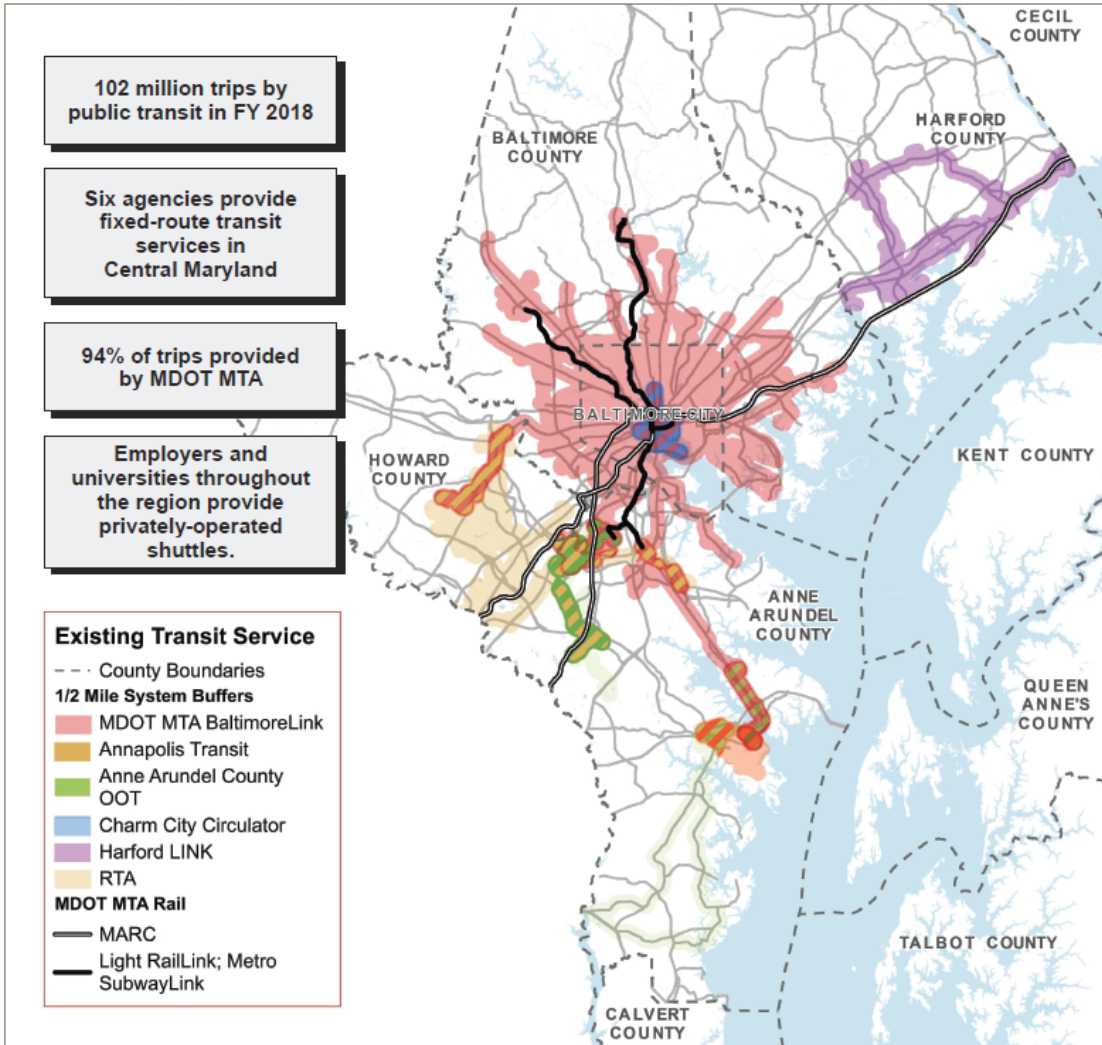
Connecting Our Future should...

- a. Identify transit needs
- b. Identify funding and financing opportunities and innovations to deliver this Plan
- c. Improve cost efficiency of transit services
- d. Maintain assets at defined condition targets



TRANSIT IN THE REGION TODAY

Public Transit Ridership in Central Maryland



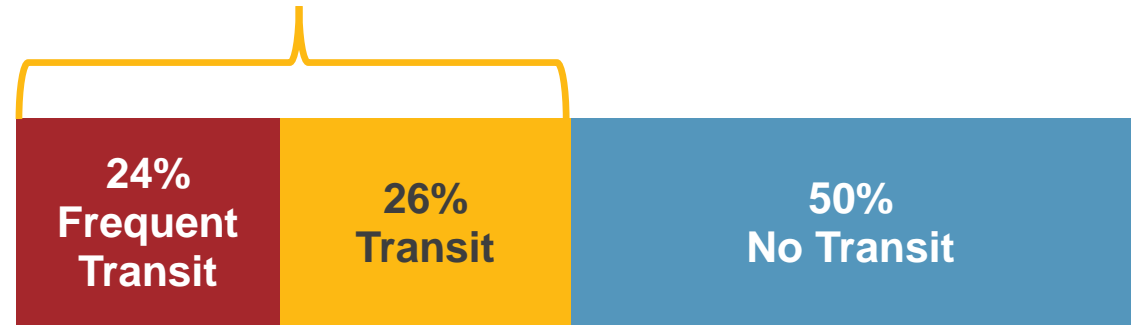
Access to Transit



40% of the region's residents (1.02 million) have access to a bus stop within ¼ mile walk of their home or a rail station within ½ mile walk



50% of the region's jobs (616,000) are accessible by bus within ¼ mile walk or by rail within ½ mile walk



Notes: Frequent Transit is defined as every 15 minutes or better weekdays 7AM–7PM. Access is measured as ½ mile from rail stations and ¼ mile from bus stops.



IDENTIFYING TRANSIT NEEDS & CORRIDORS OF OPPORTUNITY

The Central Maryland Region is Growing

- Our region is forecast to grow by nearly **300,000 people** and **440,000 jobs** by 2045
- The decisions we make today about **how** and **where** this growth occurs will impact **who** has access to transit and what type of service is appropriate

Identifying Transit Needs: Methodology

What analysis goes into transit planning?

Market Analysis:

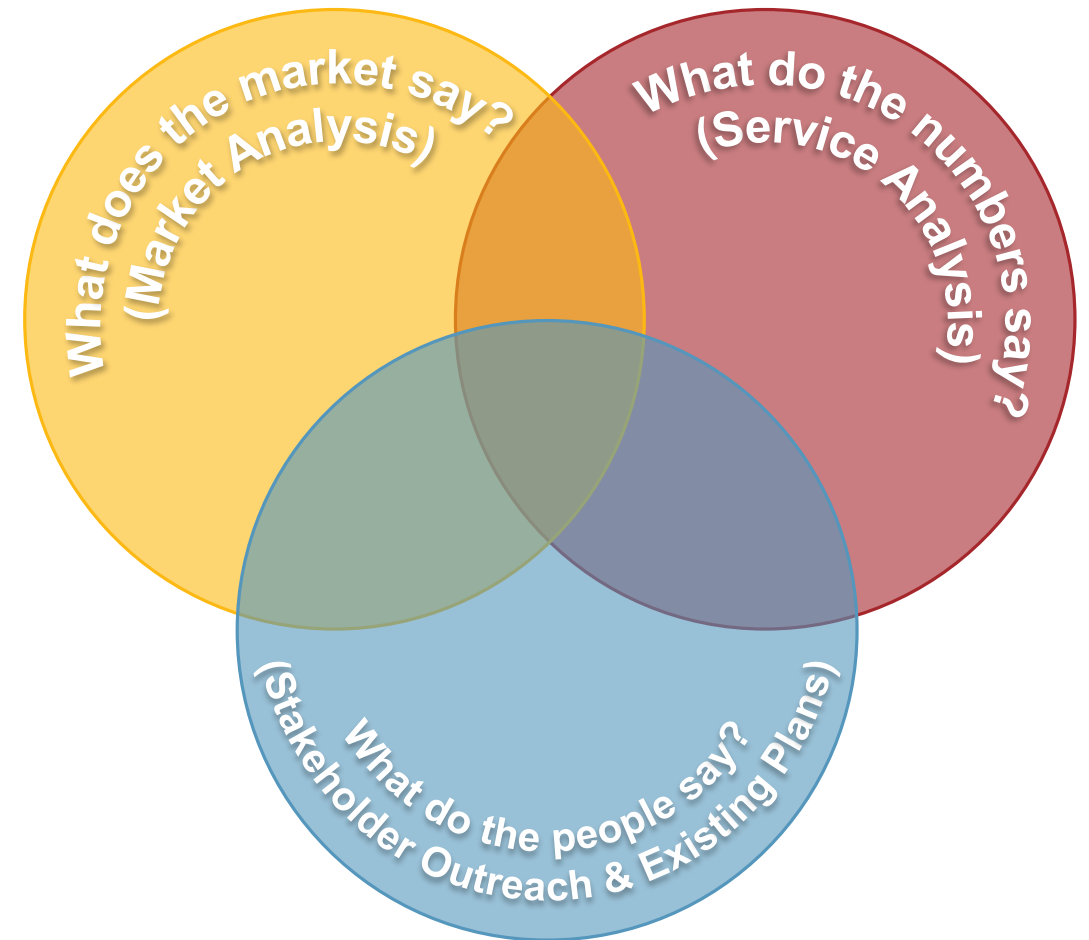
- Where is there demand for transit service?
- How much demand is there?
- What time of day is the demand?
- Where do people want to go?

Service & Travel Flow Analysis:

- Where and when do people have access to transit service?
- What quality of service is provided (span, frequency)?
- Where are the linkages?
- How does it perform (ridership, reliability)?
- What is the cost of service?

Stakeholder Outreach & Existing Plans

- Where do people want to go?
- What issues or gaps have the public and stakeholders identified?
- What service qualities are important?
- How and where should investment take place?
- Where have regional plans identified as priorities?



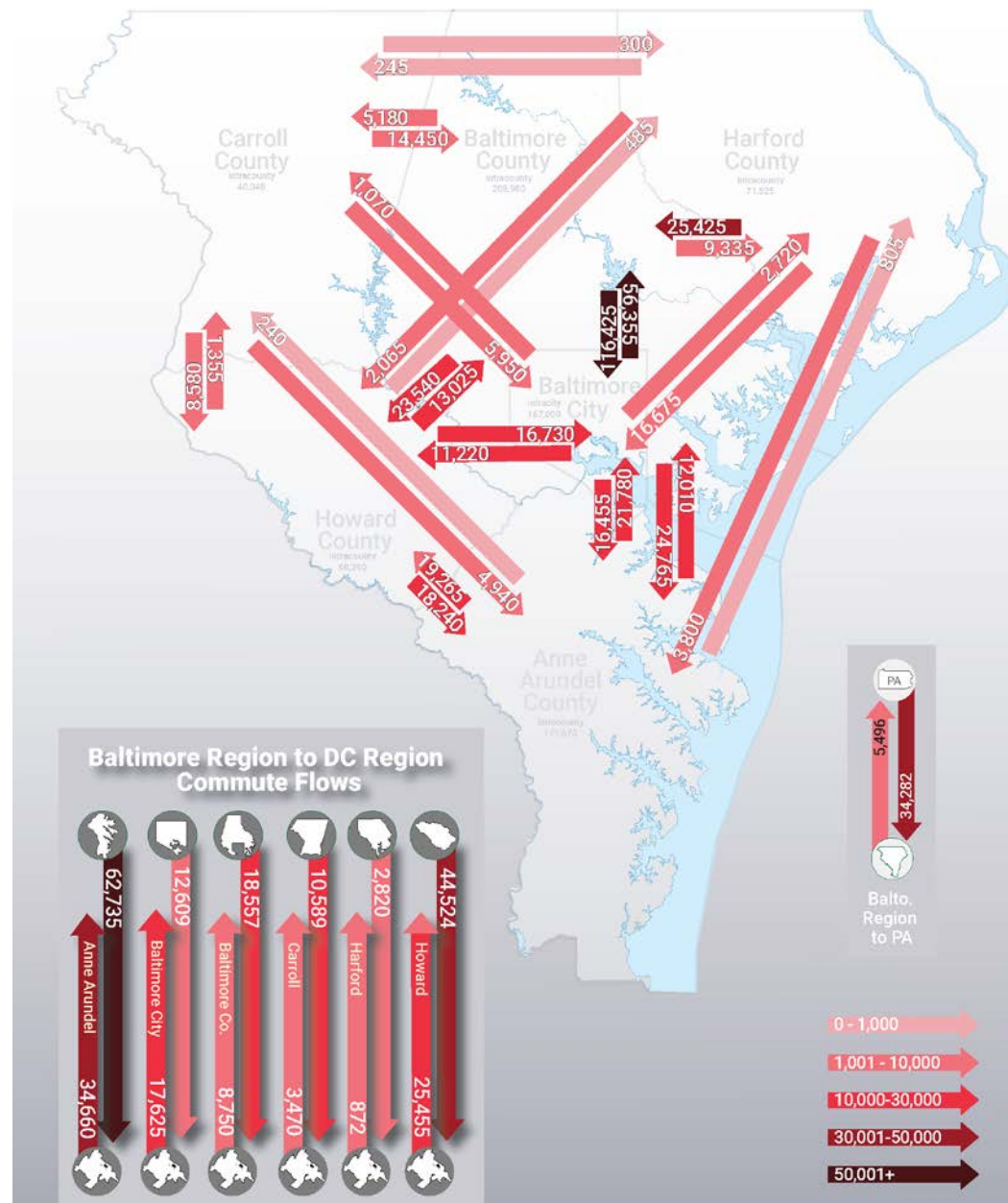
Regional Commute Travel Flows

Highest percent of commute trips are within each county's boundaries.

Percent of Commuter Trips from County to County

		From County					
		Howard	Carroll	Anne Arundel	Baltimore City	Baltimore County	Harford
To County	Howard	42%	10%	7%	4%	6%	2%
	Carroll	1%	47%	0%	0%	1%	0%
	Anne Arundel	11%	6%	60%	6%	6%	3%
	Baltimore City	10%	7%	8%	62%	29%	14%
	Baltimore County	8%	17%	4%	21%	51%	21%
	Harford	0%	0%	0%	1%	2%	58%
	DC Region	27%	12%	22%	5%	5%	2%

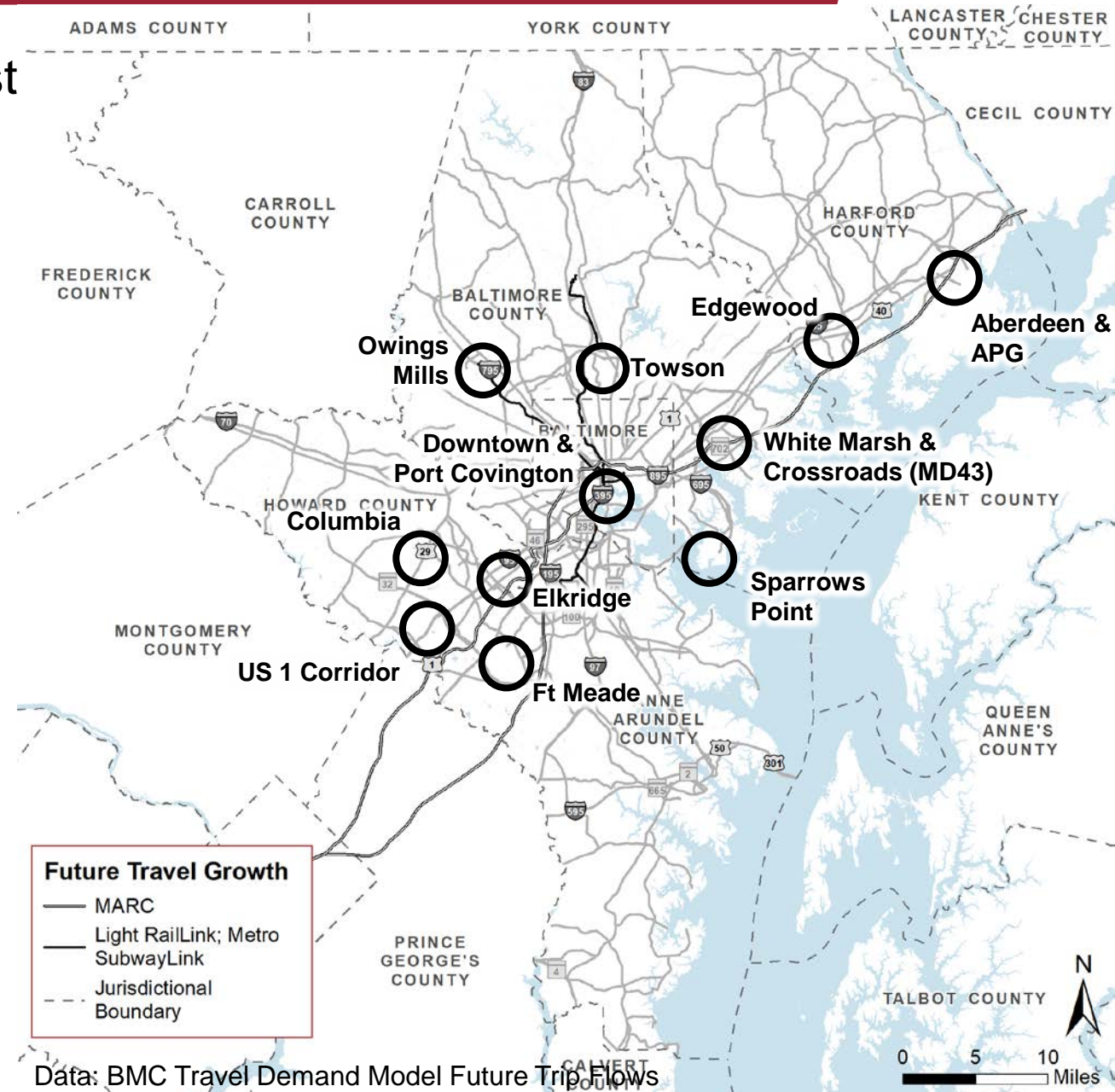
County-to-County Commuting Flows in the Baltimore Region



Service & Travel Flow Analysis | Projected Regional Commute Travel Trips

Projected job and population growth suggest commuter trips will increase in several areas:

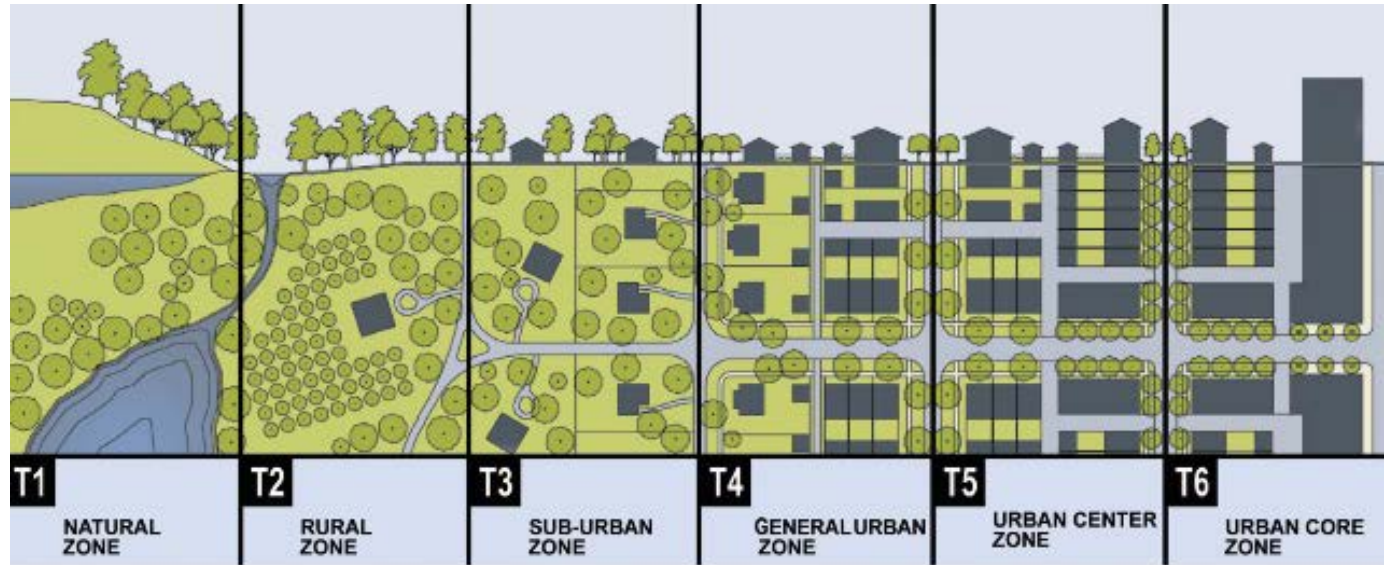
- Columbia
- US 1 Corridor
- Elkridge
- Downtown Baltimore/Port Covington
- White Marsh/Crossroads (MD43)
- Edgewood
- Aberdeen/APG
- Owings Mills
- Sparrows Point
- Fort Meade
- Towson



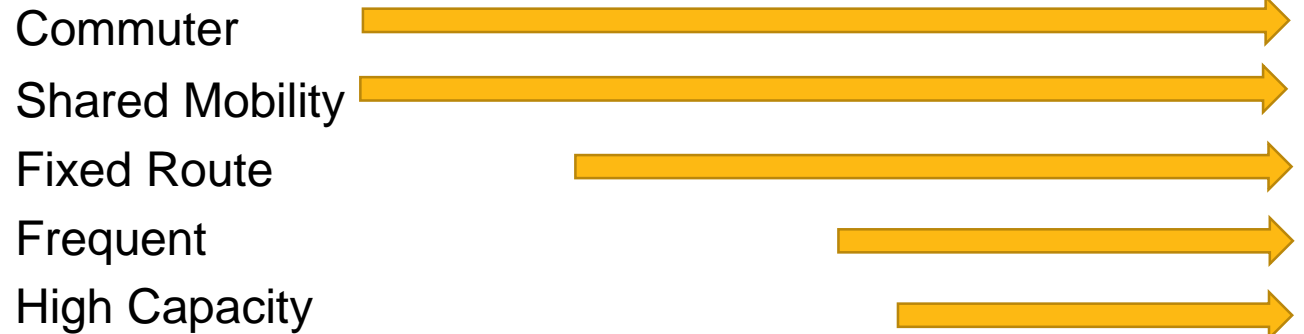
Service & Travel Flow Analysis | Transit-Supportive Densities

- The type and amount of land use directly impacts transit use
- As development increases and diversifies, more transit and more types of transit can be justified
- Many agencies produce guidelines that align transit to land use for planning purposes
- MDOT partners with local jurisdictions for TOD opportunities

Read more about Transit Supportive Densities:
reconnectingamerica.org/resource-center/transit-supportive-density

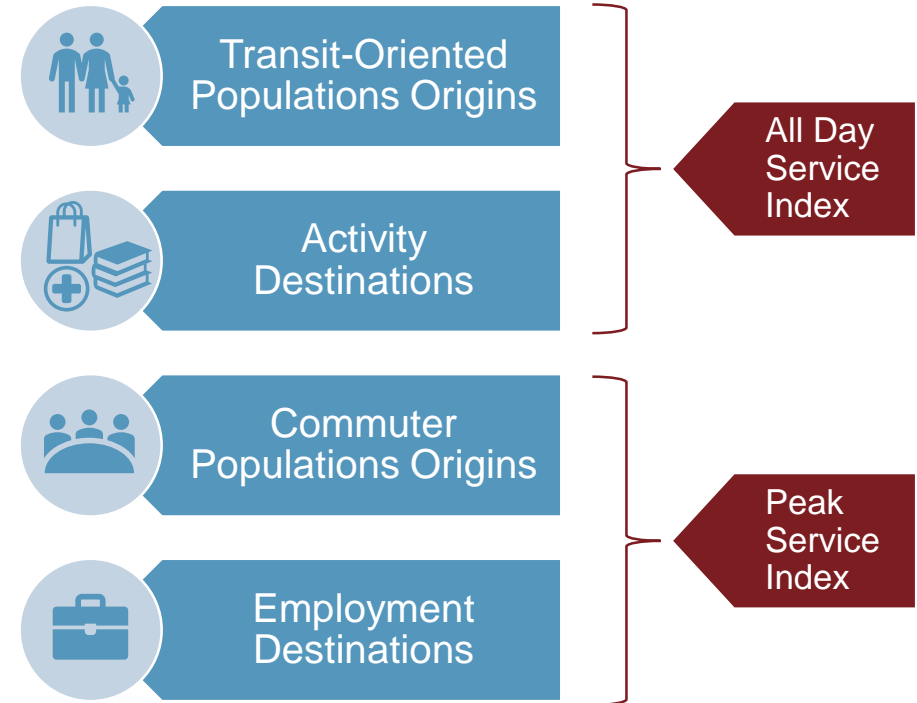


General Guidelines



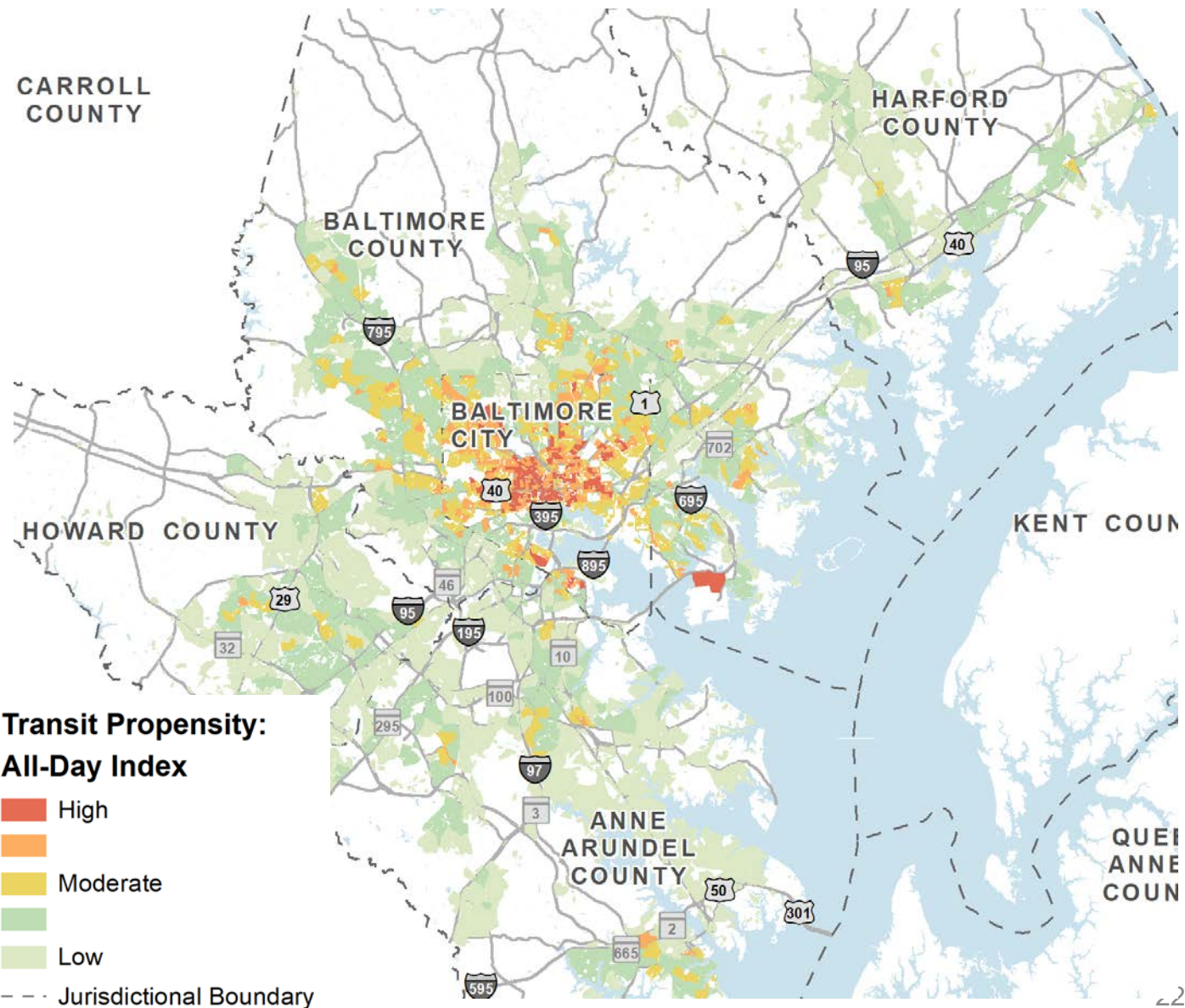
Market Analysis | Transit Propensity

- Transit propensity analysis is a national best practice to assess transit needs
- Transit propensity assesses probability that individual locations or sub-areas have demand for transit
- Based on:
 - Transit-Oriented Populations Origins
 - Activity Destinations
 - Commuter Population Origins
 - Employment Destinations
- Combined to identify:
 - All Day Service Needs
 - Peak Service Needs



Market Analysis | Transit Propensity – All-Day Index

- High all-day propensity is broadly distributed across Baltimore City
- Moderate all-day propensity is present throughout Baltimore County suburbs
- Sparrows Point is High due to the large number of jobs



What is a Regional Transit Corridor?



Available Modes

Limited Stop or Express Bus
Bus Rapid Transit (BRT)
Light Rail
Heavy Rail
Commuter Bus
Commuter Rail



Transit Priority

Varying use of dedicated roadway/right-of-way space and/or coordinated traffic signals



Frequency

At least every 15 minutes peak
At least every 20 to 60 minutes off-peak



Operating Hours

14 to 24 hours per day seven days a week



Stops

Limited suburban stops
More frequent urban stops



Other Characteristics

Onboard and offboard fare payment
Stops with shelters, wayfinding, and lighting

Other Transit Network Improvements:



Local Bus Improvements

Local buses with new connections, improved frequencies and longer operating hours, stops every 1/4 to 1/2 mile, and onboard fare payment



Regional Bus Improvements

Commuter buses with new connections, improved frequencies and longer operating hours where there is increasing off-peak commuting demand, limited stops, and both onboard and offboard fare payment



Water Transportation Improvements

Water taxis or ferries with new connections, improved frequencies and longer operating hours, limited stops, and both onboard and offboard fare payment



Shared Mobility

Microtransit, micromobility, and on-demand connections with limited stops and offboard (app-based) fare payment



Regional Transit Corridors

serve major job and activity centers **and** have demand for:

- Additional infrastructure investment(s)
- All-day service

Other Transit Network

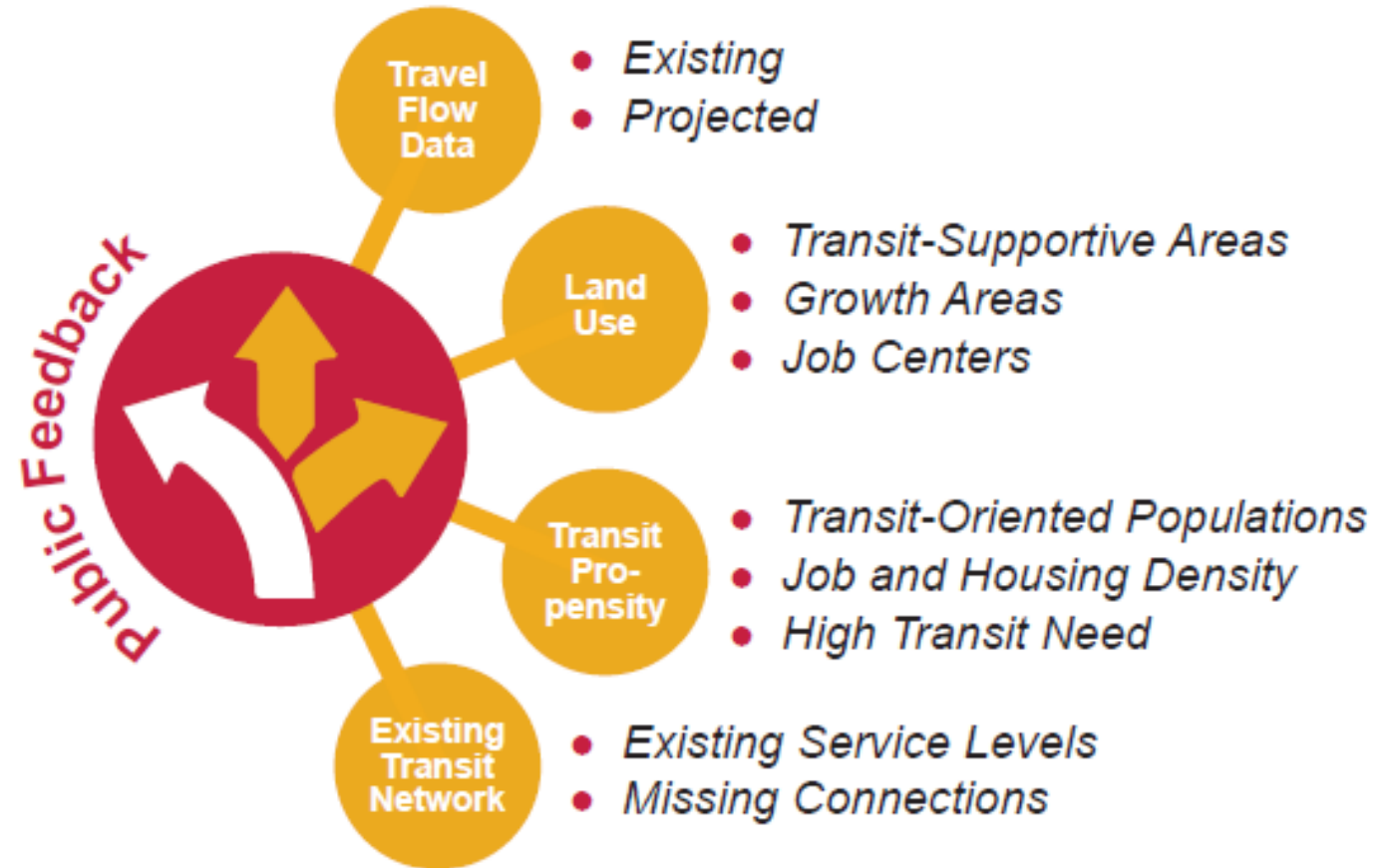
Improvements address other transit demands. Examples include:

- Local circulation
- Commuter service
- First/last mile access

Regional Transit Corridor Identification Methodology

Corridors were identified through multiple inputs

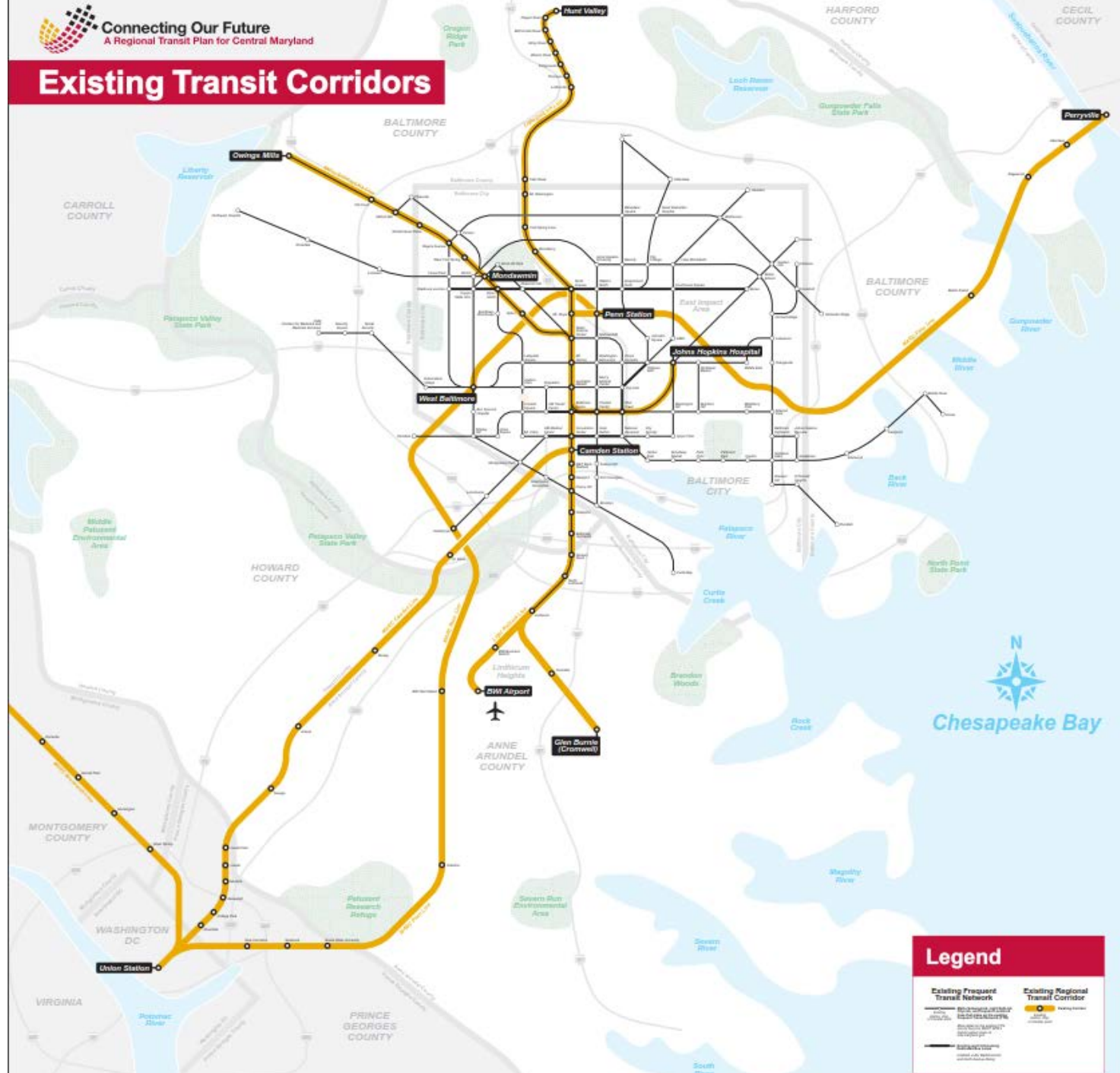
- Analysis of current and expected travel demand
- Analysis of current and expected land uses
- Analysis of transit propensities (demand)
- Analysis of existing transit services
- Stakeholder discussions & existing plans



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A Regional Transit Plan for Central Maryland

Existing Transit Corridors

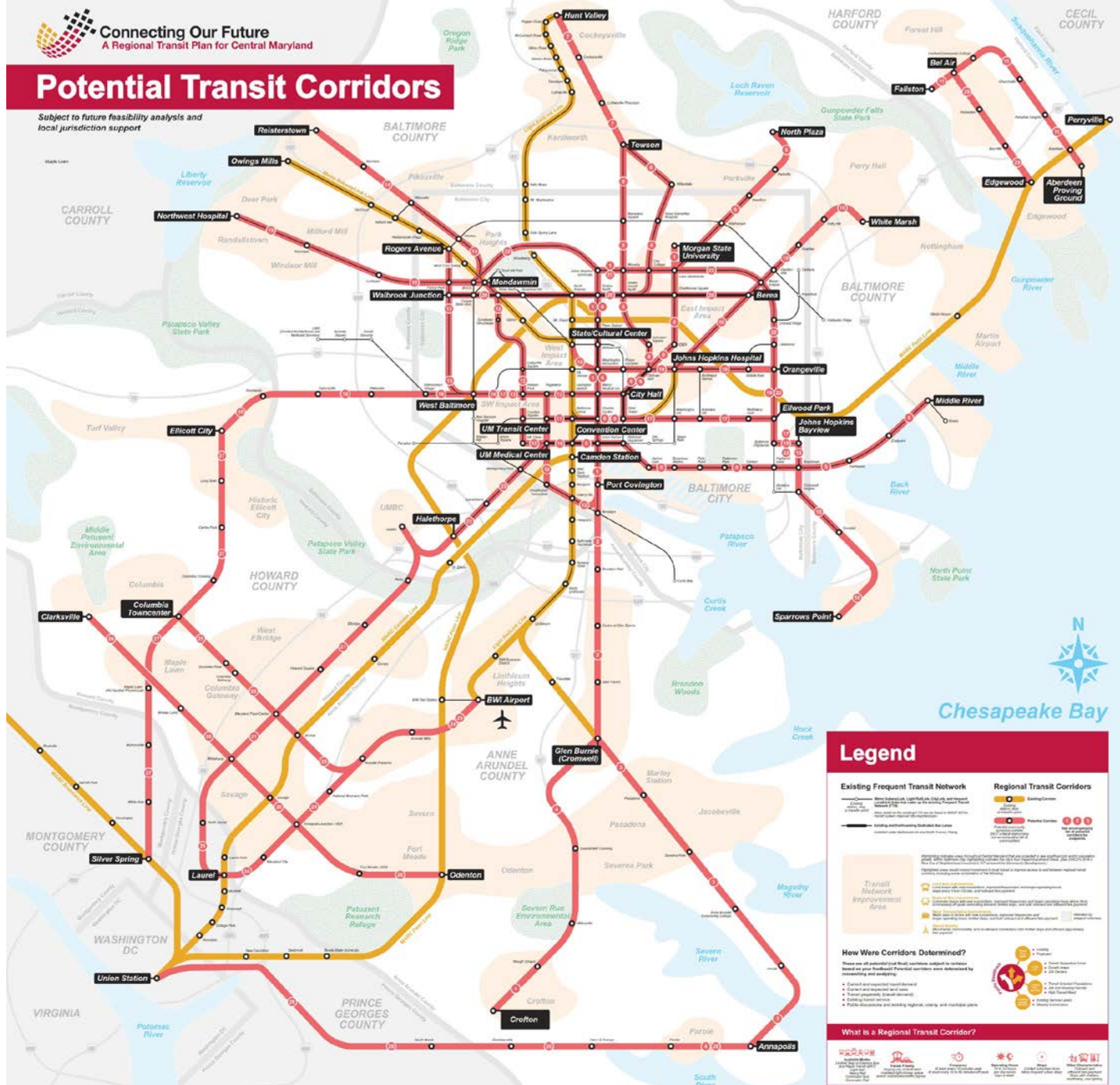


Legend

- Existing Frequent Transit Network
- Existing Regional Transit Corridor
- Existing Frequent Transit Network
- Existing Regional Transit Corridor

Potential Transit Corridors

Subject to future feasibility analysis and local jurisdiction support



Chesapeake Bay

Legend

Existing Frequent Transit Network

- Light Rail
- Subway
- Commuter Rail
- Bus Rapid Transit
- Light Rail
- Subway
- Commuter Rail
- Bus Rapid Transit

Regional Transit Corridors

- Light Rail
- Subway
- Commuter Rail
- Bus Rapid Transit

Transit Network Improvement Area

- Light Rail
- Subway
- Commuter Rail
- Bus Rapid Transit

How Were Corridors Determined?

These are all potential (not final) corridors subject to various studies and approvals. Potential corridors were determined by:

- Current and proposed land use
- Future population (land demand)
- Existing transit routes
- Public input and existing regional, county, and municipal plans
- Transit Network Improvement Area
- Transit Network Improvement Area
- Transit Network Improvement Area
- Transit Network Improvement Area

What is a Regional Transit Corridor?

Regional Transit Corridor: A transit corridor that connects major regional centers and provides a high-quality transit service across a wide geographic area.

Potential Regional Transit Corridors (Map Key)

Potential Regional Transit Corridors:

- 1 Morgan State Univ. to Port Covington
via Johns Hopkins Univ. and Penn Station
- 2 Glen Burnie to Port Covington
via Brooklyn Park and the Centre at Glen Burnie
- 3 Glen Burnie to Annapolis
via Pasadena and Severna Park
- 4 Glen Burnie to Crofton
via Millersville
- 5 Convention Center to Middle River
via Harbor East and Canton
- 6 Towson to UM Transit Center
via Belvedere Square and Waverly
- 7 Towson to Hunt Valley
via Lutherville-Timonium and Cockeysville
- 8 Towson to Port Covington
via Hillendale and Penn Station
- 9 North Plaza to UM Transit Center
via Hamilton and Courthouse Square
- 10 White Marsh to Johns Hopkins Hosp.
via Overlea and Berea
- 11 Fallston to Aberdeen Proving Ground
via Belair, Churchville, and Aberdeen
- 12 Mondawmin to Port Covington
via UM Medical Ctr. and Greyhound/Horseshoe
- 13 Rogers Avenue to City Hall
via Walbrook Junction
- 14 Mondawmin to Reisterstown
via Pimlico and Pikesville
- 15 Mondawmin to Northwest Hospital
via Locheam and Rockdale
- 16 Ellicott City to Convention Center
via Catonsville, West Baltimore, and Inner Harbor
- 17 West Baltimore to Hopkins Bayview
via Charles Center and Washington Hill
- 18 Sparrows Point to Hopkins Bayview
via Dundalk
- 19 State Center to Hopkins Bayview
via Johns Hopkins Hospital and Orangeville
- 20 Walbrook Junction to Berea
via Coppin State University and Station North
- 21 Laurel to Halethorpe
via Elkridge and the Maryland Food Center
- 22 Mondawmin to Hopkins Bayview
via Johns Hopkins University and Orangeville
- 23 Halethorpe to UM Transit Center
via UMBC and CCBC Catonsville
- 24 BWI Airport to Laurel
via Arundel Mills and Annapolis Junction
- 25 BWI Airport to Columbia Towncenter
via Arundel Mills, Jessup, and Snowden River
- 26 Odenton to Clarksville
via Fort Meade, Savage, and Broken Land
- 27 Ellicott City to Silver Spring
via Columbia Mall and Burtonsville
- 28 Annapolis to Union Station
via Parole and Davidsonville
- 29 Bel Air to Edgewood
via Emmorton and Box Hill





PUBLIC ENGAGEMENT APPROACH

Public Involvement Methods



MAKE IT EASY

Meet people where they are



MAKE IT INTERACTIVE

Create experiences where people can connect directly with RTP staff



MAKE IT COMPREHENSIVE

Use both high-tech and low-tech resources to share all relevant information



Connecting Our Future

A Regional Transit Plan for Central Maryland

Key Themes We've Heard So Far

- Regional connectivity
- Service frequency and reliability
- Bus stop amenities (e.g., shelters, benches)
- Personal safety and security
- Cleanliness and condition of facilities matter
- Access challenges for senior and minority customers
- Customer service
- Access to more real-time data
- More fare payment options
- Expanding off-peak service across the region to connect to jobs

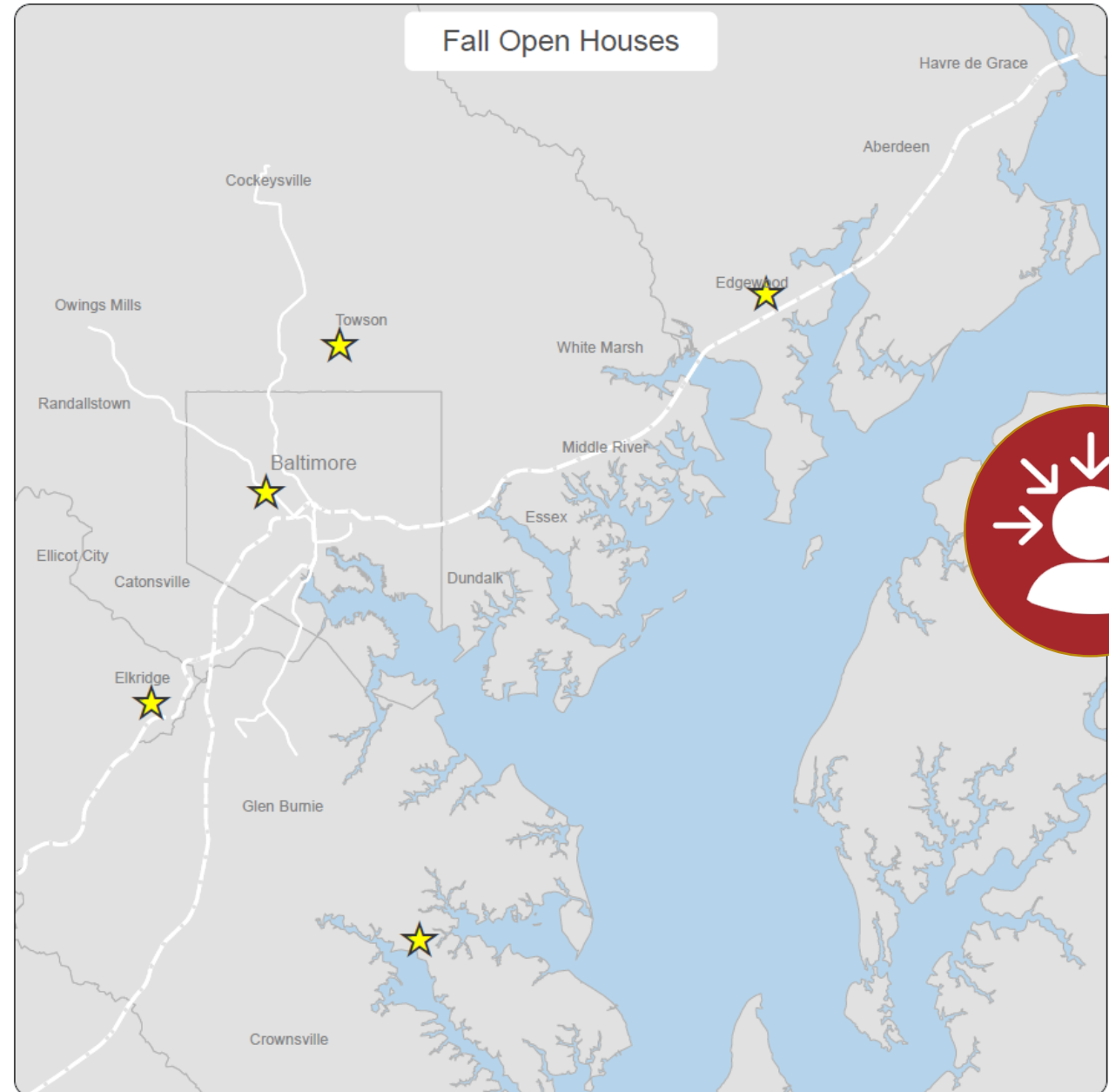


LOOKING AHEAD

Fall Open Houses

October Locations:

- **10/21 Howard County**
Elkridge Library
- **10/22 Baltimore City**
Mondawmin Mall
- **10/24 Baltimore County**
Towson Library
- **10/28 Harford County**
Edgewood Rec. & Community Center
- **10/29 Anne Arundel County**
Severna Park Community Center





Questions?