VTrans Regional Workshop

Lynchburg Area

Jitender Ramchandani, AICP, PMP

August 15, 2019
HOUSEKEEPING ITEMS

- Refreshments
- Restrooms
- Lunch
- Parking matters
- Wifi Code/Password
MEETING PACKET

• July 2019 Newsletter
• Mid-Term Needs FAQs
• VTrans2040 Needs
• Presentations Handout
• Maps of Measures
• Comment Form
• Next Steps
OIPI’s ROLE in VTRANS

Secretary of Transportation

Office of Intermodal Planning and Investment

VTrans
Jitender Ramchandani

Performance Management
Margie Ray

SMART SCALE
Chad Tucker

OIPI assists the Commonwealth Transportation Board in the Development of VTrans.
TODAY’S SCHEDULE

• Plenary Presentation (10:00am-11:00am)
  – VTrans Overview
  – Statewide Considerations
  – Regional Studies
  – Needs Measures Methodology

• Breakout Groups (11:00am-1:30pm with break for lunch)
  – Congestion and Reliability Measures
  – Passenger Rail On-Time Performance
  – Accessibility to Activity Centers
  – Disadvantaged Population Beyond ¼ Mile Access to Transit
  – Potential for Safety Improvement Locations (PSI)

• Summary/Wrap-up (1:30pm-2:00pm)
  – Review of Next Steps and Timeline
Purpose of Today’s Workshop

• Goal: Utilize today’s workshop to inform development of VTrans Mid-term Needs
  – We are still reviewing results of the data analysis and have not made any decisions
  – Needs are not projects - A need can be addressed by different types of projects and strategies
Purpose of Today’s Workshop

• Workshop format allows us to work together to:
  – Share information about the evolving VTrans process, measures, data and tools
  – Review region-specific data
  – Receive input on mid-term measures and thresholds
  – Utilize local and regional knowledge to capture issues that may not be fully or accurately captured by data alone
  – Discuss region-specific issues
  – Where we can use the most help (due to lack of data)
    o Environmental and equity considerations
    o Non-motorized access
    o Travel Demand Management opportunities associated with a roadway or a corridor
FEEDBACK WE NEED FROM YOU TODAY

• Provide input on measures and thresholds
• Provide input on issues that may justify a Need
• Ways to provide input:
  – Verbally: During round table discussion
  – Written: Via comment form
  – Online: Interactive mapping application
Purpose of Today’s Workshop

• VTrans is used as one of the three screening criteria for SMART SCALE
  – Project is eligible
  – Project is ready
  – Project meets one or more VTrans Needs

• VTrans Needs will be utilized for SMART SCALE Round 4 that will start application intake in Spring 2020.
  – Getting your input on preliminary data analysis results is a key step leading to needs development
VTRANS OVERVIEW
VTrans Goals

- Goal A: Economic Competitiveness and Prosperity
- Goal B: Accessible and Connected Places
- Goal C: Safety for All Users
- Goal D: Proactive System Management
- Goal E: Healthy Communities and Sustainable Transportation Communities
• **Corridors of Statewide Significance (CoSS)** [Code of Virginia § 33.2-353]
  – Serve inter-regional travel
• **Regional Networks (RN)** [Code of Virginia § 33.2-353]
  – Serve commuters, intra-regional, and local travel
• **Urban Development Areas (UDA)** [Code of Virginia § 33.2-353 and § 15.2-2223.1]
  – Designated by local governments
  – Intended to promote walkable development and traditional neighborhood design
• **Safety**
• **Additional work underway to identify needs associated with local economic and industrial development areas**
Corridors of Statewide Significance

- Coastal Corridor
- Crescent Corridor
- East-West Corridor
- Eastern Shore Corridor
- Heartland Corridor
- North Carolina to West Virginia Corridor
- North-South Corridor
- Northern Virginia Corridor
- Seminole Corridor
- Southside Corridor
- Washington to North Carolina Corridor
- Western Mountain Corridor

*Thin lines of same color represent Corridor Component Facilities

Airports
Ports
Rail Network

Travel Markets:
Corridors of Statewide Significance serve inter-regional travel.
Corridors of Statewide Significance

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Travel Markets:
Corridors of Statewide Significance serve inter-regional travel.

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Urban Development Areas are designated by local governments and are intended to promote walkable development and traditional neighborhood design.
# Mid-Term Needs vs. Long-Term Needs

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<thead>
<tr>
<th>Mid-Term Needs</th>
<th>Long-Term Needs</th>
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<tbody>
<tr>
<td>7 - 10 year time horizon</td>
<td>10 + year time horizon</td>
</tr>
<tr>
<td>Performance measures with current data to determine</td>
<td>Performance measures through scenario analysis with forecast data to determine</td>
</tr>
<tr>
<td>Used as screening criteria for SMART SCALE</td>
<td>Used to inform policy, planning and project recommendations to prepare for 10+ years out</td>
</tr>
<tr>
<td>Action requested by December 2019</td>
<td>Expect to request action in 2020 or 2021</td>
</tr>
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</table>

Intended to be utilized for SMART SCALE Round 4
Mid-Term Needs – Statewide Considerations
STATEWIDE CONSIDERATIONS OF MID-TERM NEEDS

• Federal and State Requirements
  – Federal requirements per 23 U.S.C. 135 and other
  – State requirement § 33.2-353: OIPI to assist the CTB in the development and update of a Statewide Transportation Plan. Conduct a statewide needs assessment of CoSS, RN, UDA travel markets
  – State requirement § 2.2-229: OIPI to assist the Commonwealth Transportation Board in the development of a comprehensive, multimodal transportation policy, which may be developed as part of the Statewide Transportation Plan pursuant to § 33.2-353

• Virginia-specific Business Requirements
  – Identify safety needs to guide SMART SCALE safety investments
  – VTrans guides state funding programs (e.g. SMART SCALE, Revenue Sharing)
  – VTrans informs project development and advance activities
STATEWIDE CONSIDERATIONS OF MID-TERM NEEDS

• By the Code of Virginia § 33.2-353,

“It is the intent of the General Assembly that this plan assess transportation needs and assign priorities to projects on a statewide basis, avoiding the production of a plan that is an aggregation of local, district, regional, or modal plans.”
STATEWIDE CONSIDERATIONS OF MID-TERM NEEDS

• VTrans Needs Assessment
  – Acknowledges local and regional transportation plans, MPOs priorities and issues
  – Focuses on data-driven decision-making

• Continued data utilization evolution
  – Lack of reliable and complete data for all modes (highway, transit, non-motorized) in all areas (NoVA versus Bristol) across all facility types (interstates, arterials, collectors) remains a challenge
  – Unit for reporting may not allow detail/accuracy needed
STATEWIDE NEEDS TRADEOFFS

• “Transportation Need” is a broad term
  – The most congested spot for one locality may still be better than the number 50th congested spot for another locality

• VTrans is a statewide plan and has to address conflicting and contrasting priorities
  • More specific needs versus more general needs
  • Statewide criteria versus region-specific criteria
  • Demonstrable today’s needs versus aspirational needs
HISTORICAL POPULATION CHANGE BY PDC – 2000-2017

Statewide Population Change: 19.6%

Population Change 2000-2017 by PDC

- 0% or Less
- 1% - 10%
- 11% - 25%
- 26% - 50%
- 51% or Greater

Source: Data provided by Weldon Cooper Center for Public Service and the U.S. Census Bureau.
Forecast Population Change by PDC – 2017-2045

Statewide Population Change: 24%

Population Change from 2017-2045 (Weldon Cooper) by PDC
- 0% or Less
- 1% - 10%
- 11% - 25%
- 26% - 50%
- 51% or Greater

Source: Data provided by Weldon Cooper Center for Public Service and the U.S. Census Bureau.
REGIONAL STUDIES

LYNCHBURG REGION
The following Plans and Studies are under review.

<table>
<thead>
<tr>
<th>Name of Plan</th>
<th>Agency</th>
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<tbody>
<tr>
<td>Central Virginia 2040 Long Range Transportation Plan</td>
<td>Central VA MPO</td>
</tr>
<tr>
<td>Route 221 Corridor Plan</td>
<td>Central VA MPO</td>
</tr>
<tr>
<td>Atlanta Avenue Corridor Study</td>
<td>Central VA MPO</td>
</tr>
<tr>
<td>Downtown Amherst Pedestrian and Walkability Study</td>
<td>Central VA MPO</td>
</tr>
<tr>
<td>Commonwealth Regional Council Long Range Transportation Plan 2035</td>
<td>CRC</td>
</tr>
<tr>
<td>Timberlake Road (US 460 Business)</td>
<td>VDOT (STARS)</td>
</tr>
<tr>
<td>Candlers Mountain Road Study</td>
<td>VDOT (STARS)</td>
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<td>Lynchburg Expressway Study</td>
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<td>Altavista Intersection Alternatives Study</td>
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MID-TERM NEEDS MEASURES
METHODOLOGY
NEEDS METHODOLOGY – COSS, REGIONAL NETWORKS AND DISTRICTS

• Build on Needs from VTrans2040
• Introduce new/improved data sources
**Mid-Term Needs Assessment | Measures by Vtrans Travel Markets**

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<th>Mid-Term Needs Measures</th>
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<tr>
<td>Economic Competitiveness</td>
<td>Congestion: Percent Person Miles Traveled in Excessively Congested Conditions (PECC)</td>
<td>✔*</td>
<td>✔*</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Congestion: Travel Time Index (TTI)</td>
<td>✔**</td>
<td>✔**</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reliability: Unreliable Delay (UD)</td>
<td>✔*</td>
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* All of limited-access CoSS, plus select limited access facilities within Regional Networks
** All of non-limited access CoSS, plus all other facilities within Regional Networks
# Mid-Term Needs Assessment | Measures by Vtrans Travel Markets

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*Safety Needs will also be listed under CoSS and RN to ensure eligibility of their for High Priority Projects Program (HPPP).
• General Limitations
  – Congestion and reliability measures may not reflect:
    o Slowdowns required by law
    o Slowdown necessitated by geometry or weather conditions
    o Those desired by local communities (i.e. downtowns)
  – Team has tailored measures to overcome limitations as much as possible
  – Data accuracy has improved but there is room for further improvement
PERFORMANCE MEASURE FOR CONGESTION
PERCENT PERSON MILES TRAVELED IN EXCESSIVELY CONGESTED CONDITIONS (PECC)

• What it tells us:
  – Amount of travel occurring under excessively congested conditions

• What it measures:
  – Percent of total travel that is significantly slower than posted speed limit

• Where it applies:
  – CoSS: limited access facilities
  – Regional Networks: select limited access facilities

• Data source:
  – Speed: Data collection from GPS and other mobile devices (INRIX)
  – Volume: VDOT Traffic Count Program
PERFORMANCE MEASURE FOR CONGESTION
PERCENT PERSON MILES TRAVELED IN EXCESSIVELY CONGESTED CONDITIONS (PECC)

• Period of analysis: Hourly weekday average for 6am to 8pm collected during calendar year 2018

• How it is calculated:
  – Check whether a road segment has an average speed below:
    o Below 90% of posted speed limit (PSL),
    o Below 75 % of posted speed limit (PSL)
    o Below 60% of posted speed limit (PSL)
  – If speed on a segment is below a speed limit
    o sum the person miles of travel on that segment in that hour
    o Divide the person miles of travel in congestion by the total person miles of travel
    o Result is the PECC
What does this chart show?

EXAMPLE: In Salem District, 0.5% of total person mile traveled on interstates and select limited-access roadways are at 60% or below average hourly speed.

Proportion of person miles traveled that are below the above speed limits.
• How will this measure be used to determine Needs along CoSS and RN?
  – Based on further analysis and consultation with stakeholders, we will determine the most appropriate thresholds for Congestion (PECC)
  – We will evaluate a combination of slow speed and person miles of travel affected
What it tells us:
- Amount of delay associated with high travel time variability (unpredictability). i.e. delay is accounted towards the UD measure for only those hours when the travel time is highly unpredictable.

What it measures:
- Person hours of delay during periods with large variation in travel times.

Where it applies:
- CoSS: limited-access facilities
- Regional Networks: select limited access facilities

What is “high travel time variability”:
- 80th percentile / 50th percentile travel time above or equal to 1.5
Performance Measure for Reliability (Interstate and Select Limited-Access Roadways)

Unreliable Delay (UD) - Number of Person Hours of Delay During Unreliable Conditions

- Data source:
  - Speed: Data collection from GPS and other mobile devices (INRIX)
  - Volume: VDOT Traffic Count Program

- Period of analysis:
  - Hourly, every weekday and weekend, during calendar year 2018

- Calculation:
  - Check whether a road segment has high travel time variability. If so, calculate person hours of delay
  - The person hours of delay is the person hours traveled at the observed speed minus the person hours traveled at the median (50th percentile) travel time for that hour
EXAMPLE: In Richmond District, 131,000 person hours of delay was experienced on interstates and select limited access facilities due to slower than median speed.
**Performance Measure for Congestion (Non-Limited-Access CoSS and RN)**

**Travel Time Index**

- **What it tells us:**
  - If the TTI=2.0, it takes twice as long to travel the road during the peak time than at the reference speed (normal traffic conditions)

- **What it measures:**
  - It measures intensity of congestion

- **Where it applies:**
  - CoSS, non-limited access facilities
  - Regional Networks: all other roadways except select limited access facilities
• Data source:
  – Speed: Data collection from GPS and other mobile devices (INRIX)

• Period of analysis:
  – Average weekday, by hour

• Calculation:
  – Observed time divided by reference travel time
  – For each hour of the day, there are 250+ (number of weekdays in a year) observations
**Performance Measure for Reliability (Non Limited-Access CoSS and RN)**

**Buffer Time Index (BTI)**

- **What it tells us:**
  - How much extra time ("buffer") is needed to ensure on-time arrival at least 95% of the time (be late one day per month)

- **What it measures:**
  - Indicator of "buffer" needed to not be late due to variation in travel times

- **Where it applies:**
  - All of non-limited access CoSS, plus all other roadways within Regional Networks
• Data source:
  – Speed: Data collection from GPS and other mobile devices (INRIX)

• Period of analysis:
  – Average weekday, by hour

• Calculation:
  – Buffer Time Index = (95% Travel Time – Average Travel time) divided by Average Travel Time
"How will the **reliability** measure (**BTI**) be used to determine needs along Nonlimited Access CoSS and RN Roadways?

- What threshold is appropriate?
- Should all roads be treated the same?
- Is there be a level of a BTI that should be considered a problem regardless of AADT or VMT?

In this example, a hypothetical roadway segment VMT of 200,000 and BTI of 2.2.

**It is NOT in the shaded area and IS a need.**

In this example, a hypothetical roadway segment VMT of 20,000 and BTI of 3.5.

**It is in the shaded area and is not a need.**
Performance Measure for Reliability
Passenger Rail On-Time Performance

• What it tells us:
  – Reliability of state-supported Amtrak and VRE commuter rail services

• What is “reliability” for a passenger rail service:
  – On-time (per the established schedule) arrival of a passenger train except if a train is originating from that station

• What it measures:
  – On-time performance per rail operator’s goals

• Data source: Average on-time performance
  – Virginia Railway Express (VRE) by line
  – State-supported Amtrak Services by station

• Period and unit of analysis:
  – Virginia Railway Express (VRE) by line (2004-2018)
  – State-support Amtrak Services by station (2018)
• What do these preliminary results tell us?
  – Northbound state-supported Amtrak services are more reliable
  – Southbound services are less reliable, likely due to the delay experienced in DC
  – Danville Amtrak station has the lowest service reliability
  – Often, originating stations have greater reliability than intermediate or terminus stations
  – VRE’s average on-time performance has degraded by nearly 7% since 2013
  – VRE’s Fredericksburg line is more unreliable than the Manassas line
• How will this measure be used to identify VTrans Needs?
  – Lack of reliability could hamper demand, or indicate other issues (such as rail line congestion)
  – Compare trends over time to determine if improvements may be necessary to keep to a standard performance level into the future
  – Identify stations/hotspots where improvements could be made
  – There are several initiatives in planning and advance activities states such as improvements to Long Bridge which is a bottleneck, DC2RVA, local passenger service studies, etc.
  – Benefit from stakeholder input to identify issues and need for improvements
**Performance Measure for Accessibility to Activity Centers**

**Accessibility Deficit - Highway**

- **What it tells us:**
  - Ability of workers to access Activity Centers (local-serving, knowledge-sector, freight-based)

- **What it measures:**
  - Needs associated with improved auto accessibility are being measured using congestion and reliability measures

- **Where it applies:**
  - Highway access is important for all three types of activity centers

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### Economic and Transportation Correlation Table

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**Correlations:**
- 3 = High Correlation to Transportation Need
- 2 = Moderate Correlation to Transportation Need
- 1 = Low Correlation to Transportation Need

Source: Summary correlations based on national research and survey of national industry site selection professionals conducted by CIP Consultants Team

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**VTRANS**

**Virginia’s Transportation Plan**
**Performance Measure for Accessibility to Activity Centers**

**Accessibility Deficit - Transit**

- **What it tells us:**
  - Ability of workers to access Local Serving and Knowledge based Activity Centers

- **What it measures:**
  - Difference in number of workers, between auto and public transportation, that can access a given activity center within 45 minutes of travel

- **Where it applies:**
  - To Local-serving and Knowledge-based Activity Centers
**Performance Measure for Accessibility to Activity Centers**

**Accessibility Deficit - Transit**

- **Data source:**
  - Workers: 2015 Longitudinal Employer-Household Dynamics
  - Highway Network: HERE
  - Existing Fixed-Route Transit Service: DRPT

- **Period of analysis:**
  - Weekday peak period

- **Calculation:**
  - Using TransCAD, calculate the number of workers that can access an activity center block group within a 45-minute *drive*
  - Using TransCAD, calculate the number of workers that can access an activity center block group within a 45-minute *bus or train ride*
  - Calculate the difference between automobile and transit accessibility
  - Categorize activity centers as having high, medium, and low transit access deficit at Regional Network
• How will this measure be used to identify VTrans Needs?
  – We are evaluating different thresholds for characterizing transit access deficit and would like to receive feedback from stakeholders
Performance Measure for Accessibility to Activity Centers

Accessibility Deficit – Non-motorized

- **What it tells us:**
  - Non-motorized access to Local Serving and Knowledge based Activity Centers

- **What it measures:**
  - Existing average walk and bike shed to a Knowledge-based or Local-serving Activity Center

- **Where it applies:**
  - Knowledge-based and Local-serving Activity Centers

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**Economic and Transportation Correlation Table**

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**Correlations:**

- 3 = High Correlation to Transportation Need
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Source: Summary correlations based on national research and survey of national industry Site Selection Professionals conducted by CPI Consultant Team
PERFORMANCE MEASURE FOR ACCESSIBILITY TO ACTIVITY CENTERS
ACCESSIBILITY DEFICIT – NON-MOTORIZED

• Data source:
  – Walk and bike speed: Manual on Uniform Traffic Control Devices
  – Average bike and walk travel time: 2017 American Community Survey

• Period of analysis: Weekday

• Calculation:
  • Pedestrian: 1 mile
    • Average speed of 2.4 mph
    • Travel time of 24 minutes: Census-reported 90th percentile single-mode walking commute time for Virginia
  • Bike: 7 mile
    • Average speed of 9.9 mph: Average in-town bike speeds from multiple sources
    • 40 minutes: Imputed by combining Census-report mean commute times by mode with 90th percentile walk commute time
• How will this measure be used to identify VTrans Needs?
  – We are evaluating different thresholds for characterizing non-motorized access deficit and would like to receive feedback from stakeholders
Performance Measure for Travel Options for Disadvantaged Populations

Disadvantaged Population Beyond ¼ Mile Access to Transit

• What it tells us:
  – Areas where transit access is of high importance but is unavailable

• What it measures:
  – Block groups with significant number of disadvantaged population without transit access

• What is Disadvantaged Population:
  – Population below 150% of poverty level
  – Population with age 75 year and older
  – Population with disability

• Who developed this definition of Disadvantaged Population:
Performance Measure for Travel Options for Disadvantaged Populations
Disadvantaged Population Beyond ¼ Mile Access to Transit

- **Data source:**
  - 2017 5-year American Community Survey (ACS)

- **Calculation:**
  - Identify Census Block Groups where the population share of any component of disadvantage (i.e., income, age, disability) exceeds region-specific thresholds.
    - Two threshold were used, with one identifying the top 10% of block groups along each component (above the “90th percentile”) and the other identifying the top 20% (above the “80th percentile”).
    - Flag these block groups as disadvantaged.
  - Identify region-specific transit viability – population density served by transit.
    - Apply region-specific 10th percentile population density served by transit.
    - Block groups exceeding the population density threshold are flagged as viable for fixed-route transit.
PERFORMANCE MEASURE FOR TRAVEL OPTIONS FOR DISADVANTAGED POPULATIONS
DISADVANTAGED POPULATION BEYOND ¼ MILE ACCESS TO TRANSIT

• What do these preliminary results tell us?
  – Share of population in disadvantaged Block Groups that current not served by a fixed-route transit service is greatest in the Kingsport Region (which does not have fixed-route transit)
  – It is lowest in the Northern Virginia and Charlottesville Regions
  – Hampton Roads Region, followed by Northern Virginia and Richmond, has the largest disadvantaged population that is currently not served by a fixed-route transit service
  – On average, a fixed-route transit service is viable for nearly half of disadvantaged Block Groups

Disability: with disability | Age: 75 or older | Income: Less than 150% of poverty level
• How will this measure be used to identify VTrans Needs?
  – Block groups that are found to be transit viable seem to have a demonstrable need for transit service
  – We are evaluating different modifications to thresholds for identification of disadvantaged Block Groups and will rely on stakeholder input.
Mid-Term Needs Methodology – Safety Needs
• Safety Needs are identified for the entire roadway network in Virginia
• Locations with Potential Safety Improvements (PSI) are used to guide VTrans Needs Identification
• The PSI list is used in many different forms.
• We are considering the following tiering of the PSI list for ease of communication:
  – Tier 1: Targeted safety needs (less than 100 per district)
  – Tier 2: Top 100 PSI based on Fatal + Injury crashes only (100 per district)
  – Tier 3: Top 100 PSI based on all crashes
  – Tier 4: VTrans Safety Needs - Somewhere between complete list and 100 per district
  – Tier 5: Complete PSI List
• When will the PSI list become available?
  – Early fall

• When will a subset of the PSI list be identified as VTrans Safety Needs?
  – A draft is expected to be available by October, 2019
MID-TERM NEEDS METHODOLOGY – URBAN DEVELOPMENT AREAS, AND INDUSTRIAL AND ECONOMIC DEVELOPMENT AREAS
Per Virginia Code §15.2-2223.1, UDAs ...  
- Are designated by a locality with a comprehensive plan/ zoning authority  
- May be sufficient to support 10-20 years of projected growth  
  - May extend planning horizon to 40 years around current/ planned rail transit  
- May be appropriate for higher residential densities and commercial floor area ratios (FAR)  
- **Shall** incorporate principles of traditional neighborhood design (TND)  
  - Pedestrian friendly road design  
  - Connected local street / pedestrian networks  
  - Preserved natural areas  
  - Mixed use neighborhoods, mixed + affordable housing  
  - Reduced front/ side yard building setbacks  
  - Reduced street widths and intersection turning radii
• My jurisdiction currently does not have a UDA. Can we designate one in time for inclusion of needs in VTrans?
  – Planned UDAs (expected designation by April 1st, 2020)
    o Provide the needs for these areas in this survey (contact us)
    o Upload relevant data and shapefiles
    o Describe your plans for designation
    o These needs will become eligible for the next round of SMART SCALE only if designation process is complete by April 1st, 2020
NEEDS METHODOLOGY – INDUSTRIAL AND ECONOMIC DEVELOPMENT AREAS

• We are evaluating needs associated with designated industrial and economic development areas that have achieved some level of planning and readiness as determined by Virginia Economic Development Partnership (VEDP)
  o Leverage Virginia Economic Development Partnership (VEDP) Business Ready Sites program to account for the transportation needs of future industrial and economic development in VTrans
• VEDP’s Business Ready Site Program
  – The Virginia Business Ready Sites Program (VBRSP) was established pursuant to § 2.2-2238 C. of the Code of Virginia of 1950, as amended (the Code), to identify and assess the readiness of potential industrial or commercial sites in the Commonwealth of Virginia (the Commonwealth) for marketing for industrial or commercial economic development purposes, thereby enhancing the Commonwealth’s infrastructure and promoting the Commonwealth’s competitive business environment.
• Program components
  – Site characterization to assess and designate a site’s current level of development
  – Site Development to further develop a pool of potential sites across the Commonwealth

• Requirements
  – Minimum of 100 contiguous acres (statutory) - VEDP is now accepting sites of 25+ acres
  – Allows for industrial, research and office parks
  – Applicants to program must be political subdivisions of the Commonwealth of Virginia, including counties, cities, towns, industrial/economic development authorities
“Shovel Ready”. All permits are in place and the site is ready for a site disturbance permit from the locality in which the site is located.

Certified as “infrastructure ready”. All infrastructure is in place or will be deliverable within 12 months. All permit issues have been identified and quantified.

Zoned industrial/commercial, due diligence complete, but site has minimal or no infrastructure.

Site controlled and marketed for development. Comprehensive Plan reflects site intended for industrial or commercial development and use, but site is not zoned as such and a rezoning hearing needs to be scheduled. Site has minimal or no infrastructure. Minimal or no due diligence has been performed.

Site under (a) public ownership, (b) public/private ownership, or (c) private ownership which such private owner(s) agreeable to marketing the site for economic development purposes and to allowing access to the property for site assessment and marketing purposes. Comprehensive plan reflects site as appropriate for industrial or commercial development and use, but site is not zoned as such. Site has minimal or no infrastructure. Minimal or no due diligence has been performed.

Source: https://www.vedp.org/vbrsp
NEEDS METHODOLOGY – INDUSTRIAL AND ECONOMIC DEVELOPMENT AREAS
### Location and Characteristics of Sites in VEDP’s Business Ready Site Program

<table>
<thead>
<tr>
<th>Construction Districts</th>
<th>Total Sites (number)</th>
<th>Total Developable Acreage (acres)</th>
<th>Average Developable Acreage per Site (acres)</th>
<th>Largest Site by Developable Acreage (acres)</th>
<th>Average Distance to nearest Interstate (miles)</th>
<th>Average Distance to nearest Port (minutes)</th>
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<tr>
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<td>7,571</td>
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<td>3,100</td>
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<td>Hampton Roads</td>
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<td>26,463</td>
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<td>4,000</td>
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<td>9,254</td>
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<tr>
<td>Northern Virginia</td>
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<td>1,530</td>
<td>170</td>
<td>524</td>
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<td>Richmond</td>
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<td>24,148</td>
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<td>1,600</td>
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<td>Salem</td>
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<td>6,106</td>
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<td>103,802</td>
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### Location and Readiness of Sites in VEDP’s Business Ready Site Program

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<tr>
<th></th>
<th>Bristol</th>
<th>Culpepper</th>
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<th>Hampton Roads</th>
<th>Lynchburg</th>
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<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>27</td>
<td>46</td>
<td>72</td>
<td>110</td>
<td>51</td>
<td>9</td>
<td>125</td>
<td>42</td>
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**NEEDS METHODOLOGY – INDUSTRIAL AND ECONOMIC DEVELOPMENT AREAS**
NEEDS METHODOLOGY – INDUSTRIAL AND ECONOMIC DEVELOPMENT AREAS

<table>
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<tr>
<th>Un-characterized</th>
<th>VEDP’s Site Readiness Tiers</th>
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<td>Outside Regional Network</td>
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<td>14</td>
<td>5</td>
<td>24</td>
<td>1</td>
<td>207</td>
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</tbody>
</table>

Business Ready Site Program Tier

1  2  3  4  5
How will we use VEDP’s Business Ready Site Program to determine VTrans Needs?

- We are evaluating needs associated with sites that VEDP has determined to be “shovel ready” or Tier 5 and “infrastructure ready” or Tier 4
- The readiness indicates that these sites are likely to benefit from the required transportation improvements
BREAKOUT TABLES
FEEDBACK WE NEED FROM YOU TODAY

• Provide input on measures and thresholds
• Provide input on issues that may justify a Need
• Ways to provide input:
  – Verbally: During round table discussion
  – Written: Via comment form
  – Online: Interactive mapping application
Wrap Up
**NEXT STEPS**

- Information presented today was for discussion purposes only.
  - We will continue seeking feedback from all stakeholders via in-person meetings and online

- For any pending items, we will follow up in the coming weeks.

- We will take your and feedback from all other regions to establish informed thresholds for CTB’s review and consideration

- VTrans performance measures and Needs, when available in draft format, will remain available for comment until CTB takes an action
# Final Needs Identification Timeline

<table>
<thead>
<tr>
<th>Date</th>
<th>VTrans Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 16</td>
<td>October CTB meeting: Present draft needs</td>
</tr>
<tr>
<td>December 11</td>
<td>December CTB Meeting: Request for CTB action</td>
</tr>
<tr>
<td>Before the end of 2019</td>
<td>OIPI intends to publish final approved list of Mid-Term Needs</td>
</tr>
<tr>
<td>April 1, 2020</td>
<td>Deadline for localities to adopt new UDAs in Comprehensive Plans</td>
</tr>
<tr>
<td>Spring-Summer 2020</td>
<td>SMART SCALE Round 4 proposals screened with updated Mid-Term Needs</td>
</tr>
</tbody>
</table>
VTraNS DESIGNED POINTS OF CONTACT

Legend

VTraNS Primary Contact:
- Chris Wichman
- Katie Schwing
- Chris Wichman (TJPDC)/Katie Schwing (RRRC)
OIP Staff Contact Information:

<table>
<thead>
<tr>
<th>Name</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jitender Ramchandani</td>
<td>804.786.0868</td>
<td><a href="mailto:Jitender.Ramchandani@oipi.Virginia.gov">Jitender.Ramchandani@oipi.Virginia.gov</a></td>
</tr>
<tr>
<td>Katie Schwing</td>
<td>804.786.2362</td>
<td><a href="mailto:Kathryn.Schwing@oipi.Virginia.gov">Kathryn.Schwing@oipi.Virginia.gov</a></td>
</tr>
<tr>
<td>Chris Wichman</td>
<td>804.786.2366</td>
<td><a href="mailto:Chris.Wichman@oipi.Virginia.gov">Chris.Wichman@oipi.Virginia.gov</a></td>
</tr>
</tbody>
</table>

- Sign up for updates on the website ([www.VTrans.org](http://www.VTrans.org))
- Like our Facebook Page ([www.facebook.com/VTransVirginia](http://www.facebook.com/VTransVirginia))
- Follow our Instagram Page ([www.instagram.com/VTransVirginia](http://www.instagram.com/VTransVirginia))
ADDITIONAL SLIDES - HANDOUTS
• E-Blast to public and stakeholder contacts
• Printed for distribution
• Available on website
What is the status of the Mid-Term Needs identified in VTRANS220? Will they be used in this Needs Identification process?

The Mid-Term Needs identified in VTRANS220 will be used in the VTRANS20 Needs Identification process. These Mid-Term Needs are based on VTRANS220’s comprehensive analysis of transportation needs and trends. The Needs Identification process will evaluate these Mid-Term Needs and build on them to identify new needs for the next planning cycle.

What are Urban Development Areas?

Urban Development Areas (UDA) are areas where significant growth is expected over the next 20 years. These areas are also areas of high vehicular demand and need for new transportation infrastructure. UDAs are designated by the Massachusetts Department of Conservation and Recreation (DCR) and the Massachusetts Department of Transportation (MassDOT). UDAs are designated based on population growth, employment growth, and transportation demand.

What are Corridors of Statewide Significance?

A Corridor of Statewide Significance (CSS) is a corridor that is significant for regional or statewide transportation needs. Corridors of Statewide Significance are designated by the Massachusetts Department of Transportation (MassDOT). UDAs are significant for regional or statewide transportation needs.

How will STARs and Arterial Preservation Studies be utilized for Mid-Term Needs Identification?

The STARs and Arterial Preservation Studies are utilized for Mid-Term Needs Identification to identify areas where significant transportation needs exist. These studies are conducted to identify areas where transportation improvements are needed to support economic development and improve mobility.

What are Mid-Term Needs?

Mid-Term Needs are transportation needs that are forecasted to occur between 2021 and 2040. These needs are identified through a comprehensive analysis of transportation trends and future development.

What are the Regional Networks?

The Regional Networks are comprised of four major regional networks: Eastern, Western, Northern, and Southern. Each Regional Network is responsible for identifying and addressing transportation needs and trends within its region.