

Section 8 – References



Glossary of Acronyms and Abbreviations

ADA	Americans with Disabilities Act of 1990
AQ	Air Quality
AM	Morning
APM	A. P. Moeller - Maersk Group (freight shipping company)
ARRA	American Recovery and Reinvestment Act of 2009
ATI	Air Terminal Interchange
Ave	Avenue
Blvd	Boulevard
°C	Celsius
CA	California
CBBT	Chesapeake Bay Bridge Tunnel
CCI	Critical Condition Index
CFI	Continuous Flow Interchange
CFR	United States Code of Federal Regulations
CH (CHE)	City of Chesapeake
CIC	Craney Island Connector
CIKR	Critical Infrastructure and Key Resources
CL	City/County Line
CMAQ	Congestion Mitigation and Air Quality [Funding Program]
CMP	Congestion Management Process
CO	Carbon Monoxide
CO ₂	Carbon Dioxide
COA	Comprehensive Operational Analysis
CSX	CSX Transportation Incorporated (Class I freight rail company)
CTAC	Citizens Transportation Advisory Committee
CTB	Commonwealth Transportation Board
D.C.	District of Columbia
DMV	Virginia Department of Motor Vehicles
DoD	Department of Defense

Dr	Drive
DRPT	Virginia Department of Rail and Public Transportation
DSF	Dedicated and Statewide Funds
EA	Environmental Assessment
EB	Eastbound
EIS	Environmental Impact Statement
EJ	Environmental Justice
E-W	East-West
EPA	United States Environmental Protection Agency
FAF-3	Freight Analysis Framework 3
FHWA	Federal Highway Administration
FONSI	Finding of No Significant Impact
FRA	Federal Railroad Administration
Ft	Fort
FTA	Federal Transit Administration
FTAC	Freight Transportation Advisory Committee
FY	Fiscal Year
GHG	Greenhouse Gases
GIS	Geographic Information Systems
GW	George Washington [Memorial Highway]
HC	Hydrocarbons
HHS	United States Department of Health and Human Services
HM	City of Hampton
HMOF	Highway Maintenance and Operating Fund
HOV	High Occupancy Vehicle Lane
HPMS	Highway Performance Monitoring System
HRBT	Hampton Roads Bridge-Tunnel
HRHIM	Hampton Roads Highway Incident Management Subcommittee
HRPDC	Hampton Roads Planning District Commission
HRT	Hampton Roads Transit [See TDCHR]
HRTO	Hampton Roads Transportation Operations Subcommittee
HRTPO	Hampton Roads Transportation Planning Organization
HSIP	Highway Safety Improvement Program

HSIPR	High-Speed and Intercity Passenger Rail
HTF	Highway Trust Fund (Federal)
Hwy	Highway
I-(#)	Interstate-(Number)
ICG	Interagency Consultation Group
IMS	Intermodal Management System
Int	Intersection
Intchg	Interchange
IRI	International Roughness Index
ITS	Intelligent Transportation Systems
JFCOM	United States Joint Forces Command
JRB	James River Bridge
KHA	Kimley Horn and Associates
LEP	Limited English Proficiency
Ln	Lane
LOS	Level of Service
LPO	Lead Planning Organization
LRTP	Long-Range Transportation Plan
MAX	HRT's Metro Area Express Bus Service
MLK	Martin Luther King Freeway
MMMBT	Monitor Merrimac Memorial Bridge Tunnel
Mph	Miles per hour
MPO	Metropolitan Planning Organization
MSA	Metropolitan Statistical Area
Multi	Multi-jurisdictional
N/A	Not applicable
NAAQS	National Ambient Air Quality Standards
NASA	National Aeronautics and Space Administration
NC	North Carolina
NEPA	National Environmental Policy Act
NHS	National Highway System
NHTS	National Household Travel Survey
NIPP	National Infrastructure Protection Plan

NIT	Norfolk International Terminal
NN	City of Newport News
NO _x	Nitrogen Oxides
NO ₂	Nitrogen Dioxide
NOR	City of Norfolk
NPS	National Park Service
NS	Norfolk Southern Corporation (Class I freight rail company)
NTD	National Transit Database
PE	Preliminary Engineering
Pkwy	Parkway
PM	Afternoon
PM _x	Ozone Particulate Matter
PNHMP	Peninsula Natural Hazard Mitigation Plan
POQ	City of Poquoson
POR	City of Portsmouth
PPP	Public Participation Plan
PPTA	Public-Private Transportation Act of 1995
RCTO	Hampton Roads Regional Concept of Transportation Operations
Rd	Road
RLRP	Hampton Roads Rural Long Range Transportation Plan
ROD	Record of Decision
ROW	Right of Way
RPM	Regional Performance Measures
RR	Railroad
RSA	Road Safety Audit
RSTP	Regional Surface Transportation Program[Funding Program]
Rte	Route
SAFETEA-LU	Safe, Accountable, Flexible, Efficient, Transportation Equity Act: A Legacy for Users
SHRHMP	South Hampton Roads Hazard Mitigation Plan
SIP	State Implementation Plan
SO ₂	Sulfur Dioxide

SOV	Single Occupancy Vehicle
STRACNET	Strategic Rail Corridor Network
STRAHNET	Strategic Highway Network
SRTS	Safe Routes to School
SSEPP	System Security and Emergency Preparedness Plan
St	Street
SU (SUF)	City of Suffolk
SYIP	Commonwealth Transportation Board Six Year Improvement Program
SYOIP	Commonwealth Transportation Board Six Year Operational Implementation Plan
TAC	Technical Advisory Committee
TAZ	Traffic Analysis Zone
TCM	Transportation Control Measure
TDCHR	Transportation District Commission of Hampton Roads [See HRT]
TDM	Transportation Demand Management
TDP	Transit Development Plan
TEU	Twenty-foot equivalent unit (standard cargo container)
TIGER	Transportation Investment Generating Economic Recovery
TIP	Transportation Improvement Program
TMA	Transportation Management Areas
TOC	Transportation Operations Center
TOS	TRAFFIX Oversight Committee
Tpke	Turnpike
TPS	Transportation Programming Subcommittee
Tr	Trail
TRIP	The Road Information Program
TTAC	Transportation Technical Advisory Committee
TTF	Transportation Trust Fund (Virginia)
TVP	Hampton Roads Regional Transit Vision Plan
UPWP	Unified Planning Work Program
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USDHS	United States Department of Homeland Security

USDOT	United States Department of Transportation
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
VA	Commonwealth of Virginia [Virginia]
VAHS	Virginia Department of Veteran Affairs and Homeland Security
VB	City of Virginia Beach
VBTES	Virginia Beach Transit Extension Study
VCC	Virginia Clean Cities
VCI	Virginia Council of Indians
VDCR	Virginia Department of Conservation and Recreation
VDEM	Virginia Department of Emergency Management
VDEQ	Virginia Department of Environmental Quality
VDGIF	Virginia Department of Game and Inland Fisheries
VDHR	Virginia Department of Historic Resources
VDOA	Virginia Department of Aviation
VDOF	Virginia Department of Forestry
VDOT	Virginia Department of Transportation
VMRC	Virginia Marine Resources Commission
VMT	Vehicle Miles Traveled
VOC	Ozone
VPA	Virginia Port Authority
VSHSP	Virginia Strategic Highway Safety Plan
VTRANS 2035	Commonwealth of Virginia Long Range Transportation Plan
WATA	Williamsburg Area Transit Authority
WB	Westbound
YOE	Year of Expenditure

Glossary of Terms

The following glossary of terms was compiled from an array of sources, which included the: Federal Highway Administration, Federal Transit Administration, Federal Railroad Administration, U.S. Department of Transportation, U.S. Department of Education, U.S. Department of Homeland Security, U.S. Department of Labor, Nashville Area MPO, Puget Sound Regional Council, Southern California Association of Governments, Tahoe MPO, Indianapolis Public Transportation Corporation, TriMet, Kalamazoo College, and Wikimedia Foundation. The HRTPO staff is responsible for the facts and the accuracy of the glossary's content.

Accessibility - The ability to get to any destination, measured by the availability of physical connections (roads, sidewalks, etc.), travel options, ease of movement, and nearness of destinations.

Activity Centers - Also known as centers, a defined focal area within a city or community that has a mix of housing, employment, retail and entertainment uses. It is pedestrian-oriented, which allows people to walk to different destinations or attractions.

Air Quality - Measure of the condition of air pollution.

Air Quality Conformity - An assessment of the compliance of transportation plans and programs with state air quality plans.

Allocated - Funding is budgeted to a project per VDOT's Six-Year Improvement Program.

American Recovery and Reinvestment Act of 2009 (ARRA) - Economic Stimulus package enacted by the 111th United States Congress in February 2009 and signed into law on February 17, 2009, by President Barack Obama. As it pertained to transportation, ARRA provided funds for transportation investment projects that were "shovel ready", to improve transportation infrastructure and create jobs.

Americans with Disabilities Act of 1990 (ADA) - Civil Rights law that prohibits discrimination in employment, transportation, housing choice, and other social services, based on disability.

At-Grade Crossing - A crossing of highways, railroad tracks, other guideways, and/or pedestrian walkways at the same level or grade.

Bikeway - Any road, street, path, or right-of-way that is specifically designated in some manner as being open to bicycle travel, either for

the exclusive use of bicycles or shared use with other vehicles or pedestrians.

Bottleneck - Point-specific locations or small corridors where traffic delay regularly occurs.

Busway - A special roadway designed for the exclusive use of buses.

Capital Costs - Costs of long-term physical assets, such as equipment, rights-of-way, stations, buildings, and vehicles, traditionally identified with public transportation investments.

Carpool - An arrangement in which two or more people share the use and/or costs, of traveling in privately owned automobiles between fixed points on a regular basis. (See also vanpool.)

Clean Air Act (CAA) - The federal Clean Air Act identifies "mobile sources" (vehicles) as primary sources of pollution and includes specific requirements in metropolitan areas and states where attainment of federal air quality standards is a problem.

Climate Change - Refers to the variation in the earth's global climate (or in regional climates) over time. It describes changes in the variability or average state of the atmosphere.

Commuter Rail - Short-haul rail passenger service operated within metropolitan and suburban areas.

Comprehensive Plan - A document that provides framework and policy direction to guide the future growth and development of a local jurisdiction

Compressed Work Week - Alternative work arrangement where a standard workweek is reduced to fewer than five days,

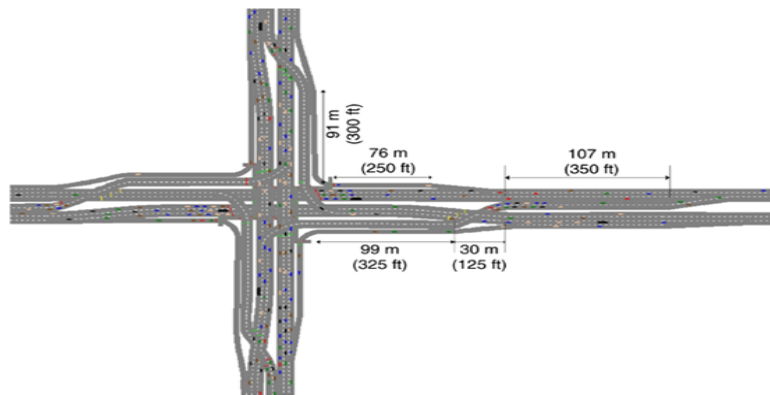
and employees make up the full number of hours per-week by working longer hours.

Congestion - A condition characterized by unstable traffic flows that creates stop-and-go movement on a transportation facility. Nonrecurring congestion is caused by actions such as special events, weather, and/or traffic crashes. Recurring congestion is caused by problematic facility design at a key location or constant excess volume compared with capacity.

Congestion Management Process (CMP) - A process conducted by MPOs for evaluating the level of congestion on the region's transportation system, and for identifying strategies which will reduce this congestion.

Congestion Mitigation and Air Quality (CMAQ) - Federal funding program conceived to support surface transportation projects and other related efforts that contribute air quality improvements and provide congestion relief.

Continuous Flow Intersection/Interchange (CFI) - An at-grade intersection that moves the turning vehicles, conflicting with the through-movements (to the left where traffic drives on the right, and vice-versa), out of the main intersection.



Continuous Flow Intersection (Source: FHWA)

Corridor - In planning, a broad geographical band that follows a general directional flow or connects major sources of trips. It may contain a number of streets, highways, transit lines, and routes.

Critical Infrastructure and Key Resources (CIKR) - The assets, systems, and networks, whether physical or virtual, so vital to the United States that their incapacitation or destruction would have a debilitating effect on security, national economic security, public health or safety, or any combination thereof.

Discretionary Funds - Any funds whose distribution is not automatic. Decisions on the distribution of discretionary funds are usually made by an agency or person in accordance with legal/regulatory criteria. Dedicated and Statewide Funds are an example of a discretionary fund.

Earmark - Legislative provision that directs approved funds to be spent on specific projects.

Environmental Impact Assessment (EA) - Assessment of the possible positive or negative impact that a proposed project may have on the environment, together consisting of the natural, social and economic aspects.

Environmental Impact Statement (EIS) - Document required by the National Environmental Policy Act for certain actions "significantly affecting the quality of the human environment".

Environmental Justice (EJ) - The fair distribution of costs and benefits, based on a concern for social equity. Environmental Justice helps to ensure that programs, policies, and activities that have adverse effects on communities do not affect historically disadvantaged populations disproportionately.

Environmental Protection Agency (EPA) - Federal agency charged with protecting human health and the environment, by writing and enforcing regulations based on laws passed by Congress.

Equity - In transportation, a measure of fairness among transportation users, and certain populations are not unfairly burdened by transportation improvements.

Federal Highway Administration (FHWA) - The agency of the U. S. Department of Transportation that funds surface transportation planning and programs, primarily highways.

Federal Railroad Administration (FRA) - The agency of the U. S. Department of Transportation that funds surface transportation planning and programs, primarily rail.

Federal Transit Administration (FTA) - The agency of the U.S. Department of Transportation that funds surface transportation planning and programs, primarily transit.

Finding of No Significant Impact (FONSI) - Decision rendered by the EPA based on environmental analysis and interagency review during the EA process, which finds a project to have no significant impacts on the quality of the environment.

Fiscal Constraint - Demonstration of sufficient funds (Federal, State, local, and private) to implement proposed transportation system improvements, as well as to operate and maintain the entire system, through the comparison of revenues and costs.

Fixed-Route Transit - Regularly scheduled service operating repeatedly over the same street or highway pattern on a determined schedule. HRT and WAT are the regional operators providing fixed-route transit service.

Flextime - Non-traditional work scheduling practice which allows full-time employees to choose their individual starting and ending times within certain limits.

Functional Classification - A hierarchical system of categorizing streets and roads on the basis of the way they are used, the volumes of traffic they carry, and the way they function within the context of the overall transportation system.

Functionally Obsolete - Bridges are those with deck geometry (e.g., lane width), load carrying capacity, clearance, or approach roadway alignment that no longer meet the criteria for the system of which the bridge is a part.

Geographic Information Systems (GIS) - A system of computer software, hardware and data to help manage, analyze and display information based on a geographical location, usually with maps.

Grade-Separated - The use of tunnels, bridges and other structures to separate levels on which roadway, railroad tracks, guideways and walkways intersect.

Greenhouse Gas - Components of the atmosphere that contribute to global warming, including water vapor, carbon dioxide, methane, nitrous oxide, and ozone. Human activities have added to the levels of most of these naturally occurring gases.

Greenways - Interconnecting paths designed to accommodate bicycle and pedestrian uses. Greenways link our natural areas and make them accessible to our communities. The East Coast Greenway is an example.

Guideway - In transit systems, a track or other riding surface (including supporting structure) that supports and physically guides transit vehicles specifically designed to travel exclusively on it.

Heavy Rail - An electric powered rail transit system that operates on a completely grade-separated right-of-way. Generally characterized by wide station spacing (1 to 2 miles apart), high average operating speeds, and greater capacity than light rail.

High-Occupancy Toll (HOT) Lanes - HOV lanes that also allow lower occupancy vehicles to gain access to the lanes by paying a toll.

High-Occupancy Vehicle (HOV) - A motor vehicle with two or more people traveling in it. Includes carpools, vanpools, and transit.

High-Occupancy Vehicle (HOV) Lanes - Lanes on heavily congested roadways that are used exclusively by carpools, vanpools, buses or any vehicle that transports multiple passengers.

High Speed Rail - Also known as Regional High Speed Rail, intercity passenger rail service with higher operating speeds (up to 150 m.p.h.) and limited stops. Used to link cities more than 100 miles apart.

Higher Speed Rail - Also known as Emerging High Speed Rail, intercity passenger rail service with higher operating speeds (up to 110 m.p.h.) and limited stops. Used to link cities more than 100 miles apart.

Highway Trust Fund (HTF) - Federal transportation fund that generates revenue from the federal gasoline excise tax.

Hours of Delay - The aggregate time lost by all travelers in the region on all facilities due to congestion, as measured by the time to reach destinations at posted speed limits versus traveling at a slower congested speed.

Infill Development - Projects that use vacant or underutilized land in areas that were previously developed.

Infrastructure - The physical structure of a community, such as roads, sidewalks, sewers, rail lines, and bridges.

Interagency Consultation Group (ICG) - A group involving the MPO, State and local air quality planning agencies, State and local

transportation agencies, EPA, and USDOT for the purpose of overseeing the air quality conformity process.

Intercity Passenger Rail - Also known as Conventional Passenger Rail, passenger rail service with operating speeds up to 79 m.p.h. and limited stops. Used to link cities more than 100 miles apart.

Intermodal - Accommodation of, or interconnection between various transportation modes for the movement of people and goods. In Hampton Roads, freight related accommodations or interconnections are associated with this term.

Intelligent Transportation Systems (ITS) - The application of advanced technology to current transportation problems, including incident detection, signal coordination, real-time information, and other technology.

Jurisdiction - An entity, such as counties and cities, with the power, right, or authority to interpret and apply the law. As appropriate, the term “jurisdiction” also includes federal and state agencies and federally recognized tribes.

Land Use - Activities and structures on the land, such as housing, shopping centers, farms, and office buildings.

Lane-mile - The length of a roadway segment multiplied by the number of lanes. A one-mile long, four-lane wide roadway segment would comprise four lane-miles.

Level-of-Service Standard (LOS) - A mechanism using letter grades from A to F used to determine if a given facility or service is operating efficiently.

Light Rail - An electric powered rail transit system that can operate on a variety of rights-of-way, ranging from mixed traffic on-street to fully grade separated. Generally characterized by narrow station spacing (every ½ to 1 mile), slow average operating speeds, and short train units.

Linguistically-Isolated Households - Also known as Limited English Proficient (LEP), households in which a language other than English is predominately spoken, and English proficiency is limited.

Long-Range Transportation Plan (LRTP) - A blueprint to guide the region’s transportation for the next 20+ years. Federal law requires the LRTP to be updated every four years (in areas that do not meet air

quality standards) to ensure that the plan remains current and effective at achieving the goals.

Low-Income Household - Households with incomes at or below 200% of the poverty level.

Maintenance Area - Any geographic region of the United States previously designated nonattainment per their air quality, and re-designated as in attainment with a plan to maintain and improve regional air quality.

Medical/Functional Needs Population - Persons with medical/functional needs are individuals with a physical or mental limitations that substantially limits one or more of the major life activities such as caring for one’s self, performing manual tasks, walking, seeing, hearing, speaking, breathing, learning, and working.

Metropolitan Planning Organization (MPO) - The organization required by the federal government, designated by states, and operated by local officials for developing transportation programs in urban areas of 50,000 or more people. The MPO for our region is the HRTPO.

Metropolitan Statistical Area (MSA) - Geographical region designated by the U.S. Office of Management and Budget, with a relatively high population density at its core and close economic ties throughout the area. Used for statistical purposes only.

Mixed-Use Development - Projects or districts that include residential, commercial, and business accommodations. Vertical mixed-use development refers to buildings that have multiple uses in a single structure, such as ground floor retail, offices, and residences. Horizontal mixed-use development refers to districts where zoning allows for different uses to be in adjacent buildings and complexes.

Mobility - The movement of people or goods throughout our communities and across the region. Mobility is measured in terms of travel time, comfort, convenience, safety and cost.

Mobility Odds Factor - Factor that determines the likelihood of one’s mobility, based on access to a transit stop and proximity to activity centers.

Mode- A particular form of travel (e.g., walking, bicycling, driving alone, carpooling or vanpooling, bus, train, ferry, or airplane).

Mode Split - A term that describes the relative number of people using various forms or modes of transportation. Frequently used to describe the percentage of people using private automobiles as opposed to the percentage using transit.

Multimodal - Accommodation or interconnection of various transportation modes for the movement of people and goods.

National Ambient Air Quality Standards (NAAQS) - Federal standards that set allowable concentrations and exposure limits for various pollutants. The EPA develops the standards in response to a requirement of the CAA.

National Environmental Policy Act of 1969 (NEPA) - U.S. environmental law that requires all federal agencies and their funding programs to prepare documentation containing statements of the environmental effects of proposed federal agency actions.

National Highway Construction Cost Index (NHCCI) - Price index that can be used both to track price changes associated with highway construction costs, and to convert current dollar expenditures on highway construction to real or constant dollar expenditures.

National Highway System (NHS) - Network of strategic highways within the United States, including the Interstate Highway System and other roads serving major airports, ports, rail or truck terminals, railway stations, pipeline terminals and other strategic transport facilities.

Network Gap - A missing connection to the connectivity of the transportation system.

Nonattainment Area - Any geographic area that has not met the requirements for clean air as set out in the Clean Air Act of 1990.

Non-motorized - Generally referring to bicycle, pedestrian and other modes of transportation not involving a motor vehicle.

Operating Costs - The sum of all recurring costs (e.g., labor, fuel) that can be associated with the operation and maintenance of a transportation system during a given period.

Ozone - An air pollutant that is a toxic, colorless gas which is the product of the reaction of hydrocarbons (HC) and oxides of nitrogen (NOx) in the presence of sunlight in the atmosphere. Automobile emissions are a primary source of the precursors of ozone.

Paratransit - Transit service that is scheduled or dispatched upon demand, providing “point-to-point” travel. Normally used in specialized applications with user eligibility limitations (e.g., elderly and/or handicapped) or where demand is not sufficient to support fixed route service.

Park-and-Ride - A system that provides parking for suburban commuters at an outlying terminus of a bus or rail line.

Peak Hour - Time of day during which congestion on each component of the transportation network is at its highest.

Peak Travel Period - The period of the day during which the maximum amount of travel occurs. It may be specified as the morning (A.M.) or afternoon or evening (P.M.) peak. Generally from 6–9 a.m., 4–7 p.m.

Performance Monitoring - A process of comparing actual performance against policies set by the planning process. It includes conducting the data collection and calculation procedures, and reporting the results on a specified regular and ongoing basis.

Person Trip - Trip made by a person from one location to another whether as a driver, passenger or pedestrian.

Preliminary Engineering - Analysis and design work to produce construction plans, specifications and cost estimates.

Preservation - Involves the timely application of carefully selected treatments to maintain or extend an asset's service life.

Pricing - A strategy for charging users of transportation systems. It may be used to manage demand for the facility, cover costs, and/or achieve other policy objectives.

Prioritization - The process to identify an order to fund transportation investments, based on criteria measuring the project against desired goals.

Producer Price Index (PPI) - An index that measures the average change over time in the selling prices of materials.

Public Participation Plan (PPP) - A guide for citizens to understand HRTPO's public participation approach and how one might become involved in shaping the future of transportation in Hampton Roads.

Public Private Partnership (P3) - Contractual agreement between a public agency and a private sector entity that allows for greater private sector participation in the delivery and financing of transportation projects.

Public Private Transportation Act of 1995 (PPTA) - Virginia's legislative framework authorizing private entities to enter into agreements with state, local governments, and other public entities to construct, improve, maintain, and operate transportation facilities.

Public Transportation - Regular transportation service by bus, rail, paratransit, van, airplane or ship, offered by a public sector operator.

Ramp Metering - Traffic signal control on an entry ramp to a freeway for regulating vehicle access.

Record of Decision (ROD) - Public document that signals formal federal approval of an Environmental Impact Statement (EIS) or Environmental Assessment (EA) concerning a proposed transportation project.

Regional Performance Measures - The set of evidence that shows progress toward, movement away from, or static state in policy implementation or policy achievement. A quantitative measure of how well an activity, task or function is being performed. In transportation systems, it is usually computed by relating a measure of service output/use to a measure of service input/cost.

Regional Surface Transportation Program (RSTP) - Federal funds designated to an MPO by the Surface Transportation Program.

Ridesharing - A process by which people who are interested in carpooling or vanpooling are linked with others based on the origin and destination of their commutes.

Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) - The federal surface transportation program for highways, highway safety, and transit for the five-year period between 2005-2009. The core provisions of the program address safety, equity, innovative finance, congestion relief, mobility, efficiency, environmental stewardship, and environmental streamlining. The program authorizes \$284 billion of federal funding through 2009. Without a more current transportation program, SAFETEA-LU has been repeatedly extended, currently through March of 2012 at the time of this publication.

Single-Occupant Vehicle (SOV) - A motor vehicle occupied by the driver only.

Six Year Improvement Program (SYIP) - The Commonwealth Transportation Board's (CTB) program for allocating funding for rail, public transportation, commuter assistance, bicycle, pedestrian, interstate and primary highway transportation projects over the next six years.

State Implementation Plan (SIP) - A blueprint of how nonattainment areas will meet national ambient air quality standards. Under federal law, the LRTP must conform to the SIP.

Strategic Highway Network (STRAHNET) - A network of highways that are important to the United States' strategic defense policy and which provide access, continuity and emergency capabilities for defense purposes. STRAHNET includes both Interstate highways as well as other non-Interstate primary routes leading into and out of strategic locations.

Strategic Rail Corridor Network (STRACNET) - An interconnected and continuous rail network critical for movement of essential military equipment to ports as well as defense installations located around the country.

Structurally Deficient - Structures with elements that need to be monitored and/or repaired. Structurally deficient bridges typically require maintenance and repair and eventually need to be rehabilitated or replaced to address deficiencies. Structurally deficient bridges, however, are not necessarily unsafe, and bridge inspectors will close or impose limits on any bridge that is unsafe.

Surface Transportation Program (STP) - Federal program provides flexible funding that may be used by States and localities for federally-funded transportation projects.

Sustainability - Sustainability is commonly defined as "meeting the needs of the present without compromising the ability of future generations to meet their own needs." Encompasses environmental, economic, social and institutional factors.

System Management - Increasing travel flow on existing facilities through improvements such as ramp metering, signal synchronization, and removal of on-street parking. Improvements typically have a low

capital cost, require little major construction, and can be implemented in a relatively short time frame.

Telecommuting - Working from home or a satellite location by the use of an electronic linkup with a central office.

TEU - Twenty-foot equivalent unit, a unit of cargo capacity.

Title VI - Section of the Civil Rights Act of 1964 that states "No person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance."

Traffic Analysis Zone (TAZ) - Unit of geography most commonly used in conventional transportation planning models.

Traffic Signal Preemption - system that allows the normal operation of traffic lights to be taken over to allow emergency vehicles or transit to have priority right-of-way through an intersection.

Transit - Passenger service provided to the public along established routes. Paratransit is a variety of smaller, often flexibly scheduled and routed transit services serving the needs of persons that standard transit would serve with difficulty or not at all.

Transit Development Plan (TDP) - Transit operator plans that help transit operators improve their efficiency and effectiveness by identifying the need and required resources for modifying and enhancing services provided to the general public, and also helps operators effectively execute planning, funding and implementation of public transit services.

Transit-Oriented Development - The development of housing, commercial space, services, and job opportunities in close proximity to public transportation. Such development is intended to reduce dependency on automobiles, and to better link residences to jobs and services.

Transit Service Frequency - The number of times transit service is provided to a location within a period of time. Usually denoted as the number of minutes between service.

Transit Stop Coverage - The area within a set distance, that users can access transit. The standard distance is half a mile from transit stops.

Transportation Control Measure (TCM) - Project, program, or action identified in a State Implementation Plan that will aid in the elimination or reduction of the severity in the number of violations of national ambient standards.

Transportation Demand - The quantity of transportation desired by users.

Transportation Demand Management (TDM) - The concept of managing or reducing travel demand rather than increasing the supply of transportation facilities. It may include programs to shift demand from single-occupant vehicles to other modes such as transit and ridesharing, to shift demand to off-peak periods, or to eliminate demand for some trips.

Transportation Improvement Program (TIP) - The multi-year program of transportation projects for highways, transit and other modes. The Regional TIP consists of projects and programs drawn from the Long-Range Transportation Plan, as well as from local plans and the transportation programs of other agencies in the region. The state also maintains a TIP, known as the STIP (a compilation of the TIPs for the metropolitan areas, plus transportation project information for rural areas of the state).

Transportation Investment Generating Economic Recovery (TIGER) - Supplementary Discretionary Grants for a National Surface Transportation System, authorized by the American Recovery and Reinvestment Act of 2009.

Transportation Management Areas (TMA) - An area designated by the Secretary of Transportation, having an urbanized area population of over 200,000, or upon special request from the Governor and the MPO designated for the area.

Transportation Operations Center (TOC) - Operations center that uses advanced technology to monitor traffic conditions, keeping motorists informed of real-time weather and road conditions.

Transportation Trust Fund (TTF) - Virginia's transportation fund that generates revenue from the state gasoline excise tax.

Unified Planning Work Program (UPWP) - A plan, developed by HRTPO, that guides all transportation planning activities in the HRTPO region.

Vanpool - An organized ridesharing arrangement in which 7 to 15 people travel together on a regular basis in a van. The van may be publicly owned, employer owned, individually owned, leased, or owned by a third party. Expenses are shared and there is usually a regular volunteer driver. (See also carpool).

Vehicle Miles Traveled (VMT) - A measurement of the total miles traveled by all vehicles for a specified time period. For transit, the number of vehicle miles operated on a given route or line or network during a specified time period.

Vehicle Trip - Trips made by vehicles, including drivers and passengers. A bus with driver and passengers is one vehicle trip.

Visualization - Techniques that include sketches, drawings, artist renderings, physical models and maps, simulated photos, videos, computer modeled images, interactive GIS systems, GIS based scenario planning tools, photo manipulation and computer simulation to convey complex transportation plans, policies, and programs to the public.

Year of Expenditure (YOE) - A unit of cost that accounts for inflation through the development, construction, and opening of a project.

Zero-Vehicle Household - Households without access to cars

Supporting Documentation

Bicycle and Pedestrian

- [VDOT State Bicycle Policy Plan](#)
- [VDOT Safe Routes to School Program](#)
- [Virginia Beach Bikeways and Trails Plan](#)
- [Isle of Wight Pedestrian and Bicycle Facilities Master Plan](#)

Bridges and Tunnels

- [Regional Bridge Study](#)
- [Elizabeth River Crossings Study](#)

Congestion

- [Hampton Roads Congestion Management Process 2010 Update](#)

Environmental Justice

- [Location of Non-Drivers in Hampton Roads](#)
- [Non-Driver Residential Locations at the Census Block Level by Vehicle Availability](#)

Highways

- [Oyster Point Transportation Study](#)
- [Holland Road Corridor Study](#)
- [North Main Street Corridor Study](#)
- [Bridge Road Corridor Study](#)
- [Nansemond Parkway Corridor Study](#)
- [Pruden Boulevard Corridor Study](#)
- [Carolina Road Report](#)
- [Route 460 Corridor Study](#)

Intermodal

- [Intermodal Management Systems: Regional Freight Study](#)

- [Traffic Impact of a Hypothetical Inland Port in Hampton Roads Study](#)
- [The Virginia Port Authority 2040 Master Plan](#)

Land Use

- [Regional Land Use Research Scan](#)
- [Regional Land Use Map Report](#)
- [Non-Driver Opportunity Analysis: The Strategic Co-Positioning of Transportation, Activity Locations, and Housing to Improve Non-Driver Mobility in Hampton Roads](#)

Long Term Planning

- [Hampton Roads 2000 & 2034 Socioeconomic Data by TAZ](#)
- [Hampton Roads 2035 Rural Long-Range Transportation Plan \(Available January 2012\)](#)
- [Hampton Roads 2009 Socio-Economic Data by TAZ](#)
- [Prioritization of Transportation Projects: Project Evaluation and Scoring](#)
- [VTRANS 2035 Long-Range Transportation Plan](#)
- [VDEQ State Implementation Plan](#)

Operations

- [Hampton Roads Highway Incident Management \(HIM\): Regional Concept for Transportation Operations \(RCTO\)](#)
- [Hampton Roads Regional Travel Delay Study](#)
- [Coliseum Central Special Events Management Plan Study](#)
- [Regional Safety Study - General Crash Data and Trends 2011 Update](#)
- [Hampton Roads ITS Strategic Plan](#)

Public Involvement

- [HRTPO At-a-Glance](#)
- [HRTPO Citizens Guide \(Print Only\)](#)
- [HRTPO Public Participation Plan](#)
- [The Present and Future of Transportation in Hampton Roads: Results of a Series of Focus Groups among Hampton Roads Residents](#)

Rail

- [Richmond/Hampton Roads Passenger Rail Project: Tier I Draft Environmental Impact Statement](#)
- [Southeast High Speed Rail: Tier I Environmental Impact Statement](#)
- [Southeast High Speed Rail: Tier II Draft Environmental Impact Statement](#)
- [Hampton Roads High-Speed and Intercity Passenger Rail: Preliminary Vision Plan](#)
- [Hampton Roads Strategic Long Term High-Speed and Intercity Passenger Rail Phase 1\(B\): Blueprint Study](#)

Short Term Planning

- [Hampton Roads CMAQ/RSTP Project Selection Process](#)
- [2010 HRTPO State of Transportation](#)
- [Hampton Roads 2012-2015 Transportation Improvement Program](#)
- [Commonwealth Transportation Board 2012-2017 SYIP](#)
- [VDOT Statewide Transportation Improvement Program](#)
- [Hampton Roads Military Transportation Needs Study](#)

Transit

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- [Hampton Roads Regional Transit Vision Plan](#)
- [Transit Shuttle Projects: Literature Review and Best Practices](#)

- [Williamsburg Area Transit Authority: Transit Development Plan FY 2010-2015](#)
- [Comprehensive Operations Analysis for Hampton Roads Transit](#)
- [Hampton Roads Transit: Service and Schedule Efficiency Review](#)
- [Hampton Roads Transit: Transit Development Plan FY 2012-2017](#)

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