Items for public review:

DRAFT Amended FY 2017-2020 Transportation Improvement Program (TIP)

- The TIP funds the region's transportation projects
- Under consideration for Council adoption in September 2016
- Contains \$2.3 billion in road, transit, rail, multimodal & bicycle/pedestrian projects
- Contains 6% more funding than the TIP adopted in March 2016
- Five new projects:
 - BR 294 on Walther Rd
- BR 501 on SR 141 Southbound Slope Stabilization on Mill Creek Rd
- BR 302 and BR 304 on SR 9 Extension of I-495 Lane at I-95
- New SEPTA Payment Technology

Revised Air Quality Conformity Analysis

Who is WILMAPCO?

WILMAPCO (Wilmington Area Planning Council) is the metropolitan planning organization (MPO) for Cecil County, Maryland and New Castle County, Delaware. As the MPO, we are required by the federal government to bring local government, state transportation agencies and the public into the transportation decision making process. A range of stakeholders come together through WILMAPCO to develop a long range Regional Transportation Plan (RTP) and the Transportation Improvement Program (TIP), as well as the Congestion Management System (CMS) and Regional, Corridor and Community Studies.

TIP Development Process

Timeline for the FY 2017-2020 TIP

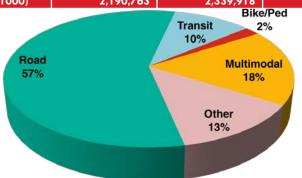
<u>2015</u>	
April	 Technical Advisory Committee (TAC) prioritizes project submissions Air Quality Subcommittee (AQ) reviews submissions
May	 Council approves prioritized project list for submission to DOTs
December	 AQ/TAC review of draft TIP and Air Quality Conformity
<u>2016</u>	
January	TIP released for public comment January 19-March 2
February	 AQ (Feb. 11)/TAC (Feb. 18)/Public Advisory Committee (PAC) (Feb. 29) recommendation for adoption Public Workshop – February 24, 4 -7 p.m.
March	Revise TIP based on public commentsCouncil adoption of TIP (March 10)
June	 Delaware FY 2017 Bond Bill approved, provides state funding match for projects
July	TIP amendments released for public comment July 25- September 6
August	 AQ (8/11), TAC (8/18), PAC (9/22) recommendation for adoption
September	Public Workshop – August 31, 4-7 p.m., Newark Free Library Revise TIP based on public comments Council adoption of amendments (September 8)

Note: WILMAPCO also modifies and amends individual projects in the TIP periodically throughout the year.

Transportation Improvement Program Summary

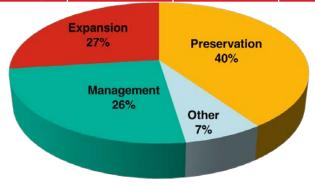
The TIP is the regionally agreed upon 4-year list of priority transportation projects, as required by federal law (FAST). The TIP must list all projects that intend to use federal funds, along with all non-federally funded projects that are regionally significant. We also include other State funded capital projects. The projects include bicycle, pedestrian, ITS, and freight related projects, as well as the more traditional highway and public transit projects.





- Bike/pedestrian Walking and cycling transportation
- Multimodal—Serves cars, transit, freight, pedestrians and bicycles in a balanced way
- Other—Includes aeronautics, port, contingency funds, environmental, equipment, planning, etc.
- Road-Exclusively for roads and highways
- Transit-Bus transit, passenger rail, or paratransit

FUNDING BY	Approved 3/2016	Draft 7/2016 FY	Draft %	Percent
CATEGORY	FY 2017-20	2017-20	Cat.	Change
Preservation	880,126	944,740	40%	7%
Other	160,230	169,435	7%	5%
Management	532,912	594,696	25%	10%
Expansion	617,496	631,048	27%	2%
Total (\$s x 1000)	2,190,763	2,339,918		6%



- Preservation Maintain an existing facility or service
- Management Enhance existing facility or service to sustain an acceptable level of service
- Expansion New or expanded services and infrastructure
- Other--Engineering & contingency, education & training, environmental program and planning

Funding by Source

- Delaware/Maryland funds from fuel taxes, tolls, motor vehicle and other fees, & bonds.
- Federal funds are provided from the US Highway Trust Fund which is funded through the federal gas tax.
- Other funding comes from local funds, developer contributions, toll bonds, and grants.

\$940 million Delaware/Maryland 40%

\$1,193 million federal 51%

\$207 million other 9%

Funding by Location

The TIP document is grouped by Cecil County, New Castle County, and Delaware Statewide. Delaware Statewide projects are those that without specific funding for New Castle County.

Cecil County 5%

New Castle County 48%

Delaware Statewide 47%

How is the TIP created?

The TIP is prepared by WILMAPCO in cooperation with the public and local transportation and land use agencies.

Broad input is crucial since the TIP identifies regional priorities for how our federal, state and local transportation funding is spent.



Projects come from many sources. Many are drawn from transportation plans developed by WILMAPCO and our state, county and local partners.

WILMAPCO assesses project ideas to determine if they are affordable based on expected funding and if they help to improve our air quality.

Regional Transportation Plan (RTP)

Every 4 years, WILMAPCO updates the plan for achieving our region's transportation goals during the next 20+ years



The RTP has three Regional Goals: 1. Improve Quality of Life; 2. Efficiently Transport People; & 3. Support Economic Growth, Activity and Goods Movement. Each goal has next step actions recommended to help achieve it. The RTP also lists specific projects aimed at meeting future needs. Projects are either "financially reasonable" reflecting what we can afford, or "aspirations" referring to good ideas without sufficient funding.

Projects that preserve existing infrastructure and address safety needs have the greatest priority.

Prioritize project list: Because identified project needs exceed available funding, projects are scored and prioritized by WILMAPCO Council

Draft TIP: WILMAPCO seeks feedback on draft projects

Public & Agency

Comments

The TIP is changed as needed based on feedback from the public and WILMAPCO agencies.

Final TIP

Amend as needed: Throughout the year, the TIP is adjusted to reflect changes in costs and scope.

Policies & Actions: Local and regional planning & analysis supports achieving the RTP goals. Analysis is used to rank projects.

Prioritization criteria scoring

- Air quality: Reduce emissions and increase access to alternatives to driving alone
- Environmental & transportation justice: Enhance environment in areas with high percentage of low-income, minority, zero-car households, elderly, or disabled populations
- Safety: Address high crash locations
- Congestion: Address congested corridors and intersections
- Pedestrian Priority: Address where people are most likely to walk
- Freight: Support major freight routes and eliminate bottlenecks
- Economic development: Support locations identified for development
- Funding contribution: Local/private commitment through funding support

What is the TIP?

The TIP is the agreed upon list of specific priority projects.

The TIP lists all projects for which federal funds are anticipated, along with non-federally funded projects that are regionally significant. The TIP represents the transportation priorities of the region and is required by federal law. The list is multimodal; in addition to the roadway and transit projects, it includes bicycle, pedestrian, and freight projects.

The TIP shows estimated costs and schedule by project phase.

The TIP lists specific projects, and also documents the anticipated schedule and cost for each project phase (project development/planning, preliminary engineering, right-of-way acquisition, and construction). Inclusion of a project phase in the TIP means that it is seriously expected to be implemented during the TIP time period.

The TIP implements the Regional Transportation Plan.

Regionally significant projects must be drawn from the region's long range plan and all projects in the TIP must help implement the goals of the plan. The long range plan, required by federal law, is the document which helps direct transportation and land use decisions over the next 20-years. The TIP represents the translation of recommendations from WILMAPCO's long-range transportation plan, the 2040 RTP, into a short-term program of improvements.

The TIP covers 4 years and is updated annually.

The TIP may be changed after it is adopted. Under the provisions of federal law and regulation, the approved TIP can be amended to add or delete projects, advance or delay projects, and accommodate cost and phase of work changes or major scope changes to a project. A public comment period will occur before any major amendments are approved.

The TIP is financially constrained.

The list of projects in the TIP must be financially constrained to the amount of funds that are expected to be available. To add projects to the TIP, others must be deferred to maintain this financial constraint. As a result, the TIP is not a "wish list"; competition between projects for a spot on the TIP clearly exists.

The TIP is air quality conforming.

The Clean Air Act Amendments of 1990 require that all transportation plans, programs and projects conform to state plans to attain air quality standards. A TIP is said to conform if it is drawn from a plan which meets the standards as determined by an emissions analysis. That is, if the regionally significant projects contained in a TIP are a subset of the regionally significant projects in the conforming transportation plan, the TIP conforms without the need for a separate emissions analysis.

The TIP is NOT a final schedule of project implementation.

The time frame shown in the TIP is the "best estimate" at the time of TIP development, which is six to nine months prior to the beginning of the first fiscal year of the TIP period. Projects quite often cannot maintain that schedule and get reprogrammed to later years.

The TIP is NOT a guarantee of project implementation.

Unforeseen problems may arise, such as engineering obstacles, environmental permit conflicts, changes in priorities, and additional financial constraints. These problems can slow a project, cause it to be postponed, or even dropped from further consideration.

Prioritization Process

- Created to provide a quantitative method to compare projects proposed for our Transportation Improvement Program (TIP) and Regional Transportation Plan (RTP) using measurable criteria
- Criteria based on the goals of our long-range RTP
- Process was adopted by WILMAPCO Council on May 11, 2006
- Ranked projects get submitted to DelDOT/MDOT for use in their statewide process

STEP 1: Apply screening criteria

- Is project consistent with the Regional Transportation Plan and local, county and state transportation plans and land use plans?
- If not, project should not be ranked or plan amendments should be made prior to ranking

STEP 2: Staff calculates technical score

- Staff calculates a score for each project based on the goals and objectives of the RTP
- Criteria are designed to be objective measures using data available to WILMAPCO

STEP 3: TAC review

 Technical Advisory Committee (TAC) reviews technical scoring for accuracy and prepares comments for Council consideration

STEP 4: WILMAPCO Council ranks submissions

Council considers:

- Technical score
- TAC comments
- Cost effectiveness
- Urgency of project
- Other considerations

Goals and Scoring Criteria

Improve Quality of Life

Air Quality: Expected impact to air pollution based on project types.

Environmental Justice: Project enhances environment in location with high percentage low-income or minority residents

Safety: Project addresses high crash location

Efficiently Transport People

Congestion: Project addresses congested area, with additional points awarded based on:

- Average Annual Daily Traffic
- Transit Use

Transportation Justice: Project improves mobility and eases access to transit and other transportation choices for zero-car households, elderly and persons with disabilities.

Pedestrian Priority: Project supports areas with greater use of walking.

Support Sustainable Economic Development and Goods Movement

Freight: Project supports major freight routes.

Economic Development: Project supports economic development including access to brownfields, major employment centers, and existing communities based on Delaware State Strategies and Maryland Priority Funding Areas.

Funding Contribution: Local and/or private commitment demonstrated through funding contribution.

Congestion Management

System (CMS)

Federal guidelines prohibit projects that increase capacity for single occupant vehicles unless the project comes the WILMAPCO analysis of congestion in the region—the CMS. Our CMS serves to:

- Measure multi-modal transportation system performance
- Identify the causes of congestion
- Assess alternative actions
- Implement cost-effective actions
- Evaluate the effectiveness of implemented actions

Using a "Summary-Style" approach, the CMS is a streamlined, data-oriented summary that serves as a resource for use in planning and selection of projects for the TIP. The report contains five sections:

SECTION 1: Congestion Performance

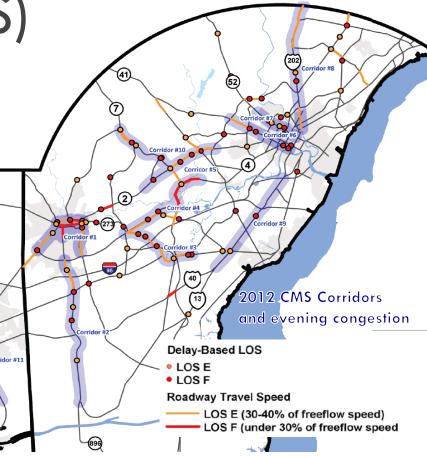
Measures—A review annual performance measure data and the determination of the most congested locations based on a regional analysis

SECTION 2: Intersection Operational Analysis—

Detailed analysis to determine if a deficient intersection is suffering from a signal timing issue or has it truly reached a level of volume in which it requires more physical, on-road improvements

SECTION 3: Strategy Evaluation—Identification (by consensus) congested corridors, perform a detailed analysis of each corridor and determine which mitigation strategies are feasible

SECTION 4: System Monitoring—Track congestion trends and changes to transportation characteristics over time **SECTION 5:** Data Collection & Inventory—A display of ongoing data collection activities that relate to congestion.



CMS Corridor	Project Name
#1	Elkton Road: Casho Mill Rd to Delaware Ave, Reconstruction, Improve Intersection
#1	Elkton Road: MD Line to Casho Mill Rd, Reconstruction, Intersection Improvements
#1	Pomeroy Trail, Construction of Bicycle & Pedestrian Pathway
#1, 4, 6	Third Rail Track Expansion, Newark to Wilmington
#2	US 40 and 896 interchange - Grade Separated Intersection
#3	Road A/SR7, Widening & reconfiguration of intersections
#3	SR 7: Newtown Road to SR 273, Widen from 2 to 4 lanes
#6	S Union Street, SR 2: Railroad Bridge to Sycamore St, Sidewalk & Curb Replacement
#6	Wilmington Riverfront
#6,7,8	Wilmington Signal Improvements, Phase III
#8	I-95 and US 202 Interchange, Widening of Ramp

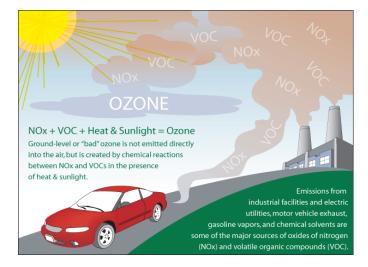
Air Quality Conformity

In order to receive federal funding for transportation projects, we must show that our planned projects do not worsen air emissions. A recent analysis was completed in step with the FY 2017 -20 TIP and amended 2040 RTP for New Castle County and Cecil County.

In the conformity analysis, we test planned transportation projects, forecasted demographics, and known technological upgrades in the vehicle fleet against Delaware and Maryland's established on road transportation-related emission budgets. The good news is that we passed all required tests. Indeed, ozone and particulate emissions have been falling steadily for the last several decades, and are projected to continue to do so through 2035.

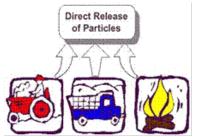
Like many other metropolitan regions in the USA, however, we predict an increase in these emissions as we near 2040. This is attributable to the implementation of known emission reduction technologies and our ever-increasing Vehicle Miles Traveled (VMT). Checking VMT growth through better land-use decisions and promoting alternative transportation would lower emissions now and in the long-term. This would also stifle our rising greenhouse gas emissions which contribute to global warming, and reduce our overdependence on oil.

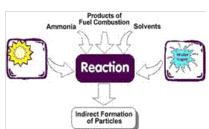
Ozone formation & impacts



Breathing ozone can trigger a variety of health problems including chest pain, coughing, throat irritation, and congestion. It can worsen bronchitis, emphysema, and asthma. Ground level ozone also can reduce lung function and inflame the linings of the lungs. Repeated exposure may permanently scar lung tissue. Plants and wildlife are also at risk because high ozone levels can stunt plant growth and damage leaves.

Fine particulate formation & impacts





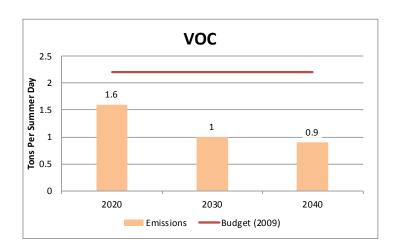
Irritating the membranes of the respiratory system, particulate matter can result in increased respiratory problems and disease, decreased lung function, alterations of the body's defense systems, and early death. Particulates can also cause reduced driver visibility (haze), cause harm to the natural environment by settling into water, and stain monuments and buildings.

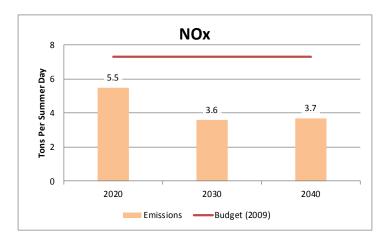


Conformity Analyses

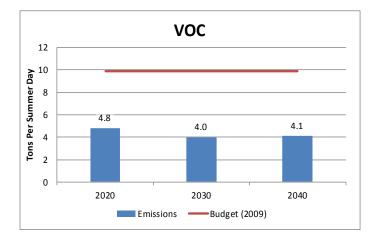
New Castle and Cecil Counties are in nonattainment for ozone; New Castle County is in maintenance for fine particulate matter (PM2.5). These graphs show that the planned transportation system meets all applicable emissions budgets.

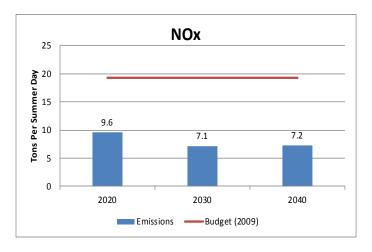
Cecil County

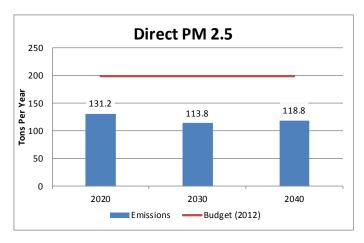




New Castle County







Environmental Justice

Environmental Justice (EJ) entails the fair treatment of people from all races, cultures, and incomes regarding the development of environmental laws, regulations, and policies. An outgrowth of Title VI of the Civil Rights Act of 1964, EJ can primarily be thought of as measures ensuring the non-discriminatory distribution of federal funds.

2013 EJ Report

- Refines EJ area identification process
- Systems analysis: food deserts, bus access, project spending
- EJ public opinion survey

2015 Transportation Justice (TJ) Report

- Extension of EJ
- Delineates clusters of seniors, disabled and zero-car homes
- Connectivity analyses: destinations, adult housing
- TJ public opinion survey



Current EJ Initiatives

- South Wilmington Planning Network
- Urban Bike Project Support
- Delaware Hispanic Commission

