

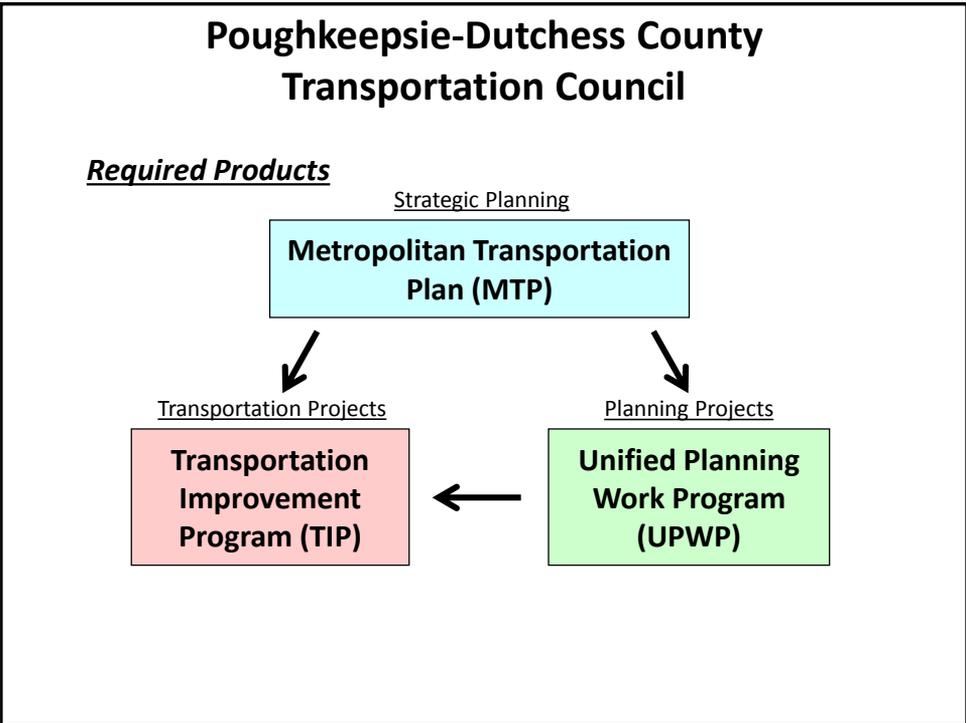
FINAL DRAFT

Moving Dutchess 2

The 25-year Transportation Plan
for Dutchess County

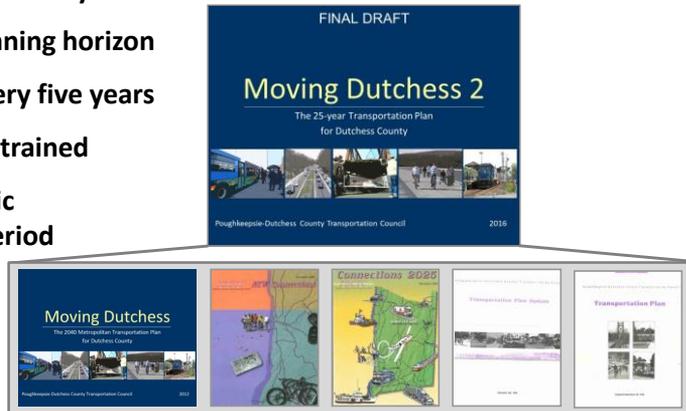


Poughkeepsie-Dutchess County Transportation Council 2016



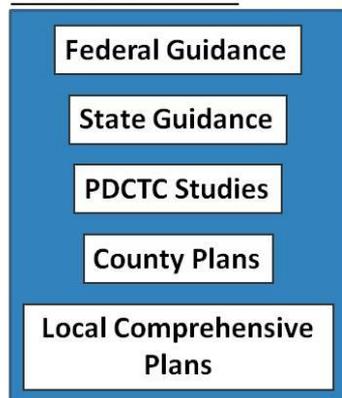
Metropolitan Transportation Plan

- 6th long-range transportation plan
- Identifies short and long-range transportation goals and objectives
- Recommends projects and policies to improve transportation safety and preserve the system
- 25-year planning horizon
- Updated every five years
- Fiscally constrained
- 30-day public comment period

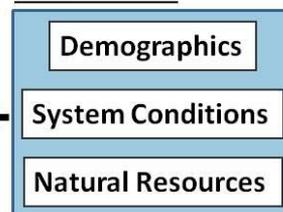


Moving Dutchess 2 Process

Literature Review



Data Review



Outreach

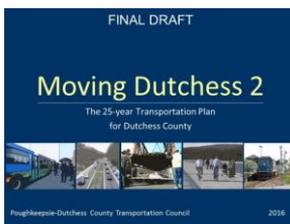


Moving Dutchess 2 Goals

1. Maintain highways and bridges in a **state of good repair**.
2. Improve **safety**; reduce transportation-related fatalities, injuries, and property damage.
3. Maintain the **transit** system in a state of good of repair; increase ridership.
4. Reduce **traffic congestion** and increase travel time reliability.
5. Increase **bicycling and walking**.
6. Reduce transportation related impacts to the **environment**.
7. Increase **carpooling** and **vanpooling**.
8. Improve transportation **security**.
9. Increase **public participation**.
10. Improve **delivery** of federally funded transportation projects.

Moving Dutchess 2 Chapters

1. Introduction
2. Federal, State, & Local Guidance
3. Regional Perspective
4. Demographic Overview
5. Transportation & Resource Overview
6. Planning Area Overviews
7. Performance Monitoring
8. Recommendations & Financial Plan

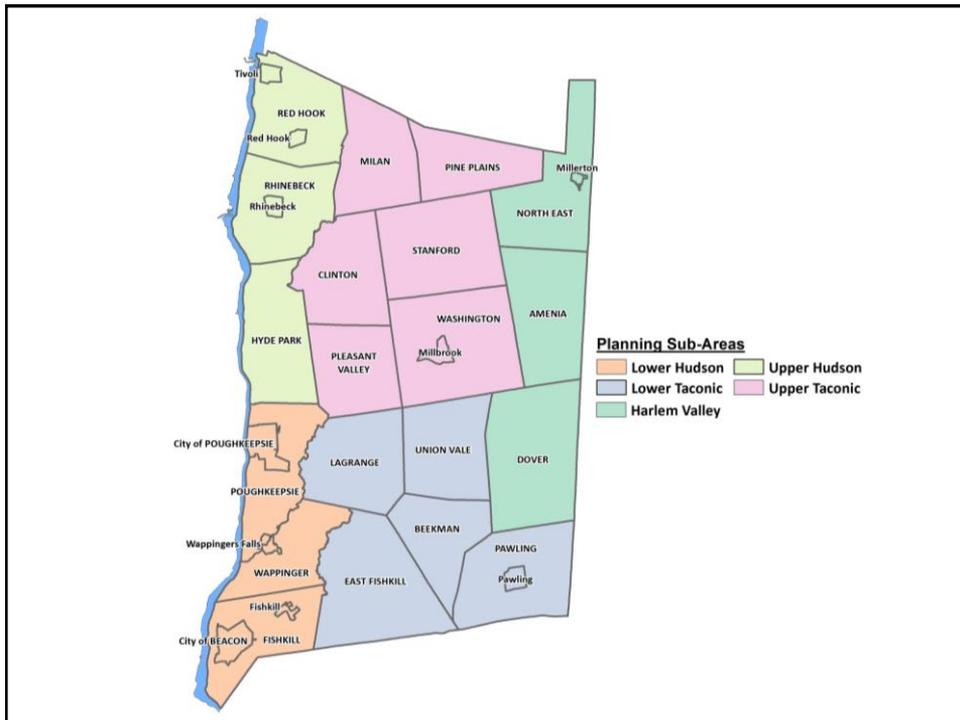
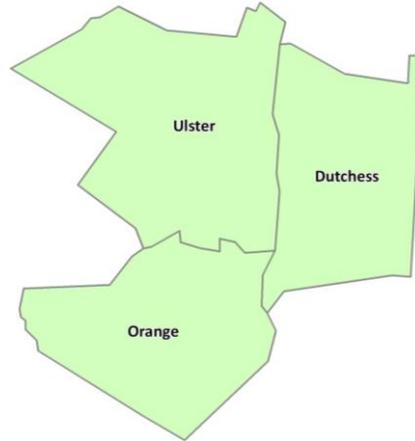


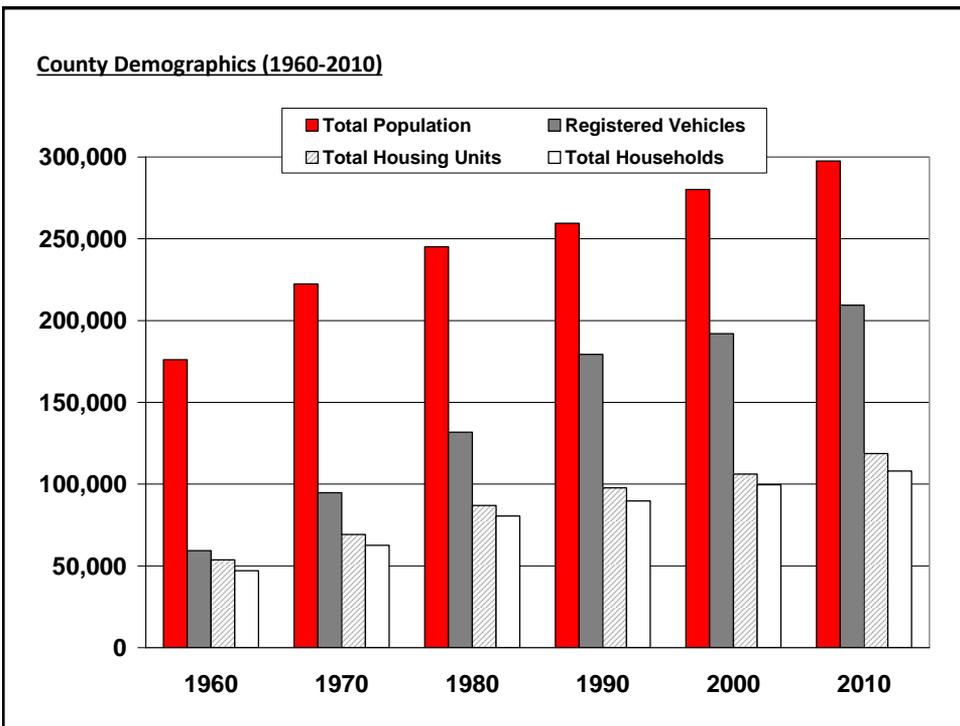
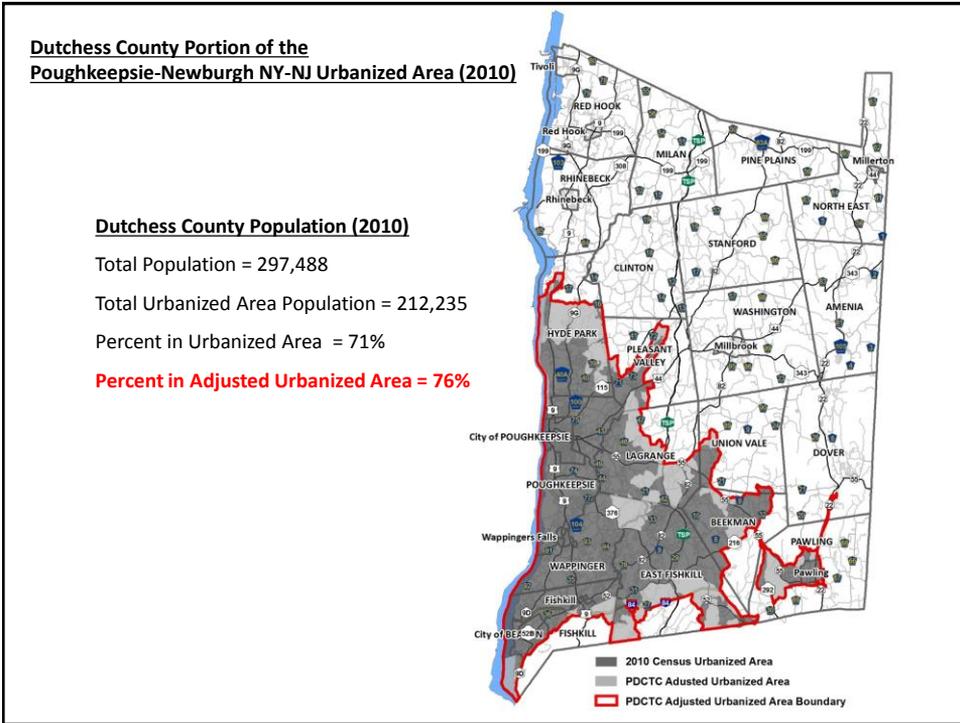
**March 24, 2016
Council Approval**

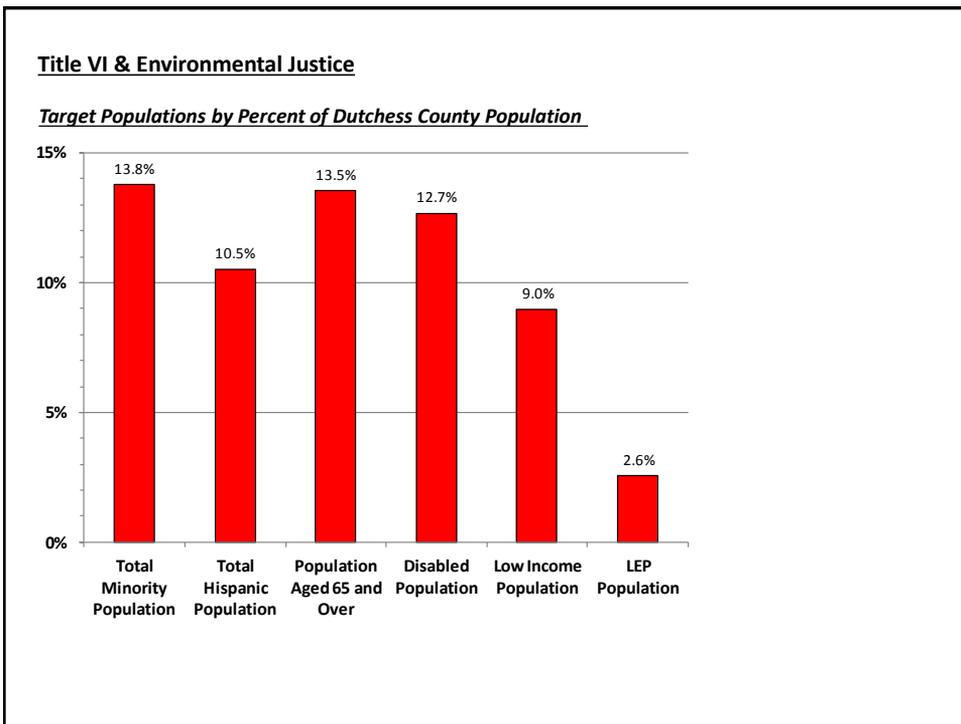
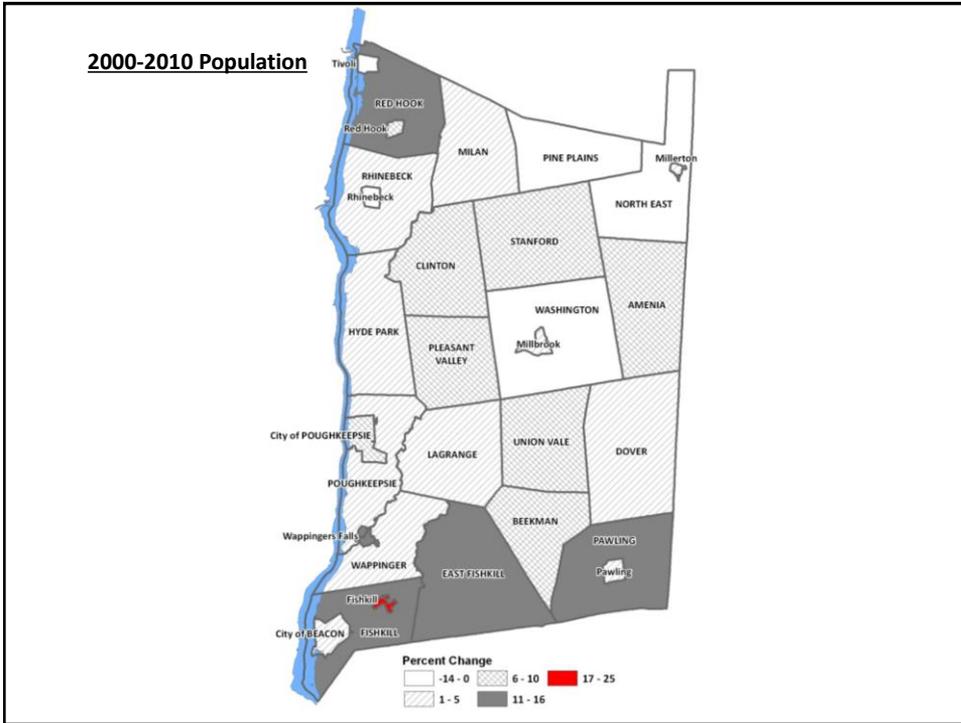
Moving Dutchess 2

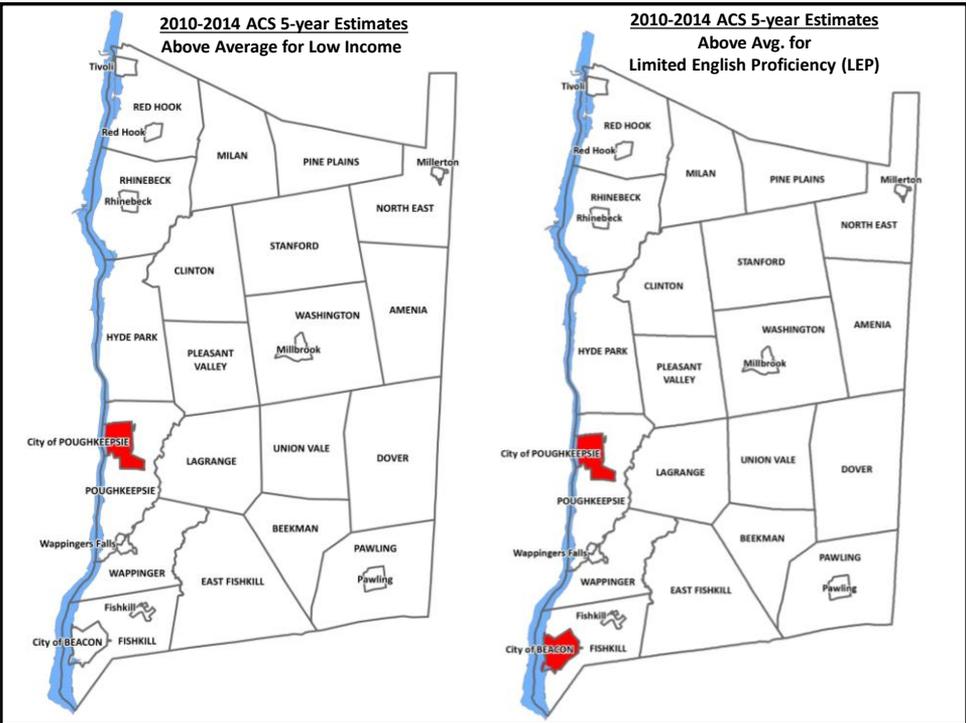
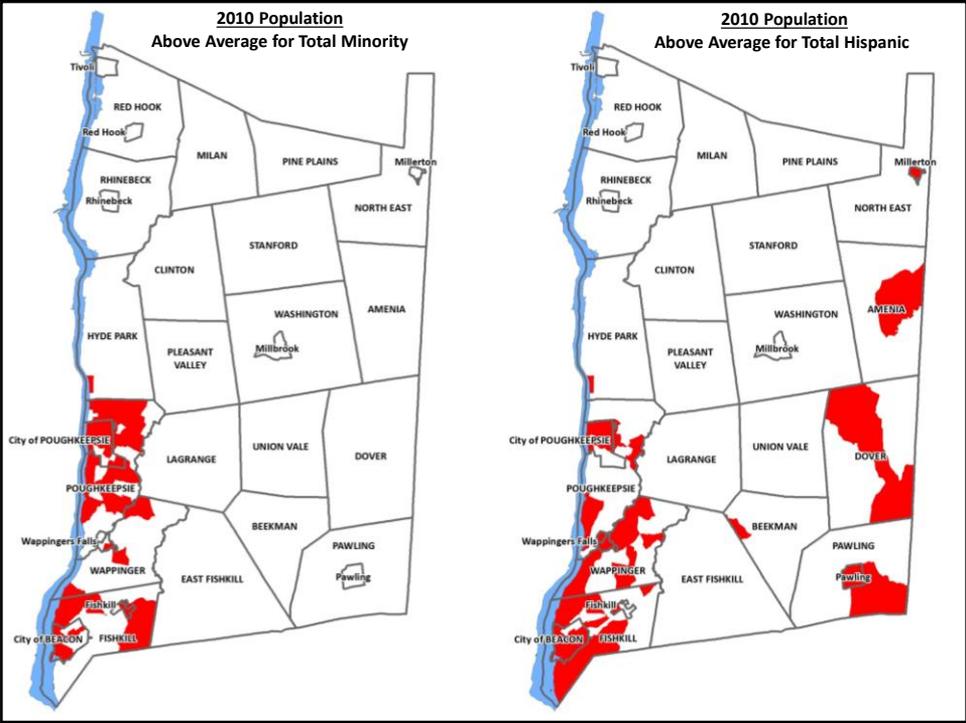
Regional Perspective

- Coordinated planning among Dutchess, Orange, & Ulster counties
- Regional Transit Planning
- Regional Freight Planning
- Transit Oriented Development (TOD) opportunities
- Hudson River Valley Greenway

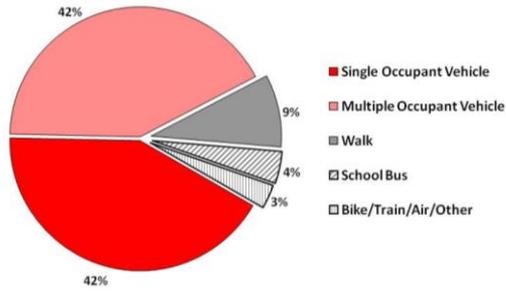




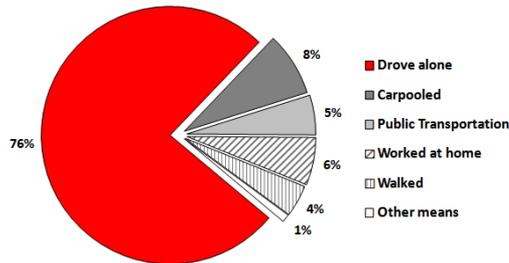




Person Trips for Dutchess County Household Population (2009 NHTS)

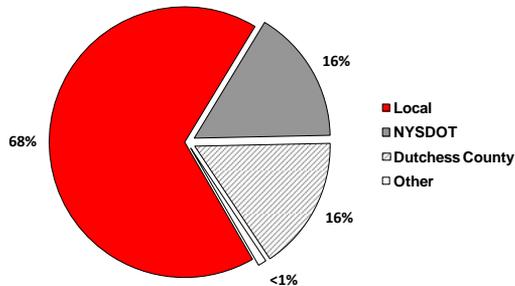


Means of Transportation to Work for Dutchess County Workers (2010-2014 ACS 5-year Estimate)



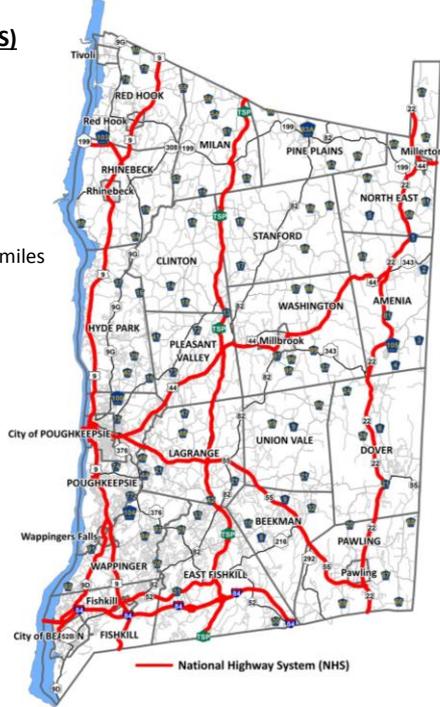
Centerline Mileage by Jurisdiction (2013 LHI)

Jurisdiction	Total Centerline Mileage	Percent of Total Mileage	Total Federal-Aid Eligible	Percent Federal-Aid Eligible
NYSDOT	405	16%	396	98%
Dutchess County	394	16%	151	38%
Town	1,473	59%	44	3%
City or Village	187	8%	40	22%
Other	32	1%	3	9%
Total	2,491		634	25%



National Highway System (NHS)

Total NHS in Dutchess = 309 miles
Percent NHS = 12%



Federal-Aid Eligible Roads

Total FA roads = 634 miles
Percent FA = 25%



Dutchess County Bridge Data (2014)

Bridge Jurisdiction

	Number of Bridges	Percent of Total
NYSDOT	135	37
Dutchess County	141	39
Local	54	15
NYSBA	3	1
NPS	5	1
Other	26	7



Bridge Ratings

	Average Condition Rating	Number Rated Deficient	Percent Deficient
NYSDOT	5.1	66	49
Dutchess County	5.0	60	43
Local	4.6	22	41
Other	5.6	5	15

NEW	7
GOOD	6
	5
DEFICIENT	4
	3
	2
	1

Worst Rated Bridges in Dutchess County

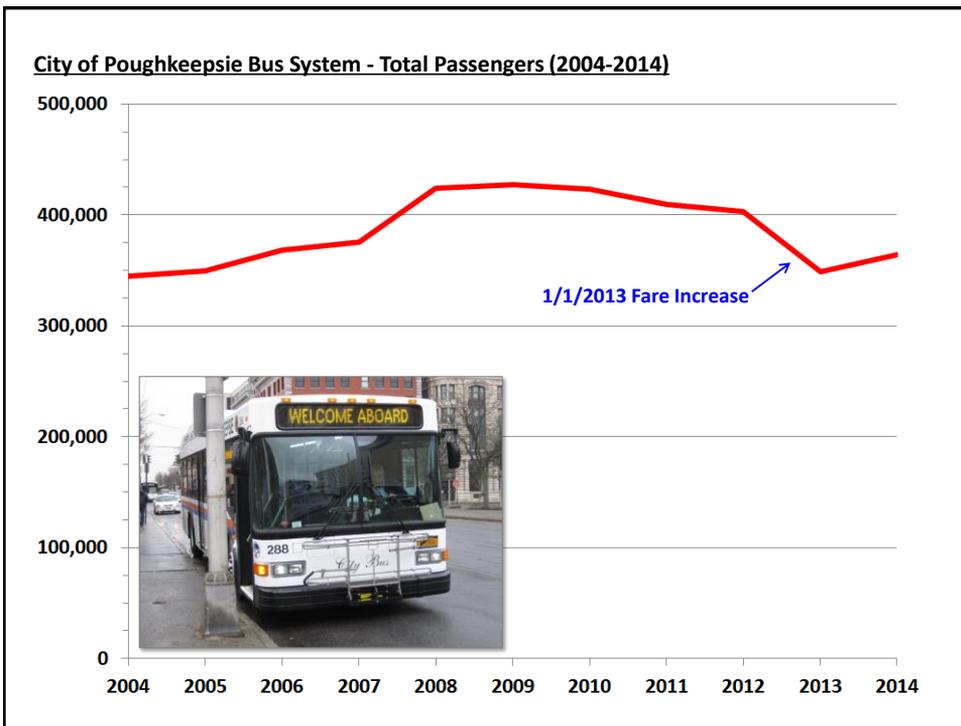
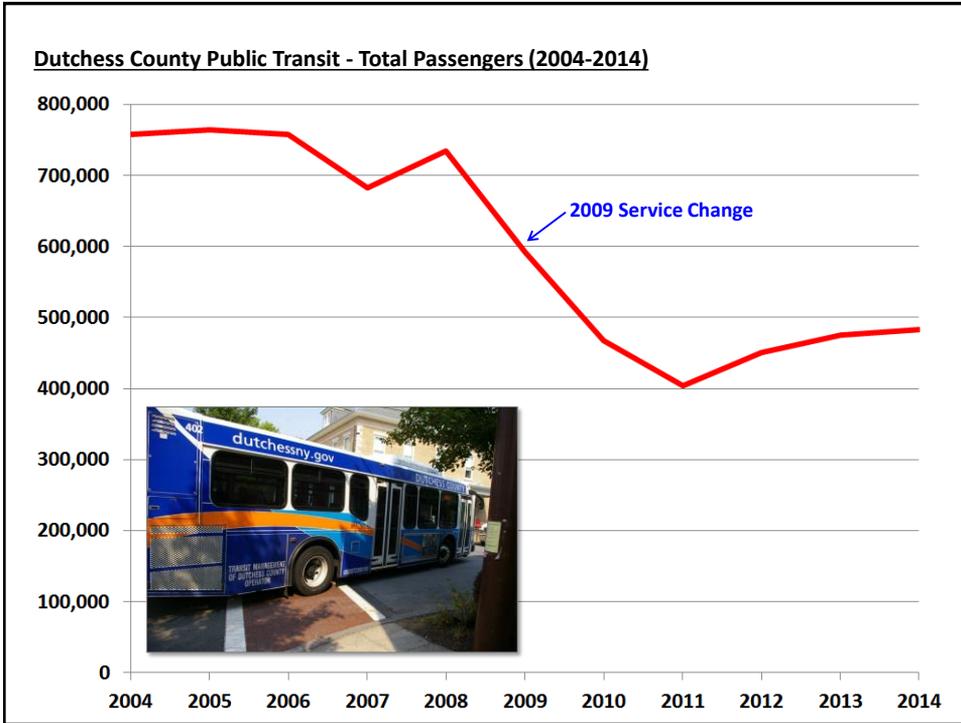
1. BIN 3343580: CR 72 (North Ave.) over Swallow Stream in Pleasant Valley (NYSDOT Rating = 3.23).
2. BIN 2343700: Scism Rd. over White Clay Kill in Red Hook (NYSDOT Rating = 3.42).
3. BIN 3343730: CR 79 (Linden Ave.) over Saw Kill in Red Hook (NYSDOT Rating = 3.47).
4. BIN 3343120: Lime Kiln Rd. over I-84 in East Fishkill (NYSDOT Rating = 3.60)
5. BIN 3343530: NYS Route 115 (Salt Point Turnpike) over Little Wappinger Creek in Pleasant Valley (NYSDOT Rating = 3.70) (*Built in 1915*).

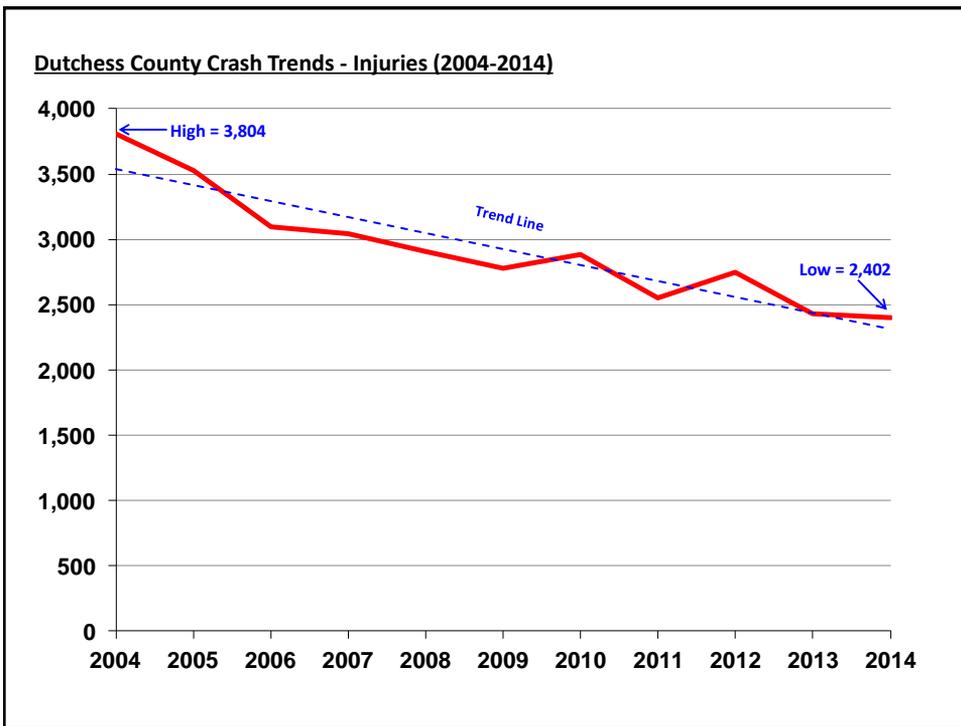
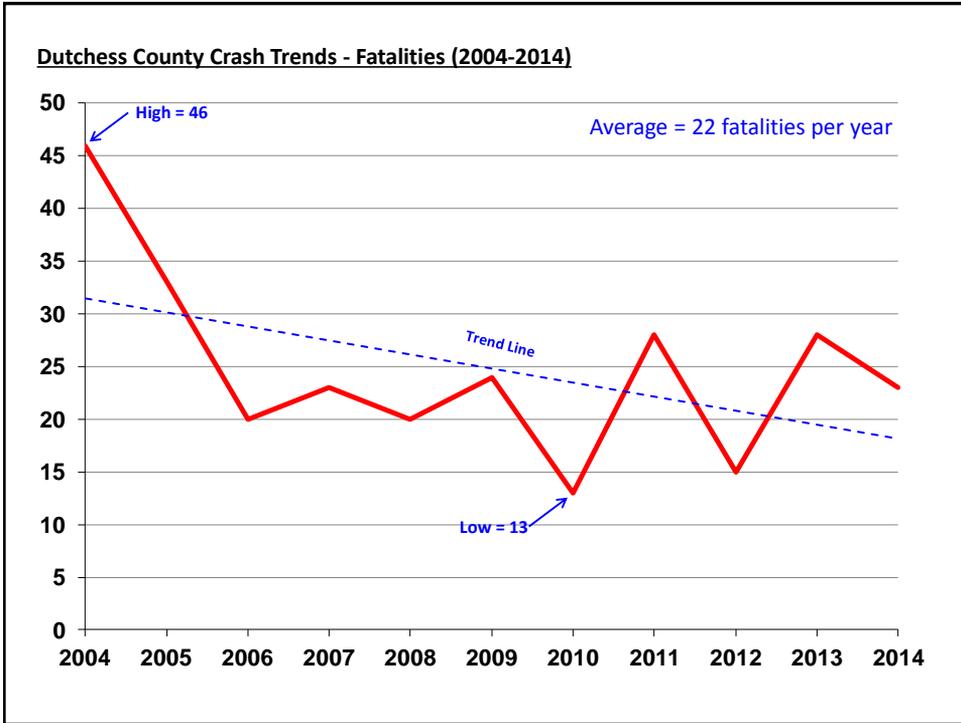


CR 72 (North Ave.) bridge looking from CR 73 (Sherow Rd.)



NYS Route 115 bridge looking north in Salt Point.





Intersection Crashes (2010-2014)

1. Route 44 (Church St.)-Route 9 (SB) intersection in the City of Poughkeepsie: 244 crashes.
2. Route 44 (Church St.)-Route 9 (NB) intersection in the City of Poughkeepsie: 124 crashes.



Intersection Crashes (2010-2014)

3. Route 9-Merritt Blvd. in the Town of Fishkill: 156 crashes.



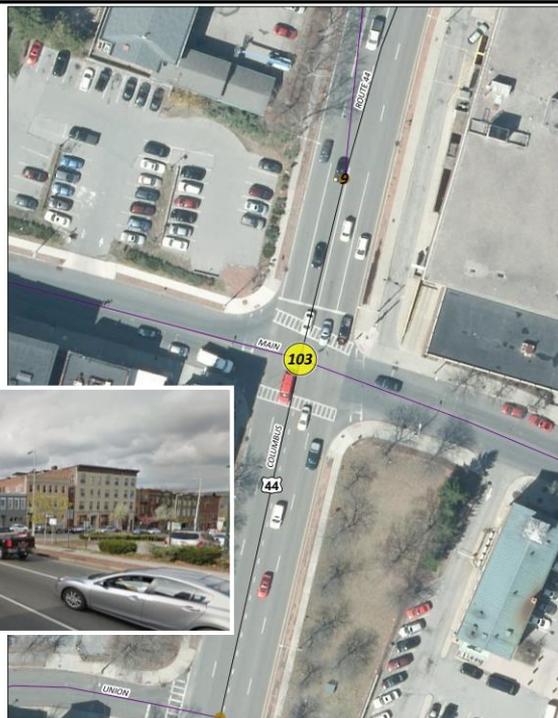
Intersection Crashes (2010-2014)

- 4. Route 9-CR 104 (New Hackensack Rd.) in the Village of Wappingers Falls: 113 crashes.



Intersection Crashes (2010-2014)

- 5. Main St.-Columbus Dr. in the City of Poughkeepsie: 103 crashes.

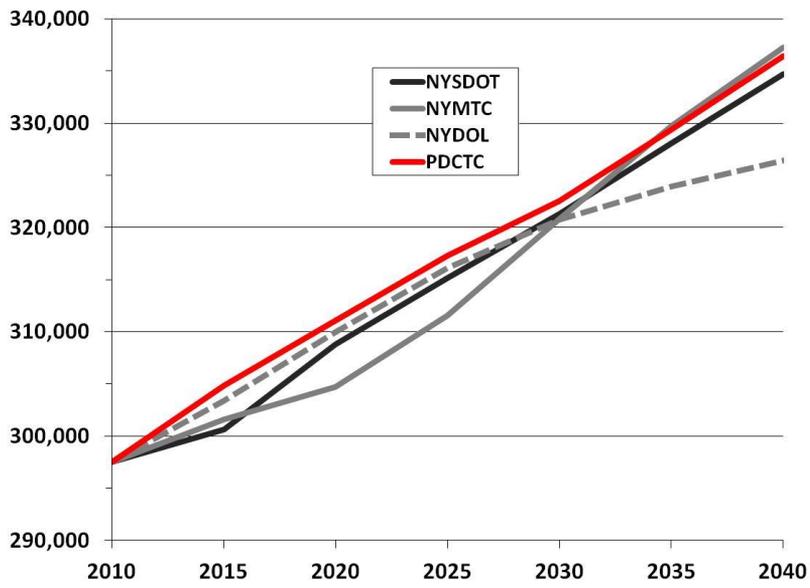


Road Segment Crashes (2010-2014)

- 3. TSP (northbound) from Miller Hill Rd. to I-84 in East Fishkill:
79 crashes.



Dutchess County Population Estimates (2010-2040)



Recommendations & Financial Plan

Project-level Recommendations

1. **Bridge Maintenance:** replacement/rehabilitation of bridges currently in or expected to be in poor condition.
2. **Highway Maintenance:** reconstruction/rehabilitation of roads in or expected to be in poor condition.
3. **Highway Operations:** projects to improve traffic operations and reduce congestion.
4. **Safety:** improvements to increase safety, as well as safety analyses.
5. **Pedestrian/Bicycle:** construction or rehabilitation of sidewalks, crosswalks, trails, and other non-motorized facilities.
6. **Travel Demand Management:** rideshare and vanpool activities to reduce congestion.
7. **Transit:** bus replacements, operating assistance, and preventive maintenance activities for transit providers, as well as facility upgrades a
8. **Planning Studies:** transportation-related studies.

Short-Range
(2016-2020)

Mid-Range
(2021-2030)

Long-Range
(2031-2040)

Bridge Recommendations

- System-wide bridge maintenance activities to include preventive maintenance, bridge washing/deck sealing, bridge painting, and bridge inspections.
- Repair bridges located on the NHS or Federal-Aid system that are currently rated Structurally Deficient/Deficient by FHWA/NYS DOT standards or expected to be by 2040.
- Bridges with less than 200 vehicle crossings a day removed from consideration (22 total).
- Approx. 134 bridges in Dutchess County (State and Local) will require major rehabilitation or replacement over the 25-year period.



Highway Maintenance Recommendations

- Repave Federal-Aid roads currently rated in "Poor" condition.
- Repave local Federal-Aid roads currently rated in "Fair" condition, projected to be in "Poor" condition by 2030.
- Repave Federal-Aid roads currently rated in "Excellent" or "Good" condition, projected to be in "Poor" condition by 2040.
- System-wide highway maintenance activities to include preventive maintenance paving, crack sealing, pavement striping, 'where and when' as needed repairs, and culvert/catch basin repairs.



Highway Operations

- **Reconstruct the Route 9/44/55 interchange** to improve traffic safety and operations.
- **Reconstruct the I-84/Route 9D interchange** to improve traffic safety and operations.

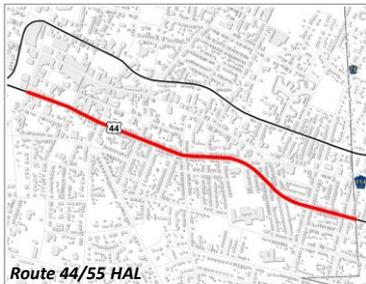
Regionally significant, long-range projects that will require funding above and beyond normal FHWA and State allocations (>\$100 million).

- **Reconfigure Market St.** in Poughkeepsie from a one-way street into a two-lane, two-way street with improved lane markings, signage, and pedestrian and bicycle improvements.
- **Redesign Route 44 (Main St.)** in Pleasant Valley and **Route 82** in Hopewell Junction into a boulevard to include possible roundabouts at major intersections.



Safety Recommendations

- **System-wide safety activities** to include sign replacements, special surface treatments, new guiderails, lane markings, and pedestrian countdown timers.
- Improve safety at the NYSDOT-identified **High Accident Location (HAL) on Route 44/55** (eastbound arterial) by adding warning signs, improving lane markings, updating signal timings, and increasing speed enforcement.
- Implement recommendations from the CR 9 (Beekman Rd.), CR 16 (North Quaker Ln.), and CR 19 (Slate Quarry Rd.) **Safety Assessments**.
- Reconstruct the **CR 28 (Old Hopewell Rd.)/CR 94 (All Angels Hill Rd.) intersection** in the Town of Wappinger to improve sight distances and correct safety deficiencies.



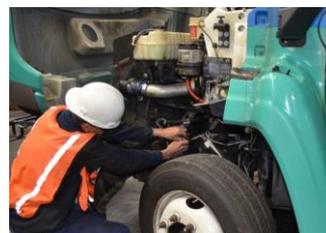
Pedestrian-Bicycle Recommendations

- Install a **sidewalk on Route 113 (Spackenkill Rd.)** in Poughkeepsie from Croft Rd. to Boardman Rd.
- Install a **sidewalk on the west side of Creek Rd.** from Smith St. to Dutchess Community College (DCC), including a sidewalk extension on Smith St. to Creek Rd. with appropriate landscaping and pedestrian amenities.
- Complete **Phase IV of the Harlem Valley Rail Trail** from Millerton to the Columbia County line.
- Construct the **Hudson Highlands Fjord Trail** along Route 9D and the Hudson River, connecting the Beacon train station to the Village of Cold Spring in Putnam County.



Transit Recommendations

- **Bus replacements** for the Dutchess County Public Transit (DCPT) and City of Poughkeepsie bus systems.
- **Operating assistance** for the DCPT and City of Poughkeepsie bus systems.
- **Preventive maintenance** activities for the DCPT and City of Poughkeepsie bus systems.
- Provide **additional service** on DCPT bus routes through a combination of one or more of the following: Sunday service, additional holiday service, later weekday evening service, express services, and more frequent service in cities, villages/key centers, and train stations.
- Operating assistance for the **Newburgh-Beacon ferry** service between the City of Newburgh and Beacon Train Station.



Travel Demand Management (TDM) Recommendations

- Promote Travel Demand Management (ridesharing and vanpool services) throughout Dutchess County (**511NY Rideshare**) and implement the Enhanced Commuter Choice program.
- Construct a **second park-and-ride lot** near the existing lot at the Taconic State Parkway (TSP)/Route 52 interchange to relieve parking congestion.



Planning Study Recommendations

- Complete **regional freight and transit plans** (with OCTC & UCTC).
- Complete a **Corridor Management Plan (CMP) for Route 9D** from Route 9 to I-84 to improve safety and operations for vehicles, bicyclists, and pedestrians.
- **Redesign the Route 44/55 arterial** into boulevard-like streets that improve traffic safety, pedestrian and bicycle access, and overall quality of life.
- Conduct **safety assessments** at high crash locations identified in *Moving Dutchess 2* and *Walk Bike Dutchess* or proposed by member agencies and municipalities.
- Complete **pedestrian plans** for villages, town centers, and city neighborhoods.

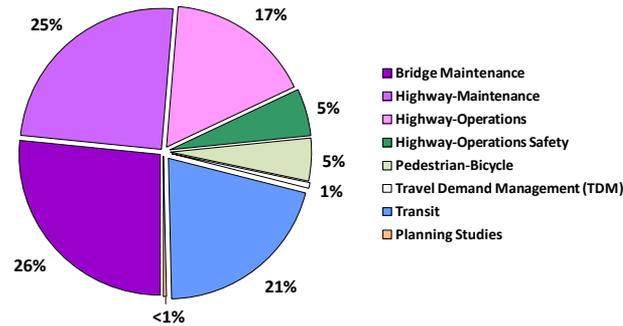


Recommended Funding

Federal-aid Eligible Project Type	FFY 2016	YOE ¹
Bridge Maintenance	\$258,400,000	\$308,560,000
Highway-Maintenance	\$227,160,000	\$286,800,000
Highway-Operations	\$143,650,000	\$193,178,000
Safety	\$54,750,000	\$62,985,000
Pedestrian Bicycle	\$43,345,000	\$57,003,000
Travel Demand Management	\$7,550,000	\$7,560,000
Transit	\$192,780,000	\$239,950,000
Planning Studies	\$3,730,000	\$4,135,000
Total	\$931,365,000	\$1,160,171,000

68% - Highway & Bridge
21% - Transit
5% - Safety
5% - Pedestrian-Bicycle
<1% - Planning

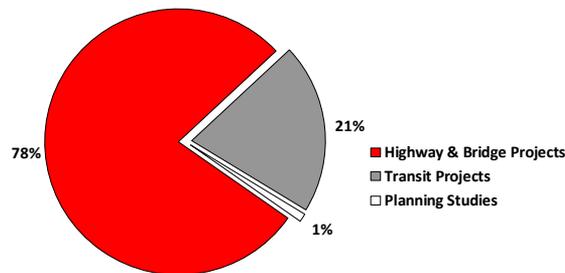
¹ Year of Expenditure (YOE).



Fiscal Constraint Analysis

Federal-aid Eligible Sub-totals ¹	Overall Planning Period (2016-2040)		
	Recommended	Available	Balance
Highway & Bridge Projects	\$908,526,000	\$822,816,500	-\$85,709,500
Transit Projects	\$239,950,000	\$280,000,000	\$40,050,000
Planning Studies	\$11,695,000	\$20,662,500	\$8,967,500
Total	\$1,160,171,000	\$1,123,479,000	-\$36,692,000

¹ Funding amounts rounded to the nearest hundred-thousand.



Unfunded Project Concepts

- 108 unfunded projects.
- Construct a sidewalk and/or separated path on the west side of Route 9 from the Marist north gate to Quiet Cove Park.
- Provide bicycle lanes on State Bike Route 9 (which includes portions of Route 9, Route 376, CR 77, and other streets), particularly in centers. Outside of centers, provide consistent wide shoulders.
- Explore the potential for a fixed bus route serving the Route 22 corridor in the Harlem Valley, from North East/Millerton to Pawling.
- Construct a rail trail along the Beacon Line from Beacon to Hopewell Junction and through Beekman and Pawling to Putnam County.



Contact Information

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