

The Future is Now: Cashless Tolling on the Pennsylvania Turnpike

ASHE/PennDOT/Turnpike Conference | April 6, 2018

NO CASH

NO STOPPING

NO WORRIES

ASHE/PENNDOT/TURNTPIKE CONFERENCE | APRIL 6, 2018

Cashless Tolling

Cashless Tolling in 2013

The map shows the following locations with cashless tolling (purple dots):

- Washington (1 dot)
- California (2 dots)
- Colorado (2 dots)
- Florida (5 dots)
- Georgia (3 dots)
- Illinois (1 dot)
- Indiana (1 dot)
- Massachusetts (1 dot)
- Michigan (1 dot)
- Minnesota (1 dot)
- Mississippi (1 dot)
- Missouri (1 dot)
- Nebraska (1 dot)
- Nevada (1 dot)
- New Jersey (1 dot)
- New York (1 dot)
- Pennsylvania (1 dot)
- Rhode Island (1 dot)
- Texas (10 dots)
- Vermont (1 dot)
- Virginia (1 dot)
- West Virginia (1 dot)
- Wisconsin (1 dot)
- Wyoming (1 dot)

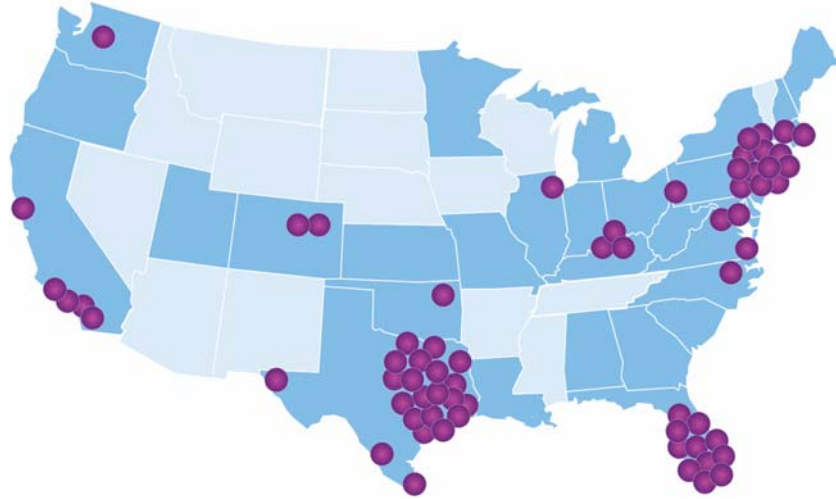
States with no cashless tolling (light blue):

- Alaska
- Arizona
- Arkansas
- Delaware
- District of Columbia
- Idaho
- Iowa
- Kansas
- Kentucky
- Louisiana
- Maine
- Marshall Islands
- Montana
- North Carolina
- North Dakota
- Oklahoma
- Oregon
- South Carolina
- South Dakota
- Tennessee
- Utah
- West Virginia
- Wisconsin
- Wyoming

NO CASH NO STOPPING NO WORRIES



Cashless Tolling in 2017



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WHY?

NO CASH

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NO WORRIES

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SAFETY



"Toll authorities nationwide experience rear-end collision rates that exceed other types of collisions, in part because toll plazas interrupt the flow of high-speed traffic to intermittently collect tolls."

- National Transportation Safety Board

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REDUCED CONGESTION & TRAVEL TIMES



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ENVIRONMENTAL BENEFITS



Carlisle Interchange – Pre-Conversion



Carlisle Interchange – Post-Conversion

NO CASH

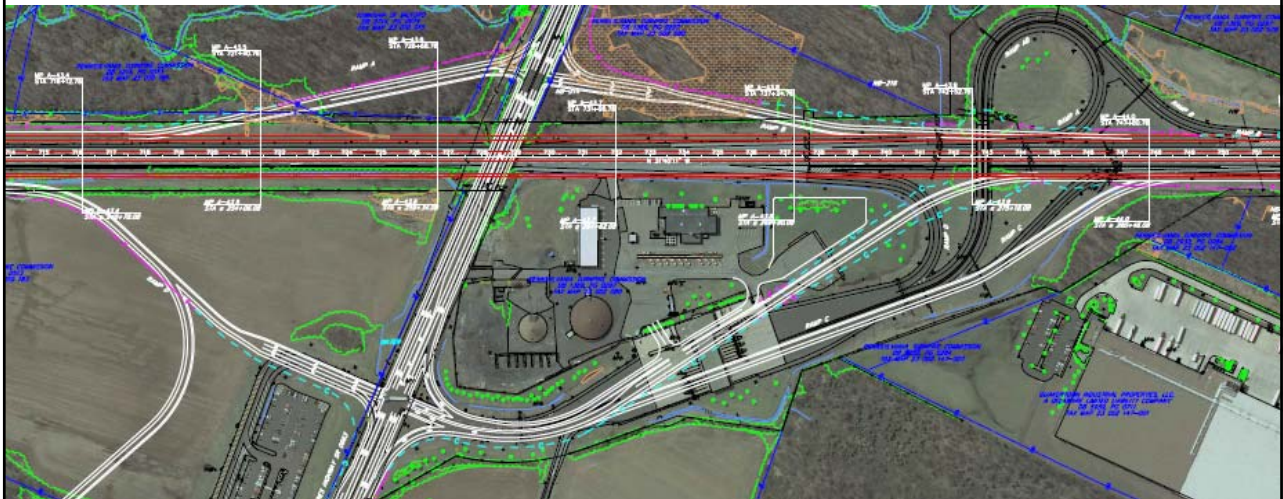
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EXPANDED INTERCHANGE OPTIONS



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SYSTEM ACCESS & EXPANSION

- Virginia Drive Slip Ramps
- Street Road Slip Ramps
- Lansdale Slip Ramps
- State Route 29 Interchange
- State Route 903 Interchange
- Lafayette Street Interchange (future)



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LOWER LONG-TERM CAPITAL COSTS



Neshaminy Falls Toll Plaza

Vs.



Delaware River Bridge Toll Zone

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LOWER ANNUAL OPERATIONAL COSTS

Existing Toll Collection Costs - \$123M
Cashless Tolling Operational Costs - \$80M
Potential Annual Savings = \$43M

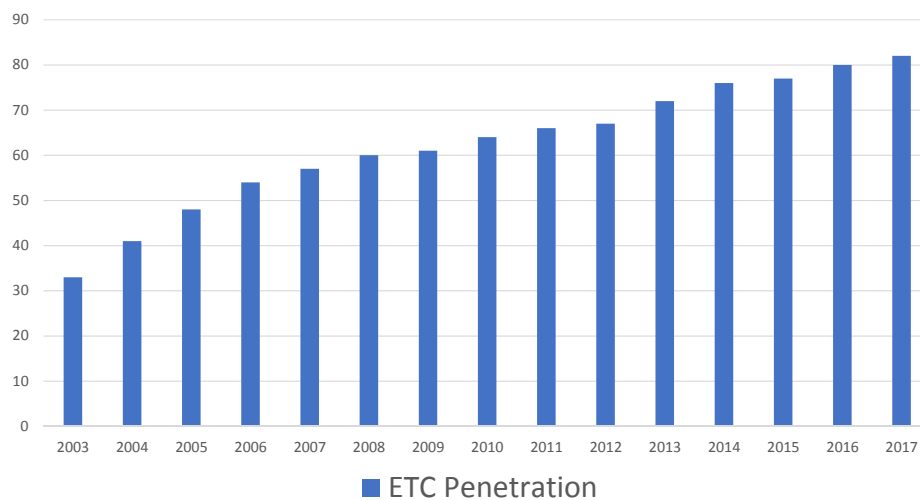
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CUSTOMER EXPECTATIONS



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Completed Pilot Project: Delaware River Bridge



NO CASH

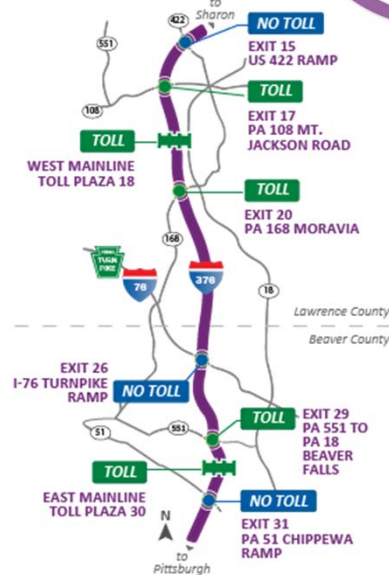
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Completed Pilot Project: Beaver Valley Expressway



NO CASH

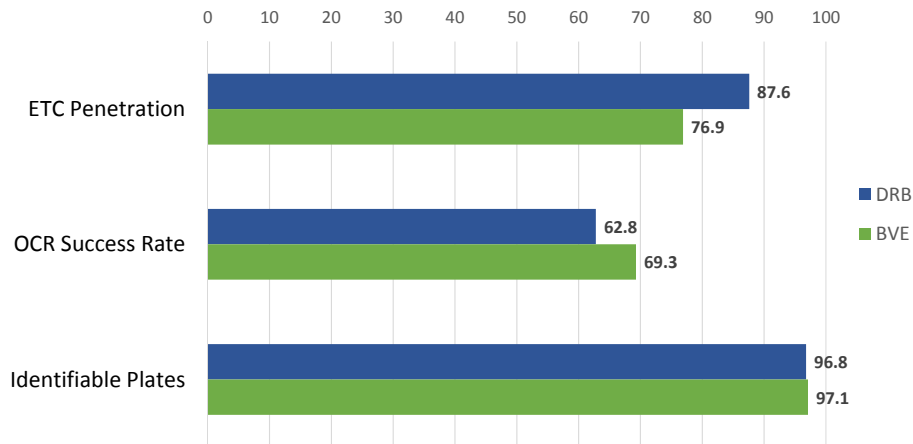
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Pilot Project Performance To Date



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2018 Cashless Tolling Pilot Project

Findlay Connector – Toll 576



Image Courtesy of Stantec

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2018 Cashless Tolling Pilot Project

Findlay Connector Toll 576



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2018 Cashless Tolling Pilot Project

**Clarks Summit/
Keyser Ave – Toll 476**



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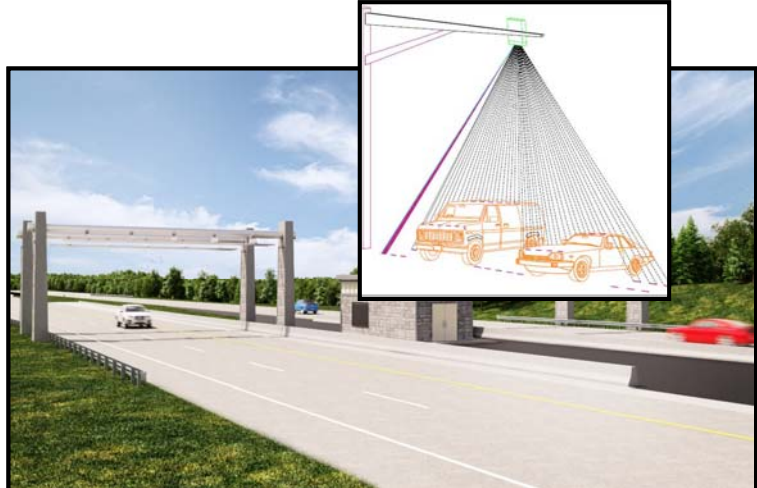
NO WORRIES

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Automated Vehicle Classification

1	2 axle, low profile	Car (2-axle; motorcycle, sport utility, minivan, van, pickup)	
2	3 axle, low profile	Class 1 with 1-axle trailer	
3	4 axle, low profile	Class 1 with 2-axle trailer	
4	5 axle, low profile	Class 1 with 3-axle trailer	
5	6+ axle, low profile	Class 1 with 4+ axle trailer	
6	2 axle, high profile	2-axle motor home	
	2 axle, high profile	2-axle transit bus	
	2 axle, high profile	2-axle conventional school bus	
	2 axle, high profile	2-axle single unit truck	
7	3 axle, high profile	3-axle motor home/trailer combination	
	3 axle, high profile	3-axle coach bus (i.e. Intensity bus)	
	3 axle, high profile	3-axle single unit truck	
	3 axle, high profile	3-axle single trailer truck	
	3 axle, high profile	3-axle articulated bus	
8	4 axle, high profile	4-axle motor home/trailer combination	
	4 axle, high profile	4-axle single unit truck	
	4 axle, high profile	4-axle single trailer truck	
9	5 axle, high profile	5-axle motor home/trailer combination	
	5 axle, high profile	5-axle single unit truck	
	5 axle, high profile	5-axle multi-trailer truck	
10	6 axle, high profile	6-axle motor home/trailer combination	
	6 axle, high profile	6-axle single unit truck	
	6 axle, high profile	6-axle multi-trailer truck	
11	7+ axle, high profile	7+ axle motor home/trailer combination	
	7+ axle, high profile	7+ axle multi-trailer truck	



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PTC Cashless Tolling Conversion Schedule



NO CASH

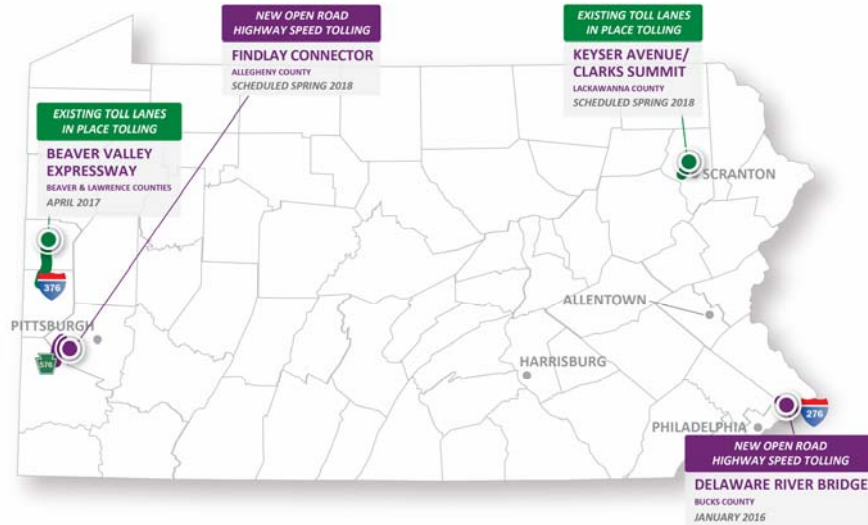
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PTC Cashless Tolling Conversion Schedule



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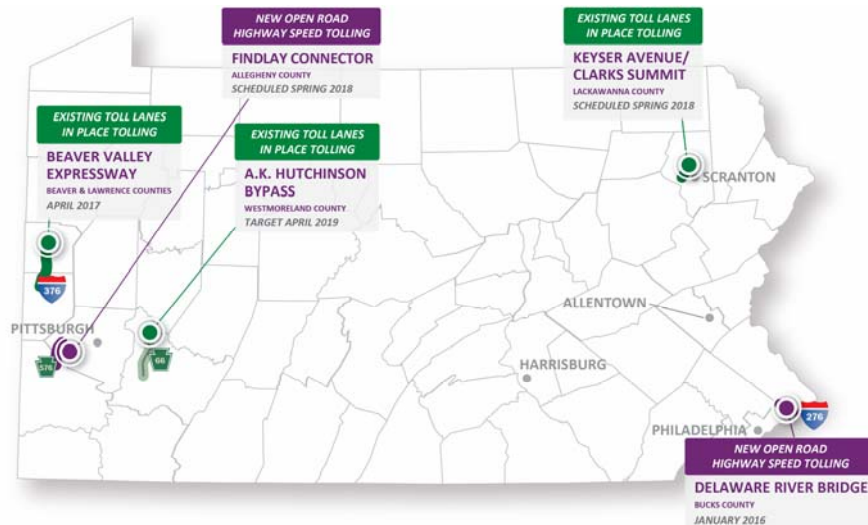
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PTC Cashless Tolling Conversion Schedule



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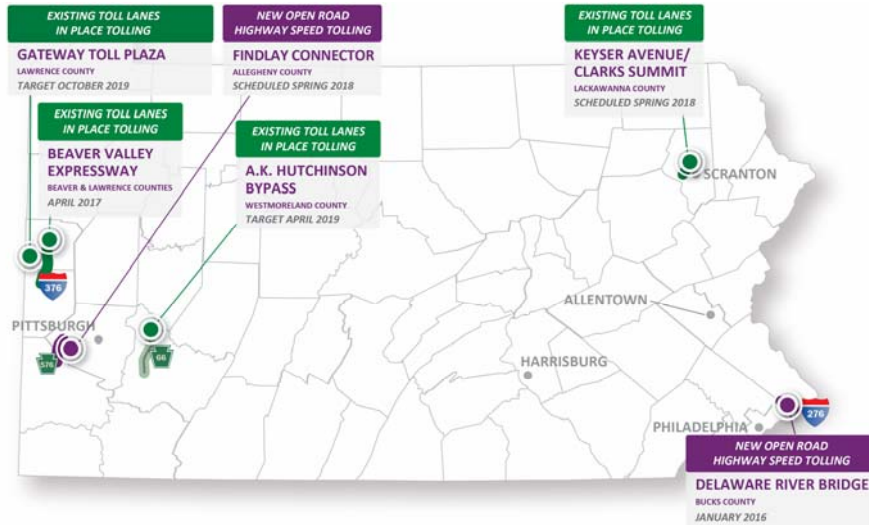
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PTC Cashless Tolling Conversion Schedule



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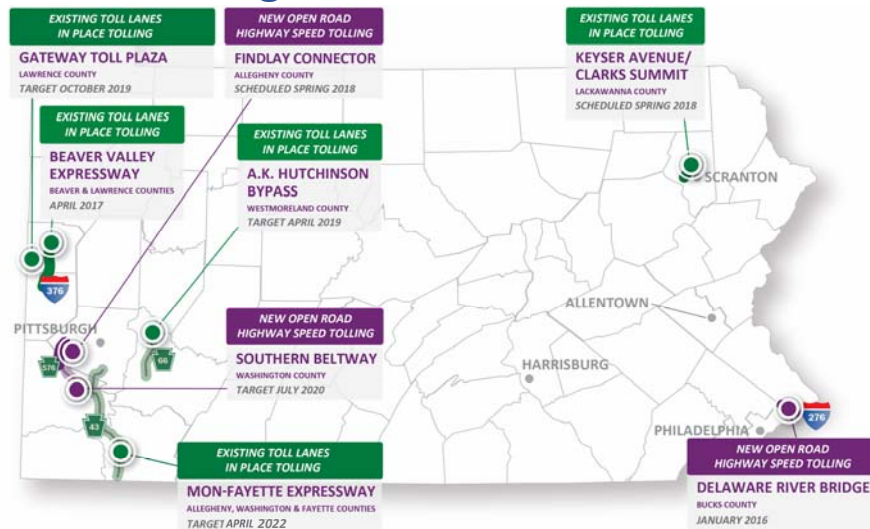
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PTC Cashless Tolling Conversion Schedule



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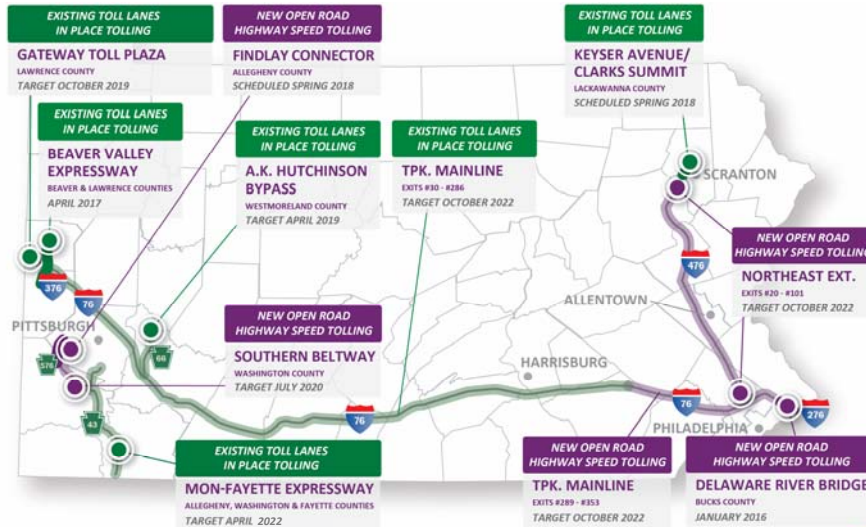
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PTC Cashless Tolling Conversion Schedule



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QUESTIONS?

THANK YOU

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