

Interstate Tolling for Wisconsin: Why and How

by Robert W. Poole, Jr. Director of Transportation Policy Reason Foundation <u>http://reason.org/transportation</u> bob.poole@reason.org Interstate reconstruction/modernization should be highway users' national goal

- Our premium highway infrastructure: 25% of VMT on 2.5% of lane-miles.
- Over 40,000 miles will need reconstruction in the next two decades.
- Replace 200 major interchange bottlenecks
- Estimated cost is at least \$1 trillion.
- Congress will not provide dedicated funding for that size project.
- Modest tolls could finance this program.



Reason Foundation's Interstate 2.0 study (2013):

- Estimate cost of reconstructing entire Interstate system;
- Estimate cost of needed lane additions, including truck-only lanes;
- Assess the feasibility of financing this project via all-electronic tolling (AET)
- Address political feasibility.



Overall results

NPV of cost = \$983 billion.

- NPV of revenue = 99% of NPV cost.
- 30 states positive with basic toll rates, of which 9 could do it with lower rates.
- 9 states need slightly higher rates
- 6 urban states need even higher rates.
- Only 6 rural states are not really tollfeasible.



Wisconsin, specifically

Reconstructing & widening: \$26B 2010 \$, Poole study for WPRI, 2011 Potential toll revenue: \$29B 2016 \$, HNTB tolling study, 2016 Toll-financed Interstate modernization would free up federal & state fuel tax money for all other transport needs.

What's stopping toll-financed Interstate reconstruction?

- Federal law bans tolling "existing" lanes.
- Tolling only *new* lanes won't pay for reconstruction.
- But reconstructed lanes are *replacements*, not "existing" lanes.
- Strong opposition from trucking industry; concerns from AAA, AHUA.
- Congress leery of battle with highway users.

How can we make toll-financed reconstruction politically feasible?

- Listen to highway users' concerns.
- Develop new, user-friendly tolling policies for toll-financed Interstate modernization.
- Hence Reason's proposal: Value-Added Tolling

Two concerns that technology is making obsolete

#1. Delays, emissions, accidents at toll plazas.

All-electronic tolling is eliminating toll booths and plazas.

#2. High cost of toll collection vs. fuel tax collection.

AET and streamlined business model cut collection cost to 5% of revenue.



Major remaining highway user concerns:

- 1. No value-added—charging tolls on "existing" highways.
- 2. Revenue diverted to other uses.
- 3. Double taxation—paying tolls and fuel taxes on the same highway.
- 4. Traffic diverted to parallel routes.



No value added?

Early applicants to Interstate *reconstruction* pilot program saw tolls as new revenue.

- Arkansas, Pennsylvania, Wyoming, proposed tolling as more of a general funding source.
- Virginia proposed I-95 border tolls, far short of paying for reconstruction.
- Only Missouri and North Carolina proposed serious reconstruction—but failed to reach political consensus.

Replacing obsolete pavement and interchanges adds real value.



Diverting toll revenues

About a dozen agencies divert toll revenue to:

- Other highways in the state
- Urban mass transit
- Economic development
- Canals
- Public buildings (World Trade Center)
- Maria Matesanz of Moody's calls this "cash cowification of toll roads."



"Double taxation"

Paying tolls and fuel taxes on the same Interstate:

Average motorist pays 2.2¢/mi. on nontolled Interstate, but 6.5¢/mi (total) on tolled Interstate.

Highway users don't consider tolled Interstates to provide 3X as much value as non-tolled Interstates.



Traffic diversion to parallel routes:

- It happens, and is assessed in toll road traffic & revenue studies.
- It does cause pavement impacts on the parallel routes.
- It does add noise and emissions on parallel routes.
- But the *lower* the toll rate, the *less* traffic diverts.

Value-Added Tolling takes these concerns seriously

- 1. Limit the use of toll revenues to the tolled facilities;
- 2. Charge *only enough* to cover the full capital and operating costs;
- 3. Begin tolling *only* when construction or reconstruction of a corridor is finished;
- 4. Use tolls to *replace*, not supplement, existing fuel taxes.



AAA supports Value-Added Tolling

- National AAA board meeting, Seattle, December 2015
- Invited presentation by Poole on Value-Added Tolling.
- Board voted to support, and urged AAA clubs to support in their states



Wisconsin's options today (1)

- Request a slot in federal tolled reconstruction pilot program
- Other potential applicants include CO, CT, IN, OR, RI
- Allows only one Interstate corridor to be rebuilt with toll financing



Wisconsin's options today (2)

- Apply to join FHWA Value Pricing Program
- Applies only to congested urban Interstates
- Allows tolling all lanes to manage traffic congestion.



Would the public accept tolling?

Survey research* finds:

- On list of funding sources for needed project, tolling is least-bad alternative.
- With *taxes*, paying more is certain, but getting better service is uncertain.
- With *tolls*, you only pay if a project you can use is built, and toll is reasonable.
 *NCHRP Synthesis 377 (2008)

Could Wisconsin DOT accept fuel*tax rebates?*

- Rebates not a new idea—e.g. truck fuel tax rebates on NY Thruway and Mass. Turnpike.
- Much easier to do with AET: tolling software knows customer, vehicle type, EPA mpg rating, miles driven.
- State DOT provides the rebates, based on data from the toll operator.
- State comes out ahead, since per-mile yield of tolls is higher than that of fuel taxes.



Longer-term reform needed

- Expand toll-financed reconstruction program to all 50 states.
- Allow each state to toll-finance replacement of ALL a state's Interstates.
- Encourage use of revenue-risk P3 concessions.
- Require Value-Added Tolling principles.
- This could be part of Trump infrastructure initiative.



Incentive for states to do this

- If Congress guarantees same amount of federal highway aid, and
- If state DOT converts all its Interstates to tolls, then
- Federal money can be devoted to all non-Interstate transportation needs.



Further information:

Interstate 2.0, Modernizing the Interstate Highway System via Toll Finance (PS#423, Sept. 2013) Value-Added Tolling: A Better Deal for America's Highway Users (PB#116, March 2014) Truck-Friendly Tolls for 21st Century Interstates, (PS#446, July 2015)

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Questions & discussion

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