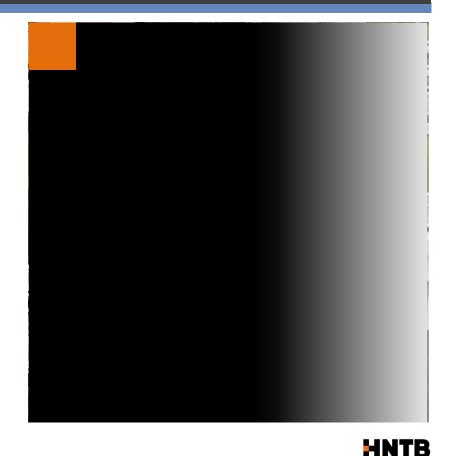
STATE OF MICHIGAN TOLLING STUDY (PA 140 of 2020)

House Appropriations Subcommittee on Transportation April 28, 2021



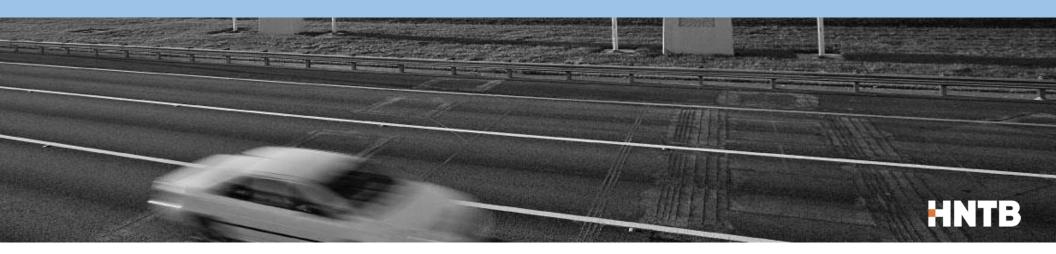
About HNTB

- Employee-owned infrastructure solutions firm
- Founded in 1914
- Nearly 5,000 teammates in 70 offices around the U.S.
- Opened Michigan office in 1992; currently employ 140+ Michigan residents
- Engineer News-Record's Midwest Design firm of the Year, 2019





State of the Practice – Interstate Tolling



Evolution of Tolling



Cash Only

Cash/ETC

Dedicated ETC

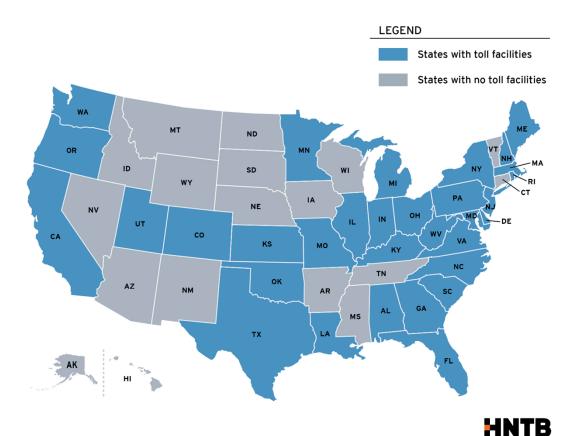
ETC = Electronic Toll Collection

ORT = Open Road Tolling AET= All Electronic Tolling



States Are Evaluating New Tolling Programs

- RI: Truck-only tolling on bridges (operational)
- IN: Complete interstate system
- WI: Complete interstate system
- MN: Interstates & limited access
- CT: Interstates & limited access
- OR: Portland region (I-5 & I-205)
- MI: All limited access freeways (PA 140 of 2020)



Tolling in Michigan?

P.A. 140 of 2020 (July 8, 2020) requires:

- MDOT to engage an outside consulting firm to conduct a feasibility study and strategic implementation plan
- Study must consider:
 - Economic impact and feasibility of tolling
 - Consideration of a discount program
 - Impact on out-of-state operators
 - Applicability for Federal Tolling Programs
 - Optimal toll rates
 - Identification of Required Tolling Rules
 - Long-term Financing Opportunities
 - Identification of Candidate Corridors
 - Identify ways to maximize use of Michigan workers and products
- Feasibility Study and Implementation plan will be delivered prior to July 8, 2022



Federal Programs to Advance Interstate Tolling

PDIQVWUHDP#SURJUDPV

- <u>No</u> additional federal approval processes required
- Requires reconstruction of existing bridges/tunnel lanes or construction of new lanes
- Potentially faster to implementation
 - Section 129 New Capacity
 - Section 129 Bridge/Tunnel Reconstruction
 - Section 166 HOV to HOT Conversion

PILOT PROGRAMS

- <u>Must secure</u> a slot in a competitive Pilot Program
- Greater flexibility (corridor tolling and variable pricing without reconstruction)
- More nuanced requirements, plan and environmental (NEPA)
 - ISRRPP (Interstate System Reconstruction and Rehabilitation)

HNTE

> VPPP (Value Pricing)

Comparison of Tolling Programs

	Description/Requirements	Construction Required?	Toll Existing?	NEPA Required?	Use of Revenue:	Timing of Tolls:
Section 129 New Capacity	 New capacity (express lanes and expansions) 	Yes	No	No*	Corridor, then any fed eligible	Construction Completion
Bridge & Tunnel	 Comply with the FHWA reconstruction guidance Bridge defined as a span greater than 20 feet Multiple bridges/tunnels for a "corridor" 	Yes	Yes	No*	Corridor, then any fed eligible project	Construction Contract Execution
	 Conversion of existing HOV to HOT MPO consultation Performance reporting 	No	No	No*	Corridor, then any fed eligible project	Construction Completion
(Reconstruction)	 Enables tolling of all reconstructed lanes 3 provisional slots; 3 available 	Yes	Yes	Yes	Corridor only	Construction Completion
VPPP (Value Pricing)	 Congestion and time-of-day toll rates MPO consultation and Performance reporting 15 slots; 7 permanent and 8 reserved 	No	Yes	Yes	Corridor, then any fed eligible project	Construction Completion

*Note: Implications from forgoing NEPA or diverting revenues off a corridor should be carefully examined

Tolling Myths

"Tolling means you will put toll booths in the middle of the road."





Tolling Myths

"You have to add toll booth plazas at every freeway exit to implement tolling."





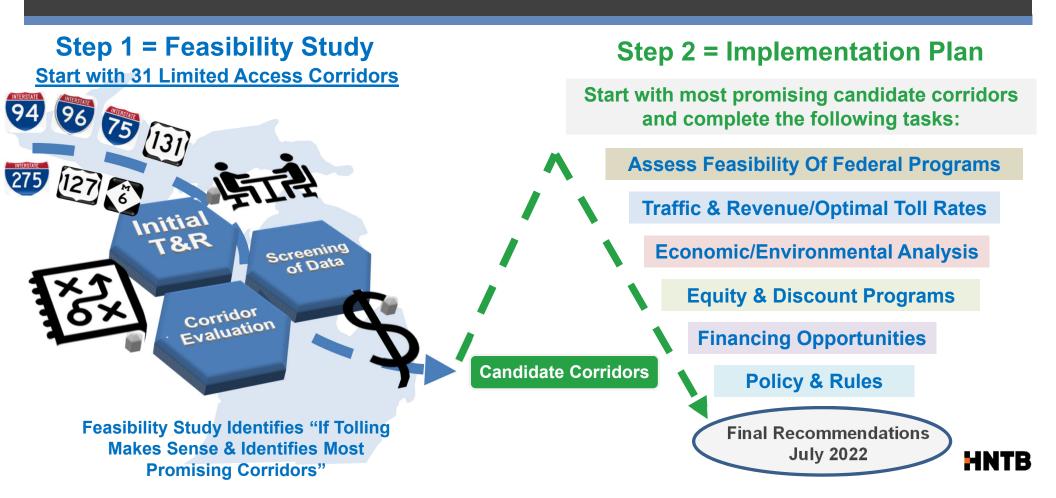
No! Just need space for a gantry to be constructed on the mainline.

Tolling Myths

"It costs 50% of the toll revenue to collect the tolls."

NO! Collection costs average between 12% and 18% of the tolls.

Michigan's Toll Feasibility Study



Michigan – A Potential Path Forward

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Legislative action	Feasibility Study Scope		
Feasibility Study	 Tolling Seminar/Education Data Gathering Initial Traffic & Revenue Estimates Data Analysis Corridor Screenings Stakeholder Outreach 		
Strategic Implementation Plan			
FHWA Concurrence			
Communications and Outreach	 High Level Economic Analysis Federal Program Review Develop of Initial Nat Devenue 		
Pre-construction Activities	Develop of Initial Net RevenueIdentification of Candidate Corridors		
Environmental Approvals			

HNTB

MOU or Tolling Agreement with FHWA

Michigan – A Potential Path Forward

Legislative action Feasibility Study			
Strategic Implementation Plan	Implementation Plan Components		
FHWA Concurrence	Concept of Operations PlanCandidate Corridor Capital needs assessment		
Communications and Outreach	Toll plan and gantry locationsFinal Traffic & Revenue		
Pre-construction Activities	 Net revenue, phasing and financing strategy Federal approach (tolling programs and NEPA 		
Environmental Approvals	Summary of Stakeholder ViewpointsFinal Strategic Implementation plan		

Tolling Study Schedule

Step 1 = Feasibility Study



Fall 2020	Winter 2021	Spring 2021	Summer 2021
HNTB Selected	Legislative Briefings	Stakeholder Outreach	Candidate Corridors
Kick-off	Data Analysis	Economic Analysis	Legislative Check-ins
Tolling Workshops	Initial T&R	Refined T&R	Stakeholder Outreach
Data Collection	Corridor Screening	Corridor Screening	Imp. Plan Scoping

Step 2 = Implementation Plan

Start with most promising corridors (+/- 10) and complete the following tasks:				
Develop Concept of Operations				
Final Traffic & Revenue Estimates				
Prepare Cost Estimates				
Environmental Review				
Financial Model				
Policy				
Final Recommendations by July 2022				

Fall 2021	Winter 2022	Spring 2022	Summer 2022
Develop ConOps	Legislative Briefings	Stakeholder Outreach	Final Feasibility Study
Stakeholder Outreach	Refined Economic Analysis	Final T&R	Final Imp. Plan (by July 2022)
Gantry Analysis	Cost Estimating	Sequencing Plan	Legislative Presentations
Environmental Review	Initial Net Revenue	Final Net Revenue	Stakeholder Presentations

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