

Tolling and Alternative Revenue

INCREASING TOLLING EFFICIENCY, FINDING NEW REVENUE RESOURCES AND MANAGING CONGESTION

Traditional funding sources are evaporating or not keeping up with the needs of our aging infrastructure and increased capacity needs. At the same time, higher safety and mobility standards are driving the need for more efficient use of our roadway networks.

As you consider how to address these challenges, we will help you evaluate which approach is right for you — be it tolling, congestion pricing, managed lanes or road usage charging. Our tolling team has the experience and expertise to solve your unique challenges and implement them quickly.

System Improvement

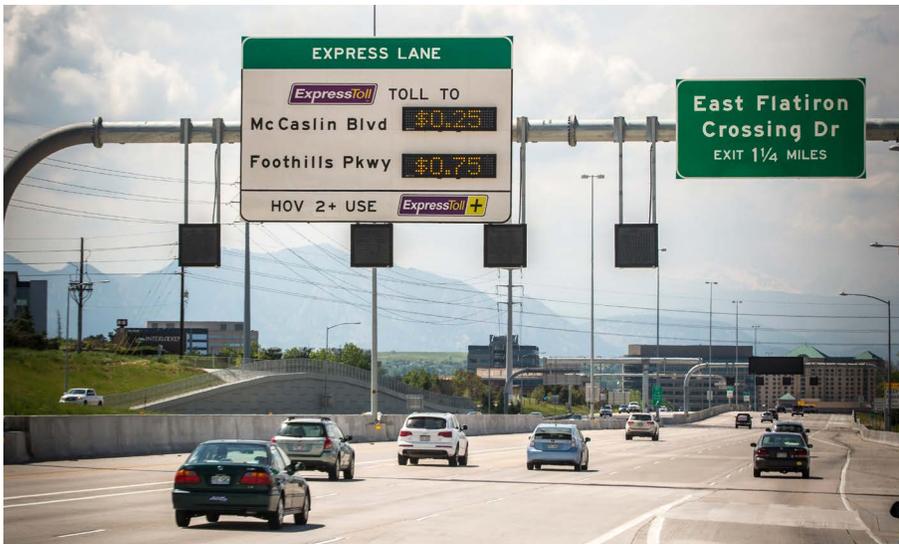
For existing toll facilities, HDR can support change management and optimization to help you find and implement ways to enforce tolls, reduce costs, increase revenue and correct operating systems leakage. We do this with predictive monitoring solutions, implementing assured data delivery, investigating transaction trends, using just-in-time staff planning and even improving transponder penetration rates through strategic communications.

Generating Revenue and Managing Congestion

Tolling and charging for use of our roadways can provide multiple benefits, and can be customized to achieve your goals. Whether it is for revenue generation to fund otherwise unachievable projects or to manage the demand for a roadway we have the unique tools to develop solutions. This includes best practices, proven financial models and sketch level planning tools. Tolling can 1) accelerate project delivery, 2) optimize operational efficiency, and 3) future-proofing facilities for emerging technologies like electric, automated and connected vehicles.

KEY SERVICES

- Toll Infrastructure Design
- Back-Office Operations Consulting
- Procurement Support with Business Rules and Requirements
- Congestion Pricing Analysis
- Alternative Funding & Road Usage Charging
- Planning Level Traffic & Revenue
- Toll Technology Assessment and Specification
- Reciprocity & Violation Enforcement Support



Key Tolling and Alternative Revenue Projects



NYC Central Business District Tolling Program

Triborough Bridge and Tunnel Authority, Manhattan, NY

Program manager for the first cordon-based congestion pricing facility in the United States. Developed the tolling program strategy, tolling concept/policy, conceptual design of a 100+ tolling points system and design-build procurement documents on an accelerated schedule. Helped procure a contractor and toll system integrator one month ahead of schedule. Continuing as program manager/construction manager through design, construction and implementation.



PennDOT Pathways — Alternative Revenue

Pennsylvania Dept. of Transportation, Harrisburg, PA

PennDOT Pathways is a future focused program to find alternative revenue solutions. HDR is identifying and evaluating these options, including bridge tolling, managed lanes, congestion pricing, fees and taxes, and road usage charges. We are also providing the environmental clearance, strategy and communications — both local and statewide — for the initial Major Bridge P3 Initiative. We will be the program manager for upcoming program initiatives as well.



Golden Gate Toll Data & Reporting Gap Analysis

Golden Gate Bridge, Highway and Transportation District, San Francisco, CA

Conducting a comprehensive assessment, reviewing existing reports and processes, database schema, data dictionaries, interface control documents, transaction and financial data, and other information to trace transactions and revenue through the system. Identifying where they are not reconciling between the lane, lane host and back office to determine necessary reports and data to improve reporting accuracy.



Toll Facilities Options on F.G. Gardiner Expressway/Don Valley Parkway

Toronto, Ontario, Canada

Completed a detailed assessment of the feasibility for tolling to pay for the proposed reconstruction of the Gardiner Expressway, the ongoing annual maintenance of both facilities and upgraded incident management system. A key component of the study was to engage over 30 stakeholders and the public on the implications of tolling.



Surface Transportation System Funding Alternatives

Federal Highway Administration

Serving as a third-party evaluator, examining findings in funding alternatives through key metrics such as privacy, data security and public acceptance. This effort has allowed an understanding of which concepts and approaches are best suited to different applications, and which technologies are positioned to serve program needs today.



I-95 Express Lanes

Virginia Dept. of Transportation, New Alexandria, VA

Engineer of Record on various engineering services tasks for the 10-mile southern extension of I-95 Express Lanes toll facility. Evaluated various horizontal and vertical layout options. Accommodated future widening of both I-95 north-bound and south-bound general purpose lanes. Minimized earthwork variances. Provided structural assessments, cost estimates and drainage field investigations.