Electronic Payment/ Toll Collection

Electronic toll collection automates payment on toll facilities such as freeways, bridges, and tunnels.

HOW WILL THIS HELP?

- Improve travel times by keeping vehicles moving as the tolls are collected.
- Addresses recurring congestion due to traditional methods such as cash toll booths.

HOW DOES IT WORK?

- Users establish an account for payment of tolls and install transponders in their vehicles.
- Overhead or roadside toll infrastructure wirelessly detects the transponders while the vehicles are in motion.
- Payment is then automatically deducted from the users' accounts.
- Tolling agencies must install and maintain the system of wireless detection devices and oversee its operation, including management of the sale of transponders and establish a corresponding system of user accounts.

CONSIDERATIONS

+ PUBLIC OUTREACH TO PROMOTE UNDERSTANDING OF THE TOLLING TECHNOLOGY AND PAYMENT PROCESS.
+ SIGNING TO ENSURE DRIVERS' UNDERSTANDING OF ELECTRONIC PAYMENT AND SIGNAL THEM NOT TO STOP.
+ ABILITY TO PROCESS LARGER VOLUME OF VIDEO TRANSACTIONS.

TSMO
MARYLAND TRANSPORTATION SYSTEMS MANAGEMENT & OPERATIONS

TRANSPORTATION NEEDS ADDRESSED

- Capacity and Demand
- Travel Time
- Reliability
- Mobility
- Environmental Impact
- Safety

COST MAGNITUDE

CAPITAL COST	$ $
OPERATION AND MAINTENANCE COST	$ $

WHEN TO CONSIDER THIS STRATEGY

- UPGRADE OF EXISTING TOLLWAYS WITH MANUAL TOLL COLLECTION FACILITIES
- ALL FACILITIES WITH TOLLING

COMPLIMENTARY STRATEGIES

- CONGESTION PRICING
- MANAGED LANES

MDOT MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION