



GOING CASHLESS: THE EVOLUTION OF ALL-ELECTRONIC TOLLING

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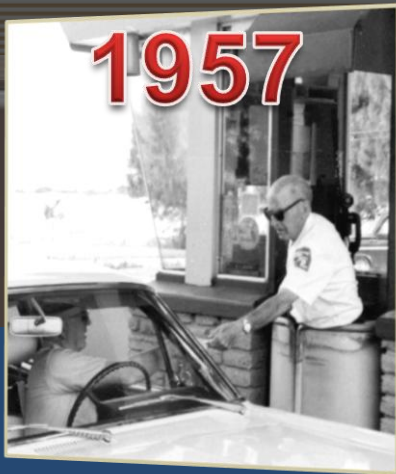
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Florida's Turnpike Enterprise • Florida Department of Transportation

Opening Day



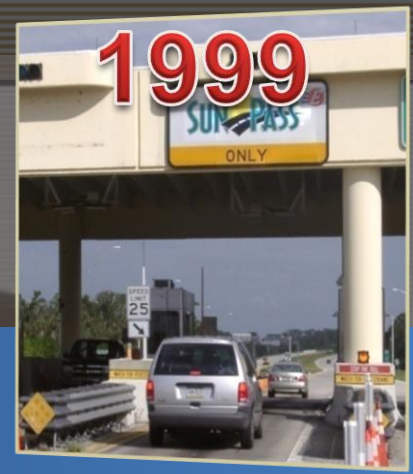
Evolution of Tolling on Florida's Turnpike



Cash Toll Ticket



Cash Exact Coin



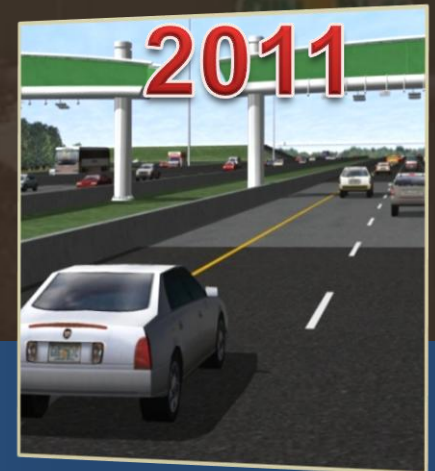
SunPass-only Lanes



Cash-SunPass Lanes



Open Road Tolling



All-Electronic Tolling

Why All-Electronic Tolling?

Safety



- Employees
- Customers
→ Weaving

Why All-Electronic Tolling?

Level of Service - Efficiency

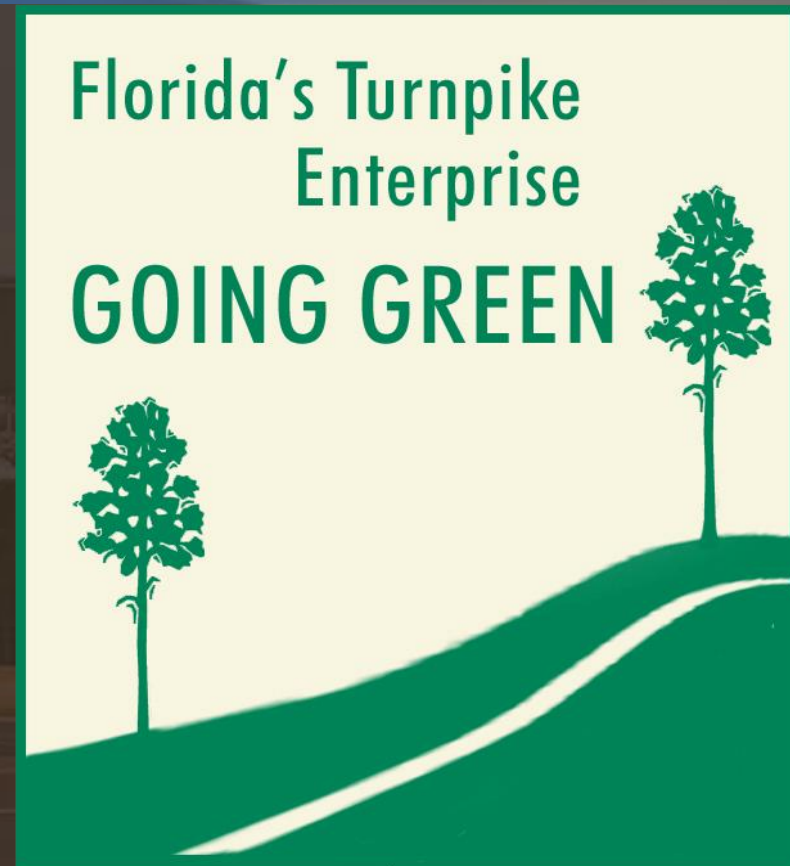
Lane Type	Vehicles/hour
All Electronic Lane	2100
SunPass-only Mainline	1700
SunPass-only Ramp	1300
Unstaffed Exact Coin	500
Staffed /Change Provided	400
Ticket - Entry	500
Ticket - Exit	250

- More throughput
- AET Lanes = 4x throughput of coin lanes

Why All-Electronic Tolling?

Environment - Green

- 22M gallons of fuel wasted idling and accelerating
- Decrease CO emissions by 200 tons per year



Electronic Tolling Strategy



ORT

Open Road Tolling with Cash option



AET

All-Electronic Tolling

Technology: AET/ORT Equipment

HOW OPEN ROAD TOLLS WORK

1 As the vehicle approaches the toll archway, underground loops count the number of axles to determine how much to charge.

2 Front camera takes photo of commercial and multi-axle vehicles.

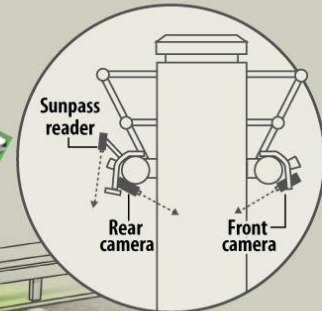
3 Device reads the SunPass transponder attached to window of car and charges toll.

4 Rear camera takes a photo of license plate.

5 Photos from both cameras are stored in computers if a toll violation occurs.

Loops placed in shoulders prevent drivers from avoiding tolls and cameras.

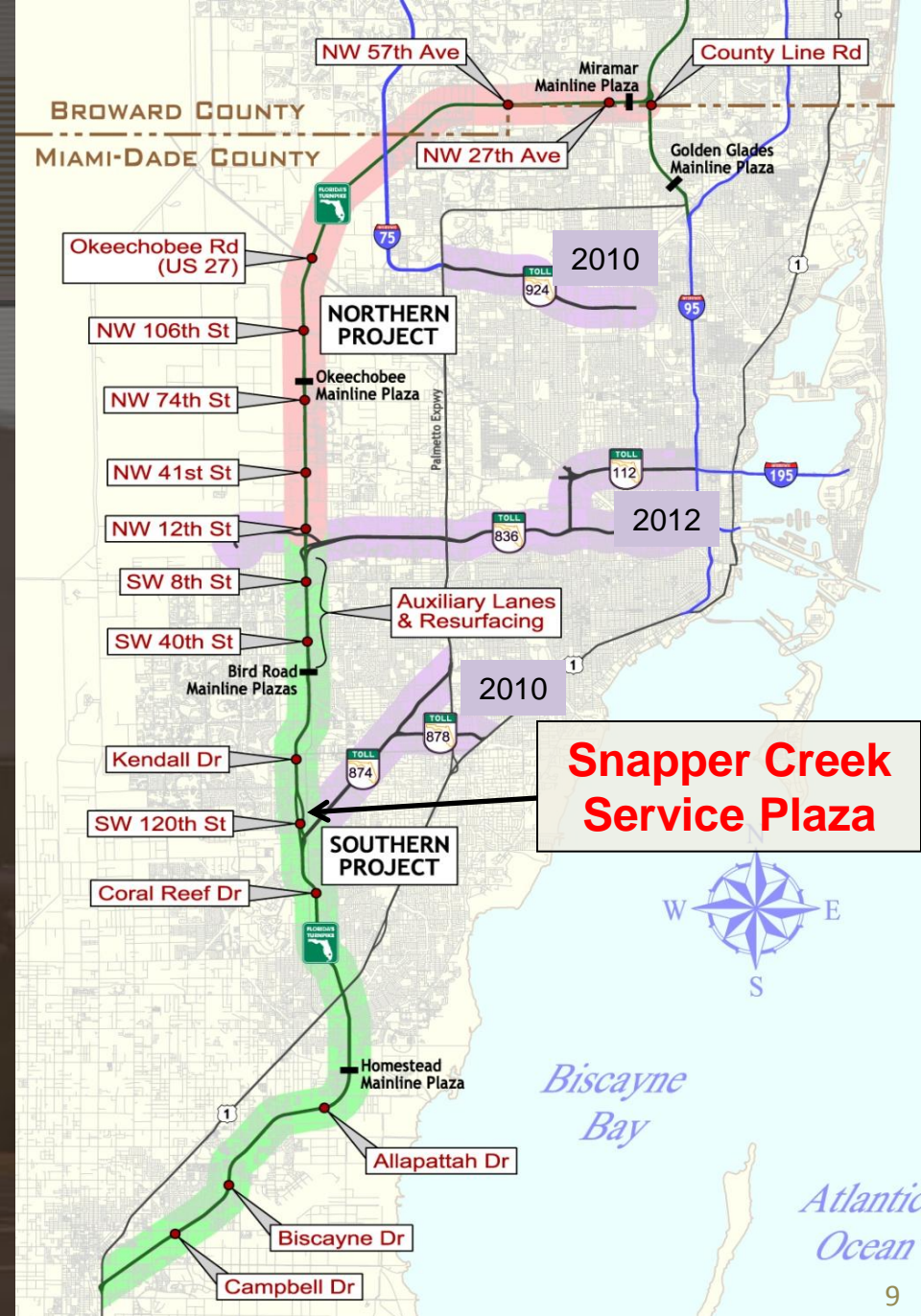
Loops



By: Sun-Sentinel

HEFT Conversion Phase 1-3

- Phase 1&2: \$33M
 - 2 Mainline
 - 17 ramps sites
- Phase 3: \$24M
 - 2 Mainline
 - 16 ramp sites
- Implementation Date
February 2011



Mainline AET Conversion

- Phase 4
- Est. Cost: \$27 M
 - 1 mainline plaza
 - 7 ramp sites
 - Ramp improvements at HEFT and Hollywood
- Design Summer 2010
- Letting Spring 2012
- Construction Summer 2012



Financial Considerations

Revenue

- Participation
- Technology
- Enforcement

Integrated approach to maximizing collectability

Operating Cost

Savings

- Reduction of manual toll collection
- Ability to pass on video costs

Capital Cost

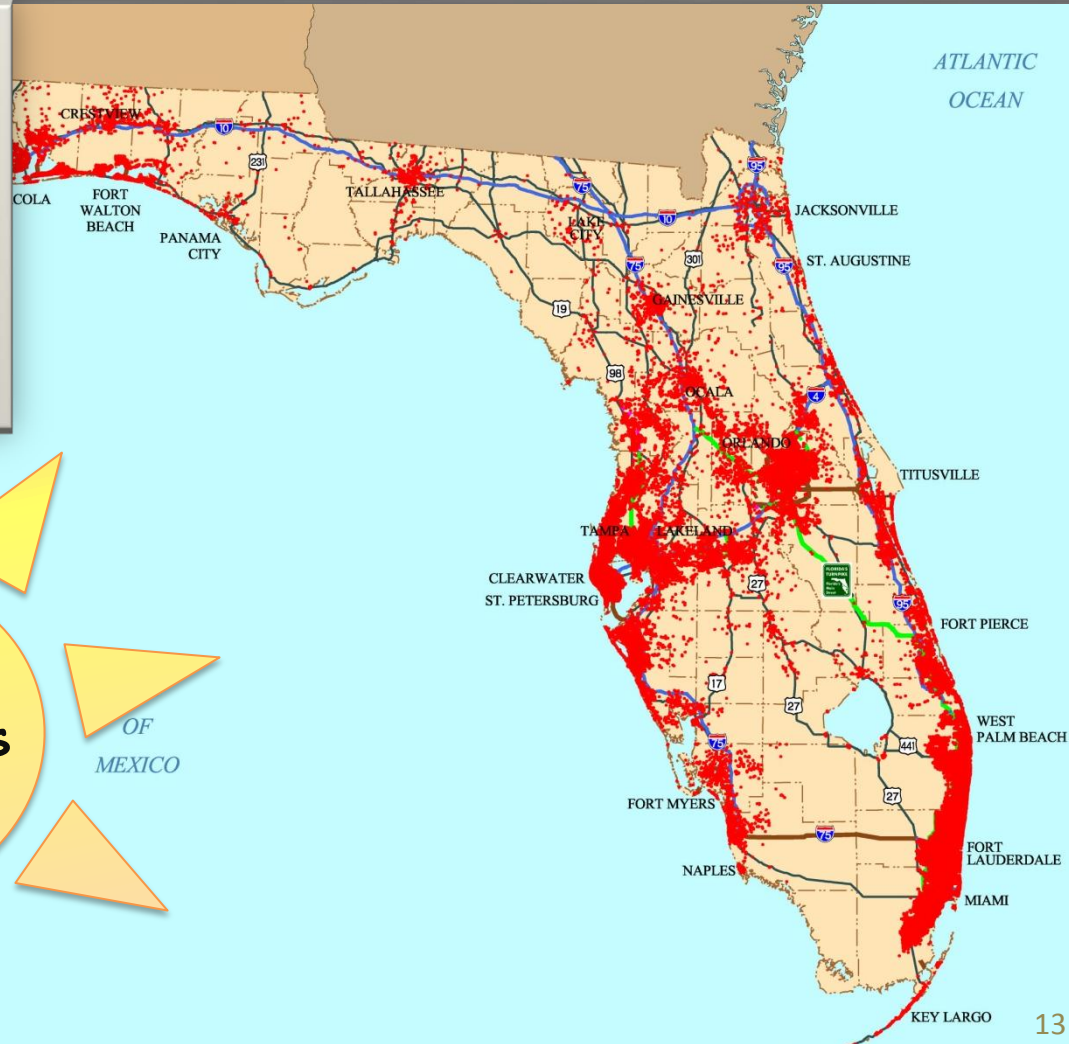
Significant up-front investment

- Long-term savings
- Future customer expectations

SunPass Saturation



Over 5
Million
Transponders
Sold



All Electronic Tolling

Payment Options

- SunPass
 - 2011 – SunPass participation ~ 80%
 - “Good to Go” tag
 - Rental car agreements
 - Cash replenishment
- TOLL-BY-PLATE
- Snapper Creek customer service center



Cash Replenishment

- Customers can replenish SunPass accounts off the system with



- Move cash customers to SunPass →

reduces
operating
expenses



Cash Replenishment

- Money services business agreement
- Four vendors selected
- Secure, convenient, fast and reliable processing of SunPass transactions:
 - Current
 - Cash replenishment of SunPass prepaid accounts
 - Future
 - Cash replenishment of TOLL-BY-PLATE (TBP) accounts
 - Payment: TBP invoices, Unpaid Toll Violations, Uniform Traffic Citations

Cash Replenishment

SunPass Account Replenishment

- Blackstone - June 1, 2010
→ 746 active locations
- 126 additional locations through Ace Cash Express (cashier/agent) on July 1



872 TOTAL active locations





All Electronic Tolling

TOLL-BY-PLATE

■ TOLL-BY-PLATE

- Video toll account
- Customer registers within 72 hours of first use
- Credit cards, cash, check
- Pre and post payment options

Video Billing Customer 7941 Glades Rd Boca Raton, Florida 33434			
Toll by Plate Invoice# 12345676			
Billing Period: July 01, 2009 – July 14, 2009			
Toll by Plate Activity: (Details attached)		\$10.00	
Unpaid Toll Violations: (Details attached)		\$10.00	
Invoice Fee:		\$2.50	
Amount Due in Full Due: August 13, 2009		\$22.50	
*Failure to pay by the due date may result in additional invoice fees and possible issuance of Citations pursuant to Florida Statutes			
Savings if you were a SunPass Customer			
Total Savings on your bill if you were an active SunPass Customer		\$7.50 Savings	
*Call 888-Toll-Fla or visit us on the web at www.sunpass.com for details.			
Please detach along perforated line and mail in the provided envelope if you are not paying via telephone or web			
License Plate: DELDOT Issued to: JOHN DOE 123 MAIN ST DOVER, DE 11111		State: DE Remittance Form Violation Number: 0000106204-1	
Please detach this Remittance Form and include it with your check or money order (NO CASH) made payable to Delaware Department of Transportation for the Balance Due. If you prefer to pay by credit card or debit card, please complete the information below, sign and date the statement or pay online at www.EZPassDE.com . Thank you.		 VPSN0000106204	
Mail to: Delaware E-ZPass Violations Center 26 Old Rudnick Lane Dover, DE 19901		Fax to: 302-677-7274	
Toll Due: \$ 1.00		Administrative Fee: \$ 25.00	
Payment/Adj/Other: \$ 0.00		Due Date: 10/02/2006	
Balance Due: \$ 26.00			
Credit/Debit Card Number: () VISA () MASTERCARD () AMERICAN EXPRESS () DISCOVER			
Expiration (Month/Year) /			
I hereby authorize the above balance due to be charged to my credit card account indicated above.			
Signature: _____		Date: _____	
Print Name: _____		Phone: _____	

MDX and THEA status

- MDX:
 - SR 924 Go Live **June 2010**
 - SR 874/878 **July 2010**
- THEA
 - Selmon Expressway **Fall 2010**
- Interagency coordination



Public Outreach and Education

- Brochures and fliers
- Media
- Tourist and visitors
- Government coordination
- Web site



<http://www.floridasturnpike.com/all-electronictolling/index.html>



QUESTIONS?