

TEXAS DEPARTMENT OF TRANSPORTATION



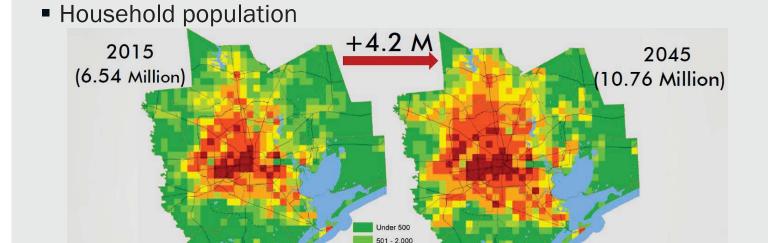
BRIDGING TSMO AND ADM: A TRANSPORTATION BALANCING ACT

Texas Department of Transportation, Houston District



Joint Meeting of ITS Texas and TexITE, Nov. 7-9, 2018

Houston Region - Eight-county

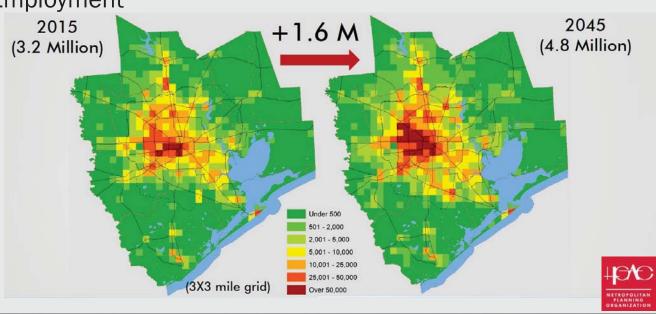


10,001 - 25,000 25,001 - 50,000

(3X3 mile grid)

Houston Region - Eight-county

Employment



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TxDOT Houston District

- Houston District maintains and operates a total of 10,767 lane miles of pavement.
 - Approximately two round trips from Los Angeles, CA to New York, NY
- Motorists in our region drive approximately 131 million miles per day.
 - Distance to Sun from the Earth is 93 million miles
- There are more than 8 million vehicle miles of daily truck traffic on the Houston District system.
 - Houston District system carries enough daily truck traffic to circle the earth 321 times.



2018 Top 10 Most Congested Roads in Texas

2018	2017	County	Road Segment	From	То
→ 1	1	Harris	W Loop Fwy / IH 610	Katy Fwy / IH10 / US90	Southwest Fwy / US 59 / IH 69
→ 2	3	Harris	Southwest Fwy / IH 69 / US 59	W Loop Fwy / IH 610	South Fwy / SH 288
3	2	Travis	IH 35	US 290 N / SS69	Ben White Blvd / SH 71
4	4	Dallas	Woodall Rodgers Fwy / SS 366	US 75	N Beckley Ave
→ 5	5	Harris	Eastex Fwy / IH 69 / US 59	SH 288	IH 10
6	24	Tarrant	North Fwy / IH 35W / US 287	SH 183	IH 30
→ 7	7	Harris	Katy Fwy / IH 10 / US 90	N Eldridge Pkwy	Sam Houston Tollway W
8	6	Dallas	Stemmons Fwy / IH 35E / US 77	John W Carpenter / SH 183	Tom Landry Fwy / IH 30
9	10	Dallas	US 75	LBJ / IH 635	Woodall Rodgers Fwy / SS 366
→ 10	9	Harris	North Fwy / IH 45	Sam Houston Tollway N	N Loop Fwy / IH 610



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Facing the Challenges Ahead

- TxDOT recognizes that building roads is not the only way to address traffic congestion
 - TxDOT cannot solve the problem alone—it's going to take teamwork and participation from everyone



- Congestion can be reduced by focusing on three key strategies
 - strategically adding road capacity
 - operating the system we have more efficiently
 - providing choices that help manage transportation demand

Facing the Challenges Ahead (cont.)

- Shifting transportation landscape is changing the way we travel
 - Innovative technologies
 - Innovative partnerships
 - Societal trends (millennials, urbanization)
 - Mobility trends (AV/CV, TNC, carsharing, TDM, ridehailing, MaaS)
- Advances in mobility present historic opportunities for agencies, cities, and regions...
 - but they also pose significant challenges



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FHWA ATCMTD 2016 Award Recipient Houston ConnectSmart

Houston ConnectSmart Grant

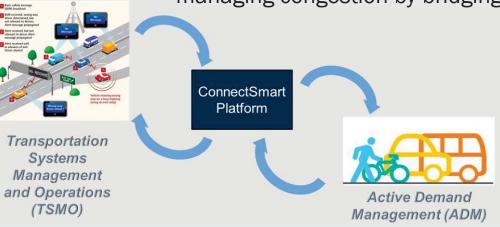
- USDOT initiatives aimed at promoting the use of advanced and innovative technologies in transportation:
 - Advanced Transportation and Congestion Management Technologies
 Deployment (ATCMTD)
 - Funds cutting-edge transportation technologies that help reduce congestion and improve the safety of our transportation system
- TxDOT Houston District Grant
 - Three year technology deployment and implementation program

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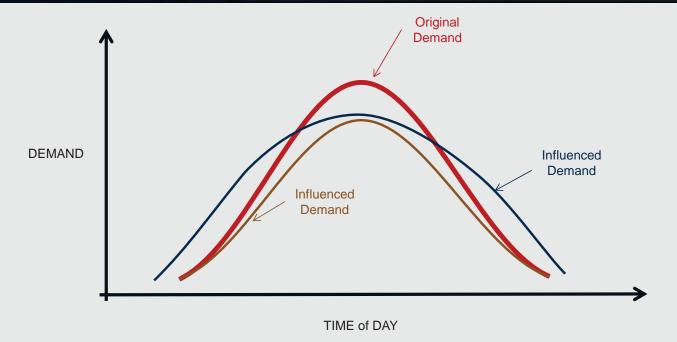
Houston ConnectSmart

an integrated platform providing solutions for managing congestion by bridging



Making Houston
Less Congested and
More Connected

Bridging TSMO and ADM (cont.)



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Partnerships

Prime Agency



Public Partners









- Private Partners
 - Developers, transportation/mobility providers, technology providers
- Academic Partners
 - To provide research and innovation

Going Beyond

- This project serves as the springboard for:
 - Future regional comprehensive public-private collaborations
 - Future mobility management methods
- Inclusive, scalable, adaptive, and robust for future application and expansion.
- Sustainable business models for financial sustainability.

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THANK YOU

TxDOT Houston District