2020 Houston TranStar Annual Report

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2020 Activity Highlights

A unique year (to say the least)

HCOHSEM
- COVID Activation in March (and still on-going)
- Vaccines, food distribution, mask provision
- Threats by Hurricanes Laura, Marco, Delta & TS Beta

- COH Traffic
  - LTE/5G Communications & Adaptive Traffic Control
- Harris County Traffic
  - Flashing Yellow Arrows & LED Traffic Signal Replacement
- METRO – Silver Line - Bus Rapid Transit
- TxDOT – Expanded ITS on SH 6, I-69, and SH 249
RIMS Entered Incidents, 2010-2020
(97,169 incidents in 2020 (down 13.8% from 2019)
Crash/Accident Clearance

- 14,475 Crashes/Accidents in 2020 (15.7 percent decrease from 2019)
- Average Clearance Time in 2020 – 30.8 minutes (27.4 in 2019)
- Regionally - Fatalities up 12.6%; Serious Injuries up 2.0%

Annual Crashes and Clearance Times
Motorist Assistance Program

- HCSO MAP – 27,411 total assists (27,414 in 2019)
- Expansion of program to 24 hours a day, Monday-Friday
- With Tow-And-Go expansion in County, more focus on scene management

MAP Program Assists by Year

- Reported Assists
- 2010: 40,599
- 2011: 41,801
- 2012: 32,867
- 2013: 27,736
- 2014: 24,479
- 2015: 29,118
- 2016: 46,725
- 2017: 53,623
- 2018: 29,758
- 2019: 27,414
- 2020: 27,411

- Average Response Time
  - 2010: 11.1 Min
  - 2011: 12.3 Min
  - 2012: 24.8 Min
  - 2013: 13.9 Min
  - 2014: 17.0 Min
  - 2015: 19.2 Min
  - 2016: 27.4 Min
  - 2017: 30.4 Min
  - 2018: 20.2 Min
  - 2019: 17.1 Min
  - 2020: 18.4 Min
Tow and Go (SAFEClear)

• 30,968 programmatic (free-tow) assists in 2020 (Down 4.9% from 2019)
• Average 16.5 minute clearance time – Same as 2019
• Program expanded into parts of Harris County in 2020

ANNUAL TOW-AND-GO/SAFECLEAR ASSISTS, 2010-2020
Houston TranStar Website

- Average monthly unique users at 386,700; down 44.2% from 2019
- 161 million CCTV views, down 48.1% from 2019
- Over 23,281 WebApp Installations in 2020 (down 56.8% from 2019)

Houston TranStar Website Unique Users 2010-2020
How Are TranStar’s Benefits Calculated?

• Estimate impact of Center on:
  • Mobility (primarily freeway & tollway)
  • Travel time & delay
  • Energy and environmental benefits

• Uses both quantitative and qualitative measures

• Most sensitive to:
  • Vehicle-miles traveled (↑)
  • Value of Motorist Time (↑)
  • Fuel Price (↑)
  • Speed (↓)
Estimated TranStar Benefits

$193.8 million in user cost & fuel savings
6.9 million vehicle-hours of delay
13.0 million gallons of fuel
$23.6 million annualized cost

2020 B/C ratio = 8.2 (2019 = 21.8)
TranStar Lifetime Benefit = $7.3 billion

Key Factors for Decrease

• Less traffic – faster speeds and less delay
• Faster speeds – less fuel burned in slow and stopped traffic
• Decrease in price of fuel – value of gas saved lower
• Older projects fully depreciated – no longer included in annual cost calculations
Questions?