CURRENT PROGRAM CHALLENGES

Texas Legislator Opposition

Limited Enforcement Resources

Inconvenience

Fraud

Ghost Vehicles

Lack of Tailpipe Data

We Can Do Better!
Short Term—OBDII Data Transmission Via Dongle

Remote transfer of current OBDII data to centralized information hub via commercially available telematics device attached to OBDII port

PHASE 1 - OBDII DATA COLLECTION/TRANSMISSION VIA "DONGLE"
Department of Environmental Quality Program to Allow Remote OBDII Inspections

OBDII Telematics Device
Businesses lend or rent OBDII wireless dongles; once plugged in the emissions test completes in minutes after wirelessly transmitting results to state

Telematics Providers
Plans to partner with always-on in-vehicle telematics providers
Medium Term—Automatic Collection of Vehicle Tailpipe Data

Remotely collect and transmit real-time emission data from vehicle exhaust to a centralized information hub via on-road differential optical absorption spectroscopy equipment to determine vehicle compliance.
Colorado’s RapidScreen

Remote Sensing with Testing Instrumentation
Similar to Texas program
Predetermined highway on-ramp locations
Measure tailpipe emissions using light detection and ranging (LIDAR)
Inspection process conducted by mail

http://aircarecolorado.com/index.php/rapidscreen/
AUTOMATIC COLLECTION OF VEHICLE TAILPIPE EMISSIONS DATA

East Central Scotland Vehicle Emissions Partnership

Overhead Technology Reading Vehicle Tailpipe Data

Pilot project using emission detection and reporting (EDAR) to measure the pollutants generated by vehicles driving in real world conditions

Considerable differences were found between the real world and specified emissions for vehicles

Long Term—Next Generation OBD Development and Implementation

Integrate sensors into vehicle to continuously monitor real-time emission levels and transmit data to central hub for compliance use; notify the driver when emission levels exceed standard.
Real Time Information to Drivers

Integrating vehicle speed and destination for transportation system enhancement allowing reduced congestion and delay

Next Gen OBD Vehicle Inspections

Utilize V2I for vehicle emissions inspections, including transmission of actual emissions readings
### Comparison of Three Phases

<table>
<thead>
<tr>
<th>Benefit</th>
<th>Current System</th>
<th>Short Term</th>
<th>Medium Term</th>
<th>Long Term</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>OBDII</td>
<td>OBDII</td>
<td>OBDIII</td>
</tr>
<tr>
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<td>✔</td>
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<td>✔</td>
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<td>✘</td>
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<tr>
<td>Minimize Fraud</td>
<td>✘</td>
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International Group of Jurisdictions and Practitioners
Share information about HDDV I/M programs and coordinate research and planning efforts

Need Regulatory Programs to Monitor HDDV Emissions
Group focused on identifying remote sensing device/service specifications to attract commercial interest

Next Generation OBD System
Sensors in a vehicle’s emissions control system to continuously monitor real-time emissions levels and send to central information hub, to verify compliance and air quality modeling data
AirCheckTexas Drive a Clean Machine Program

State Vehicle Repair and Replacement Assistance Program

Seeking TSIA Support
$140 Million in Clean Air Account Appropriations in 86th Texas Legislative Session

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