Movement to Asset Level Data

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FedFleet 2019
Asset Level Data (ALD): What Is It?

This is the biggest Federal fleet data collection change in nearly 20 years!
Asset Level Data (ALD): What Is It?

What changes and why?

ALD changes the existing highly aggregated picture of total motor vehicle cost, mileage, and fuel consumption into individual motor vehicle performance data.
Asset Level Data (ALD): What Is It?

- **Specific** detailed data reported for each vehicle
  - 60+ data elements grouped by:
    - Vehicle Attributes
    - Vehicle Ownership
    - Vehicle Special Characteristics
    - Operations and Cost Data
    - Fuel Consumption and Cost Data
    - Out-year Acquisition, Disposal, and Cost Projections
  - Complete list available:

- **Streamlined** and automated agency reporting processes (little or no manual input)

- **Significant** improvements to data quality and potential to shorten reporting periods

- **Expanded** new data analysis/benchmarking capabilities within the agency and Government-wide
Changing Data Shape: Old Collection Process

- Federal motor vehicle data has historically been collected at a broad aggregated summary level for each agency.

- Vehicle cost, mileage, and fuel use can be determined “per agency” but not “per vehicle”.

- Spotting the most (or least) costly vehicles or benchmarking is not possible at the Federal level.
Changing Data Shape:
Old Collection Process

= 30,000 Miles
Changing Data Shape:
Old Collection Process

X 500 Miles

X 9,500 Miles

X 20,000 Miles

= 30,000 Miles
Agency motor vehicle records are passed electronically from the agency’s management information system to the GSA/DOE reporting system (Federal Automotive Statistical Tool - FAST).
What Requires ALD Reporting?

• FMR102-34.335:
  Annually, agencies must submit to GSA the information needed through the Federal Automotive Statistical Tool (FAST).

• FMR102-34.340:
  You must have a fleet management information system at the department or agency level that—
  
  (a) Identifies and collects accurate inventory, cost, and use data that covers the complete lifecycle of each motor vehicle (acquisition, operation, maintenance, and disposal); and
  
  (b) Provides the information necessary to satisfy both internal and external reporting requirements, including:

  (1) Cost per mile;
  
  (2) Fuel costs for each motor vehicle; and
  
  (3) Data required for FAST.
Asset Level Data: Where Are We?

- Agencies have modified current or acquired fleet management information systems to capture ALD per-vehicle data elements.

- All agencies have reported ALD formatted data to FAST with some growing pains.

- Agencies have access to the FAST “Sandbox” testing and training environment. Users can upload an Excel or XML document containing ALD and immediately see validation results.

Need Help? Vehicle.Policy@GSA.Gov
You’ve Got Motor Vehicle Policy Questions?

We’ve Got Answers!

Vehicle.Policy@GSA.Gov
Effective ALD Reporting in FAST

• Agency-level fleet information system(s) in use
  - Coverage for entire fleet
  - Capturing all needed data elements
  - Capabilities to review data
  - Incorporation of ALD validation rules, where feasible

• Post-submission review of processes and data
  - “Where are the gaps and the rough patches?”
  - “What can we improve this year? ... next year?”
  - “What can we simplify?”

• Continual and/or early review of fleet information

• Institutionalize the value of and processes needed for good fleet information
Quality Considerations for Fleet Data

• Significant interest in new ALD dataset (e.g., organizations such as OMB, GAO)
  - “How good is the data?”

• OMB direction:
  - Agency leadership to provide summary of fleet data management processes and quality
  - GSA OGP to characterize data quality

• FAST Management Team implemented new review process to summarize data quality and agency responses:
  - Captures current state and future agency actions
  - Serves as baseline for evaluating improvements in quality
What Does the Future Hold for ALD?

• Continued emphasis on ensuring completeness and correctness of fleet data
  ➢ *New ways of reviewing data for potential issues*

• Per-vehicle data can be used for agency-level and government-wide analysis and benchmarking
  ➢ *New ways of viewing and using fleet data*

• Streamlining of reporting processes and data collection efforts
Questions?

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Analysis Using Asset Level Data

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FedFleet 2019
Presentation Outline

• Federal Fleet Report: Using Data to Answer Questions
  – How can we track trends at the government-wide and agency levels?
  – What is the current composition of an agency’s fleet by fuel type?
  – How does ownership type impact cost?

• Asset Level Data Analysis Capabilities

• What Does the Future Hold for ALD and Fleet Data Analysis?!
Federal Fleet Report: Revamped

- Federal Fleet Open Data Visualization uses the same data as the Federal Fleet Open Data Set in Excel but is designed in a more user friendly way
- Tool makes fleet data easier to understand and useful for informed decision making
- Publically available on D2D website for FY14-FY17 data

Government-Wide Summary

Easy to see changes from the previous year. We can see that inventory, miles traveled, fuel consumption, and vehicle cost all decreased across government as a whole from 2016 to 2017.
Government-Wide Summary

Five year trend data is easy to comprehend in a visual format.

Filters allow for user interactivity.
Walking Through a Sample Interactive Example at the Government-wide Level

How many agency owned vehicles did we acquire and dispose of over the last year government-wide for specific fuel types?

Note: Pursuant to guidance from the Environmental Protection Agency pertaining to §141 of the Energy Independence and Security Act (EISA), beginning in 2011 petroleum fueled vehicles meeting EPA’s definition of low greenhouse gas (GHG) vehicles may be considered alternative fuel vehicles (AFVs) when acquired for use in locations where alternative fuel is not available. Therefore, although these vehicles consume petroleum, agencies may consider them alternative fuel vehicles in the limited circumstances described.
Walking Through a Sample Interactive Example at the Agency Level

What is my agency’s cost in 2015 across all ownership types for Passenger Vehicles?
Filters allow users to make selections on how they want to see the data, and the data will dynamically update.

Data at the asset level allows for more detail such as specific vehicle model and fuel configuration information.

Hover over feature provides more information, such as cost information broken down to a more specific level.
Asset Level Data allows for more detailed analysis such as average miles traveled by vehicle age and average cost per mile by vehicle make and model.
Analysis can also explore annual costs, total inventory, operating costs versus annual miles traveled, etc. This can provide insight and inform decisions since there are many different ways to explore the data.
What Can We Look Forward to in the Next Year?

• ALD data will continue to bring us the ability to conduct much more in-depth analyses of our current fleets

• Data government-wide and at the agency level will be more reliable as the data becomes better to validate and check for errors

• ALD data can be used to inform policy decisions to make agency fleets more efficient

• Ultimately using data to drive smart decisions across the Federal Fleet!
Questions?

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