# The Importance of

# Fleet Management

to an Organization's Budget



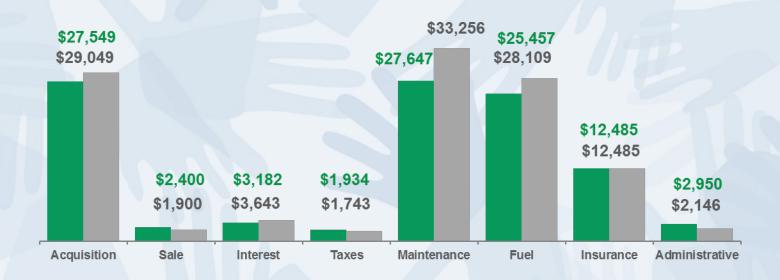
## **Objectives**

- Identify various components required to calculate the Total Cost of Ownership (TCO) of operating a fleet of vehicles.
- 2. Evaluate if self-managed fleet solutions or outsourced fleet management solutions are a better fit for your organization.
- 3. Identify and evaluate the financial and operational impacts of strategic fleet planning (planned timing of acquiring and selling fleet vehicles).

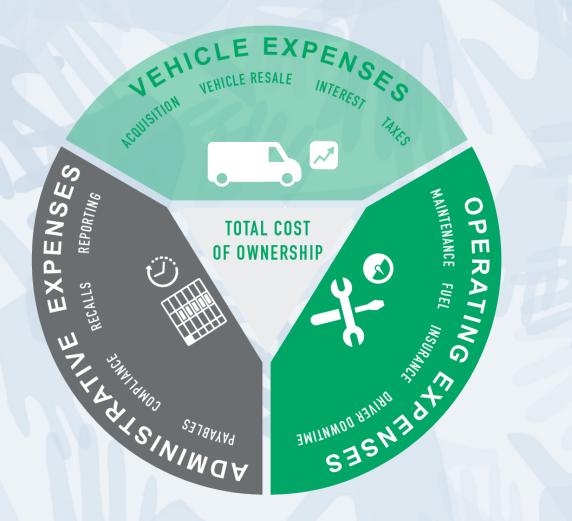
#### **Total Cost of Ownership**

Managed Vehicle vs. Internal Resources (Self Managed)





# **Expenses of Operating a Vehicle**Self Managed



Self Managed, Buy and Hold

**Vehicle Expenses** 

Depreciation		
Acquisition		
Vehicle Cost	\$29,049	
Aftermarket Equipment	\$2,000	
Sale of Vehicle		
@ 8 years, 200,000 miles	\$1,900	
Interest		
5 year loan interest rate	4.75%	
Taxes		
Sales Tax	6.00%	

Ford F-150 8 years 200,000 miles

Self Managed, Buy and Hold

Ford F-150 8 years 200,000 miles

#### **Operating Expenses**

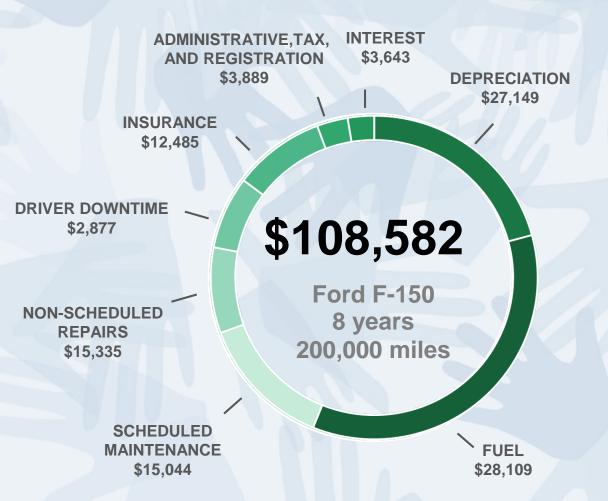
Maintenance	
Scheduled Maintenance	Provider's Recommendations
Unscheduled Repairs	Unknown
<b>Driver Downtime</b>	\$50/ day
Fuel	
Price / Gallon	\$2.65
Fuel Economy	21.50 MPG
Fuel Inflation	3.0%
Insurance	
Rate / Month	\$135

#### **Administrative Time and Resources**

- Vehicle Logistics
  - Determine right time to buy and sell
  - Manage the vehicle purchase process
  - Manage the aftermarket process
  - Coordinate vehicles in and out of service
  - Manage the vehicle resale process
- License & Title Compliance
- Recall Management
- Driver Training and Safety
- Reporting



# Cost of Operating a Vehicle Self Managed, Buy and Hold





Additional Considerations		
Income Tax Rate	35%	
<b>Cost of Capital</b>	4.75%	
<b>Annual Inflation</b>	2%	

Source: Internal Data
Total amount is determined without consideration
for Income Tax, time value of money (present
value) concepts or inflation. Assumes a holding
period of 8 years at 25,000 miles per year.

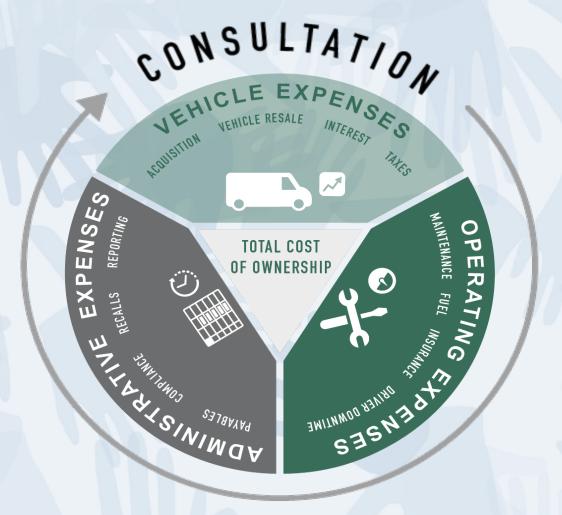
Self Managed, Buy and Hold





Current IRS Standard Rate for Business Mileage Reimbursement is 54.5¢ per mile

# Total Cost of Operating a Vehicle Managed Fleet



# **Fleet Management**

Having an expert opinion to evaluate industry trends and consult on business needs in order to plan ahead for the future.



#### **Business Peaks**

- Business growth, need vehicles fast.
- Don't use capital for purchases.
- Don't overpay because of unnecessary equipment and lack of dealer inventory.

#### **Business Valleys**

- Idle Vehicles = Idle Capital
- Don't sell in "fire-sale" mentality, may not get a good price
- Don't Hold unused/unneeded equipment

## **Analogy**

#### Fleet Manager is Similar to a Tax Professional

#### **Tax Professional**

Tax Professionals implement proper cash flow planning techniques and ensure all proper deductions for constantly-changing tax codes are filed properly.

#### Fleet Manager

A Fleet Manager designs a flexible vehicle plan to ensure the business <u>minimizes costs</u> and <u>liabilities</u> concerning one of its largest company investments – its vehicles.

A company can operate without professional advice, but it's likely to cost more long term.

## The Role of Fleet Management Managing and Controlling Costs

- Vehicle Financing
- Vehicle Acquisition
- Monitor and Controlling Operating Costs
  - Maintenance and Repair
  - Fuel
- Vehicle Sale
- Vehicle and Driver Safety
- Vehicle Replacement Strategy
- Administrative Time and Effort

# **Vehicle Finance Options**





Self Funded / Cash



Finance / Loan



**Lease Options** 

#### **Vehicle Lease Options**

#### **Close End Lease**

- Traditional Dealer Lease Financing
- Risk remains with the lessor
- Terms of the lease are fixed
- Mileage restrictions
- Penalties:
  - Wear and tear
  - Early term

#### **Open End Lease**

- Optimize cash flow with flexible lease options
- Customer retains all rights to Equity
- Terms of the lease are open
- Risk remains with the lessee
- No mileage restrictions
- No penalties:
  - Wear and tear
  - Early term

#### **Open End Lease**

#### **Example**

Monthly Depreciation Rate, 36 Month Term	2.00%
Capitalized Cost	\$20,000
Book Depreciation	\$14,400
Book Value	\$5,600
Selling Price	\$6,600
Equity	\$1,000
Actual Lessee Cost (Economic Depreciation)	\$13,400

- Equity: If vehicle sells for \$5,600 the customer owes nothing; if the vehicle sells for \$4,600 the customer owes \$1,000.
- The structure of the lease offers both a flexible finance option as well as a set term that
  acts as a trigger to analyze the Hold vs. Replace decision.

## **Vehicle Acquisition**



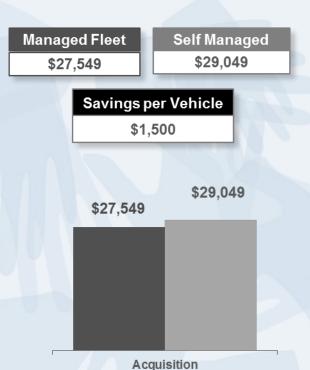
**Vehicle Selection** 



Factory Order vs. Stock



Aftermarket Equipment Process



#### **Vehicle Selection**

**52** F-150 MODEL OPTIONS

(without adding colors, interior options)

\$25,000 to \$40,000+ PRICE RANGE

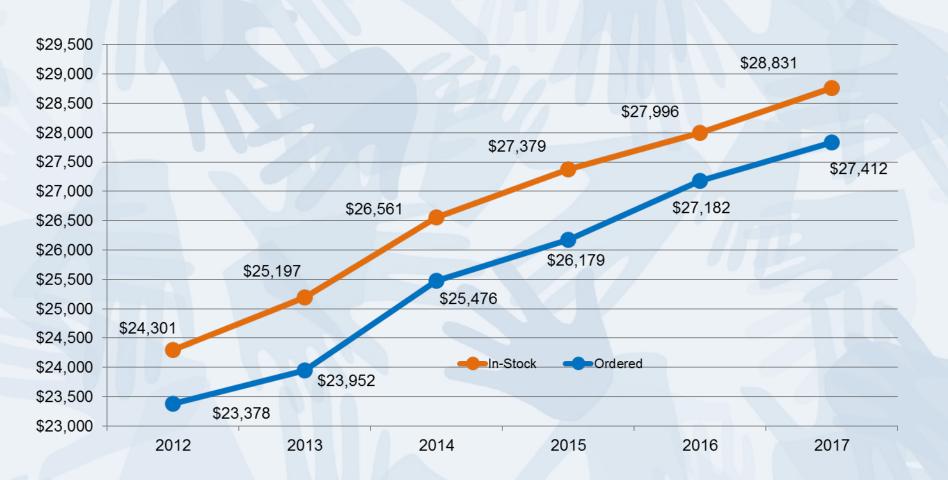


\$500 to \$1,000+ FOR OPTIONS

There are approximately 2,200 different series of vehicles and constantly changing incentives each year.

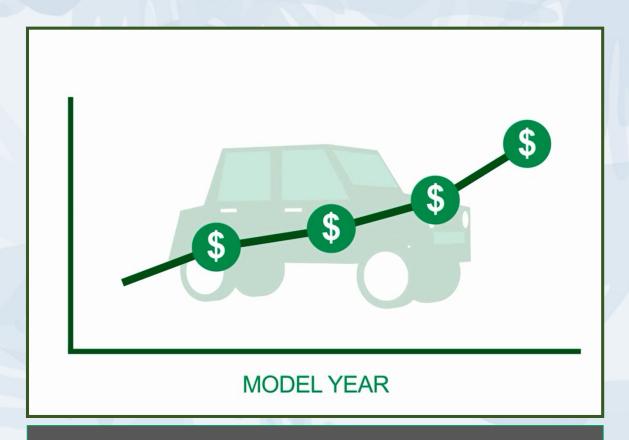
# **Vehicle Acquisition Factory Order vs. Stock**

Average Savings of \$1,000+ per vehicle



#### **Vehicle Acquisition**

**Planning Ahead** 



Manufacturer prices can increase up to 4x within the same model year

Companies save thousands of dollars by:

- Proactive Replacement Plan
- Incentive Strategies
- Ordering Early in Model Year

## **Vehicle Acquisition**

#### **Aftermarket Process**

- Manage logistics
- Timing: quotes take anywhere from a week to months depending on the inventory and complexity of the order
- Cash gets tied up in assets with no off-setting revenue
- High probability of mistakes during ordering process



## **Outsourcing Fleet Management**

Questions to Ask

- How many vehicles does the company need to operate?
- Is an additional source of capital important to the business?
- Have all vehicle manufacturers and class options been evaluated specific to the organization's needs?
- Is the business equipped to analyze the new products that enter the market (i.e., Hybrids, compressed natural gas, electric, etc.)?

Think of an existing client with a fleet of vehicles and ask these questions.

## **Maintenance & Repairs**



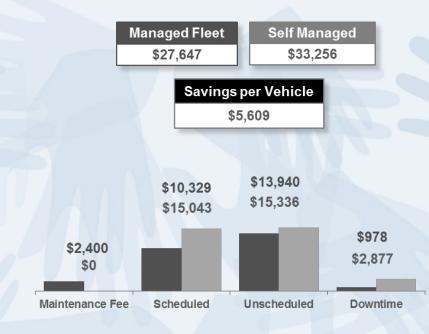
**Scheduled Maintenance** 



**Unscheduled Repairs** 



**Driver Downtime** 



#### Scheduled Maintenance, Wear & Tear

1/2 Ton Truck, 200,000 Miles

Service	Count	Cost	Total
Oil Change	40	\$35	\$1,400
Tire Rotation	20	\$25	\$500
Air Filter	13	\$35	\$455
Wiper Blades	13	\$50	\$650
Fuel Filter	8	\$80	\$640
<b>Brake Sets</b>	6	\$470	\$2,820
Tires	6	\$700	\$4,200



An outsourced Maintenance Management Program provides technical assistance to evaluate proper service intervals.

#### **Unscheduled Repairs**

1/2 Ton Truck, 200,000 Miles



Component	Cost
Electrical	\$370
Cooling System	\$500
Braking	\$520
Steering / Suspension	\$620
Fuel System	\$710
Transmission Replacement	\$3,800
Engine Replacement	\$6,000

The Unknown

A Managed Maintenance Program will identify appropriate repairs, available manufacturer assistance and/or warranties and negotiate pricing.

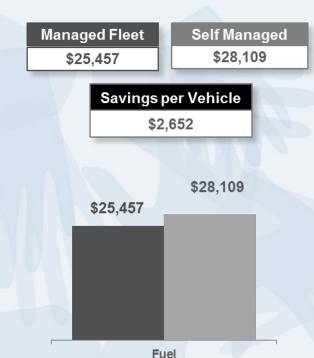
**Managed Maintenance Program Benefits Technical Oversight Driver & Public** Cost **Safety** Savings Managed Maintenance **Program** Reduced Reporting/ Visibility **Driver Downtime** 

# Fuel Program Benefits



Fuel is often the most expensive operational costs associated to owning a fleet.

- Program Rebates
- Tracking & Reporting
- Security & Purchase Controls
- Convenience

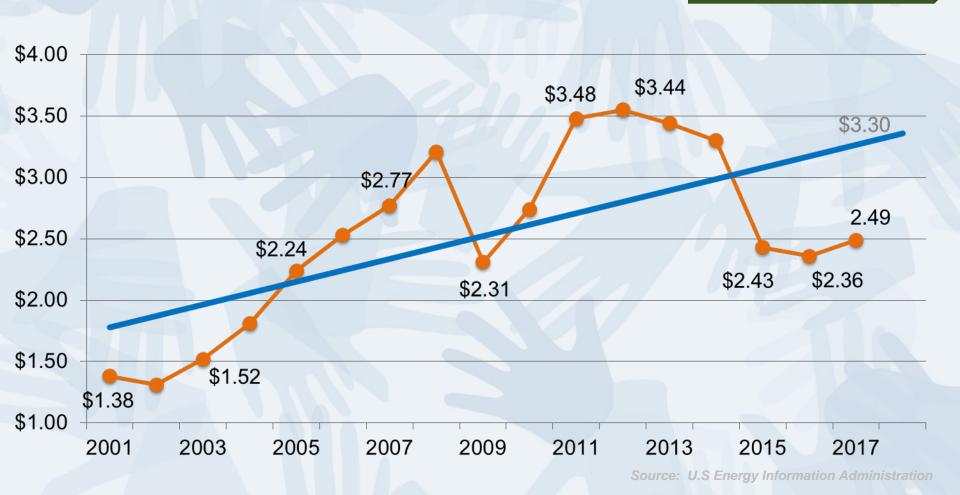


\$33,872 per vehicle

#### **Fuel Prices**

Average Unleaded Fuel PPG 2001-2017

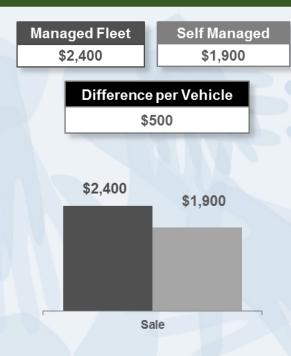
Average Annual Price Increase of 4%



#### **Vehicle Sale**

Maximum Value with Easy Selling Process

- Industry experts will plan and coordinate the best time to sell.
- Optimal exposure through multiple resale channels.
- Minimal staff time.
- Equity is maximized.



# **Outsourcing Fleet Management**

Questions to Ask

- Does someone with automotive experience approve all company vehicle maintenance and repair expenditures?
- What mileage intervals are all vehicles being serviced?
- Are maintenance expenses tracked on a vehicleby-vehicle basis?
- Is vehicle downtime a significant detriment to the business?
- Is it difficult to dispose of vehicles during a business downturn?
- Does the company own any idle vehicles?

Think of an existing client with a fleet of vehicles and ask these questions.

Self Managed Program vs. Managed Fleet Program

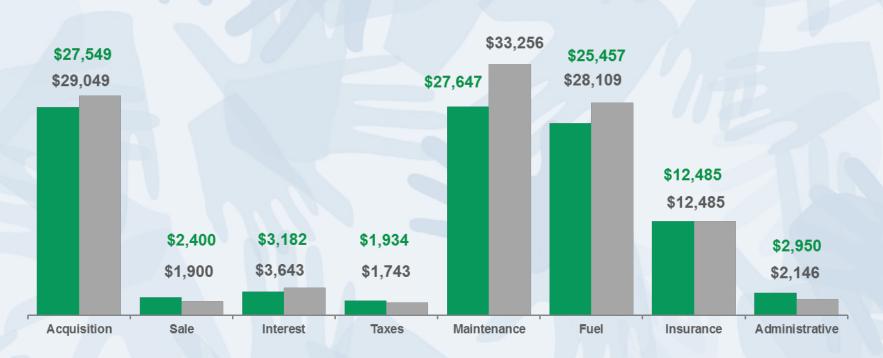
Managed Fleet \$98,804 \$108,582

Savings per Vehicle

\$9,778

Ford F-150 8 years 200,000 miles

Managed Fleet Considerations		
Interest Rate	4.45%	
Administrative Fee	\$25 per Month	
Managed Maintenance Fee	\$25 per Month	
Other End of Term Fees	\$300	



IGFOA ANNUAL CONFERENCE • SEPTEMBER 8-10, 2019

Self Managed Program vs. Managed Fleet Program



#### **Total Cost Savings**

\$488,885

Self Managed Program	
Total Cost	\$5,429,083
Average Annual Spend	\$678,635
Cents Per Mile	54¢
Present Value	\$3,002,831

Managed Fleet Program	
Total Cost	\$4,940,198
Average Annual Spend	\$617,525
Cents Per Mile	49¢
Present Value	\$2,718,248

#### **Current IRS Standard Rate for**

Business Mileage Reimbursement is 53.5¢ per mile

#### The Decision to Replace

Value of a Replacement Strategy

The Lease Term acts as a "trigger" and can be used to implement a Replacement Strategy establishing a predetermined period of time.

Analyze the *Objective and Subjective* components of the Replacement decision and ask:

What if we drive a new vehicle 4 more years rather than drive the existing vehicle 4 more years?

•What if there is a major unscheduled repair?

•What if new car prices increase?

•What if used car prices decrease?

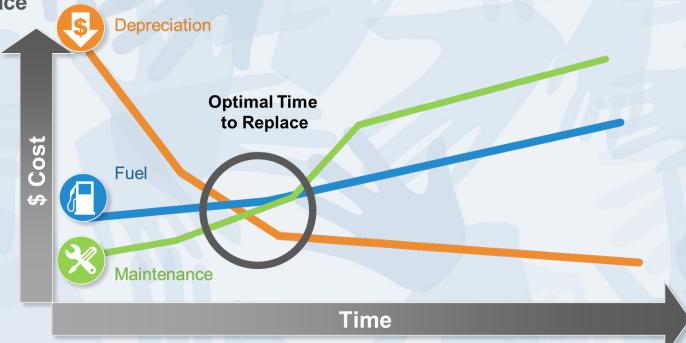
•What if fuel prices rise greater than the inflation rate?

#### **Optimal Time to Replace**

#### Recommending the Best Economic Decision

- Does it make economic sense to replace at a specific point in time based on the Objective and Subjective facts as we know them today
- Decision to replace is a combination of managing inherent risk of ongoing operating expenses

Need to consolidate and track all vehicle costs to determine the optimal time to replace



#### The Decision to Replace

#### Manage and Mitigate Risk of Unknown Expenses

#### **Objective:**

What We Know

#### Subjective:

What We Anticipate Will Happen

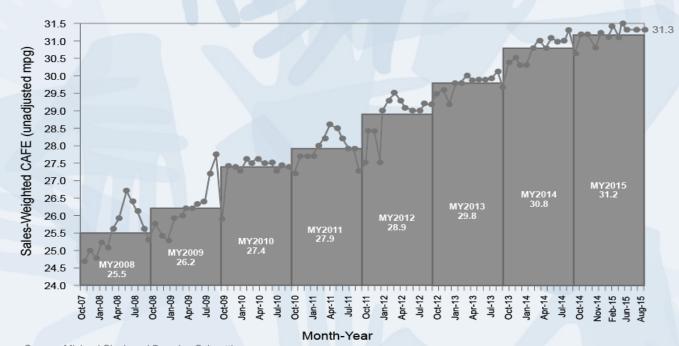
- Cost of a new vehicle
- Value of the existing vehicle
- Scheduled maintenance

- New car prices
- Used car market
- Non-scheduled repairs
- Fuel prices
- Fuel economy

## **Fuel Economy**

#### Corporate Average Fuel Economy

- Requires Manufacturers to improve fuel economy between 3.5% and 5% every year through 2025
- Buyer preferences for SUVs and trucks are making it hard for automakers to hit the 54.5 MPG CAFE requirements by 2025.



Source: Michael Sivak and Brandon Schoettle
University of Michigan Transportation Research Institute, http://www.umich.edu/~umtriswt/EDI\_sales-weighted-CAFE.html

Since 2007
MPG is up

26%
for all vehicles

# CAFE Requirements 2017 thru 2025

Passenger Cars
Average from 34.1 to 54.5

Light Trucks\*
Minimum average of 30.2
MPG

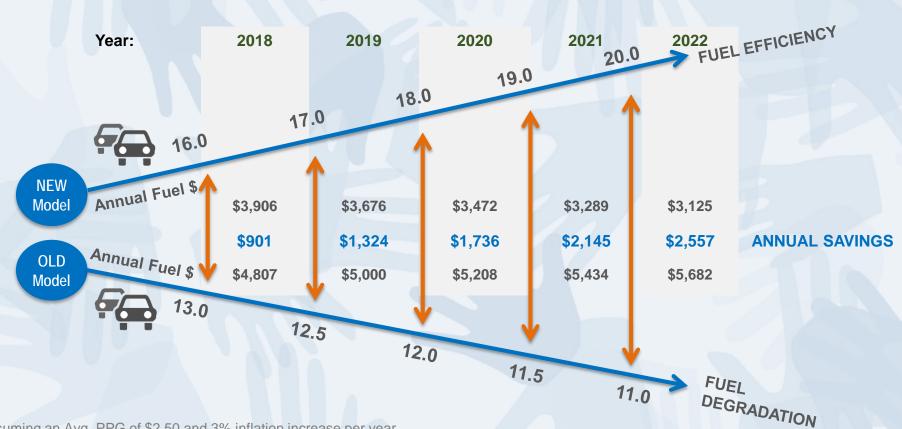
# CAFE Requirements thru 2016

**Passenger Cars** 33.3 to 37.8 (4.5 MPG)

Light Trucks\* 25.4 to 28.8 (3.4 MPG)

## Fuel Miles per Gallon

Newer Efficient Models vs Older Less Efficient Models



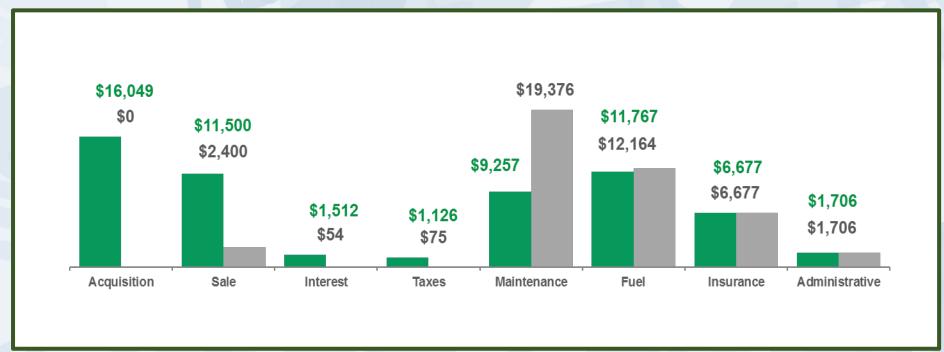
Assuming an Avg. PPG of \$2.50 and 3% inflation increase per year Assuming Annual mileage of 25K per Year

#### Replacement Analysis

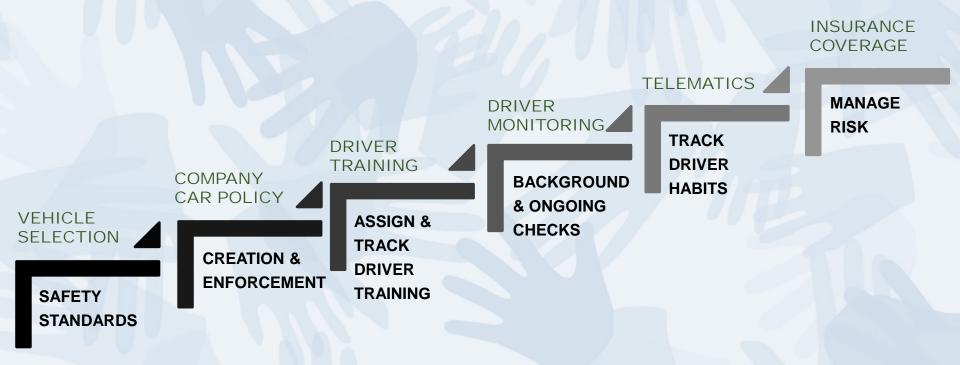
New Vehicle 4 Years vs. Existing Vehicle 4 More Years



Ford F-150 4 Years 100,000 miles



# Safety Professional Programs



# Administrative Benefits of a Managed Fleet Solution

- Vehicle Logistics
  - Determine right time to buy and sell
  - Manage the vehicle purchase process
  - Manage the aftermarket process
  - Coordinate vehicles in and out of service
  - Manage the vehicle resale process
- License & Title Compliance
- Recall Management
- Driver Training and Safety
- Reporting

National Avg. Salary for a full-time Fleet Manager: \$58,207

## **Outsourcing Fleet Management**

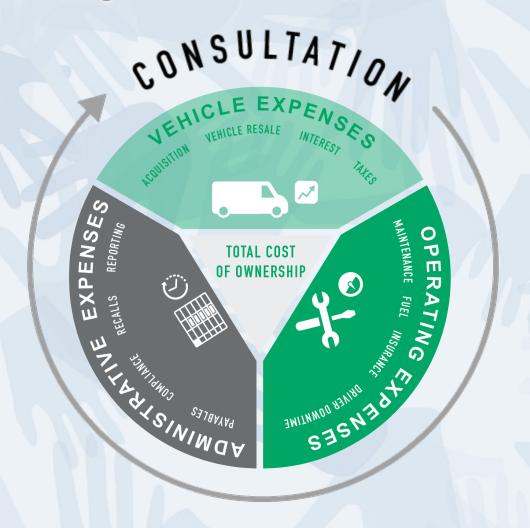
Questions to Ask

- What is the total annual spend for Total Cost of Ownership?
- Is there a strategy in place if fuel prices rise significantly or used car prices drop drastically?
- Are there any plans or expectations specific to driver safety?
- Is the administrative time and effort being spent to manage the fleet an appropriate use of business resources?

Think of an existing client with a fleet of vehicles and ask these questions.

#### **Total Cost of Operating a Vehicle**

Benefits of a Managed Fleet Solution



# Questions? Thank you.