

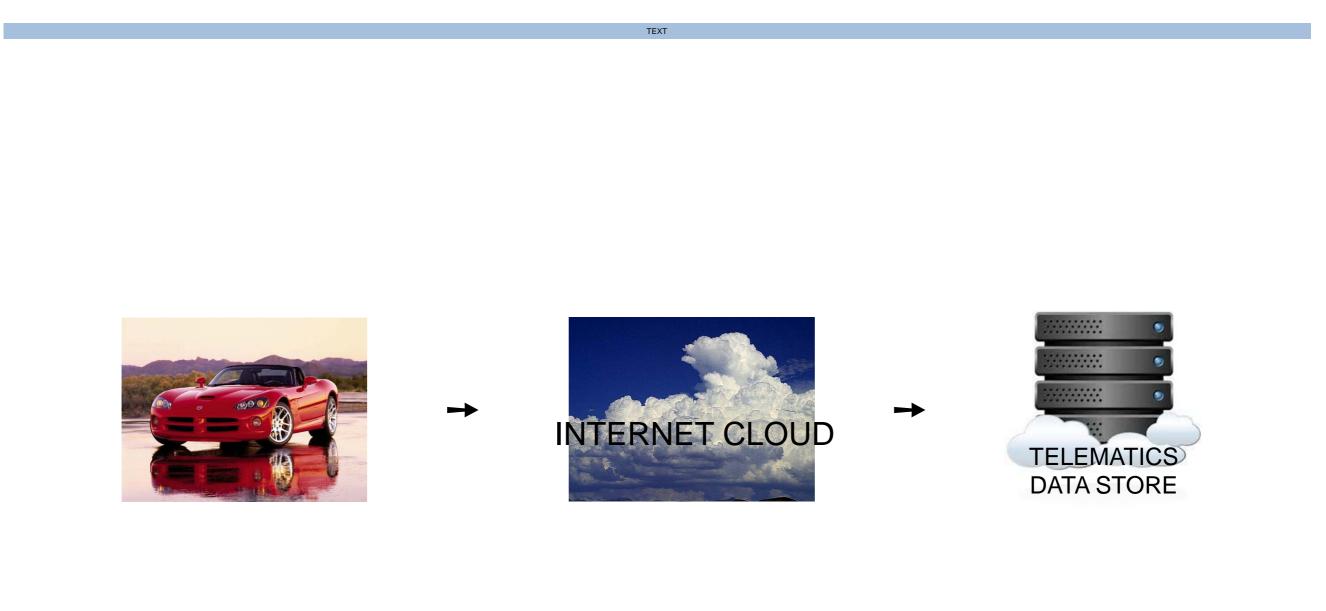


The Future of the connected car

Ian MacKinnon – SVP Business Development

Automotive Data Drives e-Commerce





INFORMATION=\$\$

AUTOADVANTAGE GROUP, CONFIDENTIAL



* Analysts predict 90M+ vehicles will have Internet Connection to Head Unit via Smartphone by 2016

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- # Juniper: by 2016, Almost all new vehicles will ship with an internet connected infotainment system installed
- ***** Mary Meeker: Vehicle top 3 Internet White Space
- # 144M Americans spend an average of 52 minutes/day in their vehicles-76% are alone.....a virtually untapped, captive audience



- ***** Average Miles: 1500/month
- **Average age of US consumer fleet=11 years vs 8.4 years in 1995 (AAIA)**

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- **Size of US consumer fleet in 2011=240.5M (Polk Data)**
- ***** Total annual maintenance/repair expenditure=150B*
- Estimated average annual expense per vehicle=\$5,500

-insurance**	\$ 800
-gas	\$3,400 (1500 miles/month, 18 mpg, \$3.50/gal)
-maintenance/service	\$1,300 (\$145B/112M households)

AAIA: AUTOMOTIVE AFTERMARKET INDUSTRY ASSOCIATION *NAICS 8111, Y2007 **NAICS 8111, Y2000



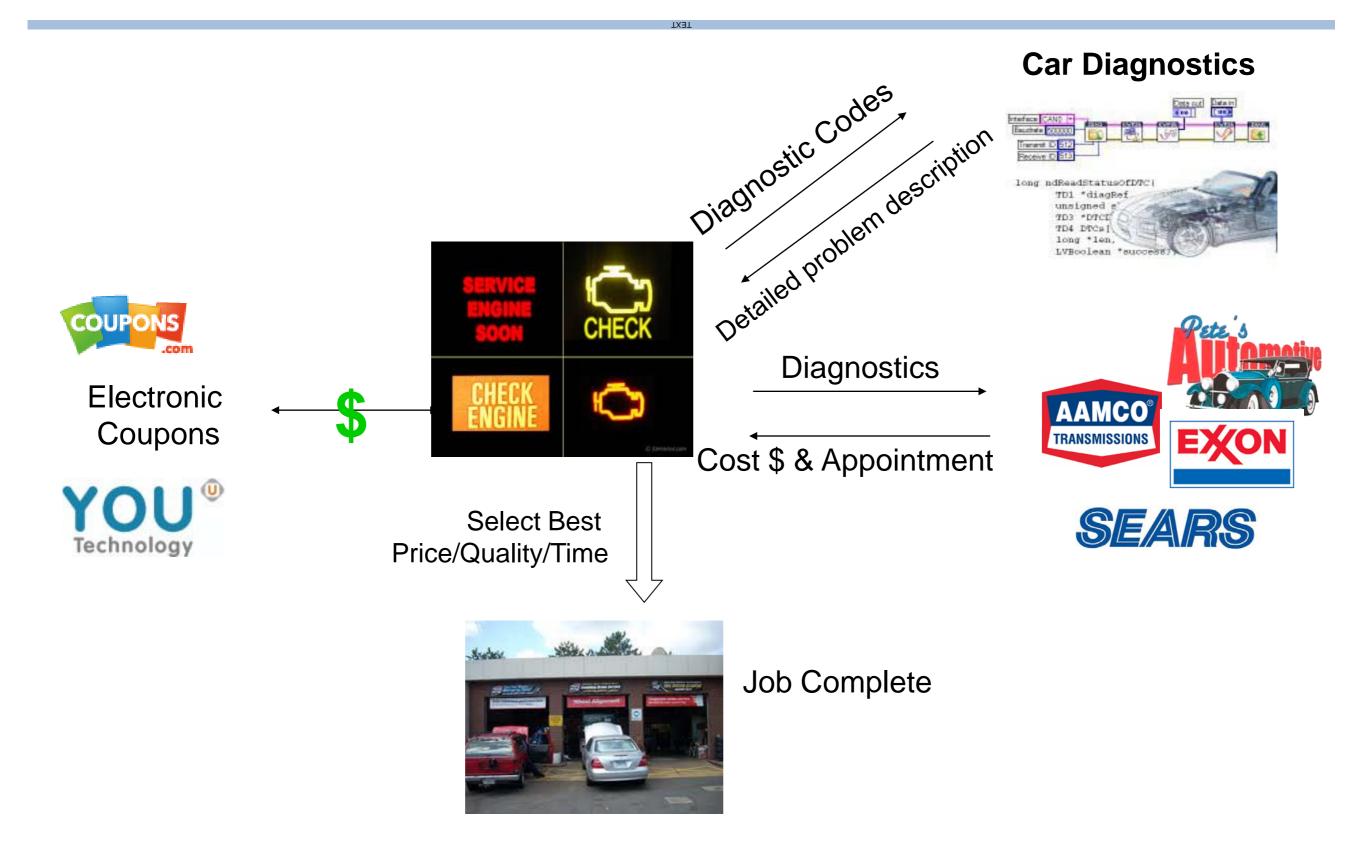
Getting Your Car Fixed is a Pain



TEXT

A better process!







Fuel Finder



Issues with OBD device



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- Getting the data
 - Data plan (\$5/month?) plus cost of device plus installation
 - Use of smart phone Feds not happy
 - Installation reliability
- * Available data limited
 - Limited diagnostics and data e.g. odometer, miles per gallon, mtce reminders
 - Fuel level not always available
- ***** Display of data on smartphone!!

Benefits of infotainment system



Getting the data

- Use of smart phone just for transmission
- Vehicles will be connected at low cost
- No installation issues
- * Available data
 - All is available if OEM chooses
- Display on screen driver friendly!

XТ





The Future of the connected car the Infotainement system

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