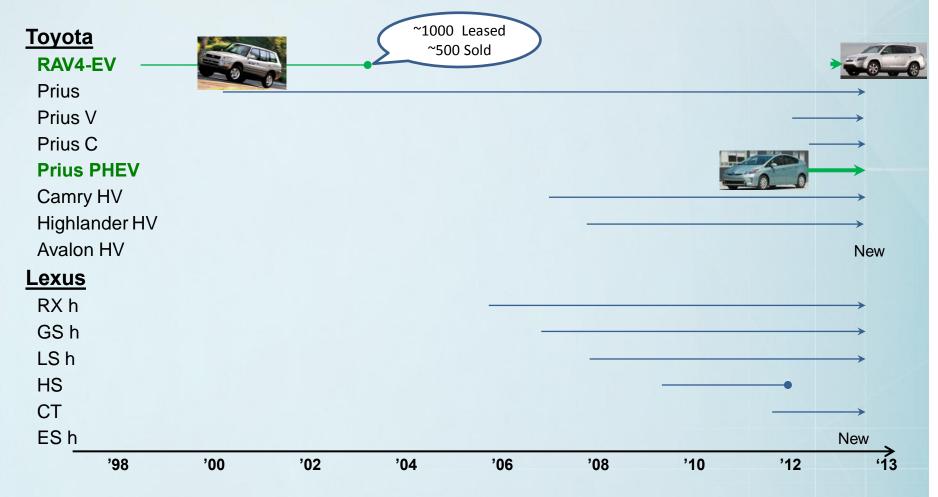
PEVs and the Consumer

Mobile Sources Technical Review Subcommittee
Bob Wimmer
Toyota Motor North America

December 13, 2012

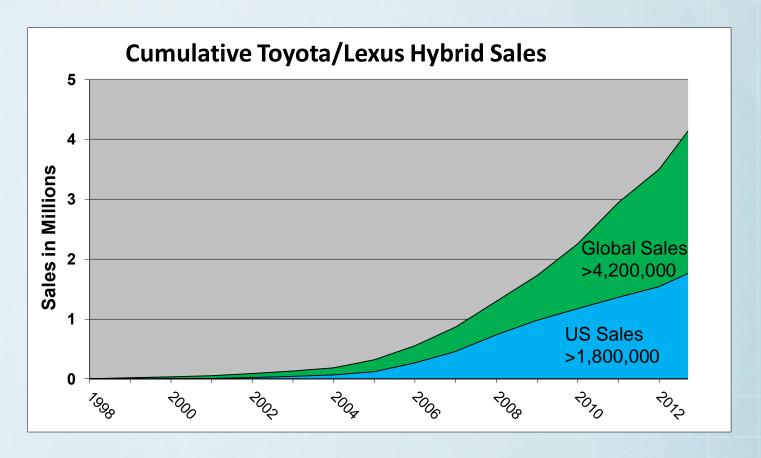


Toyota Electrification History



15 years of electrified vehicle design, manufacturing and marketing experience

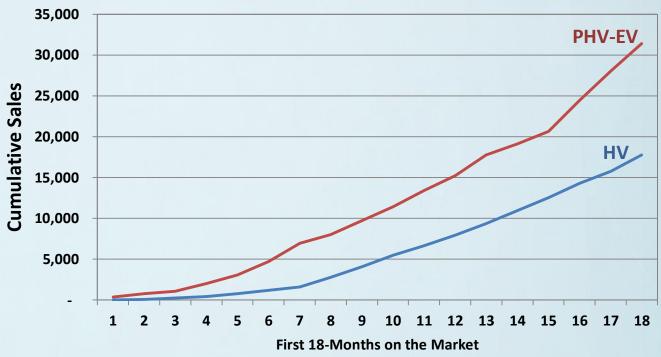
Market Growth Takes Time



Over 15% of Toyota's year to date sales are hybrids

Today's PEV Market

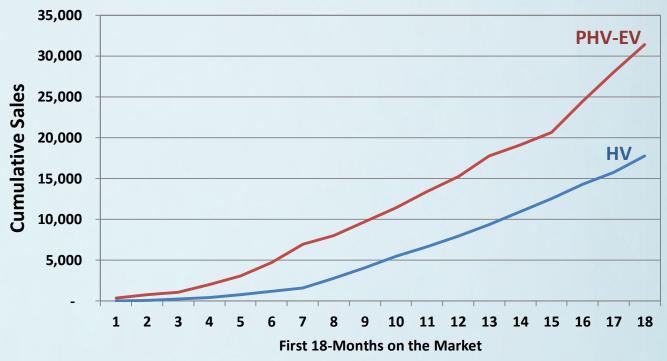
Early HV Sales vs Early PHV-EV Sales (US Market)



Initial PEV sales out paced hybrids, but

Significant Market Differences

Early HV Sales vs Early PHV-EV Sales (US Market)



The major differences from a decade ago

Average Weekly Real Gasoline Price During each 18-Month Period

2000 ⇒ \$1.52 Now ⇒ \$3.58

Average Federal Incentive During each 18-Month Period

2000 ⇒ \$0 Now ⇒ \$6,918

PEV Market Size in 2012

Over 35,000 PEVs sold so far in 2012



~ the same as Porsche

For every one EV sold

• There are 4 PHEVs sold



1550 conventional vehicles sold

PHEV Buyer Demographics

Vehicle	Median Age	College	Median Income	Male
Prius	Mid-50s	Grad School	<\$100k	~ ½
Prius PHEV	Early 50s	½ Grad School	>\$150k	> 3/4
Lexus	60	Most	<\$150k	~ ½
RAV4	Late 50s	1/2	<\$75k	~ 1/3
RAV4-EV	Similar	Highly Educated	Affluent	~ 3⁄4

Prius PHEV "Image"

- Environmentally friendly
- Innovative
- Technologically advanced

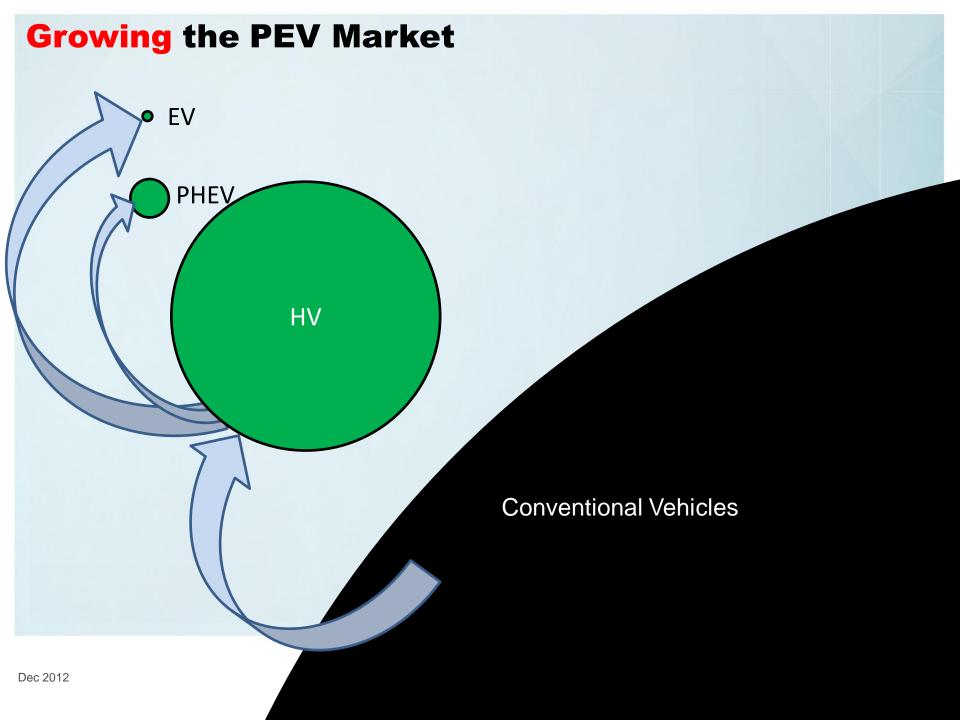
Similar % to Prius v & c

Limited Cross Shopping

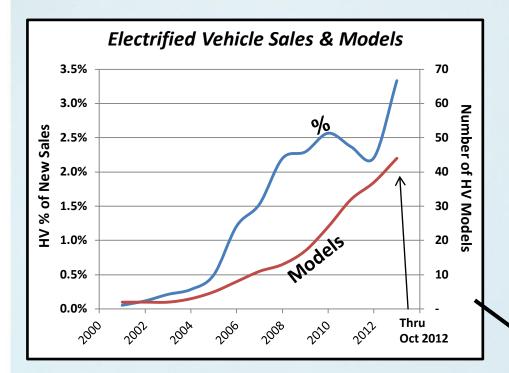
- 35% with Volt
- 25% with Leaf
- 5% with Prius

Reasons for Buying Prius PHEV

- EV & high MPG as HV
- Gov incentive (rebate, carpool sticker, etc.)
- Fuel economy

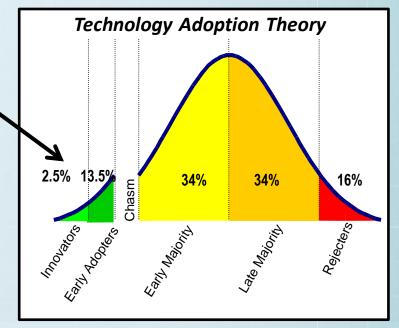


Technology Adoption Accelerating



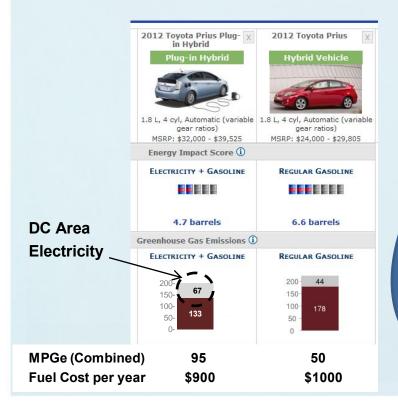
Best year yet for electrified vehicle sales

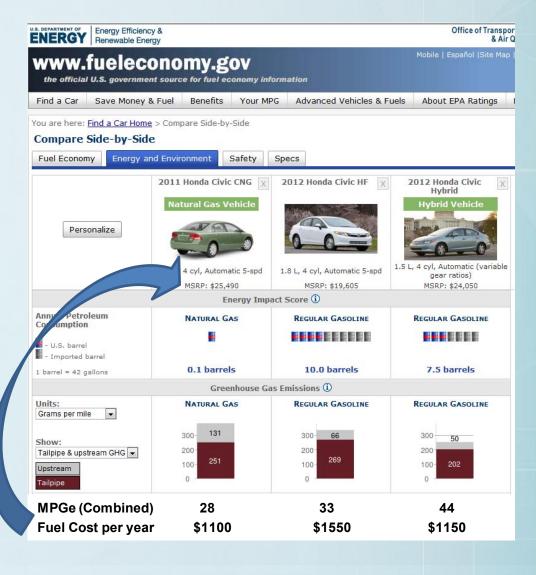
Not yet mainstream – must jump chasm



Your Mileage May Vary

- Consumers are overwhelmed with data
- ➤ How to choose???





PEV Market Growth will Require

- **⇒** Time
- *⇒* Significant expansion of hybrids
- **⇒** Greater appeal to a broader demographic







Thank You For Your Attention





