



2014 Global Automotive Consumer Study: Exploring consumer preferences and mobility choices in Europe

19 September 2014

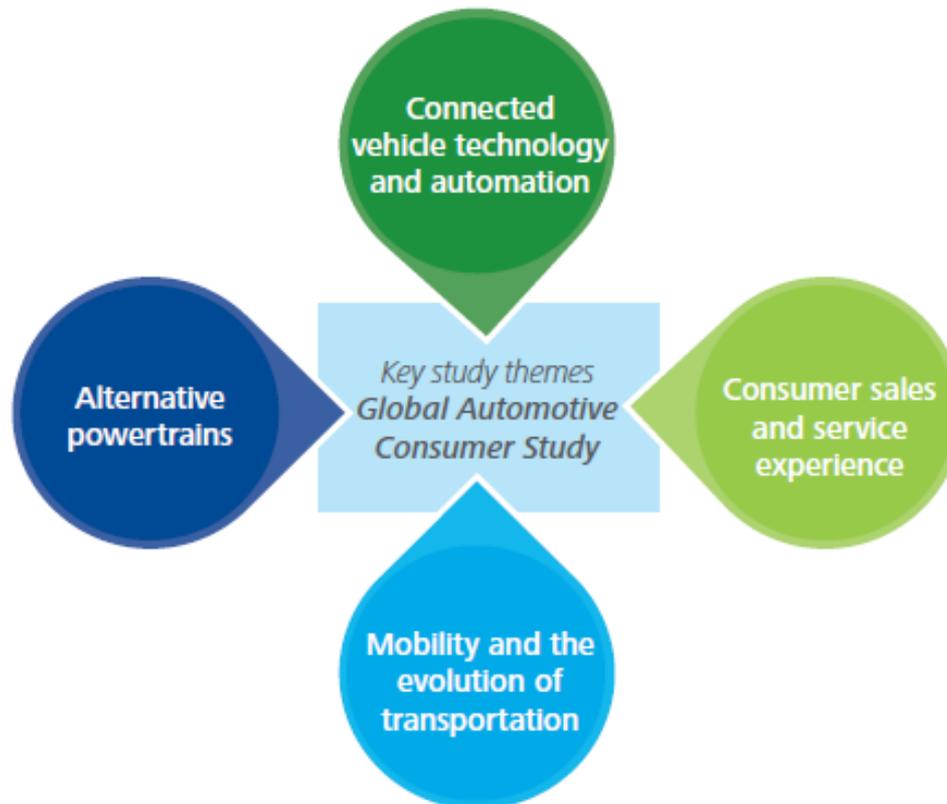


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About the 2014 Global Consumer Study

- The study, initiated in 2013 by the Deloitte Touche Tohmatsu (DTTL) Limited Global Manufacturing Industry group, focused on “the changing nature of mobility” and how the consumption of mobility affects various aspects of the automobile buying and ownership experience
- Within the mobility theme, the survey also covered questions around alternative powertrains, 1



Research background

Why Conduct a Global Automotive Consumer Study?

As these powerful and dynamic forces continue to take shape, consumer mobility preferences are rapidly evolving.



Hyper-urbanization



Generational views



Connected technology and software

Description	Hyper-urbanization	Generational views	Connected technology and software
Impact	<ul style="list-style-type: none"> In 2006, the world reached a critical midpoint with over half of the world's population living in a city. The trend is expected to accelerate, with approximately 70% of the world's population expected to live in cities by 2050.³ Overcrowding, the realities of traffic, and new capabilities enabled by technology are leading to more collaborative approaches to transport. For example, the "sharing economy," driverless cars, and improved public transportation. This trend has the potential to threaten vehicle sales, particularly in developed economies where profit margins are higher today. 	<ul style="list-style-type: none"> Baby Boomers, Gen X, and Gen Y consumers view their mobility needs and preferences differently. While Baby Boomers tend to gravitate toward traditional vehicle ownership models, younger generations are highly interested in models that provide access to mobility, allow them to remain connected (and productive), at a reduced cost. These differing expectations of mobility, along with disruptions of traditional ownership models, will change how original equipment manufacturers (OEMs) engage their customers. This fundamental shift in buying behavior with a new generation of consumers present significant opportunities and challenges for OEMs. 	<ul style="list-style-type: none"> Innovations in Vehicle to Vehicle (V2V) and Vehicle to Infrastructure (V2I) connectivity, mobile phones, apps, and smart card technology are disrupting the automotive industry. Consumers will likely expect experiences that go beyond the sales or service transaction and leverage technology to integrate with their connected lifestyles—both inside and outside of the vehicle. The formerly clear lines—between humans and machines, between ownership and non-ownership, between goods and services—will blur as a result of connectivity and the information generated and used interchangeably by people and machines.



Digital exhaust

Convergence of the public and private sectors

Sustainability and environmental concerns

Description

- Automobiles and infrastructure will generate a large amount of digital exhaust that will create both opportunities and challenges for consumers, manufacturers, government, and businesses. Every action taken can be measured and quantified in the connected vehicle of the future.
- This data provides opportunities for a more integrated and seamless mobility system.

- Government will likely not be able to fully fund nor take primary responsibility for the requirements supporting tomorrow's transportation systems.
- The sheer complexity of transportation systems of the future will likely require many players to be involved.

- Continued concerns regarding environmental sustainability and a focus on improving fuel efficiency are leading to ever increasing government targets and expectations in countries around the world such as EU 2020: 60.6 miles per gallon, Japan 2020: 55.1 miles per gallon, and U.S. 2025: 54.5 miles per gallon.⁴
- Automakers are being challenged to develop more fuel efficient engines and alternative powertrains to comply with the evolving standards.

Impact

- If used correctly, this data could allow for automotive and non-automotive companies to gain insight on the consumer behavior and vehicle performance, as well as identify new potential growth opportunities and/or business models.
- Because data will be produced across disparate sources, management and integration of the data will be the barrier to optimizing the use of the data.

- The mass adoption and use of new public transportation, electric cars, and autonomous/driverless cars, and the supporting infrastructure requirements is likely to require increased public-private collaborations to address both development costs and ongoing operations.

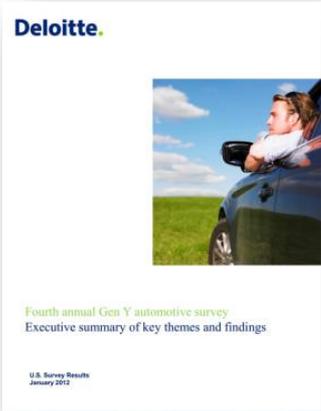
- In the future, consumers will have the ability to choose from a mix of proven powertrain options that best meet their lifestyle needs and are competitively priced – including more efficient internal combustion engines, electric vehicles (EVs), hybrid electric, and vehicles powered by natural gas.

⁴The International Council on Clean Transportation, *Global Comparison of Light-Duty Vehicle Fuel Economy/GHG Emissions Standards*, June 2012.

About DTTL's Global Automotive Consumer Research

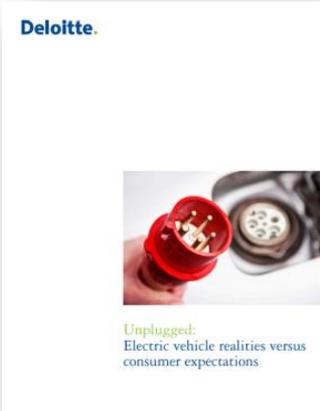
The 2014 Global Automotive Consumer Study builds on DTTL's previous automotive consumer research.

Gen Y



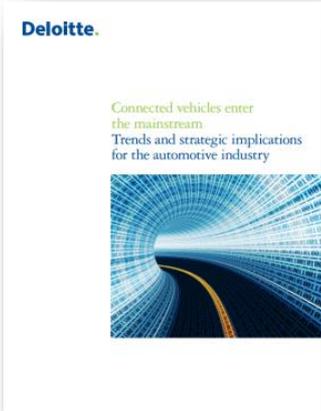
www.deloitte.com/us/geny

Electric vehicles



www.deloitte.com/us/electricvehicles

Connected vehicles*



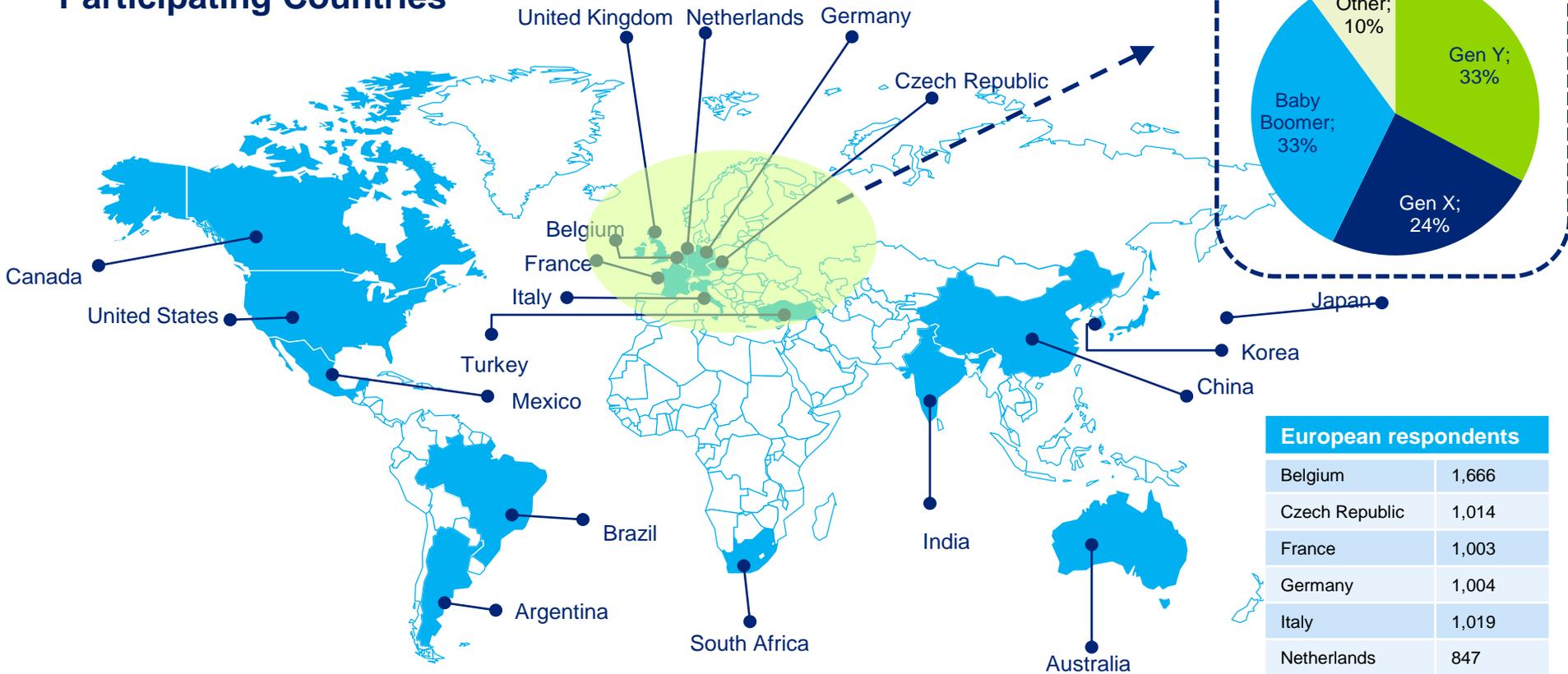
www.deloitte.com/us/connectedvehicles

* US respondents only

The *2014 Global Automotive Consumer Study* is based on a survey of over 23,000 consumers in 19 countries.

The key findings and insights in this publication are based on responses in Europe* to the survey.

Participating Countries



European respondents	
Belgium	1,666
Czech Republic	1,014
France	1,003
Germany	1,004
Italy	1,019
Netherlands	847
Turkey	979
UK	1,066

* Europe in the 2014 Global Automotive Consumer Study consist of the following countries: Belgium, Czech Republic, France, Italy, Germany, Netherlands, Turkey, and UK.

Key study findings

Key findings about Gen Y consumers in Europe¹



Gen Y consumers in Europe¹ are interested in owning or leasing vehicles with around **75%** planning to purchase or lease a vehicle *within the next five years*

44% of consumers think they will be driving an alternative fuel vehicle five years from now, and they are willing to pay more for it²



Reasons for Gen Y not buying: **high costs** and **affordability** are the primary factors

Factors that will motivate Gen Y to buy a vehicle: **Cheaper vehicles** that are **more fuel efficient**



Consumer interest decreases as autonomy increases, but Gen Y consumers are **more comfortable with advanced levels of autonomy**



Consumers see the **greatest benefits of vehicle technology** in improved safety and increased fuel efficiency



More than half of Gen Y consumers are influenced by **friends and family** during the purchase process

Gen Y consumers want **vehicle technologies** that protects them from themselves, including technologies that:

- Recognize the presence of other vehicles on the road
- Automatically block them from engaging in dangerous driving situations

¹ Eight European countries included in the study: Europe in the 2014 *Global Automotive Consumer Study* consist of the following countries: Belgium, Czech Republic, France, Italy, Germany, Netherlands, Turkey, and UK.

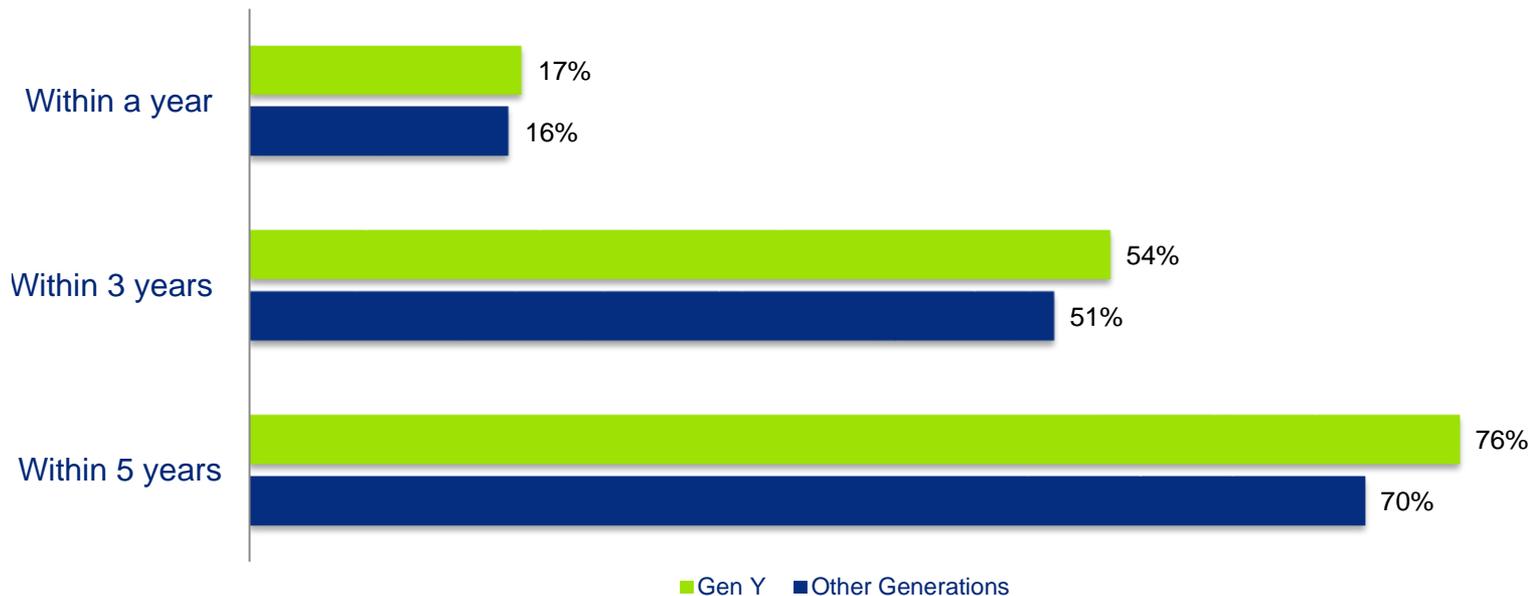
² Although cost is still a primary motivation

Results

Market potential

Over **75%** of Gen Y consumers in Europe plan to purchase or lease a vehicle **within the next five years**

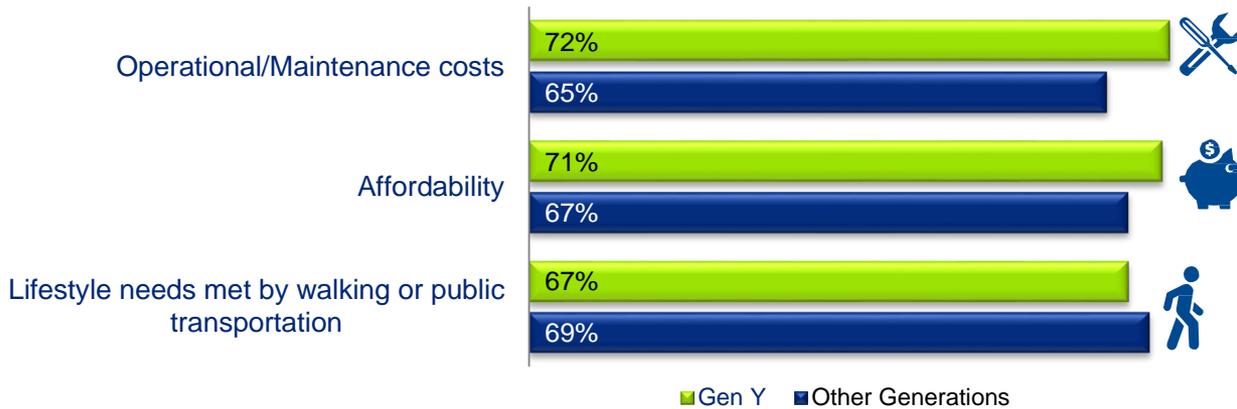
When do you expect to purchase or lease a vehicle?



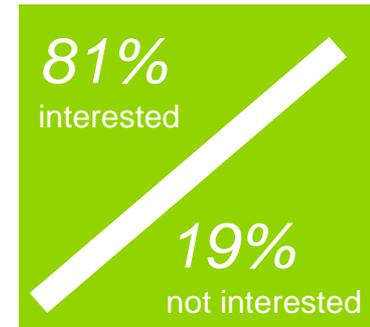
Decision criteria

Affordability and *cost* were cited as the top reasons for Gen Y not owning a vehicle. Most consumers also feel that their *lifestyle needs can be met by walking or public transportation*.

Top three reasons consumers in Europe don't buy



But are consumers interested* in buying?



(*In current models)

Note: "Strongly Agree" and "Agree" responses have been summed up together.

Top three things that would get Gen Y consumers in Europe into a vehicle



Note: "Much more likely" and "More likely" responses have been summed up together.

Driver profiles

Gen Y loves to drive, provided **cost is low** and it fits the demands of their lifestyle.

 Eco-friendly	 Low cost	 Convenience	 Utility	 Luxury	 Technology	 Love to drive
I make green choices in my life. When going somewhere, I want to do so in an eco-friendly manner, even if that means more time and money.	My total cost when going somewhere needs to be low, and I will choose a transportation option that is cheapest.	When going somewhere, I want to do so in the fastest and easiest way and am willing to use any transportation option to achieve this.	I have things to do and getting somewhere needs to fit the demands of my lifestyle. My transportation option must have the functionality to meet these demands (e.g., I require a truck to haul my equipment/tools).	I value luxury and want to be noticed when I go somewhere. I feel a sense of pride driving a luxury vehicle and am willing to pay more for the features and the brand name.	Connected technology is important to me when going somewhere. To do this, my transportation choice needs to be integrated with my electronic devices, and it needs to access, consume, and create information.	I look forward to driving because getting there is half the fun.

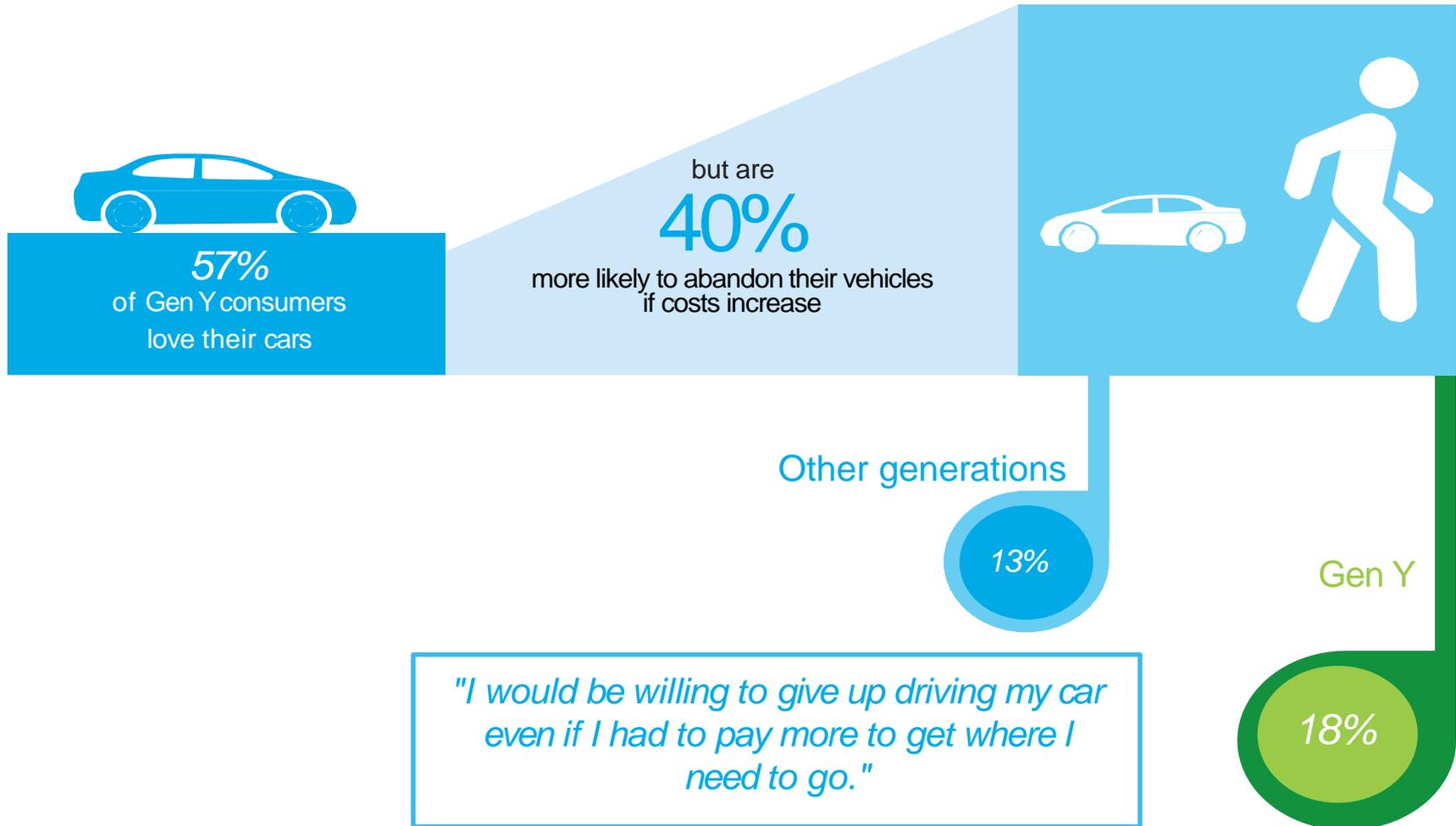
How would you describe yourself as a commuter?

Driver Profile Generational Comparison

Ranking	1	2	3	4	5	6	7
Gen Y							
Other Generations							

Vehicle loyalty

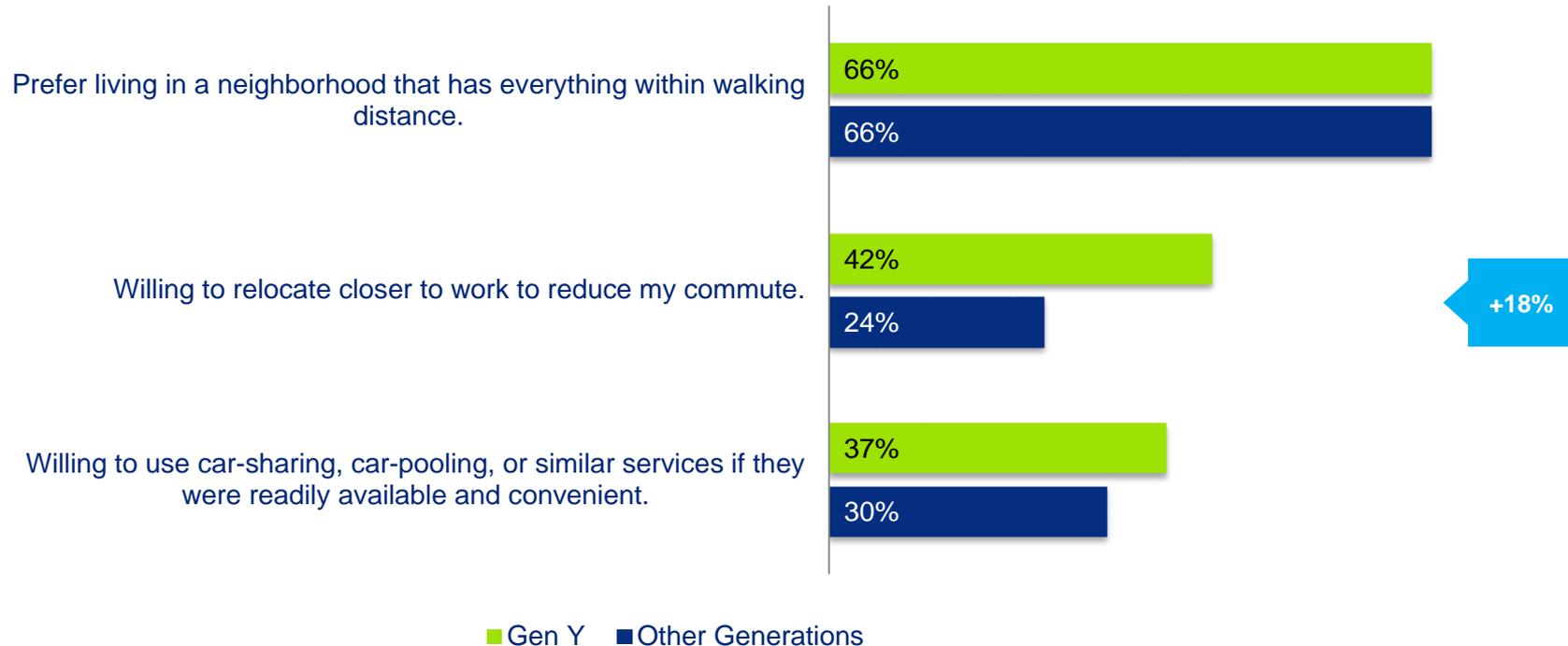
Gen Y consumers in Europe are interested in driving, with more than half of them choosing their personal car as their preferred mode of transportation



Factors that may influence *consumers' decision to abandon vehicle ownership*

Lifestyle is a primary reason

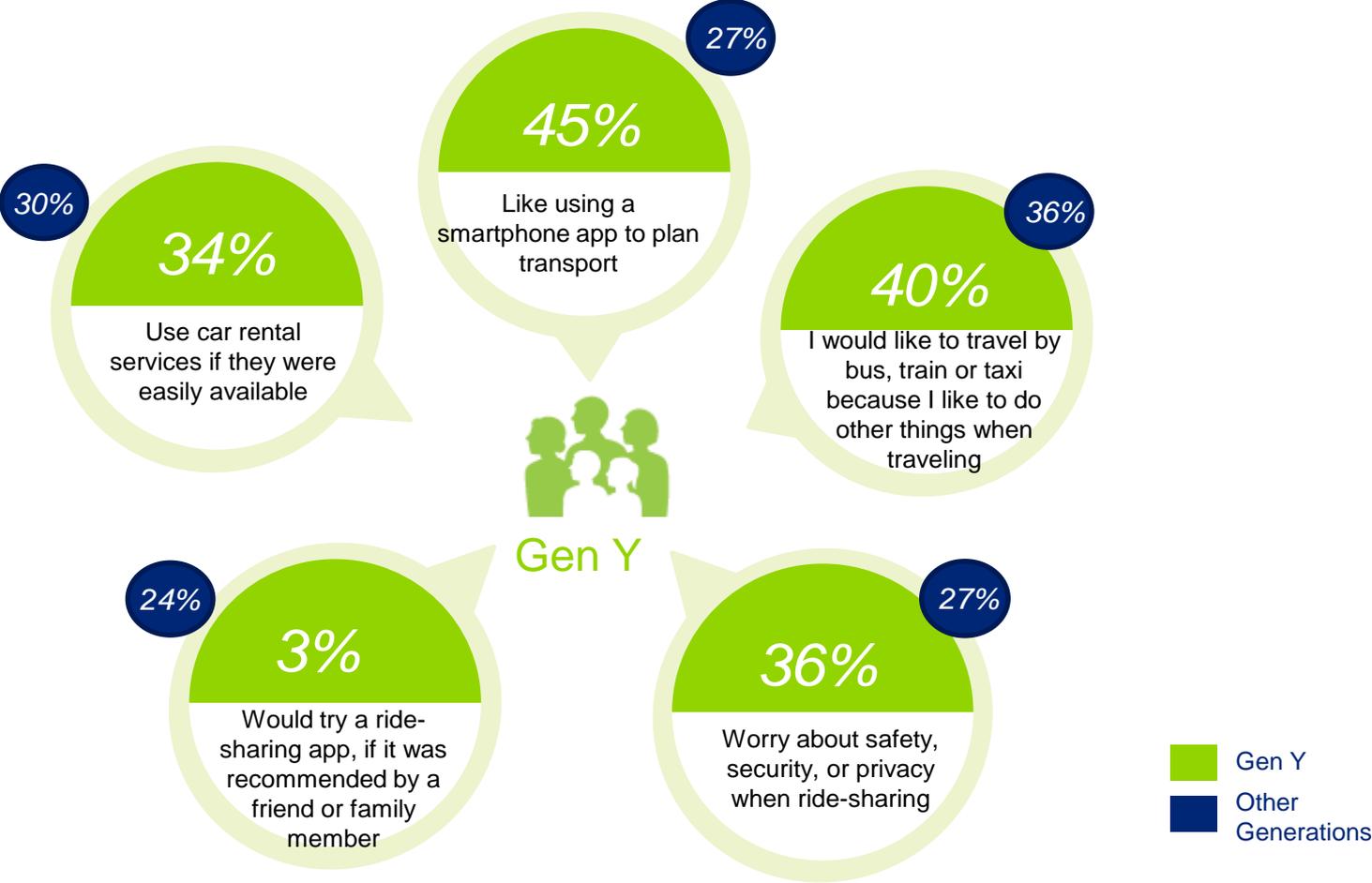
How much do you agree with each of the following statements?



Note: "Strongly Agree" and "Agree" responses have been summed up together.

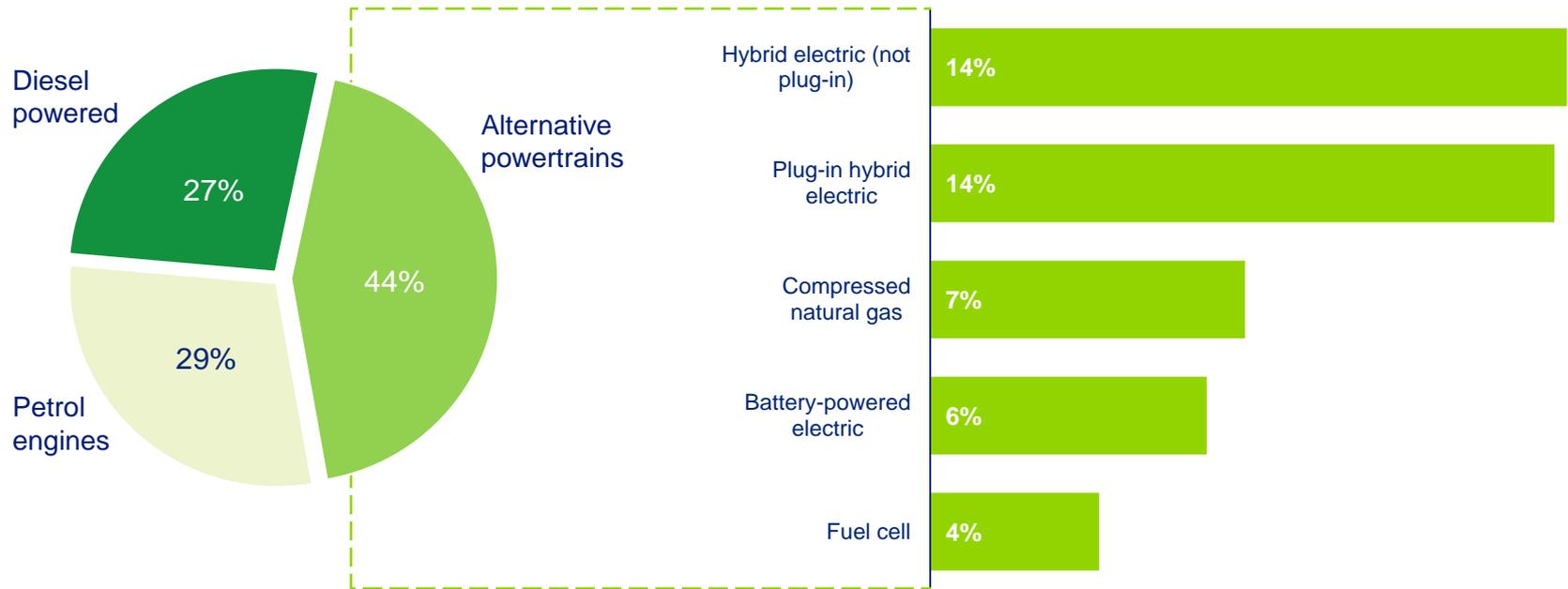
Consumers in Europe are interested in *alternative mobility options* that **reduce costs, and offer convenience as well as safety**, causing concern for automakers.

Percentage of Gen Y respondents that agree with the following statement:



Alternative engines and fuels

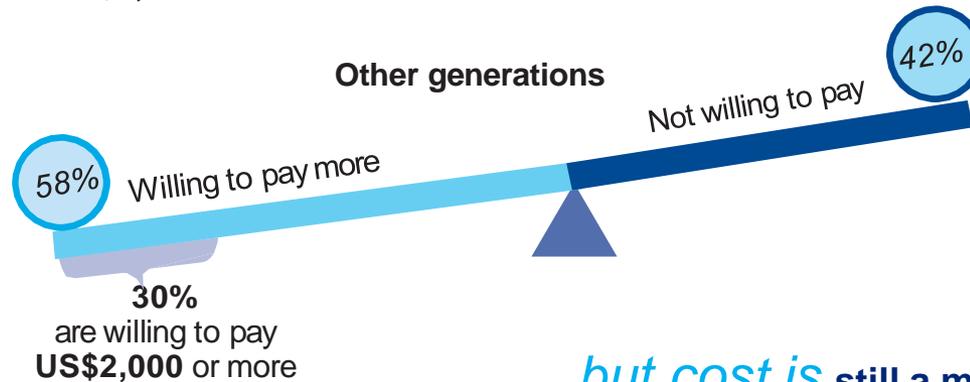
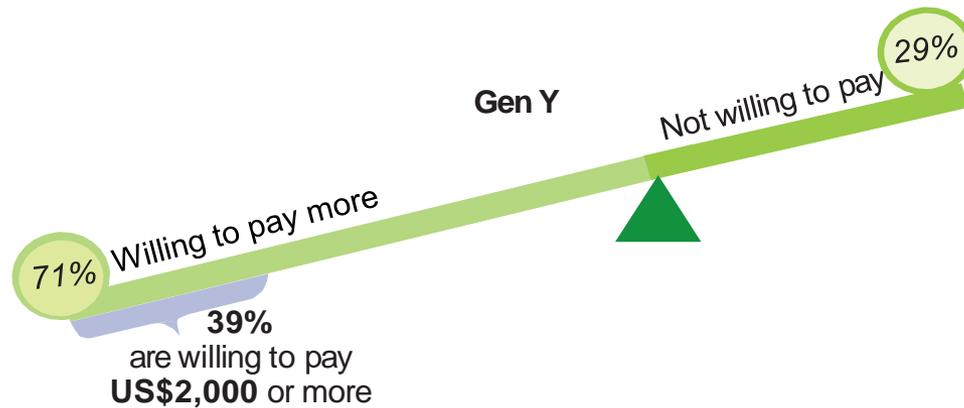
Less than half of the consumers in Europe would prefer to be driving an alternative powertrain five years from now



Today **58%** of consumers in Europe drive *petrol engine* vehicles and **39%** drive *diesel* operated vehicles.

Note: There was no statistical difference between Gen Y and other generation consumers

Gen Y is *willing to pay more* for an alternative powertrain...



...but cost is still a motivating factor



47%

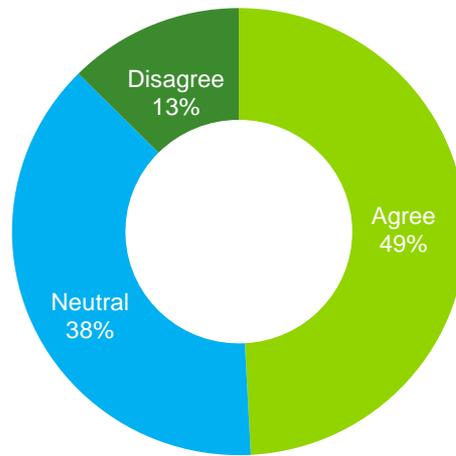
Of Gen Y consumers say “My motivation to purchase/lease an alternative powertrain would be driven more by my desire to save money on fuel rather than to save the environment.”



41%

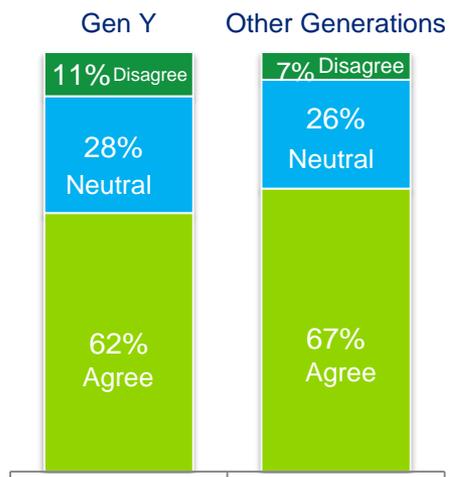
Of Gen Y consumers would prefer to drive a traditional vehicle if it could provide comparable fuel efficiency to vehicles with alternative powertrains.

About *half* of the consumers in Europe feel that there *are not enough alternative powertrain options* in the market, with around *two-thirds* preferring a broad range of **powertrain options** in each vehicle model



“Manufacturers don’t offer enough alternative fuel engines in vehicles I would actually want to drive”

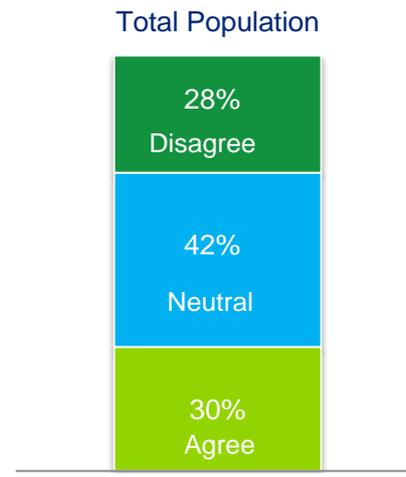
Alternative Engine Preference



Majority of the consumers prefer a range of engine options.....

*“I would prefer that manufacturers offer a **range of engine options** for each model that they produce.”*

.....but show less interest in specialized lines of vehicles that only have alternative engines

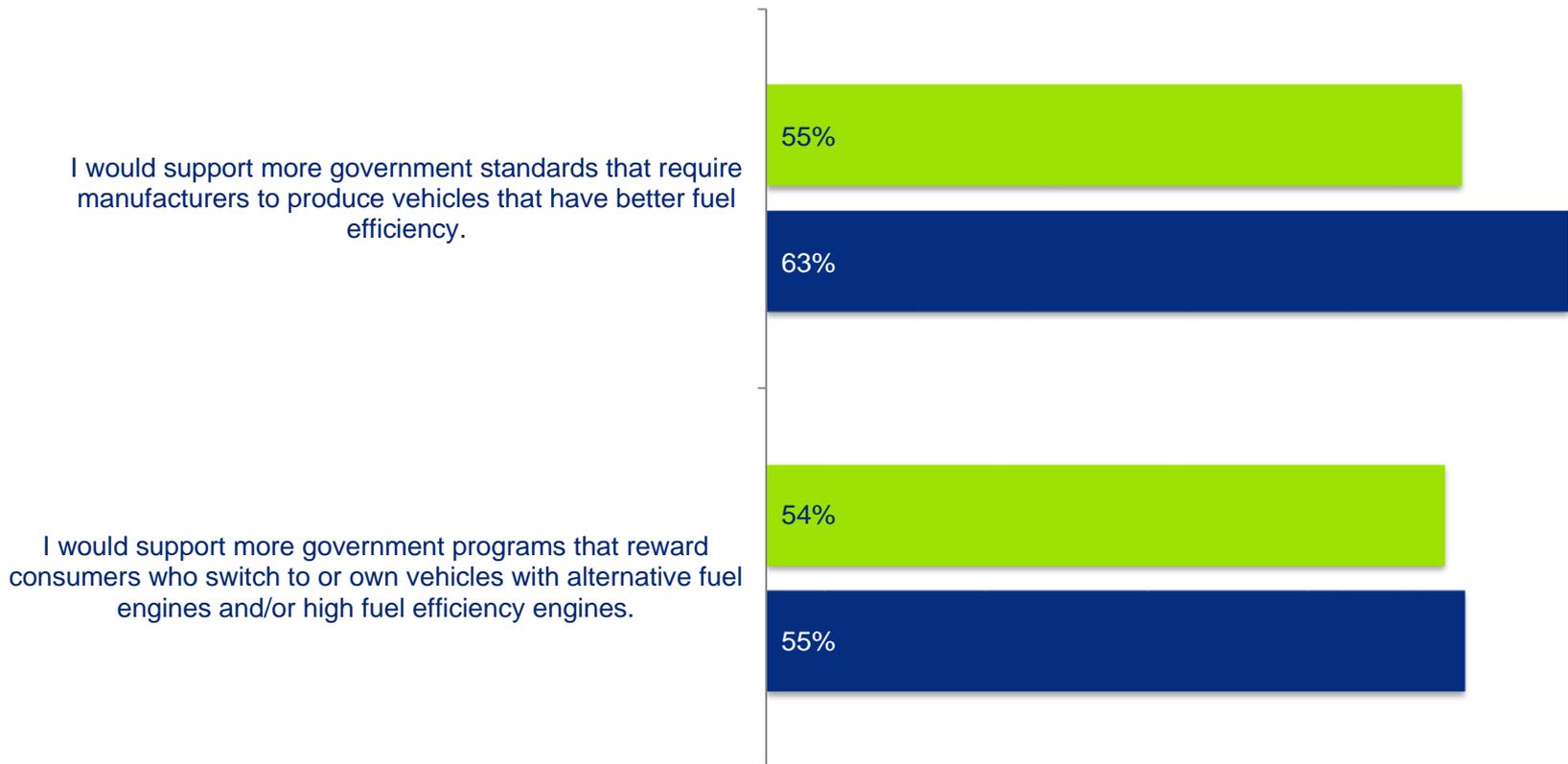


*“I would prefer that manufacturers offer a **specialized line of vehicles** that only have alternative engines.”*

Majority of the consumers in Europe are *supportive of government incentives or standards* to switch to alternative powertrains

How much do you agree with each of the following statements about vehicles with alternative fuel engines?

■ Gen Y ■ Other Generations



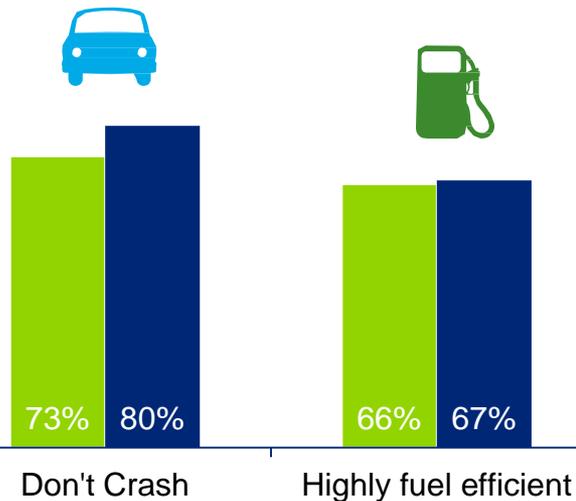
Note: "Strongly Agree" and "Agree" responses have been summed up together

Vehicle technology

Consumers in Europe believe that *there are significant benefits from new vehicle technologies and advancements*, including vehicles that...

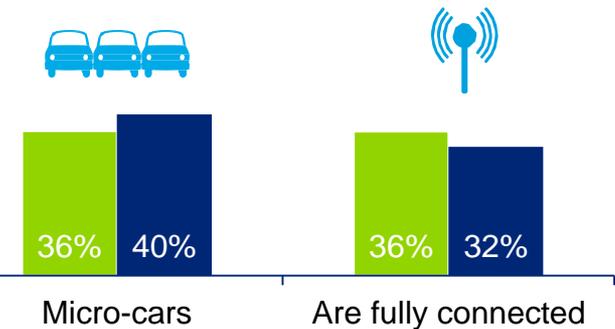
Greatest benefits*

*% of respondents indicating they expect significant benefits from these automotive technologies



Other benefits*

*% of respondents indicating they expect significant benefits from these automotive technologies



■ Gen Y ■ Other Generations

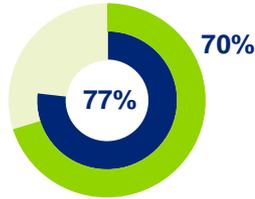
Gen Y want:

- Technology that recognizes the presence of other vehicles on the road
- In-vehicle technologies that could help coach them to be a safer driver
- Technology that will let them know when they exceed the speed limit
- In-vehicle technologies that would automatically block them from engaging in dangerous driving situations

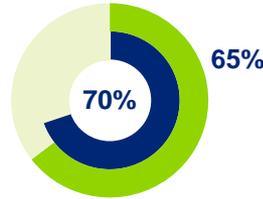
Consumers desire *safety technologies* more than *cockpit technologies*..

Percent of respondents indicating they expect significant benefits from these automotive technologies

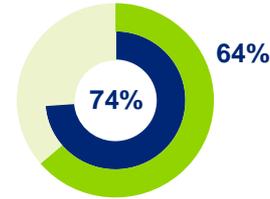
Safety Technologies



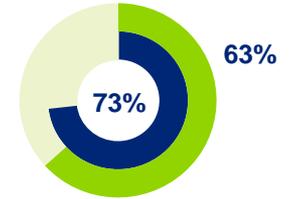
Technology that recognizes the presence of other vehicles on the road



Technologies that help coach them to be a safe driver



Technology that will let them know when they exceed the speed limit

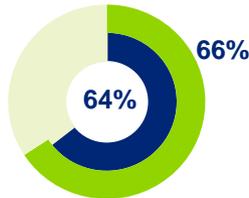


Technologies that block them from engaging in dangerous driving situations

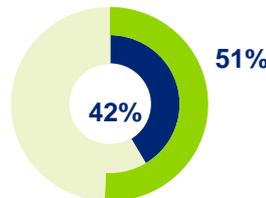
■ Gen Y
■ Other Generations

.. with Gen Y showing *higher desire* for cockpit technologies than other generations'

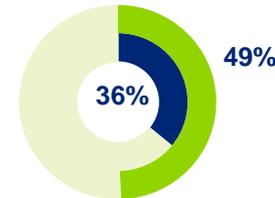
Cockpit Technologies



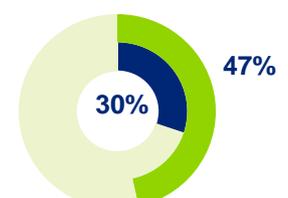
Features that help or make tasks more convenient (e.g. assisted parking, adaptive cruise control, etc.).



Easier customization of a vehicle's technology after purchase or lease



In-vehicle technology that helps them manage daily activities



To connect their smartphone to use all its applications from the vehicle's dashboard interface

..and over *40%* are *willing to pay more than \$1,000*, with *almost a quarter* willing to pay *over \$2,500*

Consumers' willingness to pay

▶ 80% Gen Y (versus 69% Other Generations) Willing to pay

▶ 20% Gen Y (versus 31% Other Generations) NOT willing to pay



Autonomous vehicles

Today, most consumers in Europe are more **interested in basic levels of automation** but show declining interest in the *more advanced levels of autonomy*

*% of respondents in Europe indicating they would find the following levels of autonomy desirable



Definitions for autonomous (driverless) vehicles:

- **Basic:** Allows the vehicle to assist the driver by performing specific tasks like anti-lock braking (prevent from skidding) and/or traction control (to prevent loss of grip with the road).
- **Advanced:** Combines at least two functions such as adaptive cruise control and lane centering technology in unison to relieve the driver of control of those functions.
- **Limited:** Allows the vehicle to take over all driving functions under certain traffic and environmental conditions. If conditions changed, the vehicle would recognize this and the driver would then be expected to be available to take back control of the vehicle.
- **Full:** Allows the vehicle to take over all driving functions for an entire trip. The driver would simply need to provide an address and the vehicle would take over and require no other involvement from the driver.

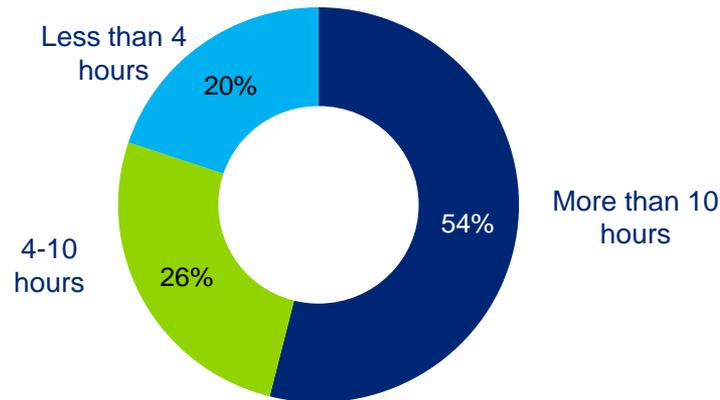
Source: Based on U.S. Department of Transportation's National Highway Traffic Safety Administration (NHTSA):

The Customer Experience

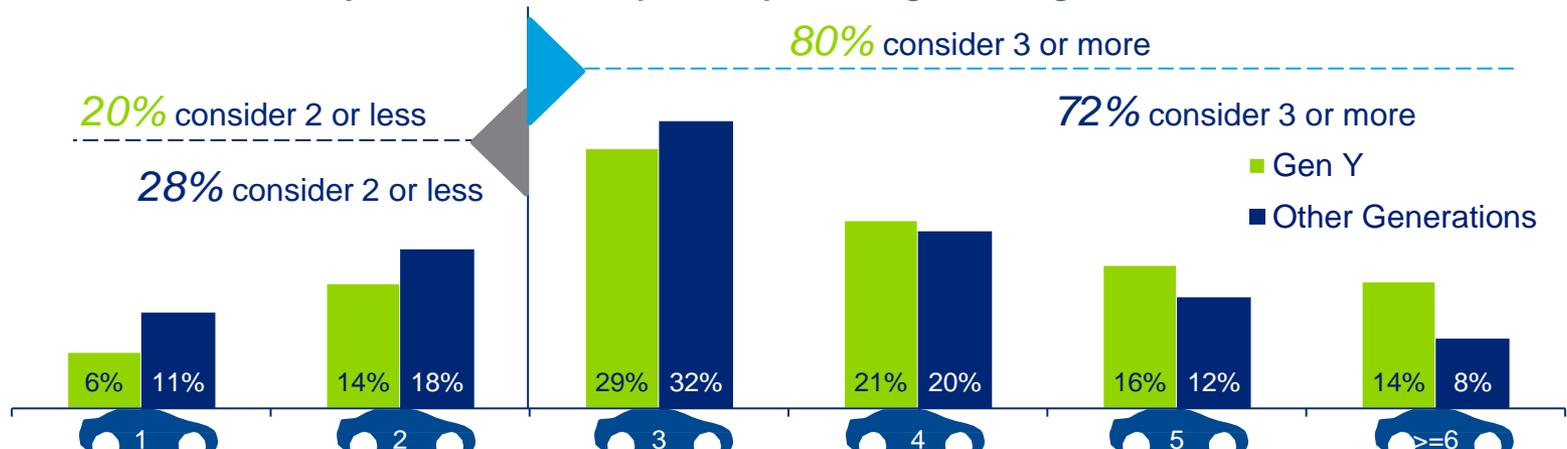
Research is key

More than half of the consumers spend *10 hours or more researching* and **nearly three-quarters** consider *3 or more brands* before they purchase or lease a vehicle.

Time consumers in Europe spent researching possible vehicles



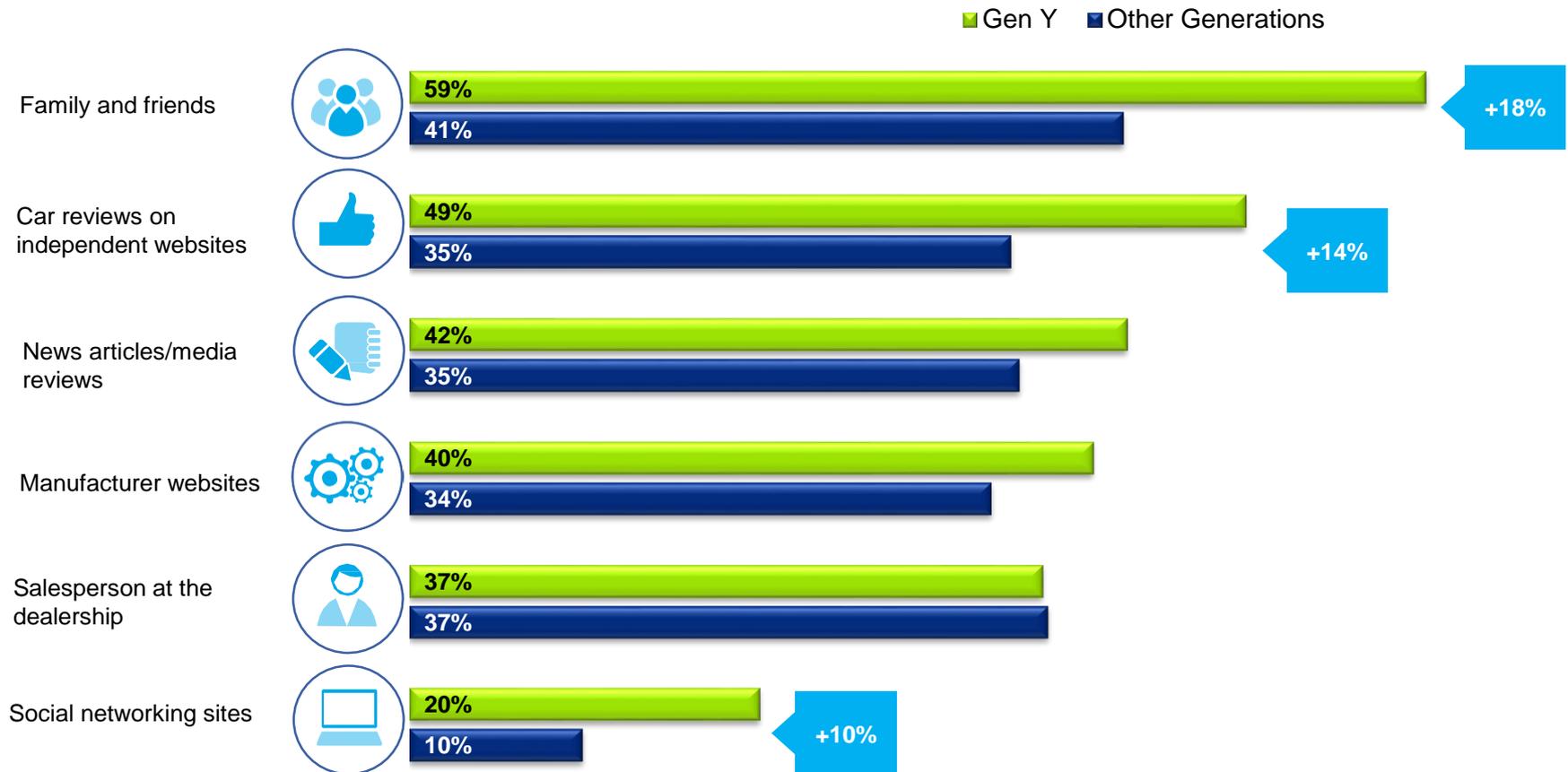
Number of brands considered by consumers in Europe when purchasing or leasing



Influencing the purchase decision

More than half of the Gen Y consumers in Europe are influenced the most by family and friends when making their purchase decision

How much of an impact does information from each of the following sources have on your ultimate decision on which vehicle you choose



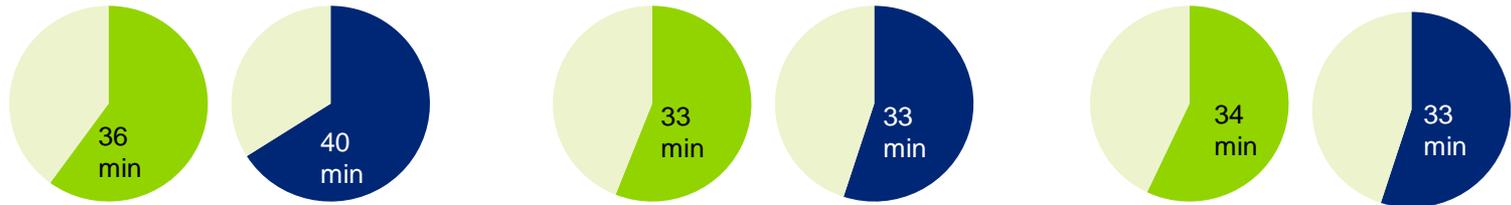
Percent of respondents in Europe indicating this source is a significant influence on the purchase decision

8 out of 10



Consumers want an extremely efficient purchase process

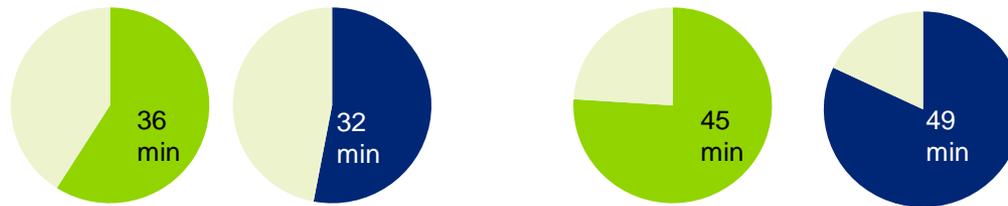
Average acceptable time per phase for Gen Y and Other Generations consumers in Europe



Getting info from dealerships

Waiting to test drive a vehicle

Processing paperwork and registration



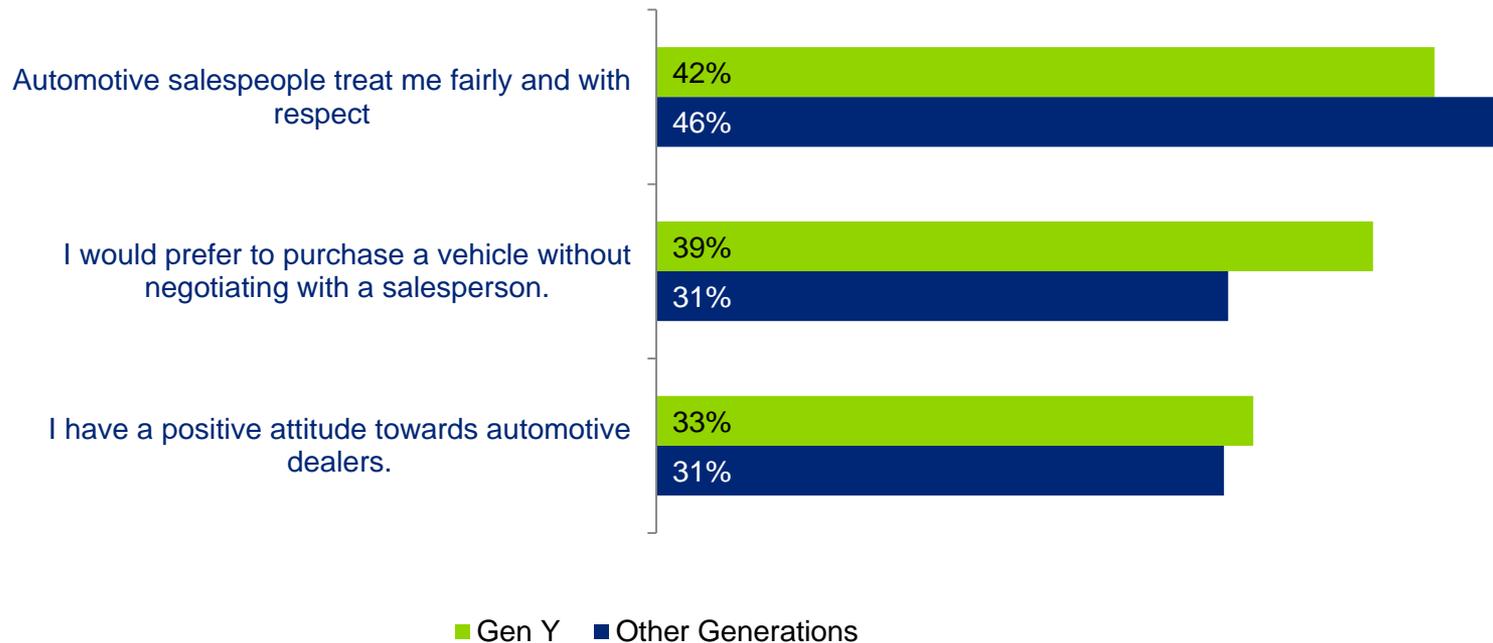
Processing financing

Performing simple maintenance service



Only about a third of the consumers have *a positive image of automotive dealers* and **less than half** feel that **they are treated fairly and with respect by automotive sales people**

How much do you agree with the each of following statements about shopping for a vehicle?



Service impacts vehicle sales

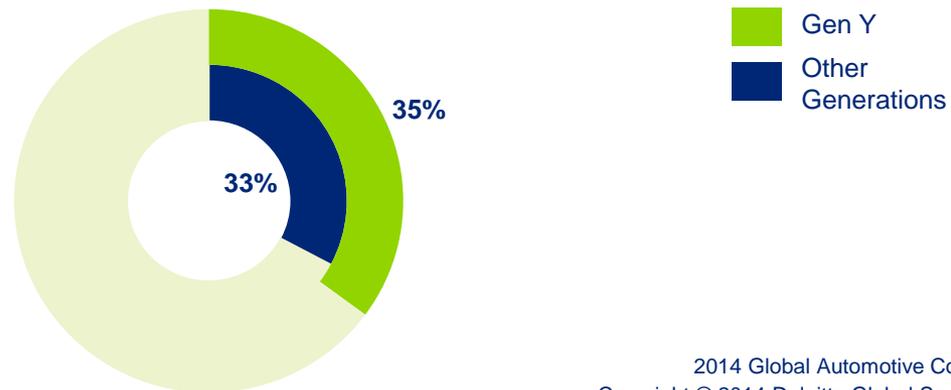
The *cost* and *quality* of the service bundle influences over **70%** of consumers' purchase decision.

When choosing a vehicle to purchase or lease, how important to you are each of the following attributes?



But only a third of Gen Y are willing to pay for services that make their lives easier

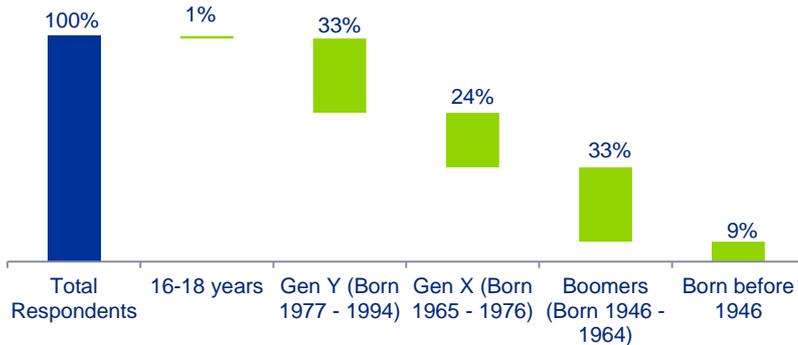
I would pay to have a dealer pick up my vehicle to be serviced and drop off a loaner vehicle



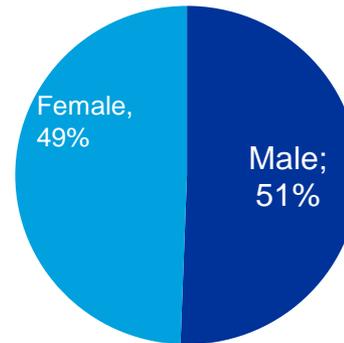
Appendix

Europe¹ respondents profile

Respondents by Generation



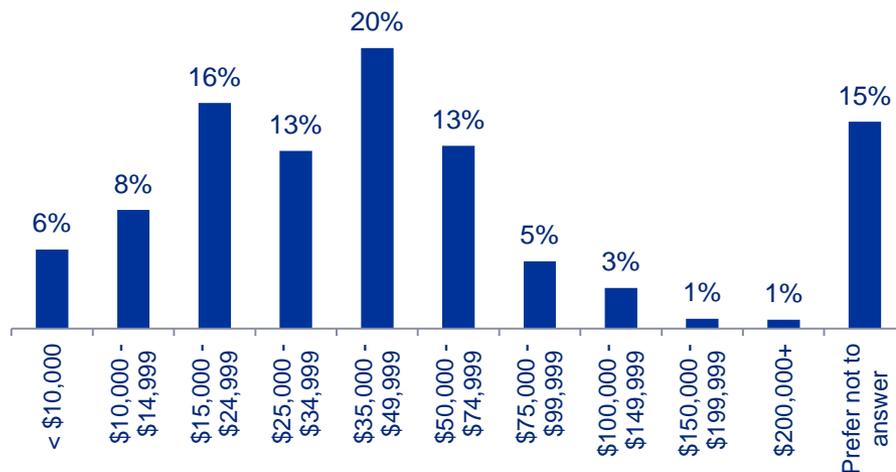
Gender



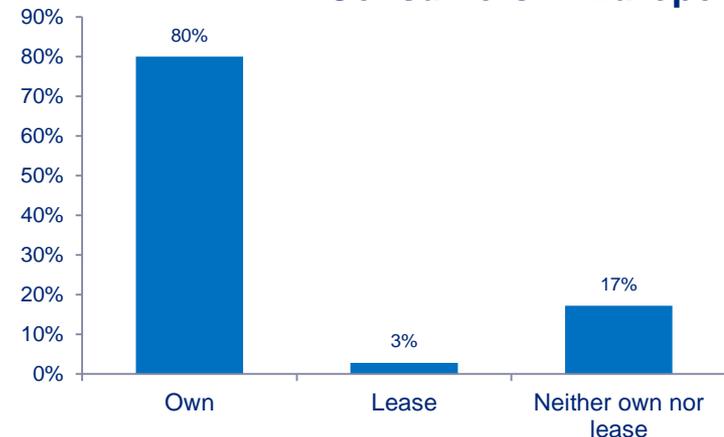
Place of Residence



Household Income of Consumers in Europe



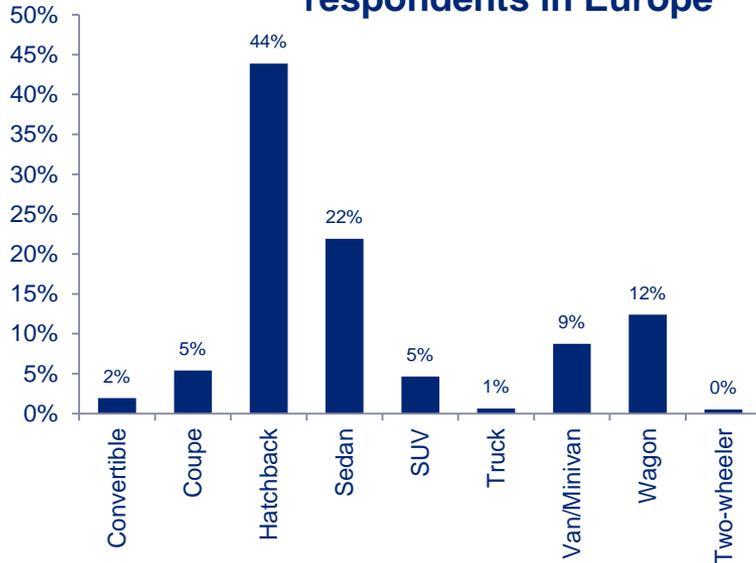
Current Vehicle Ownership Status of Consumers in Europe



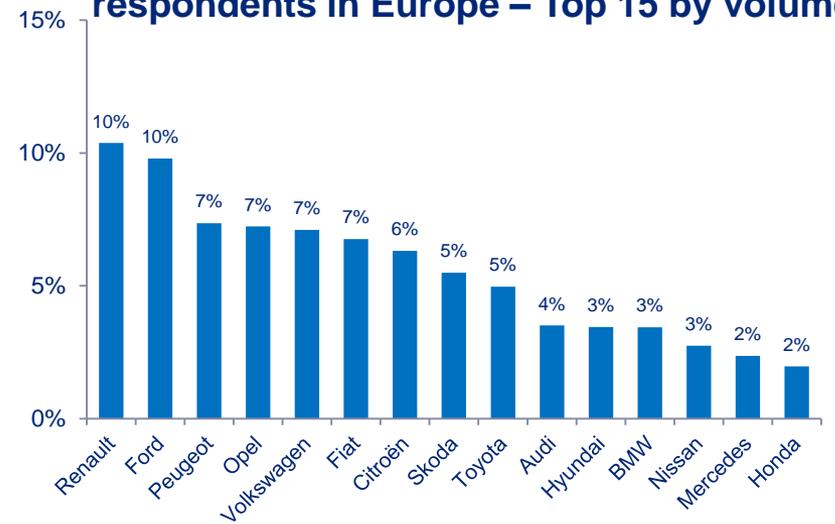
Eight European countries included in the study: Europe in the 2014 *Global Automotive Consumer Study* consist of the following countries: Belgium, Czech Republic, France, Italy, Germany, Netherlands, Turkey, and UK.

Europe¹ respondents profile

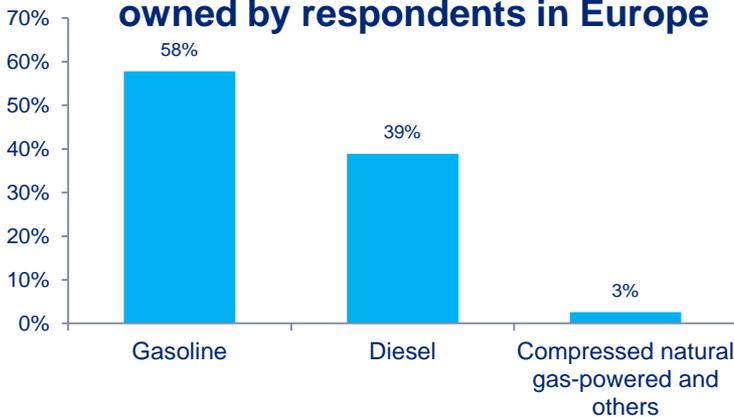
Current vehicle type owned by respondents in Europe



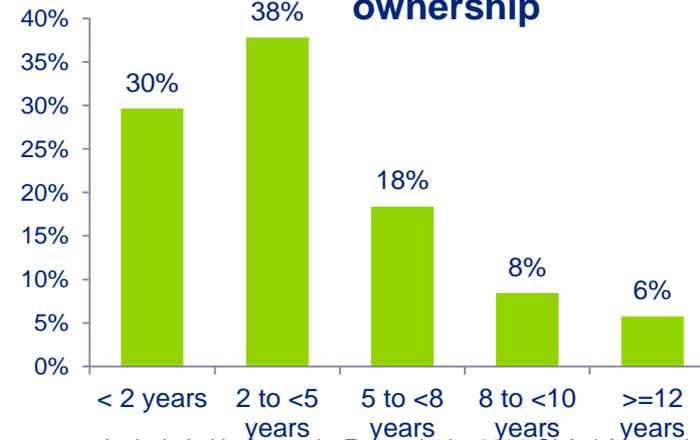
Current vehicle brand / make owned by respondents in Europe – Top 15 by volume



Current Engine Type in cars owned by respondents in Europe



Duration of current car ownership



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Contacts

Joe Vitale
Global Automotive Industry Leader
Deloitte Touche Tohmatsu Limited
jvitale@deloitte.com

Craig Giffi
Deloitte United States (Deloitte LLP)
cgiffi@deloitte.com

Eric Desomer
Deloitte Belgium
edesomer@deloitte.com

Charles Manuel
Deloitte Netherlands
ChManuel@deloitte.nl

Guillaume Crunelle
Deloitte France
gcrunelle@deloitte.fr

Thomas Schiller
Deloitte Germany
tschiller@deloitte.de

Mike Woodward
Deloitte United Kingdom
mwoodward@deloitte.co.uk

Marco Martina
Deloitte Italy
mmartina@deloitte.it

Gaye Senturk
Deloitte Turkey
gsenturk@deloitte.com

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