J.D. POWER





Disruption in Automotive







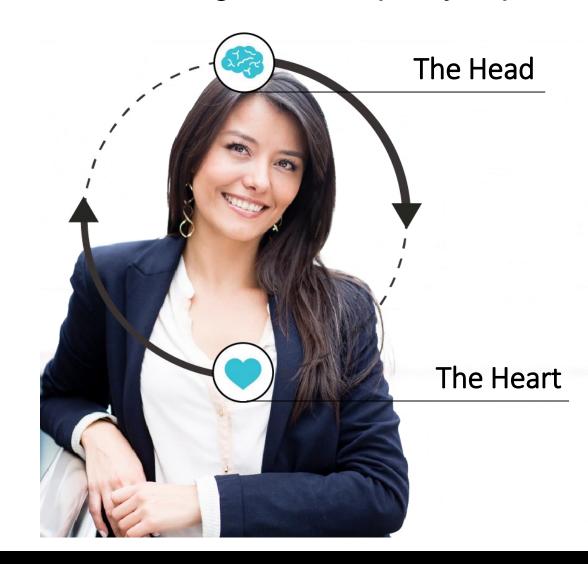
UNDERSTANDING CONSUMER ADOPTION OF ADVANCED AUTOMOTIVE TECHNOLOGY

Greg Bohl Vice President, Artificial Intelligence HARMAN

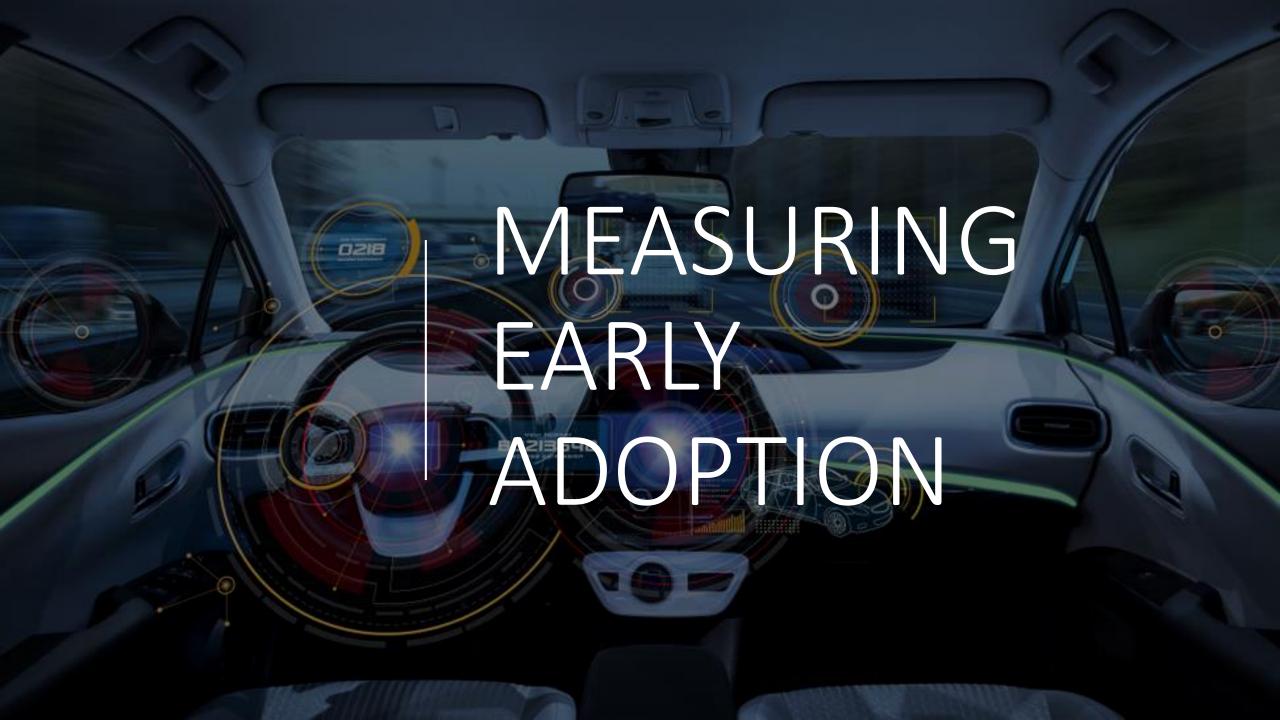


Advancing Tech Adoption

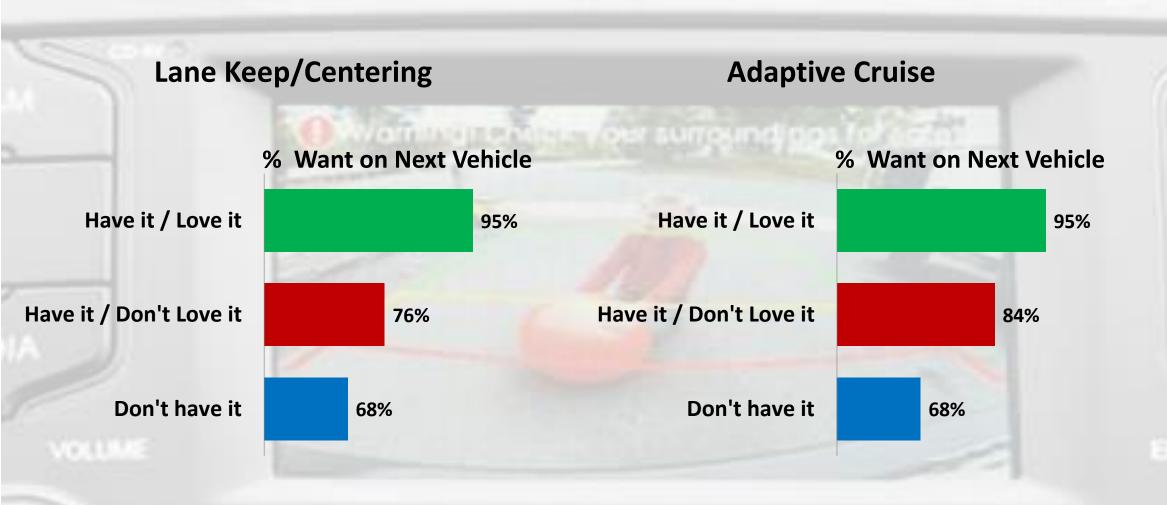
User Experience (UX) is the latest battleground for quality impacting satisfaction







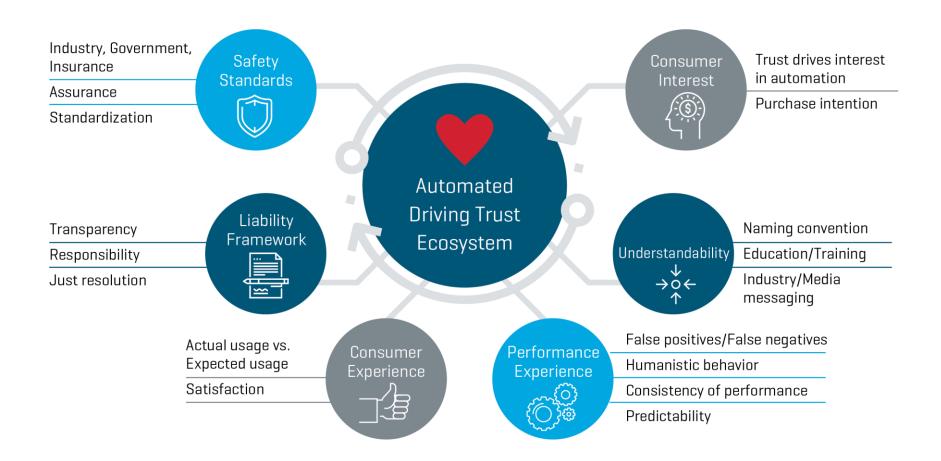
FUTURE DESIRE FOR TECHNOLOGY IS STRONGLY INFLUENCED BY THE CURRENT OWNERSHIP EXPERIENCE





TRUST IN TECHNOLOGY

TODAY'S EXPERIENCE WITH LOWER LEVELS OF AUTOMATION WILL IMPACT ACCEPTANCE FOR HIGHER LEVELS OF AUTOMATION TOMORROW





TRUST EXPERIENCES WITH COLLISION PROTECTION

ANNOYING OR BOTHERSOME COLLISION PROTECTION SYSTEMS IMPACT SATISFACTION MOST NEGATIVELY

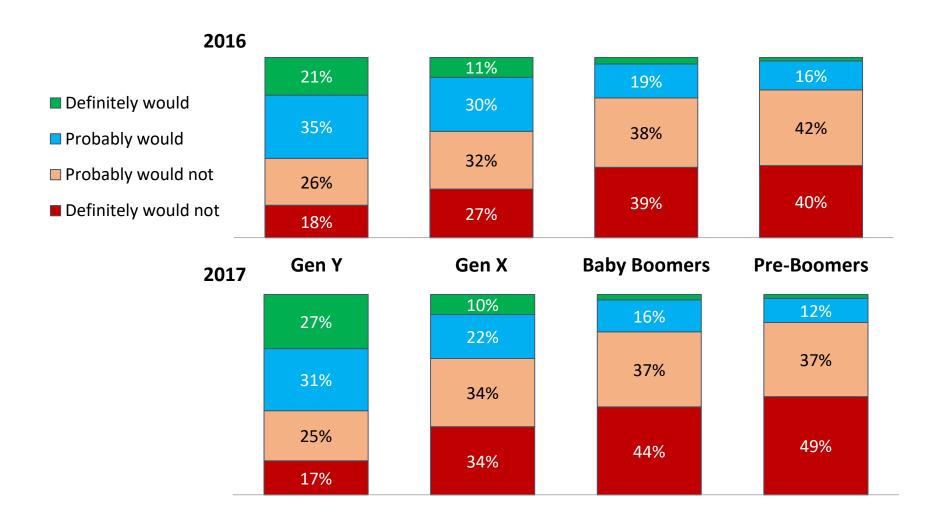
56% Of owners report a feature(s) has Helped Avoid a Crash in the first 90-days of ownership

Lane-Keeping/Centering System is Annoying or Bothersome compared to other Collision Protection Systems

17% Lane-Keeping/Centering System has Startling or Unusual Behavior

TRUST IN AUTOMATED TECHNOLOGY

SHIFT TOWARD "DEFINITELY WOULD NOT" TRUST ACROSS NEARLY ALL GENERATIONS



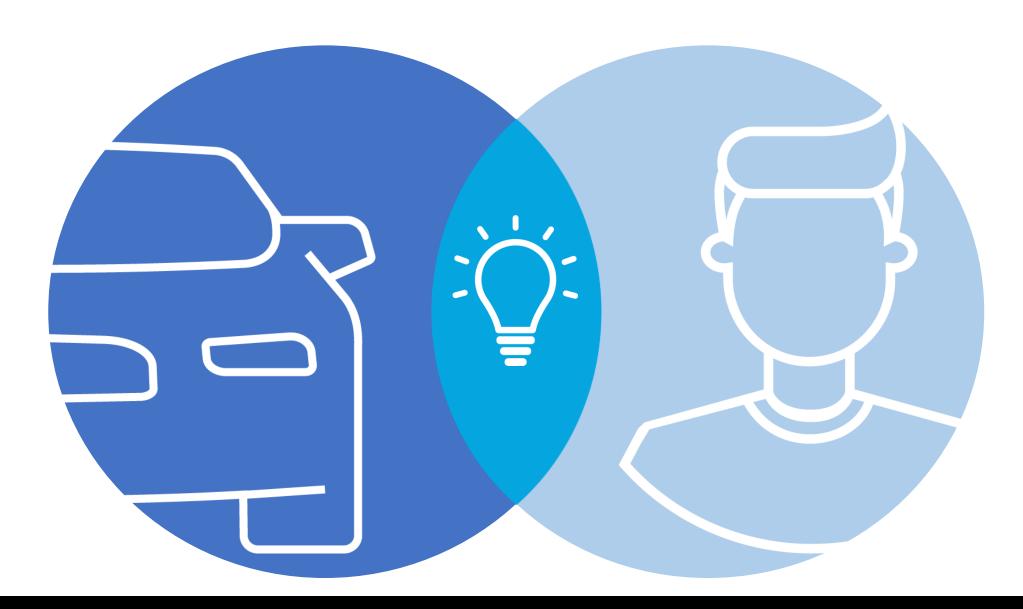
Concerns surrounding added technology complexities, privacy, and the potential for systems to be hacked, hijacked, or crash are prominent among consumers in all generational groups

J.D. Power defines the generations as Pre-Boomers (born before 1946); Baby Boomers (1946-1964); Gen X (1965-1976); Gen Y (1977-1994)

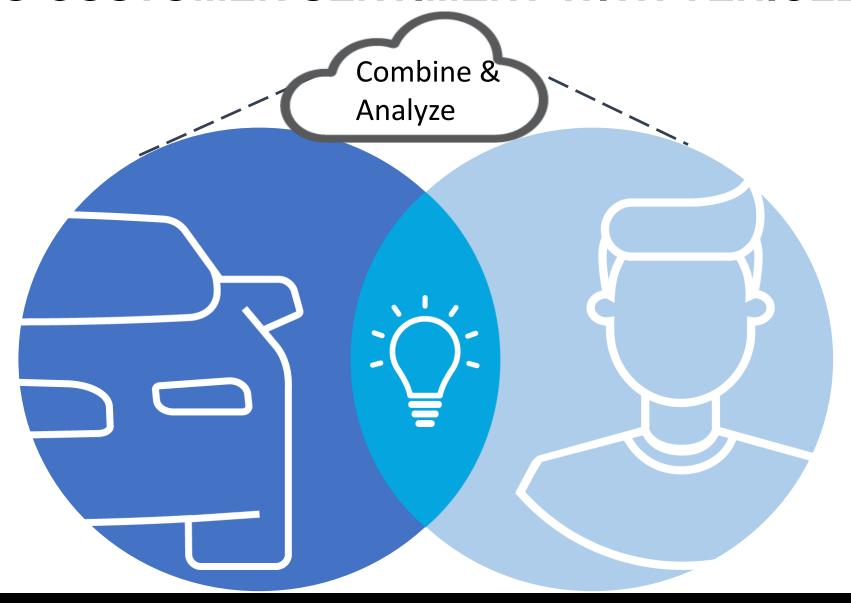
Source: 2016 and 2017 J.D. Power U.S. Tech Choice Study



VOICE OF THE CUSTOMER MEETS VOICE OF THE VEHICLE TO STANDARD MEETS VOICE T

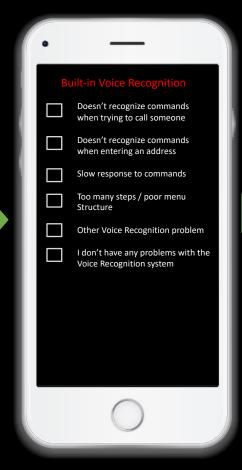


MERGING CUSTOMER SENTIMENT WITH VEHICLE DATA



USE CASE – VOICE RECOGNITION



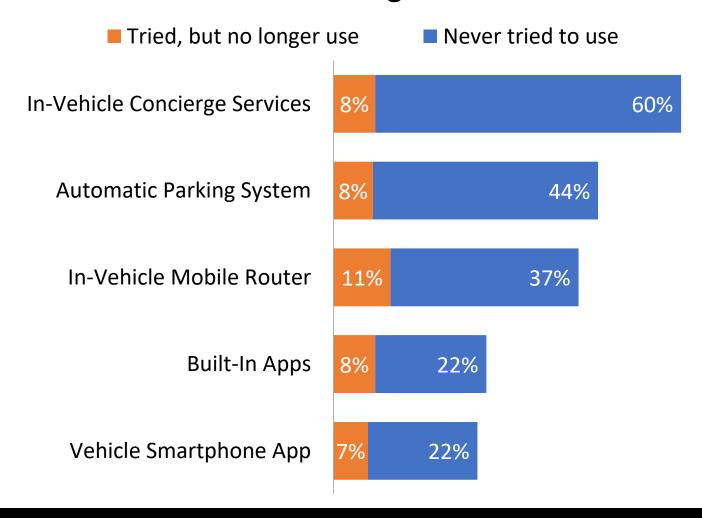






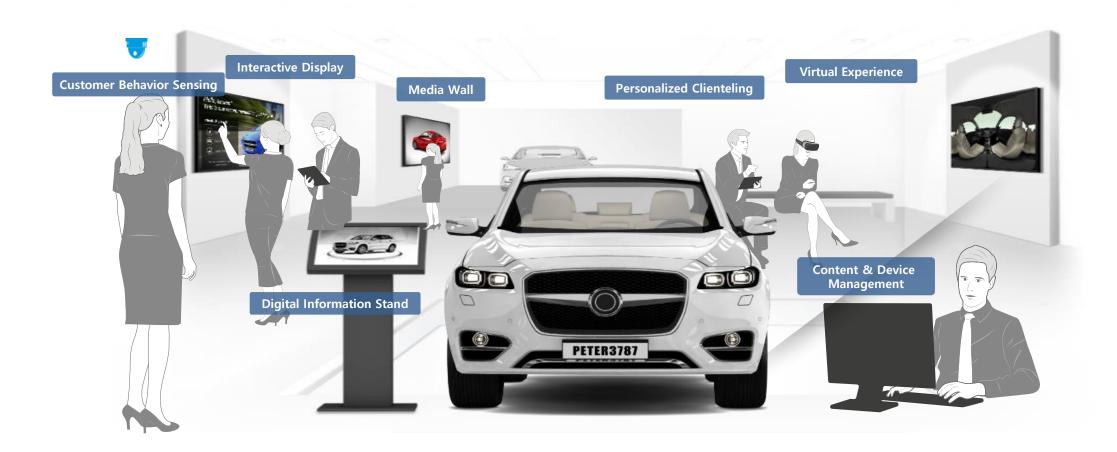
USEFULNESS

Feature Usage Rate



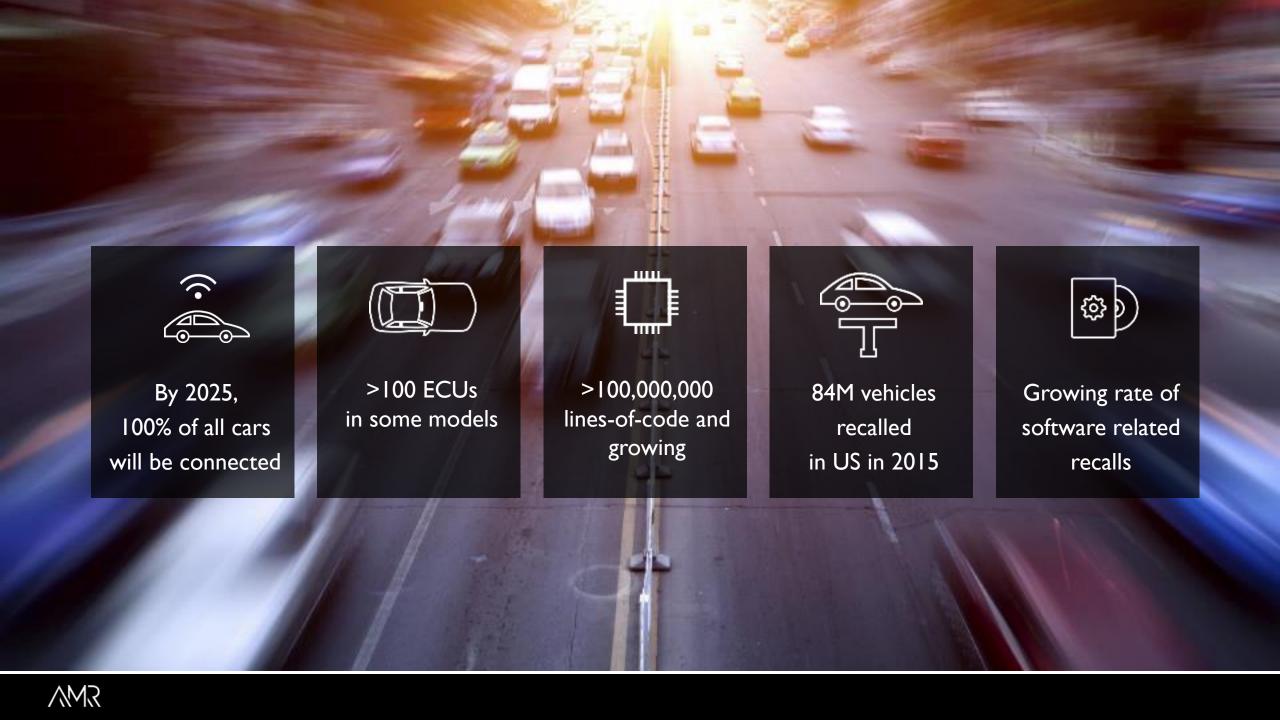


FUTURE DEALERSHIP EXPERIENCES



Source: Samsung SDS, Samsung Nexshop





A Clear Market Need for OTA Updates

Mitigate cyber security attacks

Meet production reflash time constraints

Reduce recall and warranty costs

Map updates for navigation and ADAS

Build a deep real-time understanding of car SW configurations

Upsell features post sale

Improve ongoing relationships with the car owners



UNDERSTANDING CONSUMER ADOPTION OF ADVANCED AUTOMOTIVE TECHNOLOGY

