

**AUTOMOTIVE** 

# Overview of the Chinese Infotainment Market

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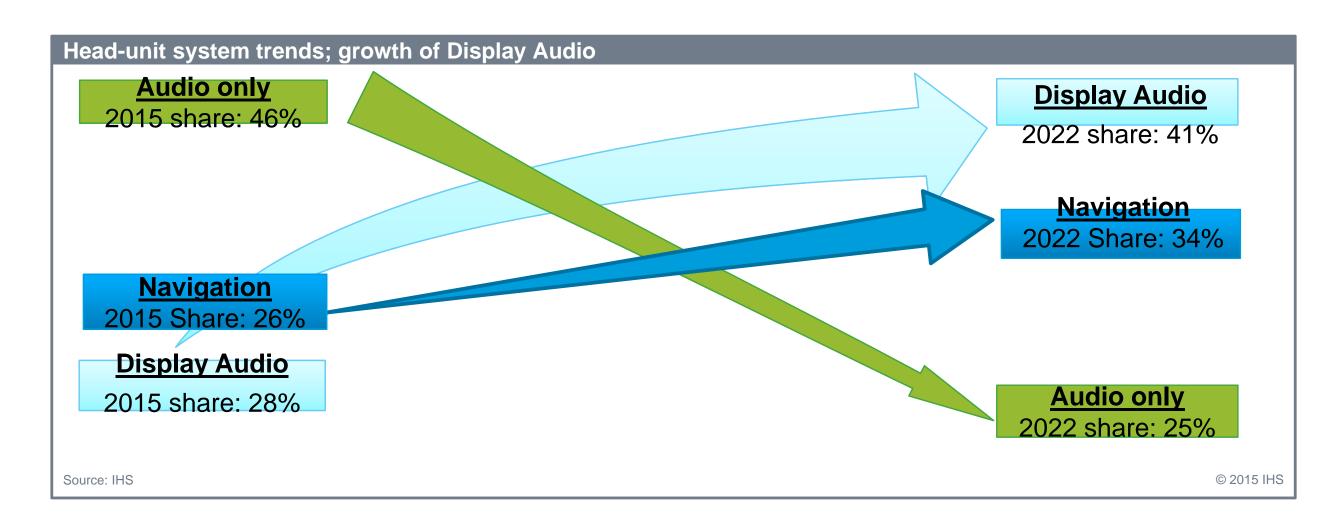
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### **Agenda**

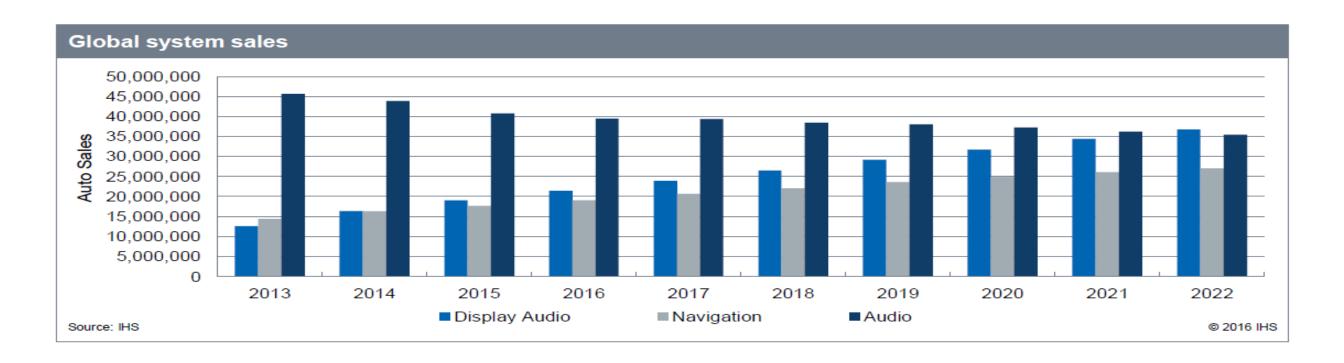
- Infotainment Systems Forecast
- Telematics Market Overview
- Smart Phone Connection
- Branded Audio Consumer Survey
- Other Big Things

# Infotainment Systems Forecast

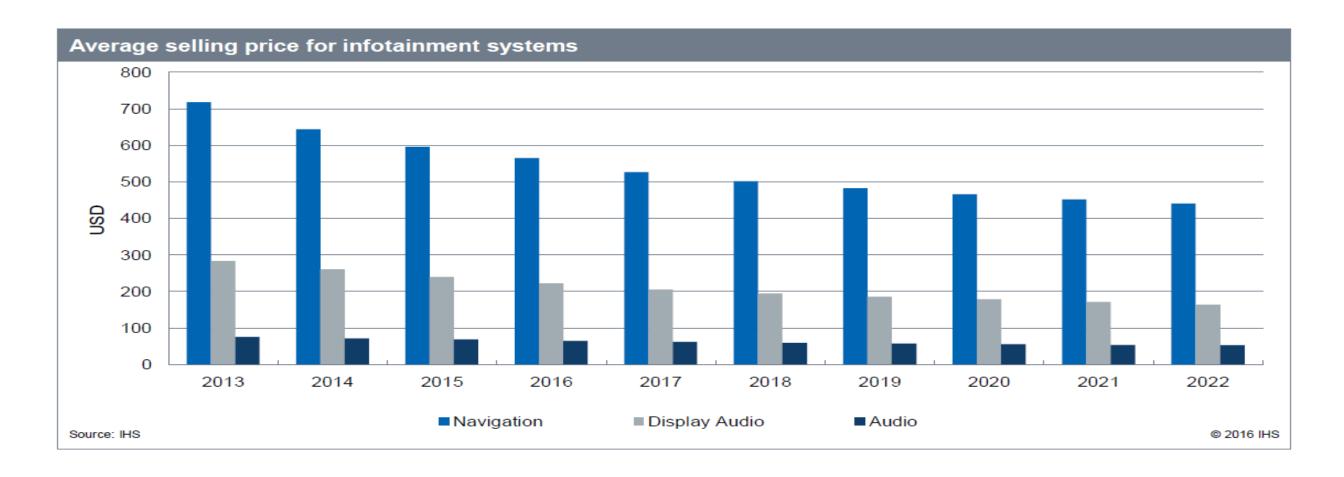
### **Global Infotainment System Trends**



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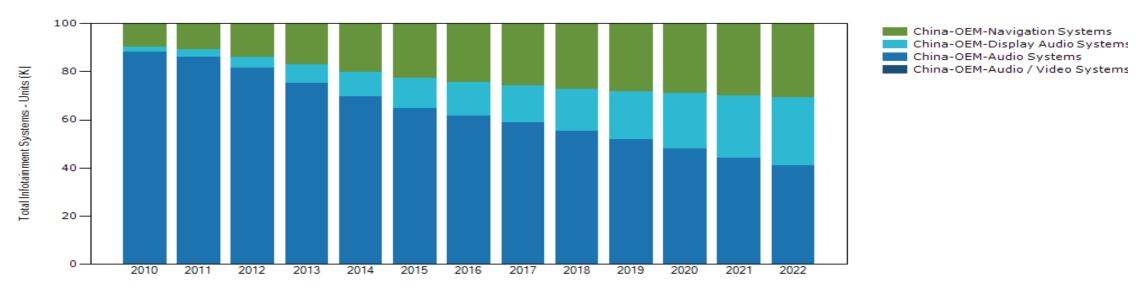


### **Average Selling Price for Infotainment Systems**



### Trends for the Chinese OEM Infotainment Market

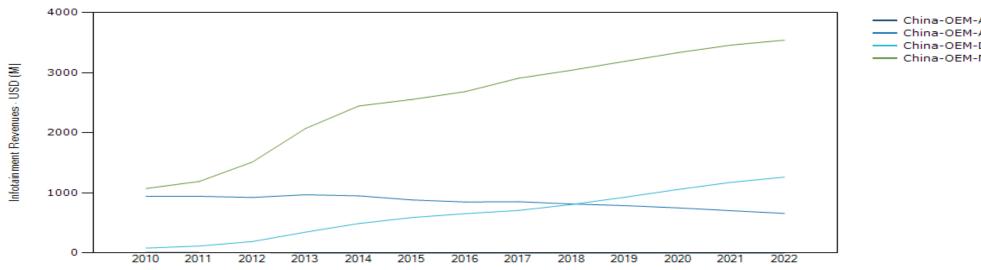
#### Total Infotainment Systems - Units (K) by Country, Segment, System or Feature



- Fitment rate of pure audio systems will go down steadily.
- Fitment rate of navigation is still increasing, although not quickly.
- Display Audio will be the future star in the infotainment area.

### Trends for the Chinese OEM Infotainment Market

#### Infotainment Revenues - USD (M) by Country, Segment, System or Feature

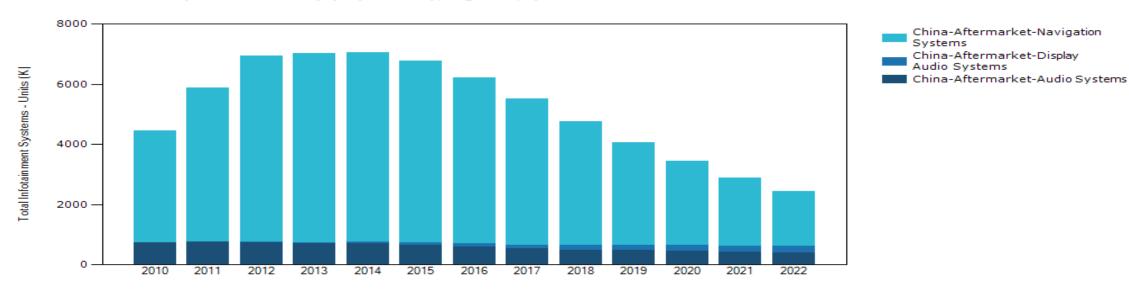


China-OEM-Audio / Video Systems
 China-OEM-Audio Systems
 China-OEM-Display Audio Systems
 China-OEM-Navigation Systems

- Pure Audio: \$0.6 billion in 2022.
- Navigation: \$3.5 billion.
- Display Audio: \$1.3 billion.

### Trends for the Chinese Aftermarket Infotainment



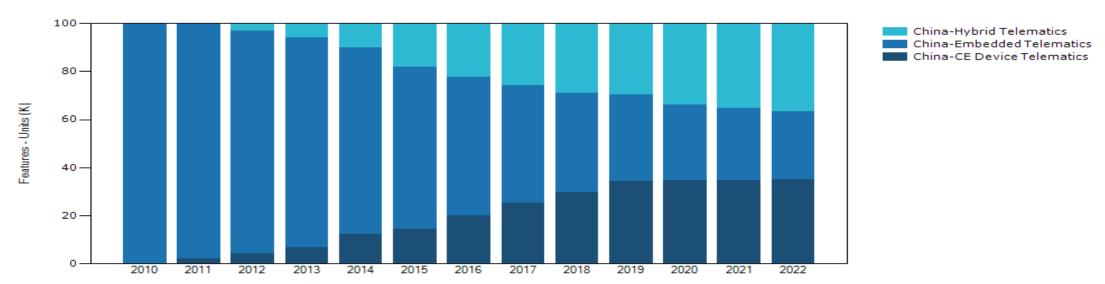


- A market to shrink.
- Aftermarket navi will shrink sharply, caused by the rising trends of OEM navi, smartphone based navi (through smartphone itself or display audio).

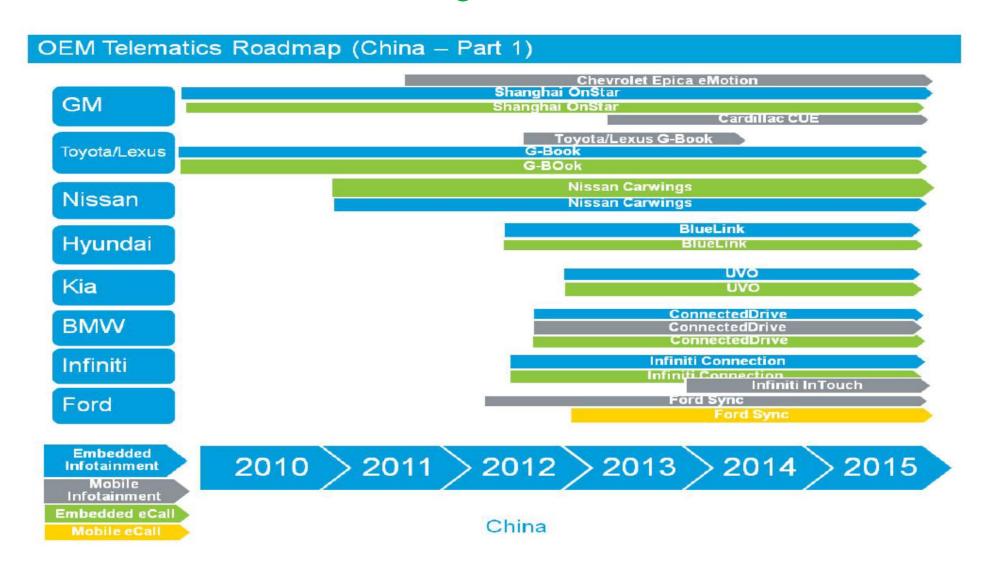
### **Telematics Market Overview**

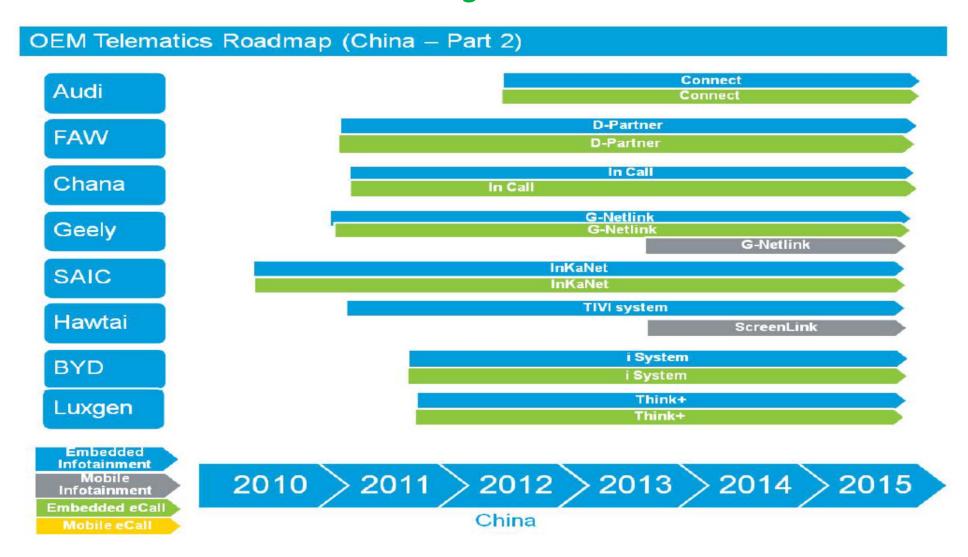
### Trends for the Chinese OEM Telematics Market

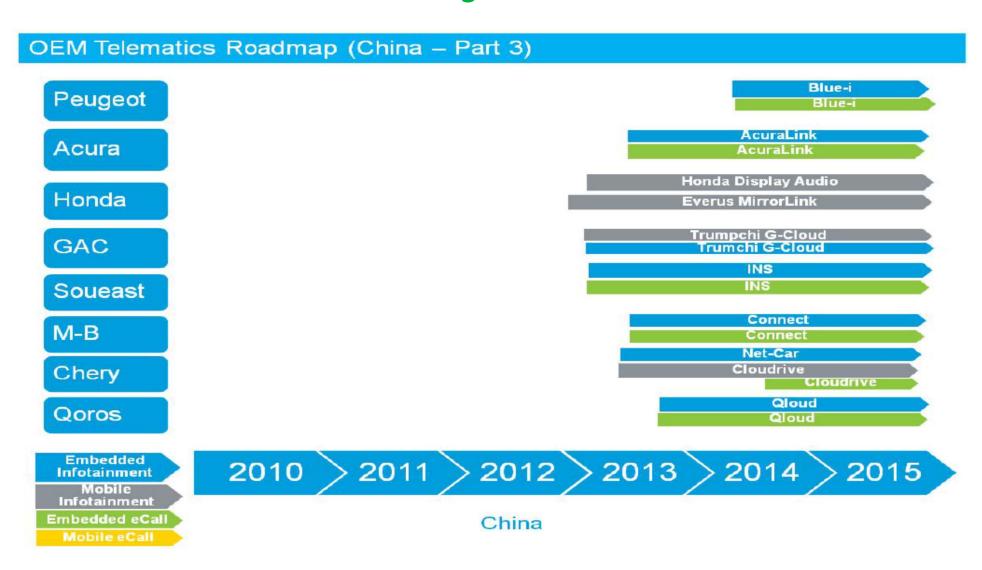
#### Features - Units (K) by Country, Feature

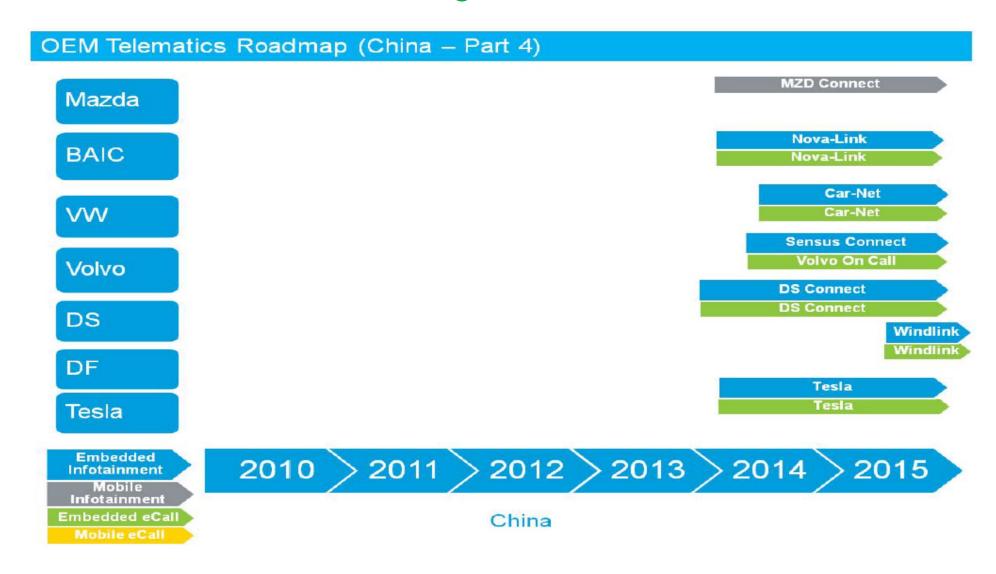


- Embedded telematics is the majority now. But other two types will increase quickly. In 2022, the fitment rates of the three types will be very close.
- Most luxury brands will use either embedded or hybrid telematics.
- Due to the relatively low cost, consumer device telematics will be mainly used in entry-level and mid-level vehicles.









#### **OEM** telematics services offerings (China -1) **Features** Third-Embedded **CE Device** Hybrid Navigation OEM ACN/ Stolen party Vehicle Call Connectivity Connectivity Connectivity Vehicle /LBS/ Mobile Apps Concierge **eCall** Center **Diagnostics** Tracking Traffic /bCall App Integration **BMW** BMW **BMW** X X X X X X X ConnectedDrive ConnectedDrive ConnectedDrive Mini Connected Toyota/Lexus Toyota/Lexus X X X X X X G-Book Mobile G-Book Ford Sync X X X GM OnStar X X X X X X Chevrolet X eMotion Nissan X X X X X X Carwings Hyundai X X X X X X Blue Link Kia X X X X X X UVO

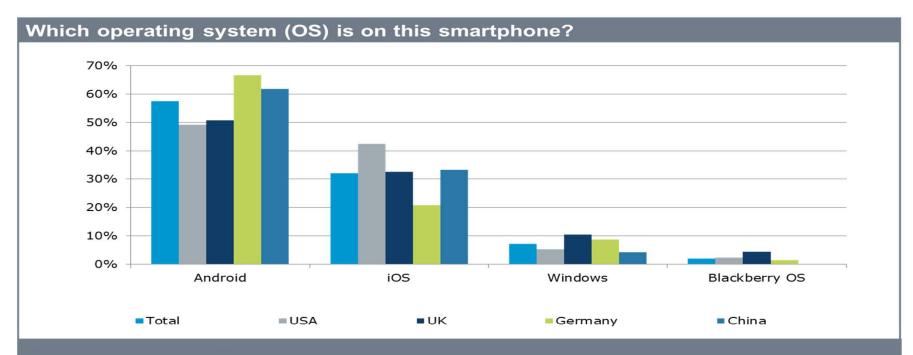
#### **OEM** telematics services offerings (China -2) **Features** Third-Embedded **CE Device** Hybrid OEM ACN/ Stolen Navigation party Call Vehicle Connectivity Connectivity Connectivity Vehicle /LBS/ Mobile Apps eCall Concierge Center Diagnostics Traffic Integra-Tracking App /bCall tion Audi X X X Connect Infiniti X X X X X X Connection FAW X X X X X X D-Partner SAIC X X X InkaNet Geely X X X X X G-Netlink BYD X X X X X X X I System Chang'an X X X X In Call Hawtai X X X X TIVI Luxgen X X X X X Think+

OEM telematics services offerings (China -3)										
			Features							
Embedded Connectivity	CE Device Connectivity	Hybrid Connectivity	ACN/ eCall /bCall	Vehicle Diagnostics	Stolen Vehicle Tracking	Navigation /LBS/ Traffic	Call Center	Concierge	OEM Mobile App	Third- party Apps Integra- tion
Peugeot Blue-i			x	x	x	×	x	×		
AcuraLink			×	×	×	x	x			
	Honda Display Audio /Everus MirroLink					×				×
GAC Trumpchi G-Cloud	GAC Trumpchi G-Cloud	GAC Trumpchi G-Cloud		x		×			×	×
Soueast INS				x	×	×	×	×		
Mercedes- Benz Connect				×	×	×	×	×	×	×

#### **OEM** telematics services offerings (China -4) **Features** Third-**Embedded CE Device** Hybrid ACN/ Stolen Navigation OEM party Call Vehicle Connectivity Connectivity Connectivity eCall Vehicle /LBS/ Mobile Concierge Apps Center Diagnostics Tracking Traffic App /bCall Integration Chery Chery Chery X X X X X X Net-Car Cloudrive Cloudrive Qoros Qloud X X X X X Mazda X X Connect BAIC Novo-X X X X X Link VW Car-Net X X X X X X Volvo On Call/ Sensus X X X X X X Connect **DS** Connect X X X X X X Dongfeng X X X X X X X Windlink Tesla X X X X X X **Telematics**

### **Smart Phone Connection**

### Smartphones by mobile OS - Global



Google's Android mobile OS comprises a clear majority in China (62%) and in Germany (67%). UK respondents were more divergent, with approximately 15% selecting either Windows Phone or Blackberry OS. Apple's iOS (42%) is more dominate in the US than it is in other countries like Germany (21%).

### **Apple CarPlay**

















































































- Total 40 OEM Brands
- 0 Domestic Brand

### **Android Auto**



- Total 45 OEM Brands
- 0 Domestic Brand

### **MirrorLink**











• 1 Domestic Brand





























### **Baidu CarLife**



























• 4 Domestic Brand

### Android Auto vs. CarPlay

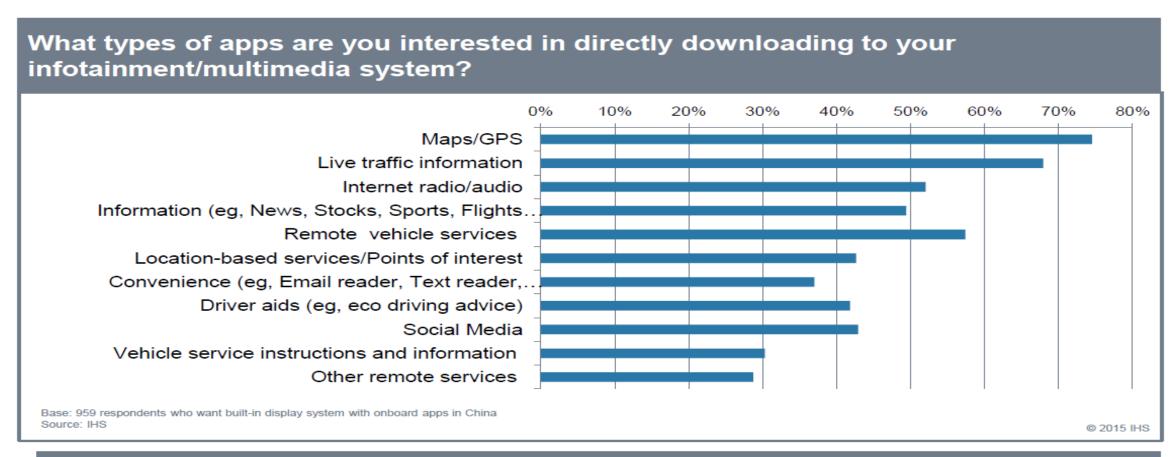
Android Auto vs. Apple CarPlay Enabled Auto Forecast								
Enabled Auto Sales	Android Auto	Apple CarPlay						
2015	1.06M	1.31M						
2017	9.56M	8.97M						
2020	40.3M	36.8M						
Cumulative Enabled Auto								
Sales								
2015	1.15 M	1.41M						
2017	14.7M	14.4M						
2020	99.9M	92.8M						

- Apple and Android Auto will be the most wildly used two smart phone connection solutions.
- Overall, the race is very tight, as most OEMs will install both, because they can't afford the consequence by installing just one platform.
- Since both Apple and Google have tremendous developer community, the result will be a flood of Android Auto-compatible apps and CarPlay-compatible apps in the near future.

### Android Auto vs. CarPlay

- China is a different market: Baidu CarLife is forecasted to be more important than Android Auto. Reasons:
  - 1, Lots of Google services are currently blocked in China.
  - 2, Baidu CarLife can support both iOS and Android smart phones.
  - 3, Lots of Baidu Apps are welcome and popular in China.

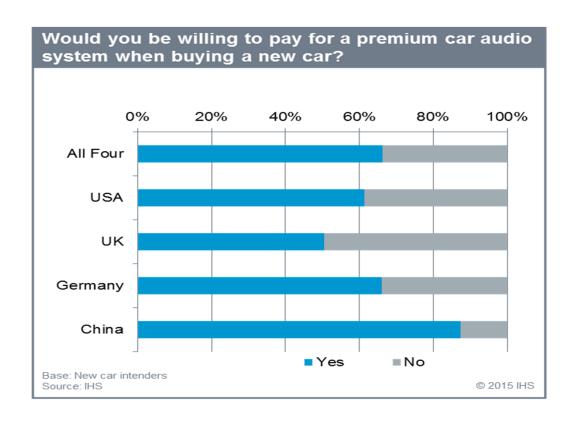
### Most Popular Apps Customers Want in Car



Navigation-centric service is very valuable to many consumers in China due to new road construction, relatively new drivers, and chaotic and constantly evolving traffic situations.

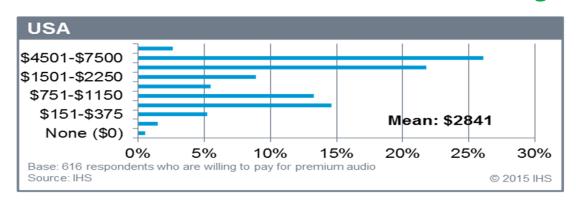
# Branded Audio – Consumer Survey

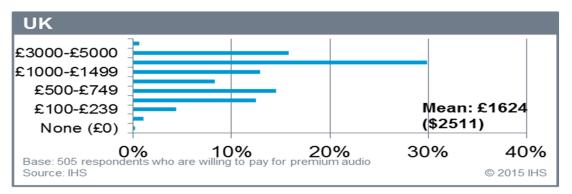
### Consumers – willing to pay for a premium car audio

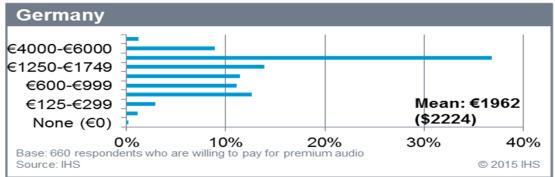


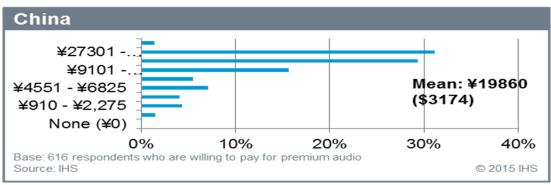
- Consumers are willing to pay for a premium car audio system.
- A decent proportion of respondents who are not willing to pay for premium car audio might in fact want such a feature, but they want it to "come with the car."

# Consumers – how much would you be willing to pay for premium car audio when buying a new car?



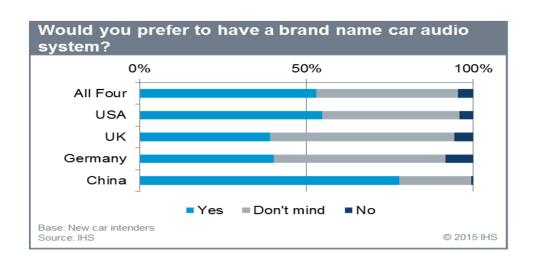


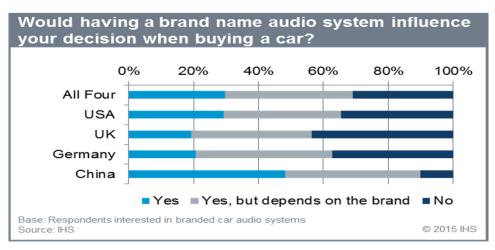




- Consumers find the premium car audio system highly desirable and are willing to pay a price for it.
- Mass market auto brands should think of offering premium audio as an optional feature for market differentiation as well as a means of driving margin increase. One possible strategy for these OEMs is to offer tiers of premium audio solutions to consumers.

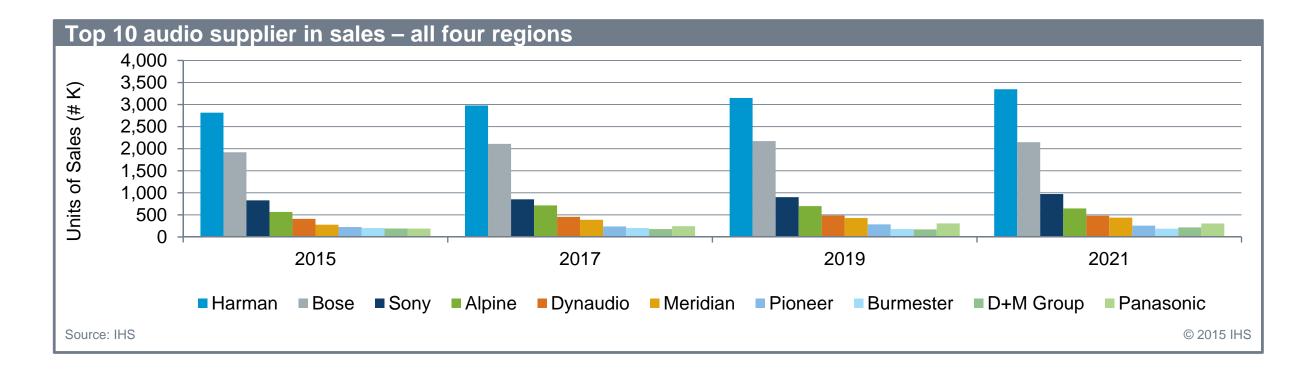
### Consumers – brand name car audio systems do matter





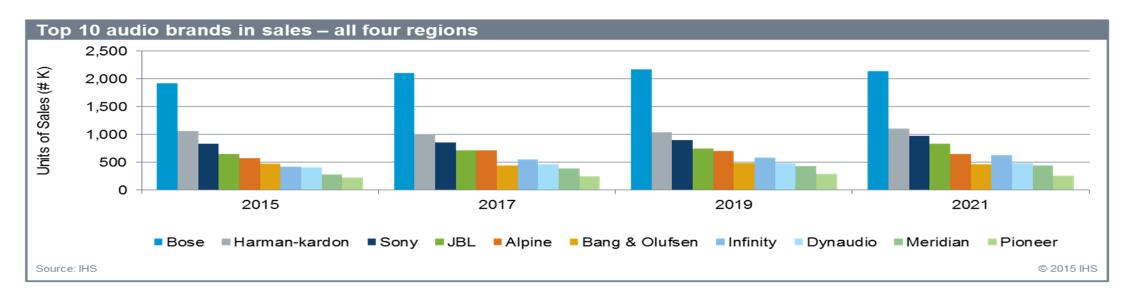
- Consumers prefer a brand name car audio system. 95% of respondents prefer or don't mind to have a brand name system.
- For respondents who are already interested in having branded car audio systems, 69% of them agreed that a brand name car audio system would influence their car purchase decision.
- Among the four countries, China has significantly more respondents that care about branded audio systems, while the UK has significantly more respondents who do not care about brand name systems.

### Branded audio supplier market share



- Bose leads in a single-brand market share (24%) in 2015, as its Panaray system will not be available until 2016.
- Harman leads in collective branded market share (35%).
- Sony and Alpine take 3<sup>rd</sup> and 4<sup>th</sup> place, respectively.

### Branded audio - Top 10 audio brands market share



- The top audio brands across four forecast regions are well-know brands with multiple vehicle partnerships, such as Bose and Harman-kardon.
- Harman has four brands (Harman-kardon, JBL, Bang & Olufsen, and Infinity) in the top 10 list. But as individual brands, they are behind Bose.
- The next players in the rankings are found on brands with large sales, with Sony systems found on Ford vehicles and Alpine systems found on Chrysler vehicles.
  The rest are smaller brands looking to increase market share, or exclusive/premium brands found on luxury OEMs.

# **Other Big Things**

- Artificial Intelligence, Deep Learning
- Over the Air (OTA) Updating, making it a live thing
- Data Plan, 5G
- Cyber Security
- Wireless Charging
- Augmented Reality
- User Based Insurance (UBI)

## Thank You!

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