

## HARMAN BRANDS

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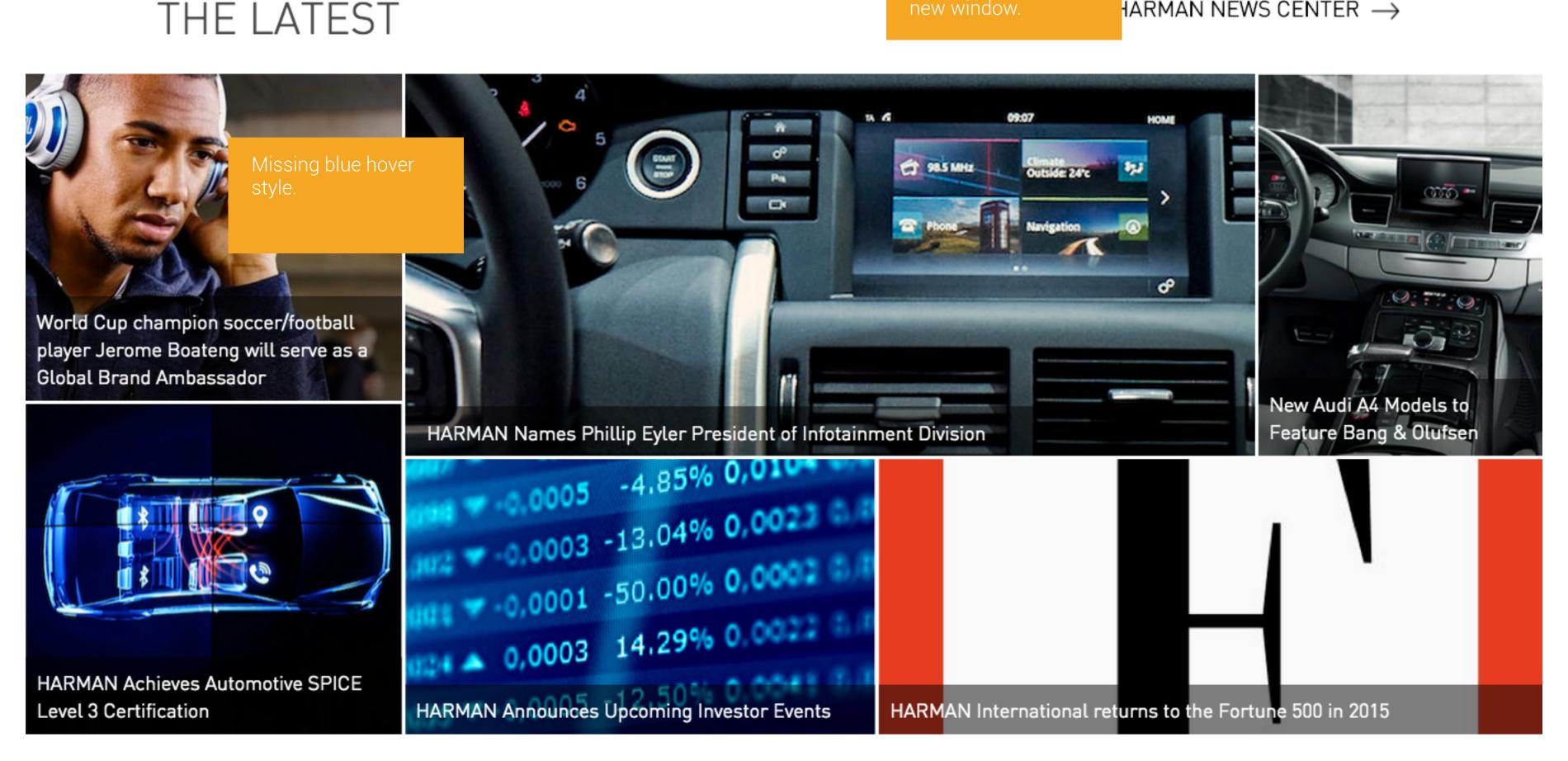






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HARMAN NEWS CENTER ightarrow



#### ABOUT HARMAN

HARMAN (harman.com) designs and engineers connected products and solutions for consumers, automakers, and enterprises worldwide, including audio, visual and infotainment systems; enterprise automation solutions; and software services. With leading brands including AKG<sup>®</sup>, Harman Kardon<sup>®</sup>, Infinity<sup>®</sup>, JBL<sup>®</sup>, Lexicon<sup>®</sup> , Mark Levinson® and Revel®, HARMAN is admired by audiophiles, musicians and the entertainment venues where they perform around the world.

HARMAN also is a technology and integration services leader for the Automotive, Mobile, Telecommunications and Enterprise markets. More than 25 million automobiles on the road today are equipped with HARMAN audio and infotainment systems.

The Company's software solutions power billions of mobile devices and systems that are connected, integrated, personalized, adaptive and secure across all platforms, from the work and home to car and mobile.

HARMAN has a workforce of approximately 25,000 people across the Americas, Europe, and Asia and reported sales of \$5.9 billion during the last 12 months ended March 31, 2015.

Learn More

#### FINANCIAL NEWS

\$109.1 usp As of: 30 Jul 2015 14:47:11 EDT -0.53%

HAR NYSE

Volume: 230,348

STAY CONNECTED

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Company Careers Contact Us

#### Solutions

Lifestyle Audio Connected Car **Professional Solutions Connected Services** 

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HARMAN Social Channels





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## THE CONNECTED CAR

HARMAN's hallmarks of success in the connected car: Innovation, integration, and industry experience. Our industry leading solutions ensure your in-car experience is entertaining, productive, safe, and secure.



Embedded Infotainment

Telematics

Our embedded infotainment solutions offer complete information, entertainment and communications capabilities – including 3D and augmented navigation, multimedia support and smart apps for device integration, high speed connectivity, intuitive and multimodal user interfaces, and a new generation of automotive cloud services.

HARMAN success in the embedded infotainment market is a testament to its platformbased approach to design and engineering. Modular and scalable, HARMAN's infotainment platforms address the full spectrum of vehicles from premium to entry.

HARMAN's solutions for the premium segment includes next-generation navigation, entertainment, driver assistance and service functions. The company offers a number of firstto-market technologies such as augmented navigation, which blends live-motion video with graphics to provide drivers with a clearer understanding of the road ahead and visual cues for complex intersections. HARMAN's embedded infotainment solutions integrate industryleading over-the-air (OTA) map and software update features, which seamlessly deliver infotainment firmware and map content updates to in-vehicle navigation systems. Other innovations include "sensor fusion" to collect and aggregate camera, sensor and on-board diagnostics (OBD) data and integrates it with both on-board and off-board navigation systems for more accurate and intelligent routing and safety features. And HARMAN's deep competence in both software and hardware design means its computing platforms can drive not only navigation and "center stack" functions but also the instrument cluster, for a more integrated approach to display and driver information systems such as head-up displays and gesture-based controls.

More recently, we have introduced advanced technologies such as augmented navigations, which blends live-motion video with graphics to provide drivers with a clearer understanding of the road ahead and visual cues for complex intersections. At CES 2015, HARMAN introduced the first connected navigation solution based on the Navigation Data Standard that incrementally updates map data in the field. This over-the-air (OTA) incremental update capability is the first in the industry that ensures map data is always upto-date. Incremental updates of map data for rich navigation systems are critical to keep vehicle infotainment systems current in the field.

HARMAN also supports the latest in smartphone connectivity such as Apple CarPlay, Android Auto, Baidu's CarLife solution for the Chinese market, and MirrorLink. Merging these solutions with HARMAN's powerful embedded solutions provides automakers with flexibility to introduce connectivity features with attractive feature-to-cost ratios, with a range of options that meet virtually all global market-specific requirements.



# **AUTOMOTIVE PARTNERS**









link to the car

websites

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properly and should



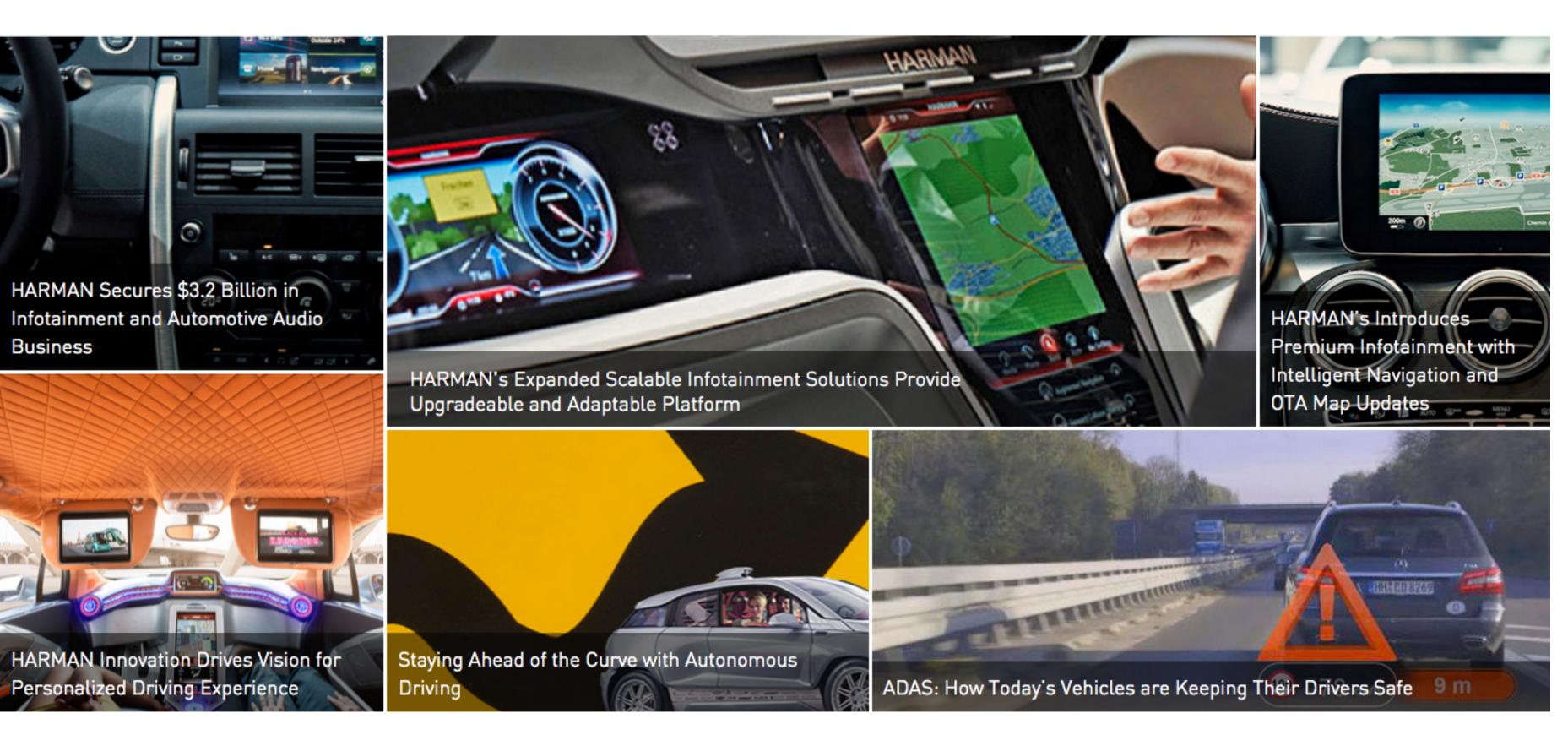






## CONNECTED CAR NEWS

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# AUTOMOTIVE SERVICES

Should read: "AUTOMOTIVE **CLOUD** SERVICES"

HARMAN is leading the industry developing solutions that make accessing content via the cloud easier and safer in the car and that simplify vehicle updates and maintenance. HARMAN's current portfolio of connected services includes Aha Radio, which is available in more than 60 countries and offered in more than 50 models of vehicles including Acura, Chrysler, Ford, Honda, Hyundai, Mazda, Porsche, Scion, Subaru and Toyota.

HARMAN's suite of cloud platform offerings even helps to future-proof your vehicle by exchanging information with the vehicle manufacturer. Updates and enhancements are automatically downloaded as they become available, and real-time diagnostics alert you when routing services or repairs are indicated.

For more about our automotive cloud offerings, visit the Connected Services section of our website

# ABOUT CONNECTED CAR

HARMAN's innovative and highly integrated infotainment technologies offer automakers the most complete solutions for advanced navigation, intuitive user interfaces, integrated audio, device connectivity, cyber security, and connected safety, just to name a few. From Boston to Berlin to Bangalore, HARMAN is delivering a dynamic in-car experience for an increasingly connected world.

HARMAN is the market leader in connected car solutions to the world's automakers.

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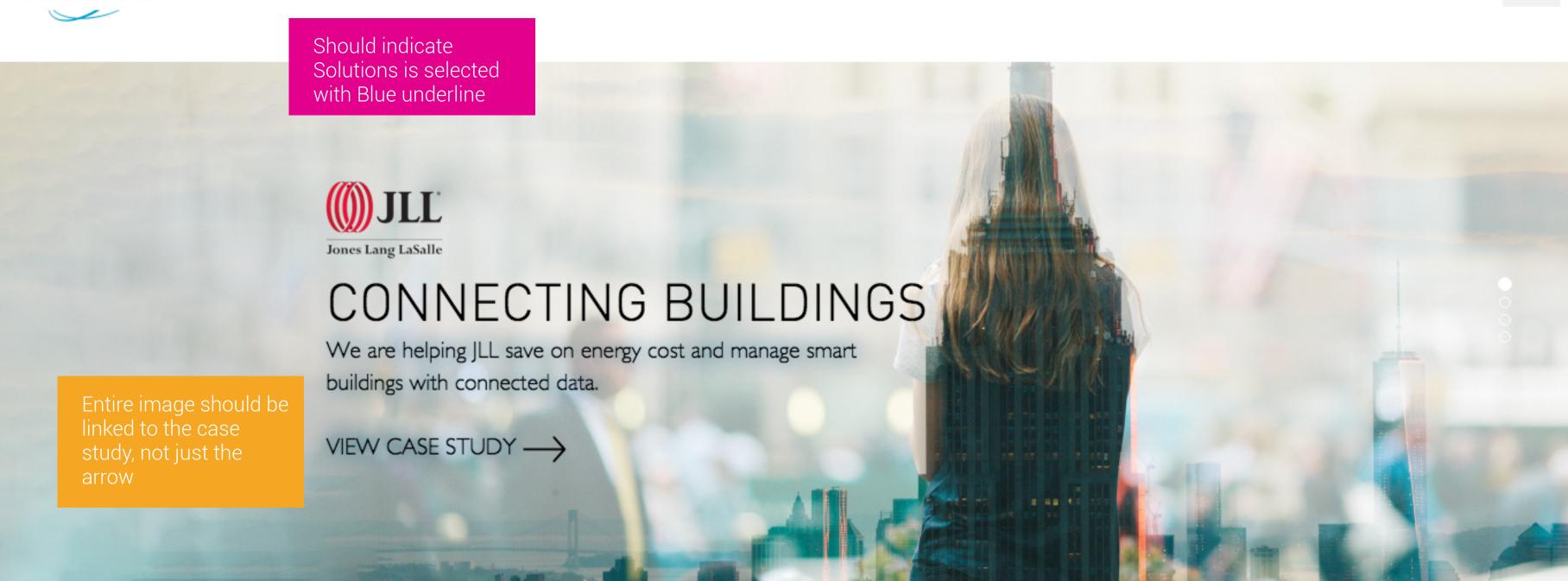
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Microsoft

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**YOTA DEVICES** 

Polycom<sup>\*</sup>

We connect ecosystems by transforming convergence using cloud, mobility, analytics and design.

Device **ENGINEERING** 

Embedded engineering, integration and device management services.

Diagnostics, monitoring and upgrades with secure, personalized OTA technologies.

Data **ENGINEERING** 

Analytics, Machine Learning and Data Science frameworks to unlock business value.

Cloud led application and infrastructure to enable scale.

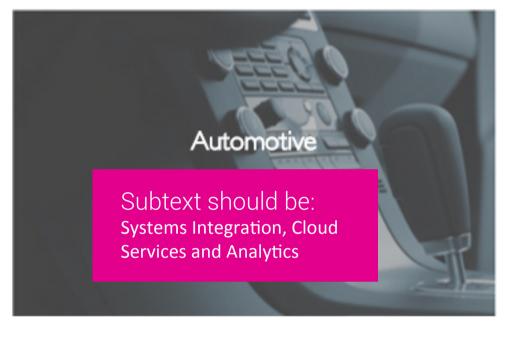
Design ENGINEERING

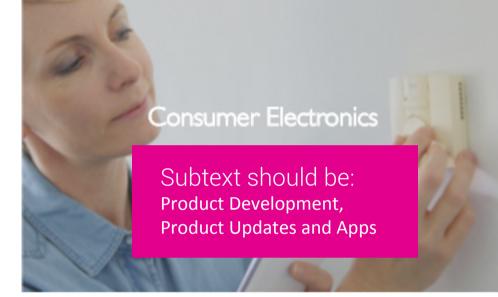
UX design, research and application development for a mobile-first world...

**INDUSTRIES** 

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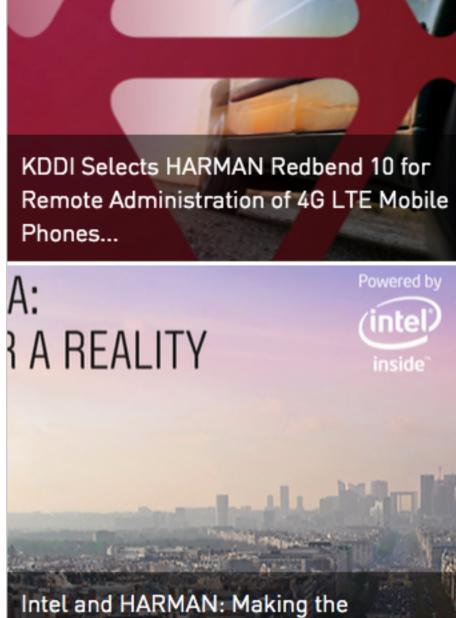






## CONNECTED SERVICES NEWS

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Connected Car a Reality

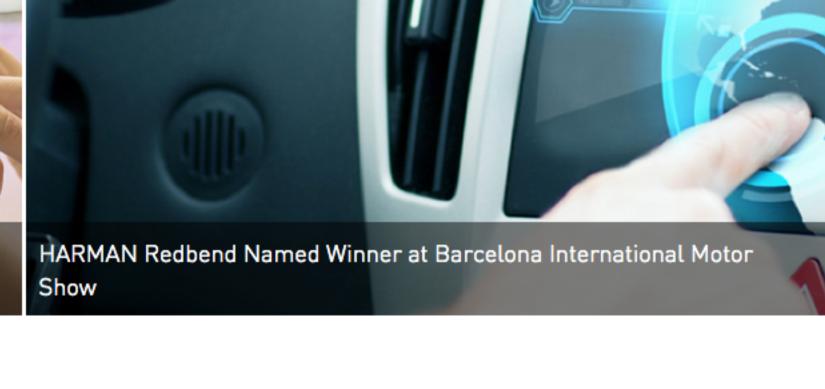


HARMAN and Hortonworks First to Deliver Connected Car





Prognostics Solutions to Auto Manufacturers



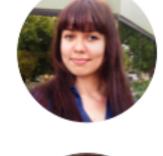
## **GET IN TOUCH**

We are fortunate to work with brilliant engineers and collaborate with visionary customers. And we are always keen to connect and explore what's next.

Contact Us





















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Automotive

Branded Audio

Portable Bluetooth Speakers

Headphones

the go and for all everyday activities.

Home Multiroom Systems

AV Receivers

Loudspeakers & Soundbars

Luxury Audio

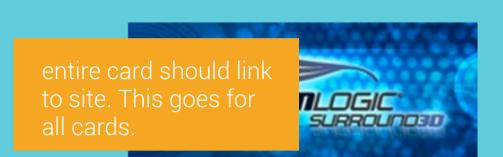
Embedded Audio

Advanced Software

With 60+ years of deep expertise in acoustic design, tuning and signal processing, HARMAN is leading the way in elevating the entire in-cabin listening experience.

More than 25 million automobiles on the road today are equipped with HARMAN audio and infotainment systems, making up for 35 percent of the world's cars.

Harley-Davidson Hyundai Dodge Chrysler Citroën Ferrari Land Rover Peugeot Opel Kia Mercedes-Benz SsangYong Lexus Toyota Subaru



QuantumLogic Surround Learn more



**HALOsonic** Learn more





## LATEST IN-CAR AUDIO TECHNOLOGY

#### QuantumLogic Surround (QLS)

Provides an immersive surround sound experience without producing any artifacts or most traditional surround-sound systems. Built residu Links should open echnology, QuantumLogic 3D accurately upon new window. s, and incorporates additional audio streams that identi

are reproduced via overhead speakers to create an unmatched three-dimensional surround experience

#### Individual Sound Zones (ISZ)

A new in-cabin technology debuted at CES 2015 that enables drivers and passengers to create sonic zones between individuals for the ultimate personalized car audio experience. The technology enables passengers to personalize their own audio experience with limited disruption or interference from other passengers in the car.

#### Clari-Fi

Works in real time to rebuild audio details lost in digitally compressed music that we listen to via MP3's, streaming players and satellite radio. With Clari-Fi, music sounds clearer, crisper, wider and more dynamic.

#### **HALOsonic**

A suite of active noise management solutions that work to improve noise levels and to enhance and contour sound inside and outside the vehicle:

Active noise cancellation technologies:

Engine Order Cancellation (EOC) dampens engine sound without using traditional fuelsucking methods of making the chassis heavier or producing a drone from cylinder shutdown.

Road Noise Cancellation (RNC) reduces unwanted road noise inside the car, enabling automakers to use lightweight chassis materials and thereby increase fuel mileage and reduce emissions.

Electronic sound systems:

Internal Electronic Sound Synthesis (iESS) helps synthesize an exhilarating engine sound that adds a very emotional element to the overall driving experience.

External Electronic Sound Synthesis (eESS) enhances the driving experience by managing noise and sound inside and outside the vehicle, which making the car more environmentally friendly and fuel efficient.

## LIFESTYLE AUDIO BRANDS

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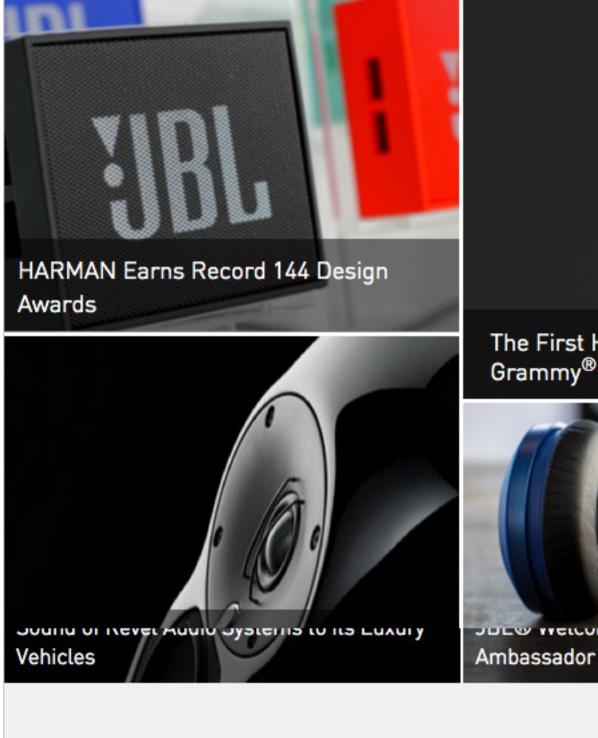
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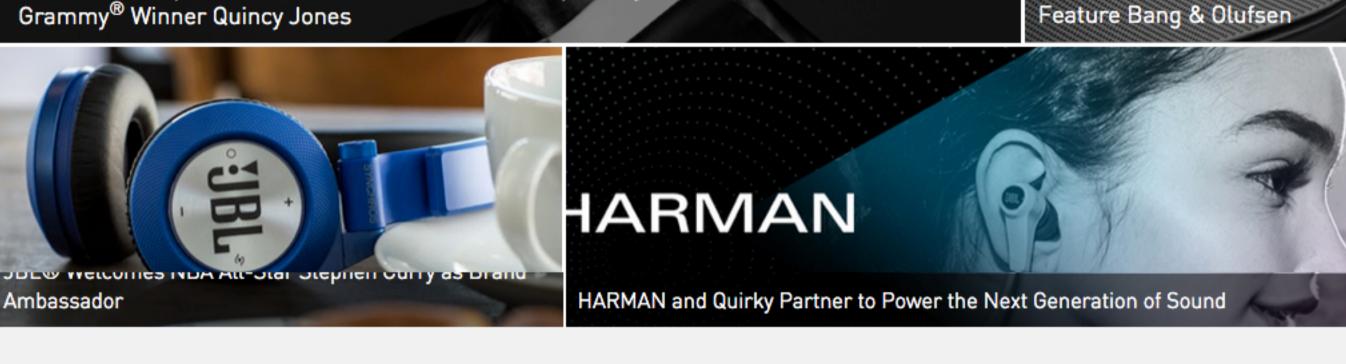
New Audi A4 Models to

#### LIFESTYLE AUDIO NEWS

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#### ABOUT LIFESTYLE AUDIO

Harman's legendary brands have been introducing important innovations in audio for more than 50 years, and we continue to further develop new ways of enriching the audio/visual experience. From state-of-the-art surround sound systems in the home to in-car audio to market leading headphones, HARMAN is delivering premium audio experiences in the home and on the go.

#### Design Story

Getting the design exactly right is part of the HARMAN credo. It is integral to ensuring that each of our products is a consistent, compelling reflection of the values you would expect from HARMAN brands: excellent performance, innovation and advanced technology, complemented by perfect styling. Marking excellence in innovation and design, our leading brands consistently receive industry recognition for their products.

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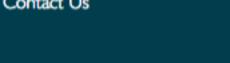
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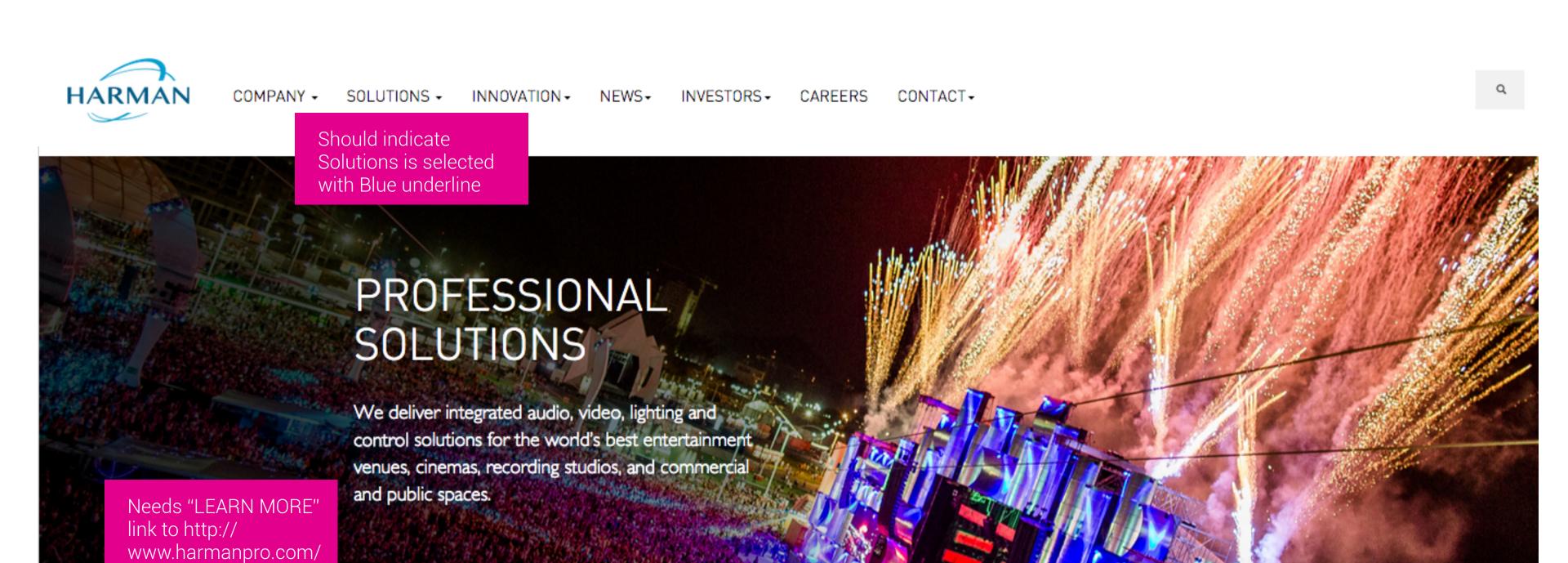




HARMAN Social Channels







Mixing Consoles

Signal Processing

With a history spanning 65 years and more than 60 patents on amplifier technology, Crown is the world's leading manufacturer of power amplifiers.

> Crown's amplifiers and system control products are a staple in live and fixed installations, from large stadiums and arenas to portable PA systems for musicians and DJs. Crown is the industry leader in networking amplifiers and embedding digital signal processing (DSP) into amplifiers, producing numerous innovative designs, including the DriveCore™ Install (DCi) series, which replaces more than 500 parts with one tiny chip.

Microphones & Headphones

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Browse Crown Audio

Amplifiers

Lighting

**Amplifiers** 

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Replace with new logos and links.

harman/kardon

16 Infinity.

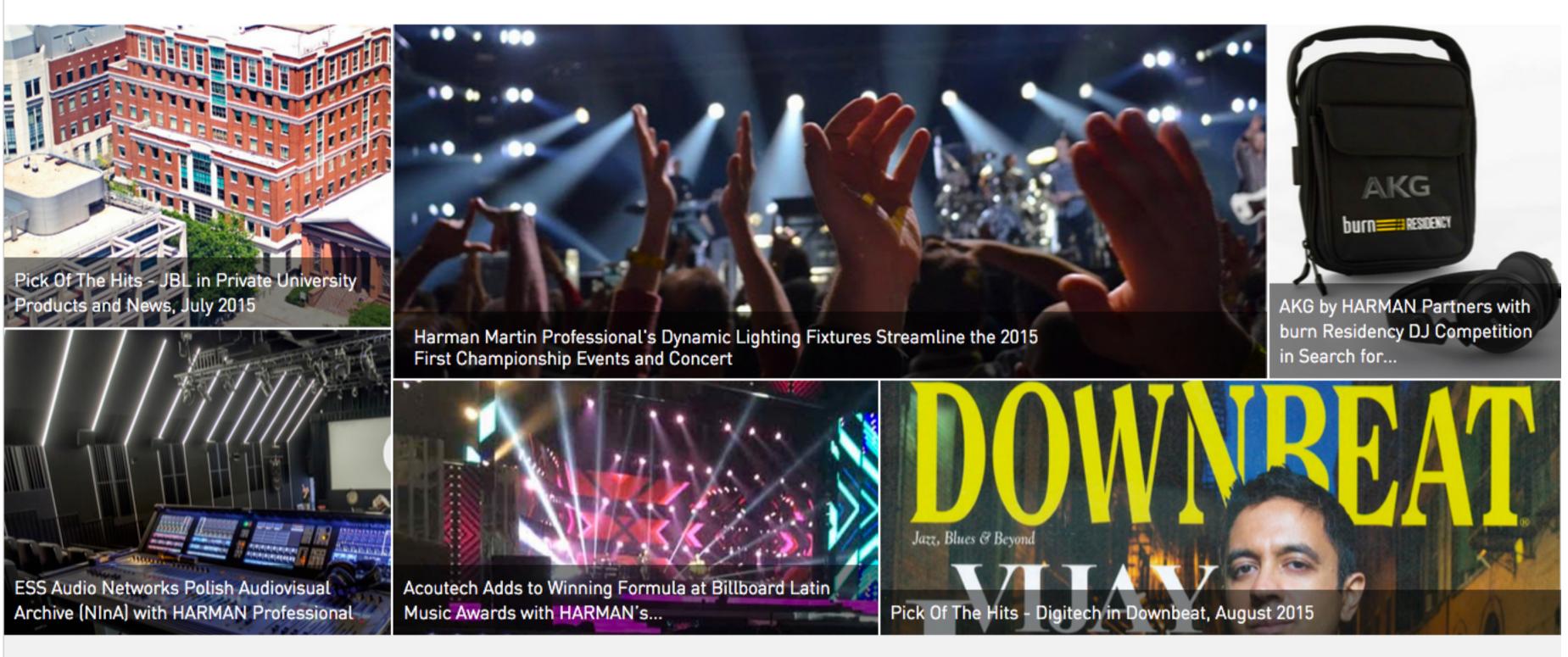
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Video & Control

#### PROFESSIONAL SOLUTIONS NEWS

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Speakers



#### ABOUT PROFESSIONAL SOLUTIONS

Headquartered in Northridge, California, HARMAN Professional Solutions is the world's largest professional audio, video, lighting, and control products and systems company. Our brands comprise AKG Acoustics®, AMX®, BSS Audio®, Crown International®, dbx Professional®, DigiTech®, JBL Professional®, Lexicon Pro®, Martin®, Soundcraft® and Studer®. These best-in-class products are designed, manufactured and delivered to a variety of customers, including recording and broadcast, musicians, cinema, touring sound, commercial sound and contracting applications. From major sports arenas, entertainment venues and nightclubs to hotel resorts, classrooms, airports and houses of worship, chances are you've seen or heard HARMAN today.

For additional information www.harmanpro.com.

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ssional Solutions, visit

Check out the latest news on our Pro Sound Blog. Learn More

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FIX PAGE BUG. Jones Lang LaSalle CONNECTING BUILDINGS We are helping JLL save on energy cost and manage smart buildings will connected data. VIEW CASE STUDY ->



Microsoft

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YOTADEVICES



We connect ecosystems by transforming convergence using cloud, mobility, analytics and design.

Device

**ENGINEERING** 

Embedded engineering, integration and device management services.

Diagnostics, monitoring and upgrades with secure, personalized OTA technologies.

Data **ENGINEERING** 

frameworks to unlock business value.

Analytics, Machine Learning and Data Science

Cloud led application and infrastructure to enable

Design ENGINEERING

UX design, research and application development for a mobile-first world..

# **INDUSTRIES**

