WorldDAB General Assembly

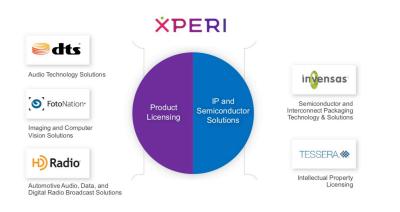
Digital Radio and the Connected Car -The Expectations, Challenges and Opportunities

November, 2018

Joe D'Angelo Senior VP, Broadcast Radio



Who is Xperi?







50 million cars





























Business Unit

+6,000 Stations













































Digital Radio – Changing the Face of the Medium





Percentage of New Car Sales	
United Kingdom	91%
Australia	60%
Norway	98%
Germany	39%
Italy	46%

Discovery • Choice • Branding • Engagement Driving Consistency digitalradio V



Digital Radio – Changing the Face of the Medium







Discovery • Choice • Branding • Engagement

Driving Consistency digitalradio (Confidential. Do not distribute. **PERIOR OF THE PRIOR OF

Connected Platforms Provide Unique Opportunities



BROADCAST & IP



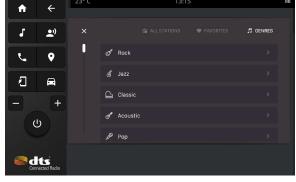
Discovery

Engagement

Enhanced Content

Insights & Metrics











One Car Company's Requirements for Connected Radio



Automotive Expectations





280+ Functional & Performance Requirements



System, Content and Network Security



Coverage in 68 countries



Product Development & Certification Support



Support for all Broadcast Frequencies



Field & Bench Test Support



GDPR & OEM Privacy Compliance



Service Support and Issue Resolution



One Car Company's Requirements for Connected Radio





What's it going to take...



280+ Functional & Performance Requirements



- Deliver live "now-playing" guide in 500 ms
- ✓ Provide complete station information for all stations in market – bandwidth optimization



Coverage in 68 countries



45,850 radio stations

Representing +85% of annual car sales



Support for all Broadcast **Frequencies**



- 135,777 transmissions Analog, DAB+ and HD Radio

One Car Company's Requirements for Connected Radio



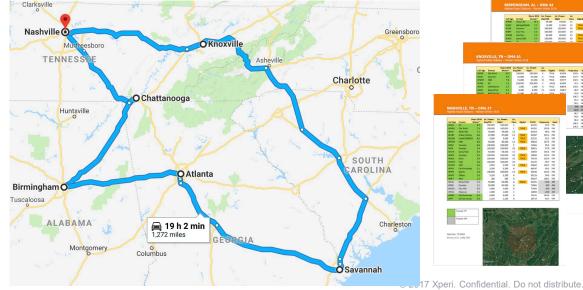
What's it going to take...

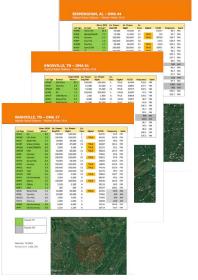




Field & Bench Test Support

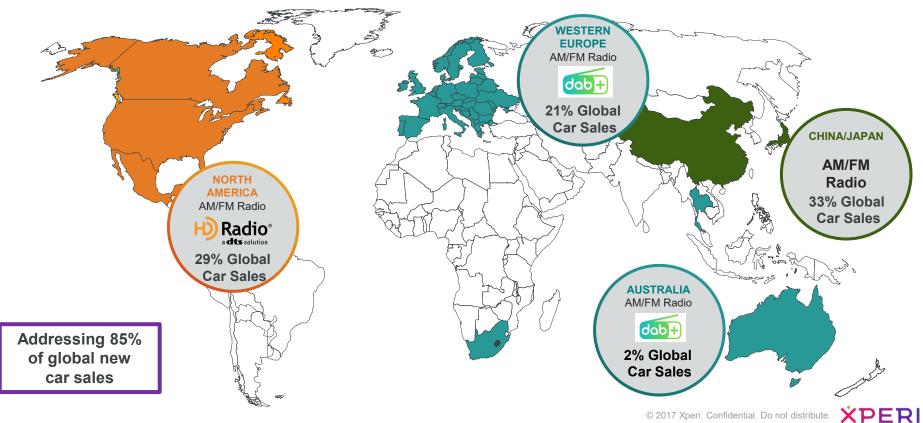






68 Countries Account for 85% of Global Car Sales





Connected Radio Keeps Broadcasters in Control



Broadcaster Expectations





Editorial Control



Limited Impact on Workflow



Content Integrity



Limited Impact on Production



Content Protection



Speed to Market



Enhanced Listener Insights and Metrics

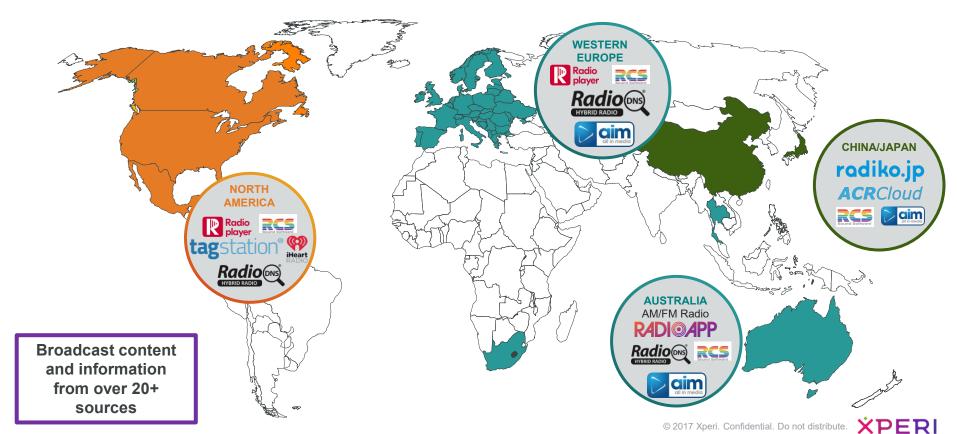


Enhance Radio's Prominence



Leveraging Existing Platforms for Coverage

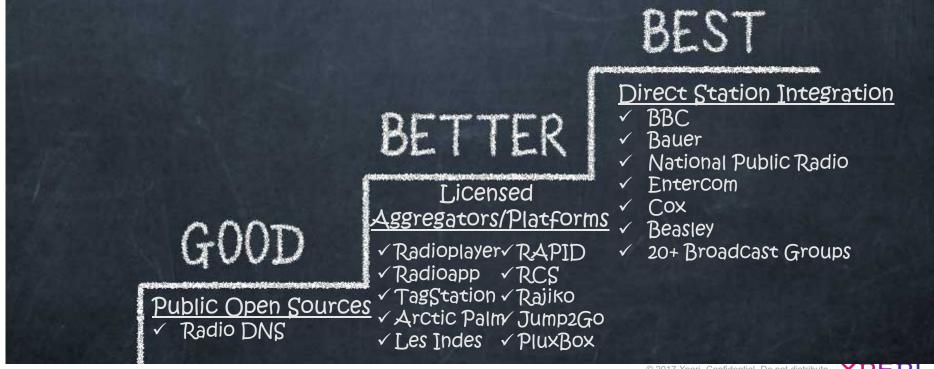




Xperi's Content Acquisition Approach



Leverage all available content sources – ensure broadcast control



Engaging with Broadcasters on Their Terms



















March, 2018

April, 2018

September, 2018

September, 2018



Progress in 2018 – November, 2018





FOR IMMEDIATE RELEASE



XPERI and Commercial Radio Australia Collaborate to Enhance Radio Experience in Connected Cars

CRA joins the BBC and the NAB to develop industry best practices for next generation car radios

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XPERI and Commercial Radio Australia Collaborate to Enhance Radio Experience in Connected Cars

CRA joins the BBC and the NAB to develop industry best practices for next generation car radios

CALABASAS, Calif. (Nov 6, 2018) – <u>Xperi Corporation</u> (Nasdaq: XPER) ("Xperi"), is pleased to announce that Commercial Radio Australia (CRA) will join its growing list of broadcast radio ER) ("Xperi"), is pleased to list of broadcast radio erience. Xperi's wholly d smartphone apps, has a ntly supported the reaming radio platform, will o content into the DTS®

n-going global automotive implementation and listener

oracing new technology to said Jeff Jury, general I launch of DAB+, the industry wide Alexa skill. We eam, have joined Xperi in our rs."

d internet technologies to ," said Joan Warner, CEO of representing Australia's heir development of the DTS

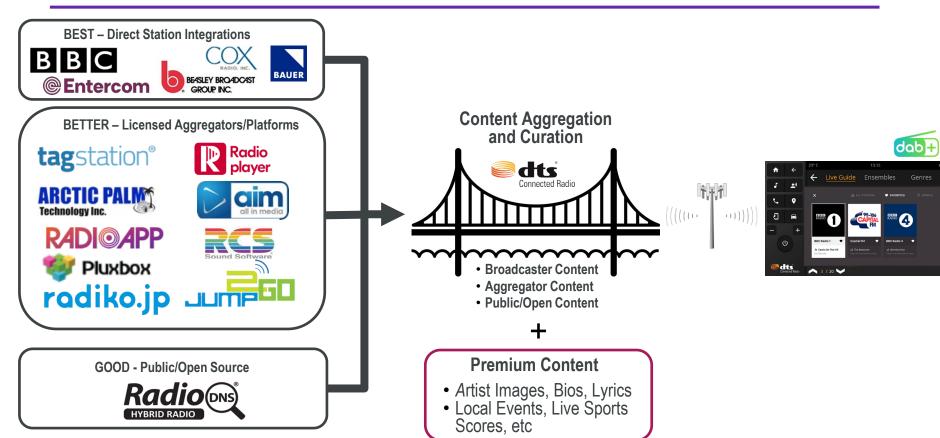
o delivers an innovative digital with IP-delivered content. ogram and talent nd more, from broadcasters

t www.xperi.com/futureofauto d Instagram (@DTS).



Ensuring Broadcaster Control & Meeting OEM Requirements





Global Ecosystem and Development Tools





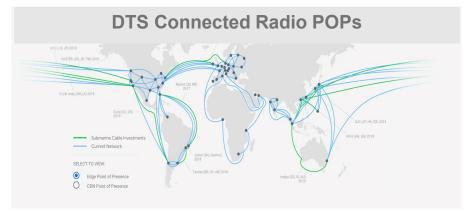
Worldwide Ecosystem, Points of Presence, Hardware Reference and Developer Tool Kit

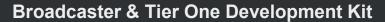
Broadcasts — DTS Connector X

Broadc

Connected Radio
Evaluation Unit





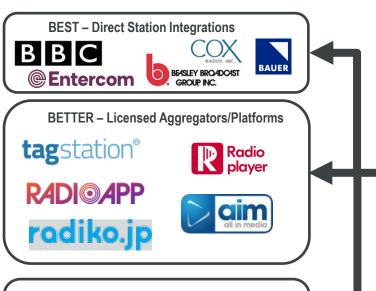




DTS Connected Radio: Ensuring Broadcaster Visibility



dab











- Transparent, station/group level reporting
- Compliance with legal and OEM guidelines



DTS Connected Radio: Ensuring Broadcaster Visibility

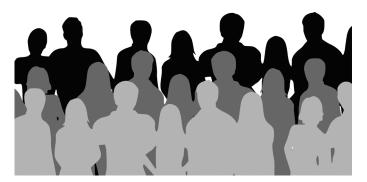


Audience Measurement

- Current listening
- Peak listening
- Station/cluster/group profile
- Audience heat maps
- Audience flow

Audience Detail

- Start/end of session w/ cause
- Average active listeners
- Average TSL per session
- Total TSL per reporting period
- Number of session starts
- Technology platform analog/DAB+



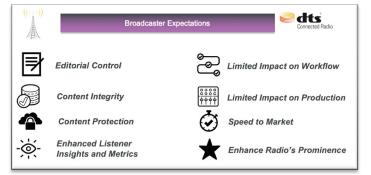
Audience Analysis

- Vehicle market proximity
- Vehicle profile
- Platform profile



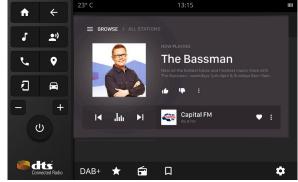
Delivering Value to Broadcaster, OEMs & Listeners













Some Final Thoughts





- Broadcasters' investment in DAB+ is driving significant adoption by car companies
- Connectivity is coming to the car and changing in-car listening
- Consumer expectations are extremely high driven by smartphone experience
- Broadcasters can exploit these technologies by using them together to create an unmatched service offering
- Time to market, consistency and quality services are critical to consumer & OEM acceptance









