

PARTNERSHIP, COLLABORATION & INNOVATION – THE PATH TO RECOMMENDATIONS & PERSONALIZATION

NOVEMBER 2022

WorldDAB Summit



Broadcast Technologies Portfolio



DTS AutoStage

Next-gen hybrid infotainment platform that works directly with broadcasters.



Digital AM & FM

Digital Broadcast Radio. Now shipping AM All-Digital.



Music Metadata

Our high-res images, song connections and content enable you to deliver personalized user experiences



AIM Radio Apps

The World Leader in Smartphone Apps for Radio Stations. Now going beyond mobile: smart speakers, TVs, in-car mirroring technologies



Broadcast Systems

Global Leader in Visual Radio Broadcast Systems



AUTOMOTIVE: PARTNERS, SUPPLIERS, AND SCALE

125+ million

cars on the road with Xperi technologies

20+

years of Automotive, Radio Broadcast and Music partnerships

40+

global OEMs & suppliers partnering with Xperi on world-class solutions

20+

global suppliers working with Xperi to integrate technology & deliver to OEMs

AUTOMOTIVE MANUFACTURERS





























NISSAN









SUBARU



























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TIER 1 SUPPLIERS







































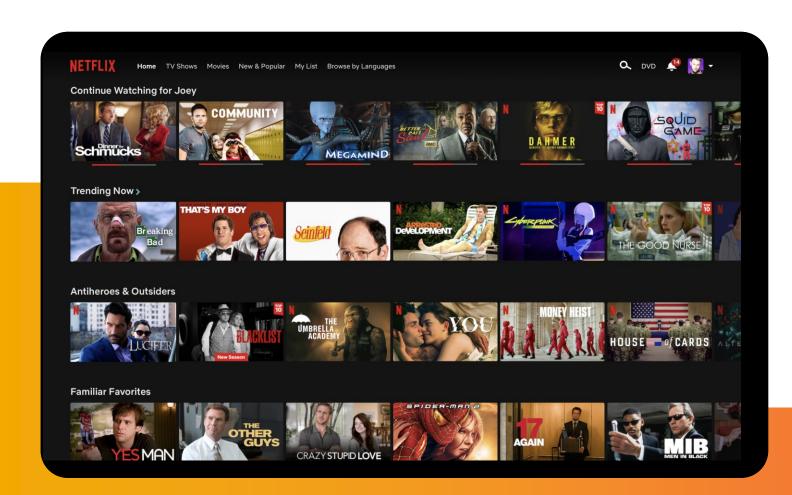








OPPORTUNITY: BRING THE CONVENIENCE, DISCOVERY, AND ENGAGEMENT OF PERSONALIZED VIDEO TO BROADCAST RADIO



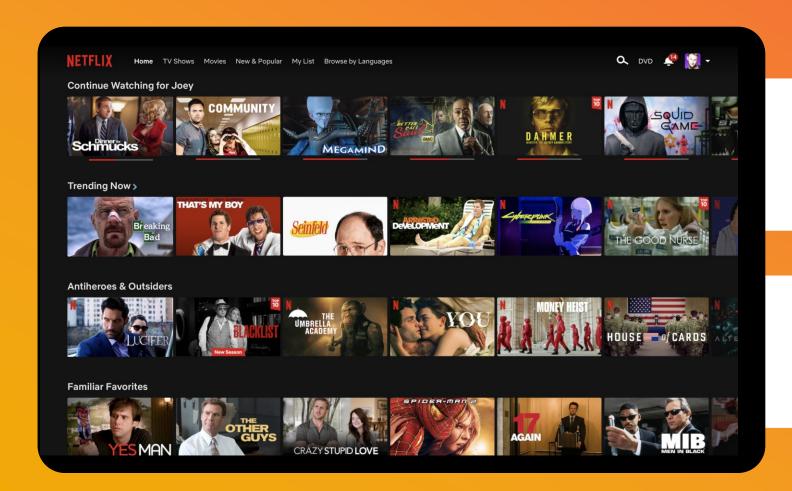
"Our brand is personalization"

Ted Sarandos,

Netflix Chief Content Officer



NETFLIX IS THE GOLD STANDARD



Currently over 80% of Netflix members choose to watch their recommendations:

Up from just 2% in 1992

Netflix has **90-seconds** to help viewers find content before they leave the platform for another service



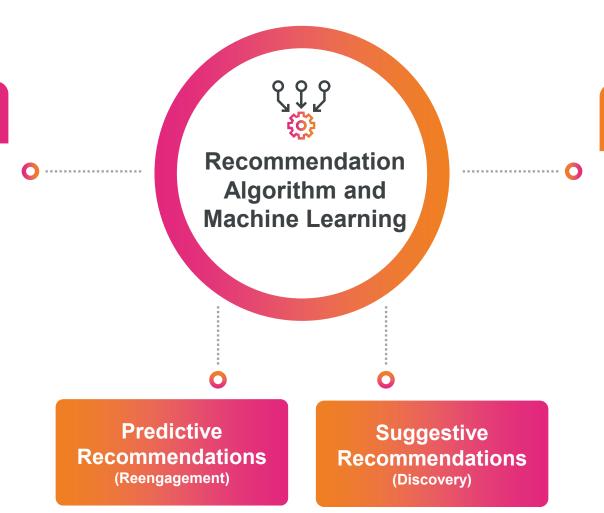
HOW DO THEY DO IT?

Deep Understanding of Content Catalog

17,300+

Titles Metadata Depth

- Show type
- Plot synopsis
- Director
- Actors
- Year
- Awards
- Language
- etc



Deep Understanding of Their Audience

300 million

Total viewers Metadata Depth

- ► Location (190 countries)
- Viewer profiles
- Viewing history
- ► Regional demographics
- ► Trends
- etc



CAN RADIO DO IT?



Challenges for Personalization

- Global system of localized, independent services
- Decentralized infrastructure
- Live, unscripted dynamic content
- Anonymous, disconnected audience

YES, BUT....



The Connected Car Makes
Personalized Radio Possible,
but Requires...

- Connectivity
- Centralization
- Understanding
- Expertise
- Scale
- Regulatory/Privacy Compliance
- and, More



A GLOBAL INDEPENDENT MEDIA PLATFORM FOR AUTOMOTIVE



LAUNCHED IN 2020

Coverage in 150+ countries supporting over 85,000 radio stations – free to broadcasters



Combines digital broadcasting and internet services



Your radio station is the hero of the dashboard story: powered by rich, consistent metadata, advanced services and broadcast content protection



Delivers basic analytics and metrics to broadcasters at no cost



Complementing and Enhancing DAB Services



Carousel of Available Stations



Sequential Engaging Favourites Listing



Complementing and Enhancing DAB Services



High Resolution Station Logos



Licensed High Resolution Cover Art



Complementing and Enhancing DAB Services





Multimedia Now Playing Information

Licensed Song Lyrics



DTS AUTOSTAGE SUPPORTING BROADCAST RADIO AROUND THE WORLD – PARTNERSHIP & COLLABORATION















DTS AUTOSTAGE SUPPORTING BROADCAST RADIO AROUND THE WORLD – PARTNERSHIP & COLLABORATION



DTS AutoStage

Content | Discovery | Experience

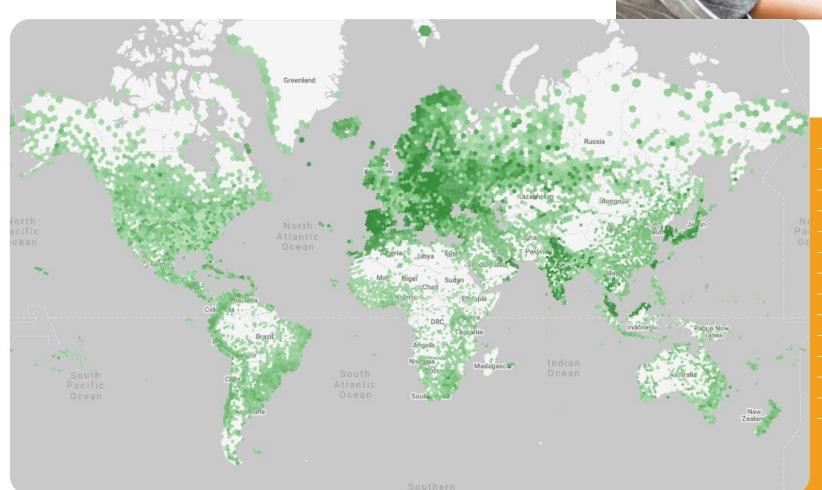


- √ 30 Countries
- √ 2,696 Services
- √ 6,147 Broadcasts



DELIVERING VALUE & INSIGHTS

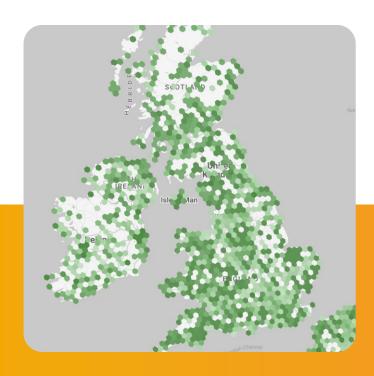
WORLDWIDE AUDIENCE ANALYTICS



3.7 billion 88,354
Tuning / location events Frequencies

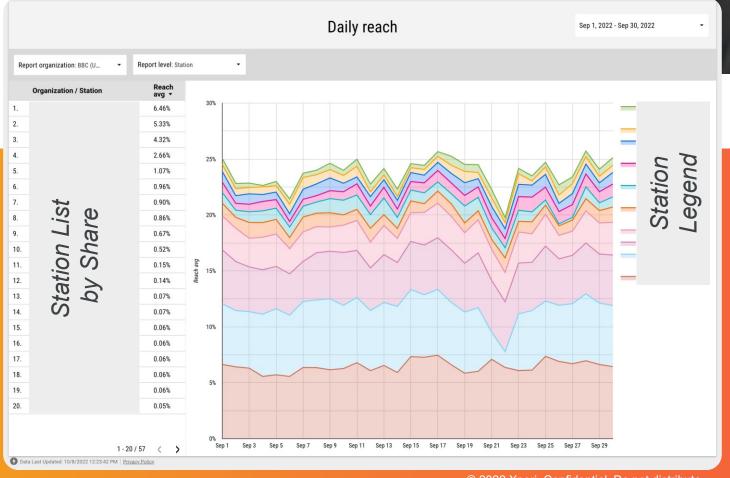
	1	Germany	567,027,855
2	2	South Korea	499,424,008
3	3	United States	348,802,406
4	4	Russia	170,890,958
Ļ	5	Japan	142,789,937
(6	Poland	73,423,758
7	7	France	59,779,211
8	8	Belgium	58,415,556
(9	Switzerland	57,549,608
	10	Italy	57,047,587
	11	Netherlands	46,458,621
	12	United Kingdom	39,095,160
	13	India	37,935,786
	14	United Arab Emirates	31,325,457
	15	Czechia	29,542,110

UNDERSTANDING AND CONNECTING WITH YOUR AUDIENCE



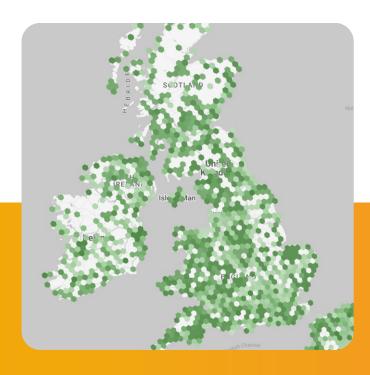


((γ)) ~600 Stations





UNDERSTANDING AND CONNECTING WITH YOUR AUDIENCE





((p)) ~600 Stations

	country	name	BID	band	count ▼	count
1.	United Kingd		84186	DAB	2.3M	
2.	United Kingd		141519	DAB	2M	
3.	United Kingd		84475	DAB	1.4M	
4.	United Kingd	List nts	84511	DAB	1.3M	
5.	United Kingd		84673	DAB	1.1M	
6.	United Kingd	Station by Eve	138936	DAB	1.1M	
7.	United Kingd	0) –	85066	DAB	1.1M	
8.	United Kingd		84247	DAB	1M	
9.	United Kingd		84136	DAB	957.4K	
10.	United Kingd		74994	DAB	778.1K	



UNDERSTANDING AND CONNECTING WITH YOUR AUDIENCE – ANALOG vs. DAB+

	country	name	BID	band	count ▼	count
1.	Germany	SWR3	77962	DAB	386.9K	
2.	Germany	SWR3	77963	DAB	172K	
3.	Germany	SWR1 Baden-Württemberg	76678	DAB	162K	
4.	Germany	SWR3	77961	DAB	151.5K	
5.	Germany	DASDING	77797	DAB	131.1K	
6.	Germany	SWR1 Baden-Württemberg	76679	DAB	71.8K	
7.	Germany	SWR1 Rheinland-Pfalz	77557	DAB	67.9K	
8.	Germany	DASDING	77798	DAB	61K	
9.	Germany	SWR3	77960	DAB	55.1K	
10.	Germany	SWR3	140759	DAB	37K	•
11.	Germany	DASDING	77796	DAB	36K	1
12.	Germany	SWR Aktuell	77845	DAB	25.4K	1
13.	Germany	SWR3	77950	FM	23.7K	1
14.	Germany	SWR4 Baden-Württemberg	112334	DAB	22.1K	I
15.	Germany	SWR1 Baden-Württemberg	140754	DAB	20.5K	1
16.	Germany	DASDING	140751	DAB	17K	1
17.	Germany	SWR2	77841	DAB	16.2K	1
18.	Germany	SWR1 Baden-Württemberg	76665	FM	11.3K	1
19.	Germany	SWR3	77943	FM	11.3K	1
20.	Germany	SWR3	77948	FM	11K	1
21.	Germany	SWR4 Karlsruhe	75795	DAB	10.9K	1
22.	Germany	SWR4 Tübingen	76703	DAB	10.5K	1
23.	Germany	DASDING	77780	FM	10.4K	1
24.	Germany	SWR4 Südbaden	76699	DAB	9.9K	1
25.	Germany	SWR4 Ulm	76711	DAB	9.7K	1
26.	Germany	SWR4 Baden-Württemberg	112335	DAB	9.6K	1
27.	Germany	SWR4 Heilbronn	75803	DAB	9.2K	1
28.	Germany	SWR3	221690	FM	8.8K	1







UNDERSTANDING AND CONNECTING WITH YOUR AUDIENCE – ANALOG vs. DAB+

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14.	Germany	SWR4 Baden-Württemberg	112334	DAB	22.1K	•
15.	Germany	SWR1 Baden-Württemberg	140754	DAB	20.5K	
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28.	Germany	SWR3	221690	FM	8.8K	1







DTS AUTOSTAGE PROJECTED TUNING/LOCATION EVENT GROWTH





3.6 billion measurement events captured YTD in '22



93.3 billion events projected for '23



~30x increase

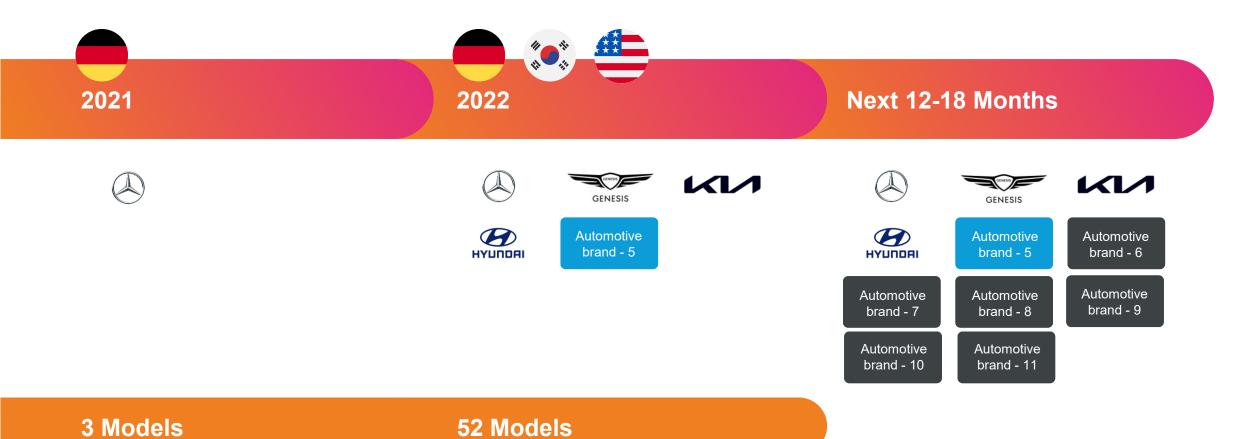
GROWTH IN AUDIENCE MEASUREMENT AND INSIGHTS (in Billions)



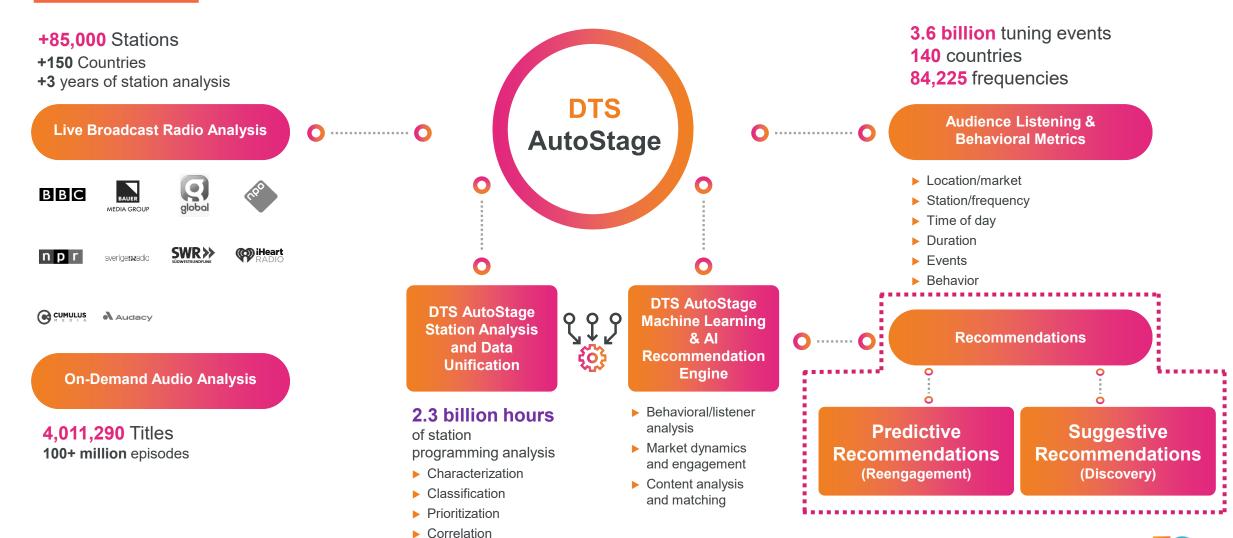
Tuning Events



DTS AUTOSTAGE: AUTO MANUFACTURER GROWTH



Delivering Competitive Advantage to Broadcast Radio – Personalization & Recommendations





PERSONALIZATION AND RECOMMENDATIONS FOR RADIO



PERSONALIZED FOR JOSHUA

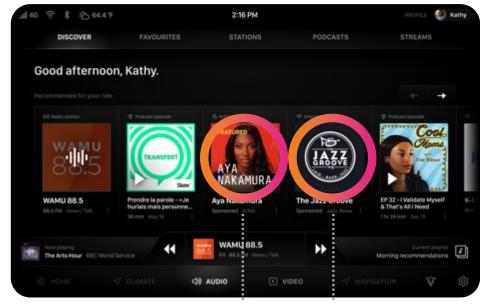








PERSONALIZED FOR KATHY











JOIN US –
ON THE ONLY GLOBAL
INDEPENDENT MEDIA
PLATFORM DESIGNED FOR
BROADCAST RADIO AND
AUTOMOTIVE

