



Analysing DAB+ reception in vehicles to compare coverage simulations with real-world data

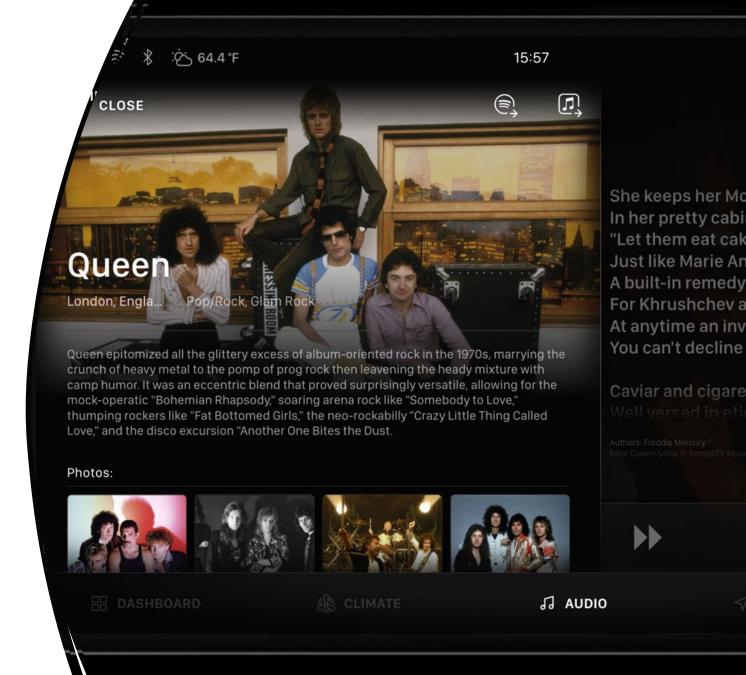
DAB+ planning, measurement and monitoring Desmond S. Fuller, Xperi

Geneva, March 2024

What is DTS AutoStage?

Enhancing radio around the world by providing metadata linked to broadcasts via an IP connection

- Live station guides
- Higher-resolution images for new vehicles
- Lyrics
- Additional information about the artist and song



Quick Stats | DTS AutoStage



Global Broadcasters

49,688 Radio Stations 142,530 Live Broadcasts



2.1 Billion Hours of Enhanced Discovery, Engagement & Measured Radio Listening

XPERI



Automakers

12 OEMs In Production 6.5 Million Cars on the Road



DTS AutoStage: Automakers



























6 In Final Development — Launching by 1Q 2025

Automotive brand - 13

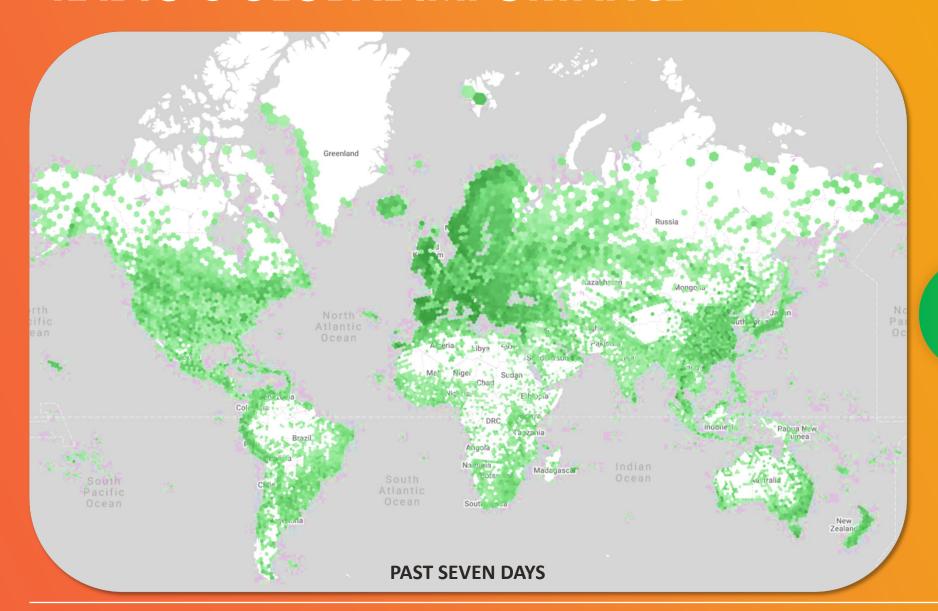
Automotive brand - 14 Automotive brand - 15

Automotive brand - 16

Automotive brand - 17

Automotive brand - 18

RADIO'S GLOBAL IMPORTANCE



159 Countries 49,688 Stations





DTS AUTOSTAGE ANALYTICS

STORY OF YOUR STATION IN THE DTS BROADCASTER PORTAL



A PRIVACY-FIRST APPROACH TO DATA ANALYSIS

NO PERSONALLY IDENTIFIABLE DATA: GOOD NEWS FOR THE BROADCASTERS

Built from the ground up with privacy by design in mind.



We take cybersecurity and risk mitigation seriously.



Shielding broadcasters from potential litigation and legal requirements associated with the handling of personal data.



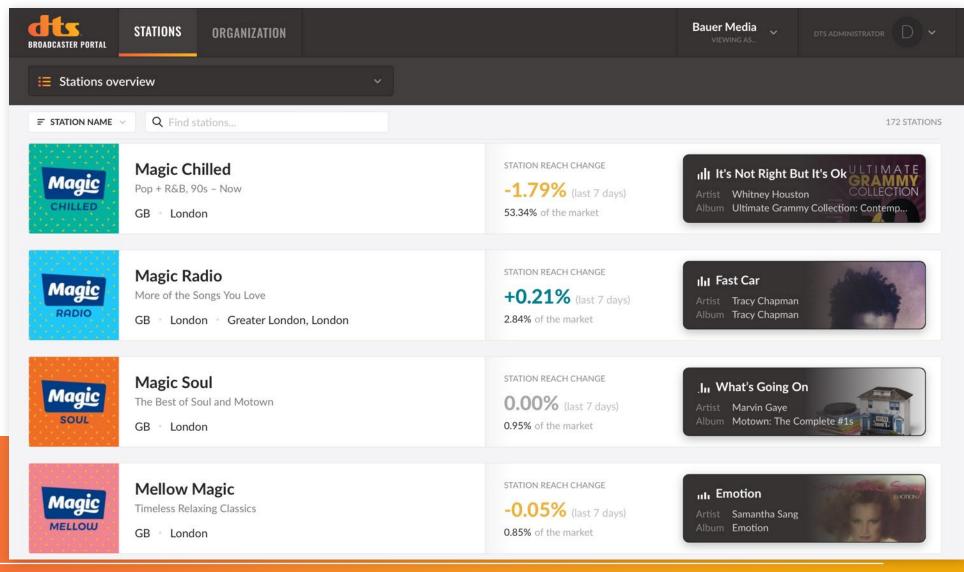
Broadcasters will only see their stations.



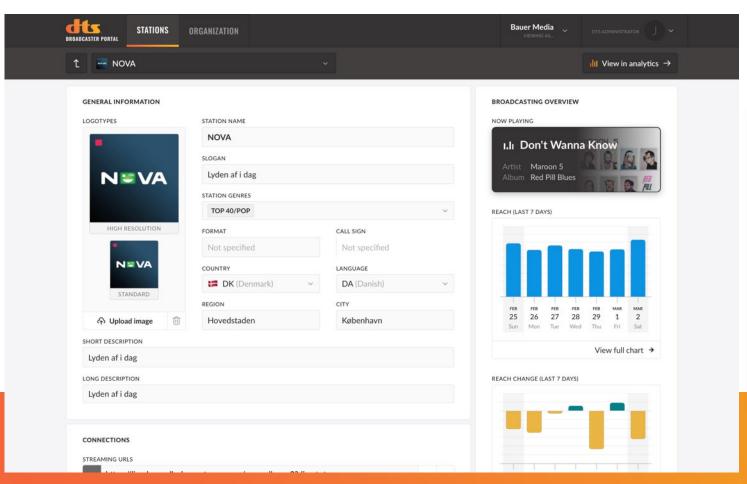


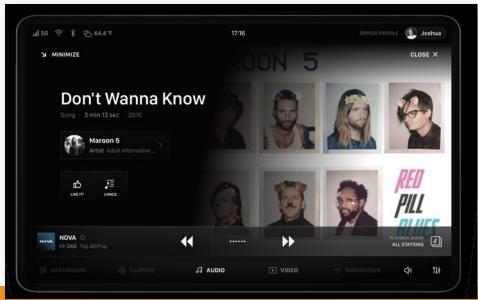
TAKE CONTROL: YOU DECIDE HOW YOUR STATIONS LOOK





CONTROL + AUDIENCE AWARENESS: PROGRAMMING QUALITY + METADATA CONSISTENCY





Global Receiver Emulator

Broadcast Metadata Manager



TELLING THE STORY OF YOUR STATION AND AUDIENCE













Understand your audience in your markets.



Where is your audience listening and the concentration in your market?

WHEN

When is your audience tuning in and tuning out during the course of the day?

HOW

How is your audience tuning into your station – analogue, DAB, HD Radio, etc.?

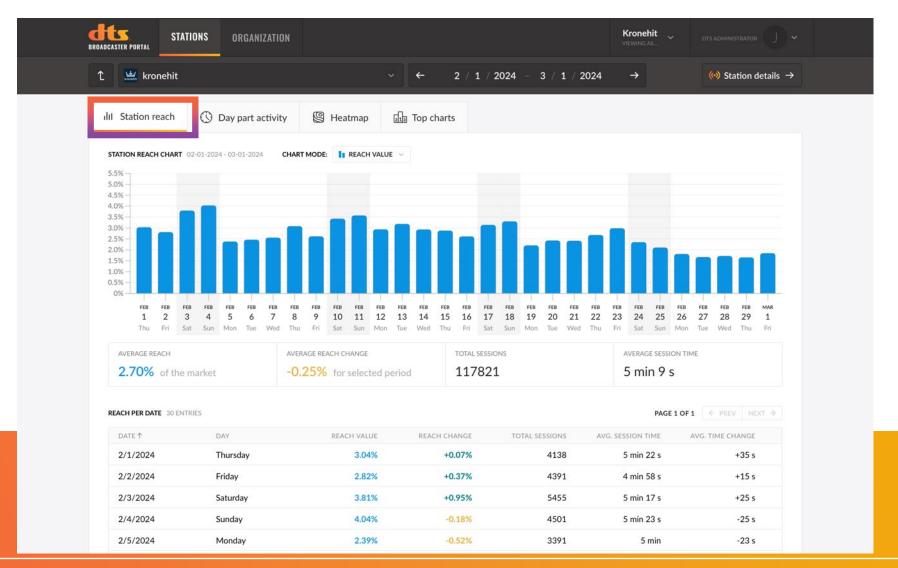
WHAT

What programming is attracting the largest audience, and how is content performing



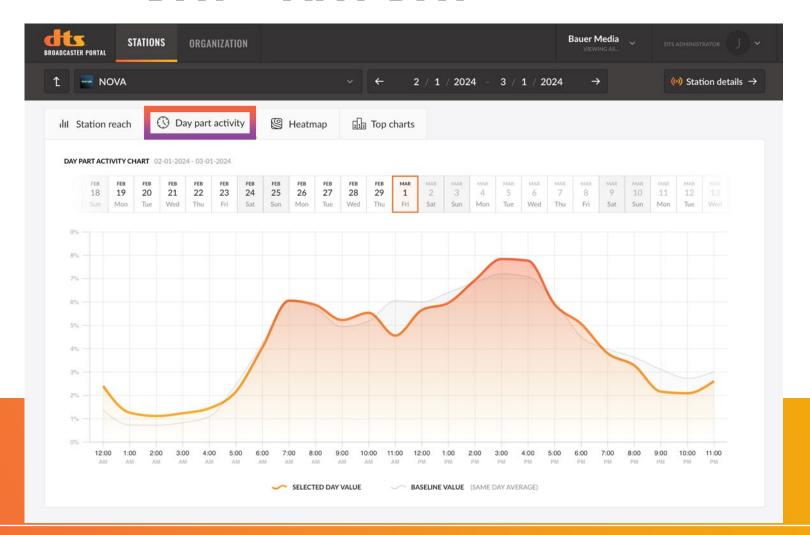
WHO: STATION REACH AND MARKET PERFORMANCE





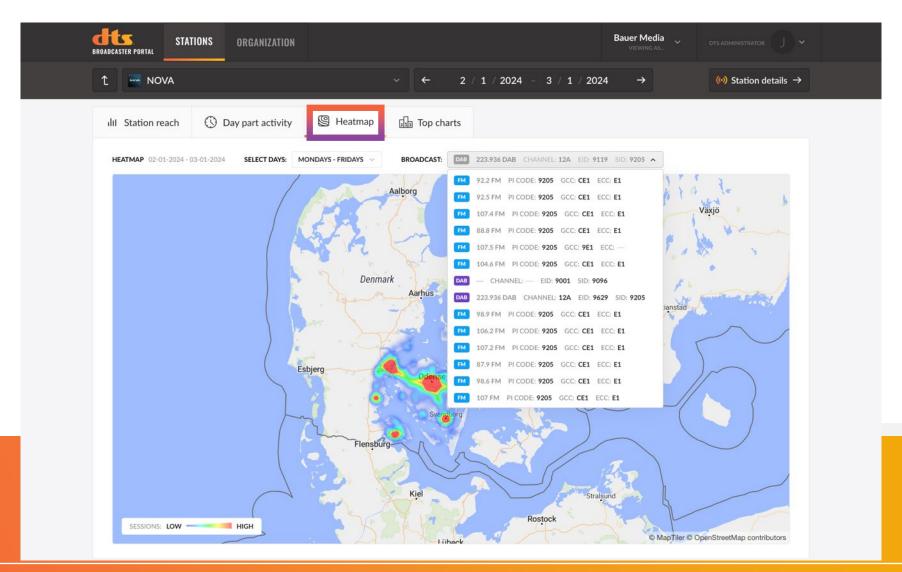
WHEN: UNDERSTAND YOUR AUDIENCE THROUGHOUT THE DAY – ANY DAY





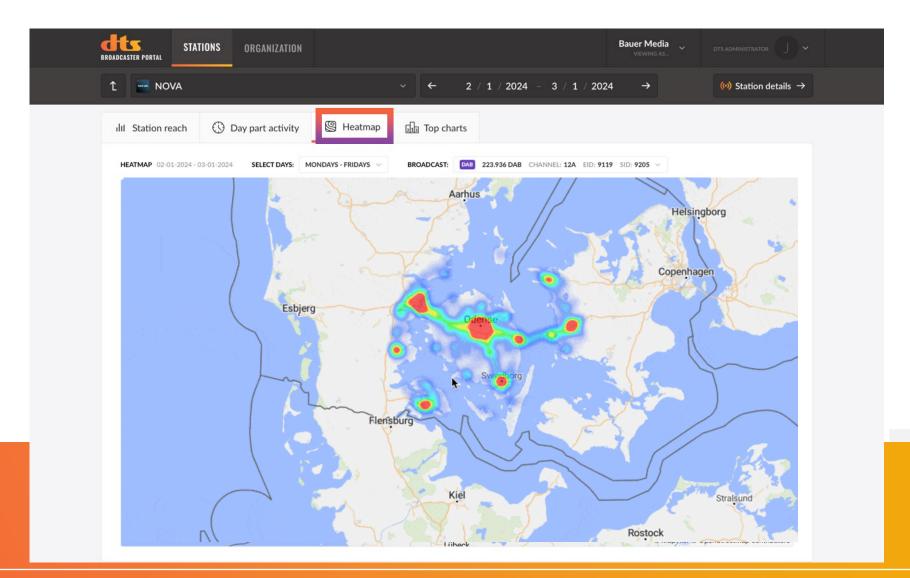
HOW & WHERE: YOUR AUDIENCE LISTENS





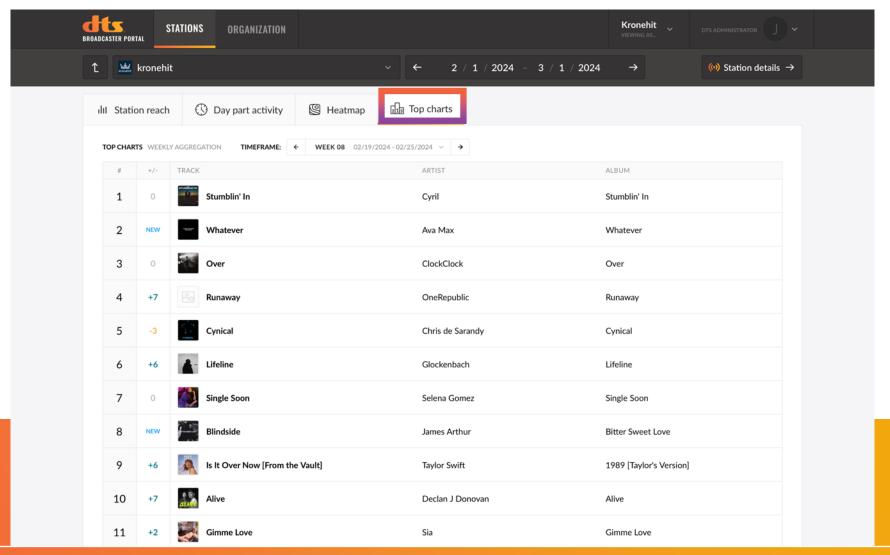
HOW & WHERE: YOUR AUDIENCE LISTENS





WHAT: IS YOUR AUDIENCE LISTENING TO?





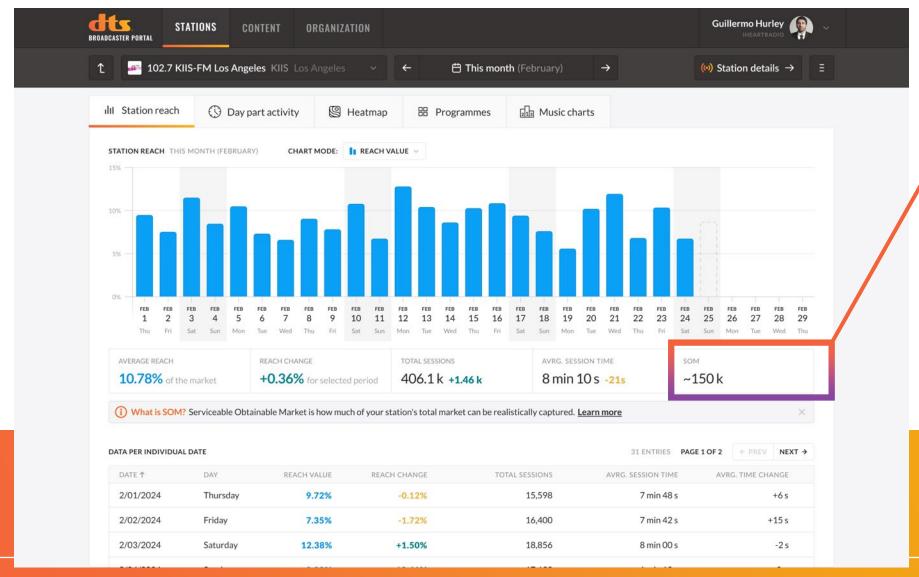


DTS AUTOSTAGE ANALYTICS

DTS BROADCASTER PORTAL 2.0 -ENHANCED CONTROL AND FUNCTIONALITY



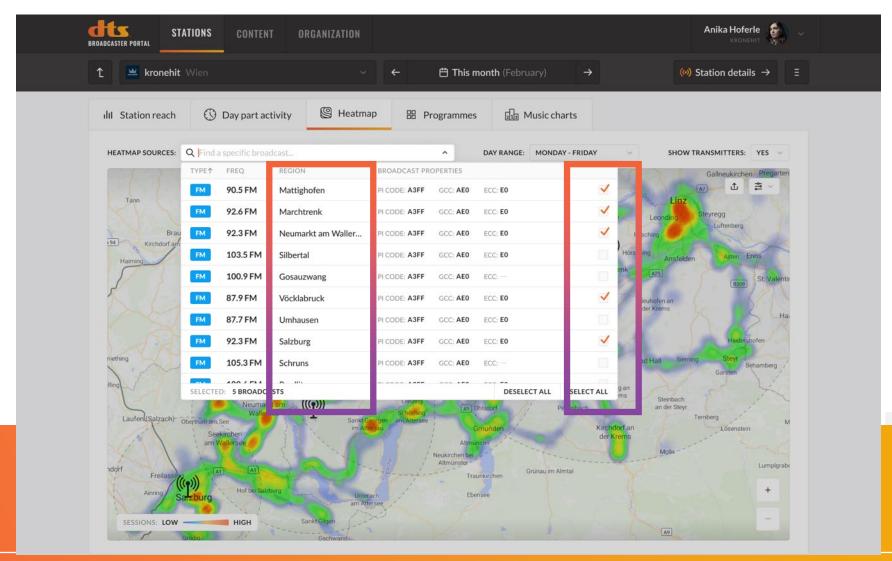
NEW FUNCTIONALITY: DTS AUTOSTAGE RECEIVERS



Service Obtainable Market during observation period

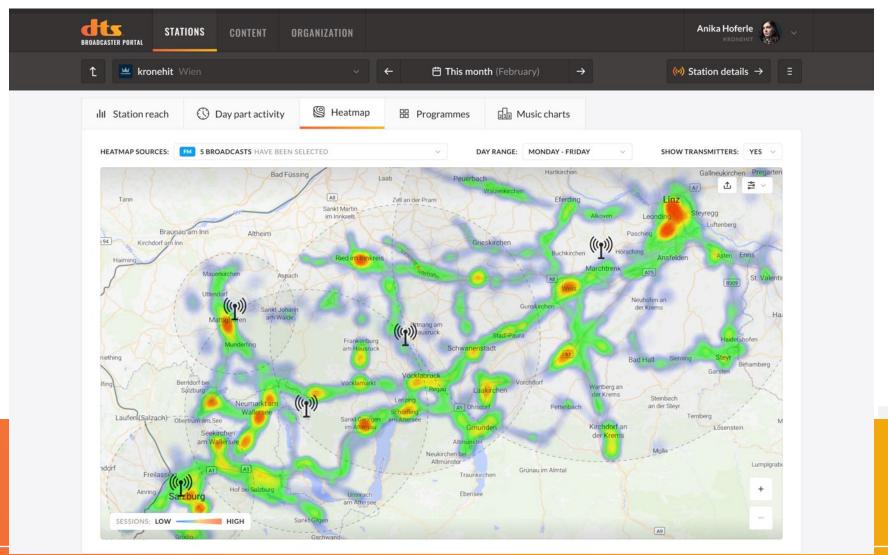
NEW FUNCTIONALITY: REGION ID & NETWORK SELECTION





NEW FUNCTIONALITY: REGION ID & NETWORK SELECTION



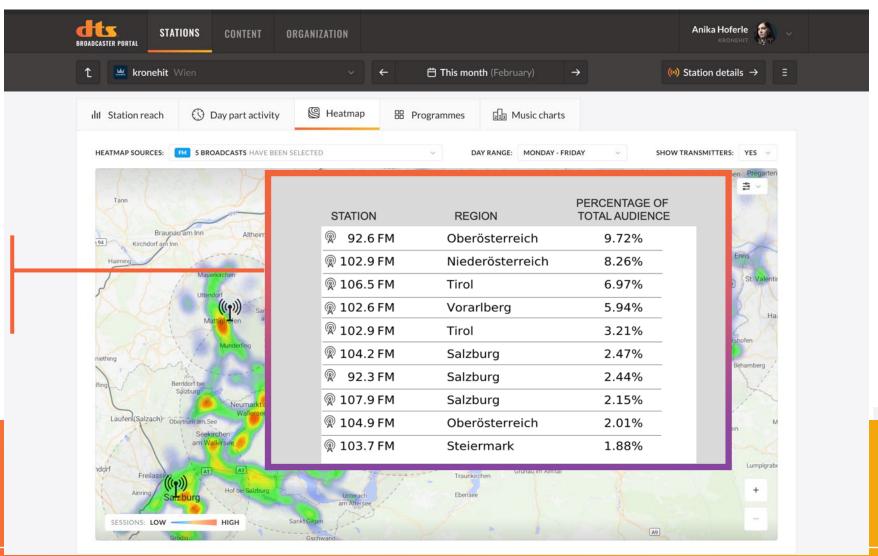


NEW FUNCTIONALITY: REGION ID & NETWORK SELECTION



Top 10 Stations

45.05% of total listening



dts.

DTS AUTOSTAGE ANALYTICS

OTHER INSIGHTS



WHICH TEN COUNTRIES LISTEN ON DAB THE MOST?

IN ALPHABETICAL ORDER

Australia	
Belgium	
France	
Germany	
Italy	
Netherlands	
Norway	
Sweden	
Switzerland	
United Kingdom	



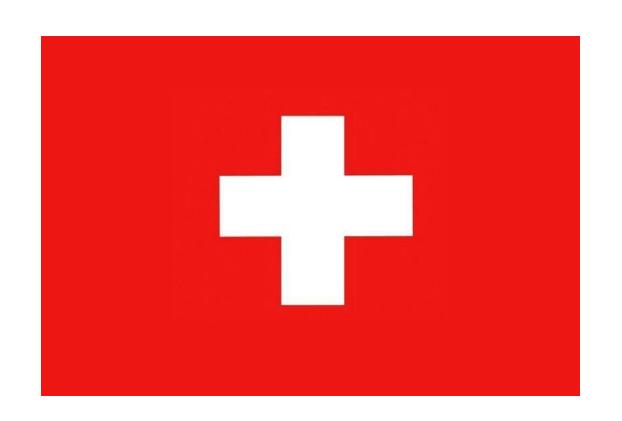
TOP 25 STATIONS: SPAIN



TYPE	MARCH 2023	MARCH 2024
DAB	4	5
ANALOGUE	21	20

TOP 25 STATIONS: SWITZERLAND

Note: As of March 2024, 65% of radio listening in the country is still on analogue



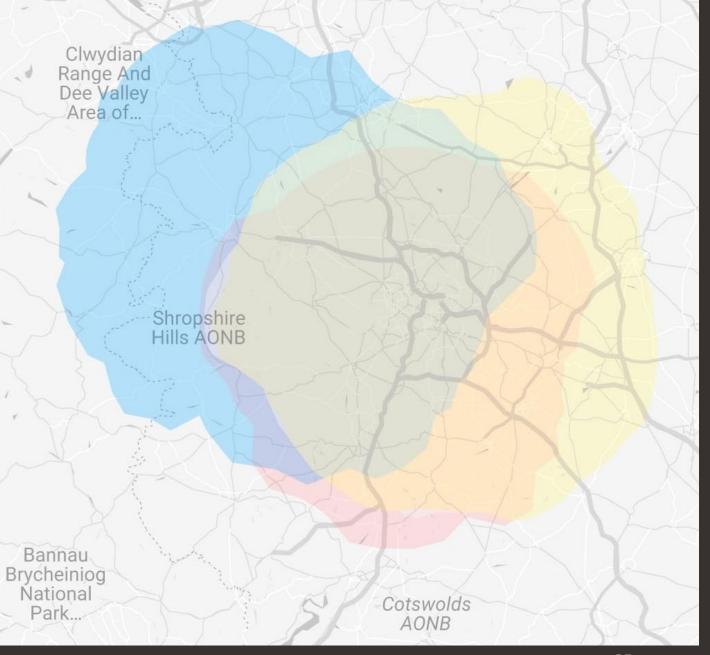
TYPE	MARCH 2023	MARCH 2024
DAB	25	25
ANALOGUE	0	0

DAB: TWO MULTIPLEXES AND AN FM STATION

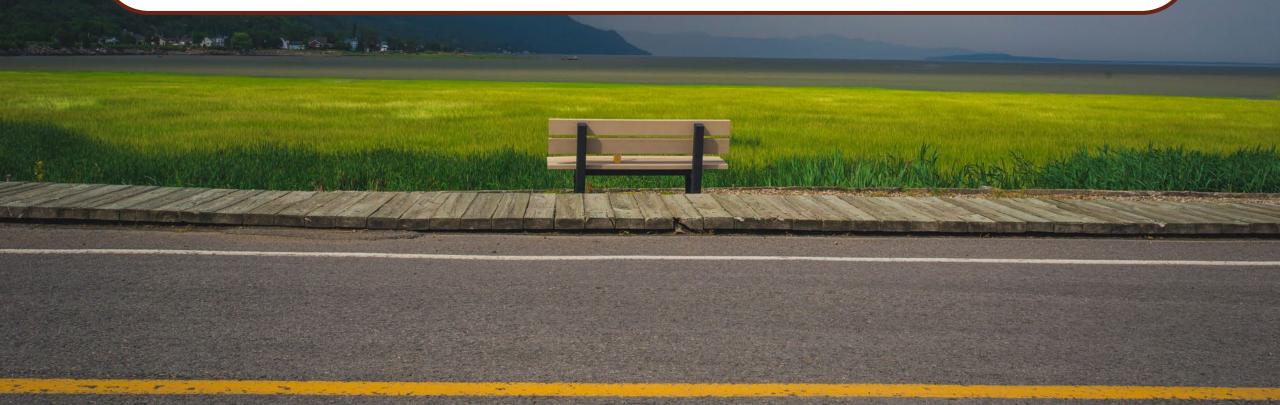
PINK (DAB): 65% OF LISTENING

BLUE (DAB): 29% OF LISTENING

YELLOW (FM): 6% OF LISTENING







https://onboarding.connectedrad.io

Provide Xperi with:

- 1. Static data: Station call letters, logo, name, slogan, etc.
- 2. Streaming URL: When your over-the-air signal fades, the listener transitions to your stream.
- 3. Live data from the station's programming system: Title and artist of songs, name of advertisers from ads running, DJ name/photo



