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Building a great in-car digital radio UX







digitalradio 🔽







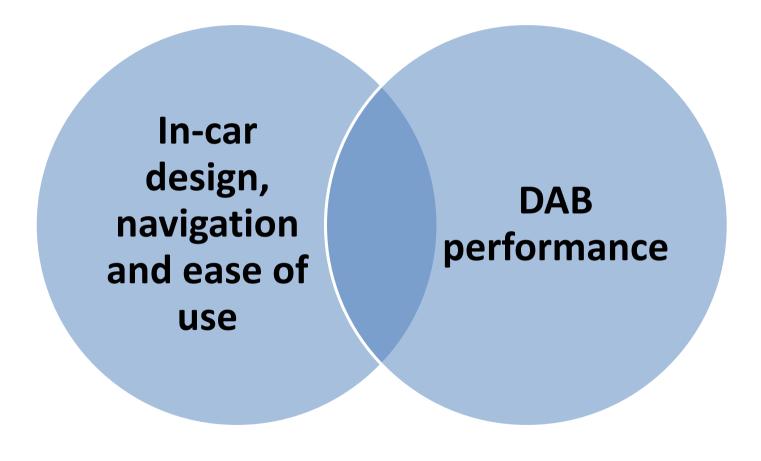








In-car DAB digital radio user experience

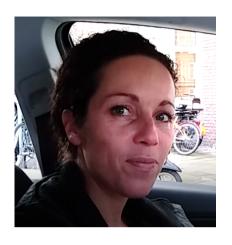










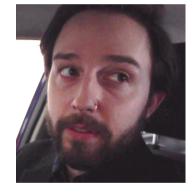




























UX Design Guidelines

They are for broadcasters & car manufacturers

Description, best UX cases, links to tech specs

Builds on use cases identified in UX research

In-car user experience research

Objective

Inform digital radio UX design and guidelines

Markets



Consumers

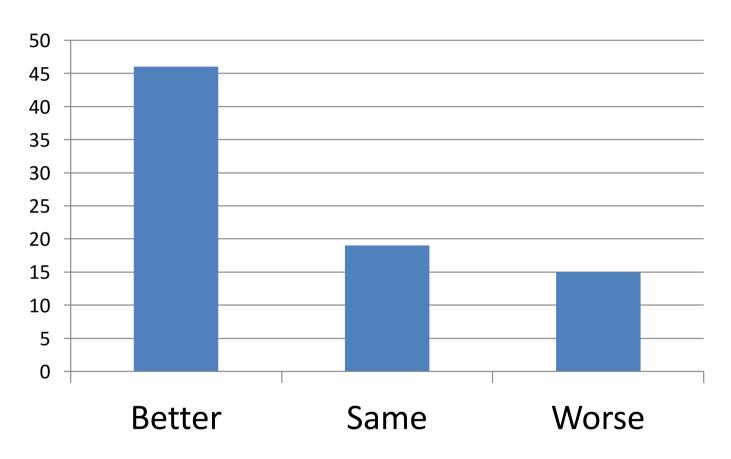
- 40 people / 16 male / 24 female
- Mix of ownership of cars with DAB / DAB at home

Cars

- 8 different brands and models
- Always one volume-seller and one high-end

Overall the DAB UX is better than FM

How does it compare to using FM Radio?







Headlines

- 1. A RADIO button is essential
- 2. An A-Z station list is the best search UX
- 3. Pre-sets should be easy to set/explained
- 4. Terminology must be easier to understand
- 5. People want data, but only if they understand what it is
- 6. Drivers expect a great, simple UX

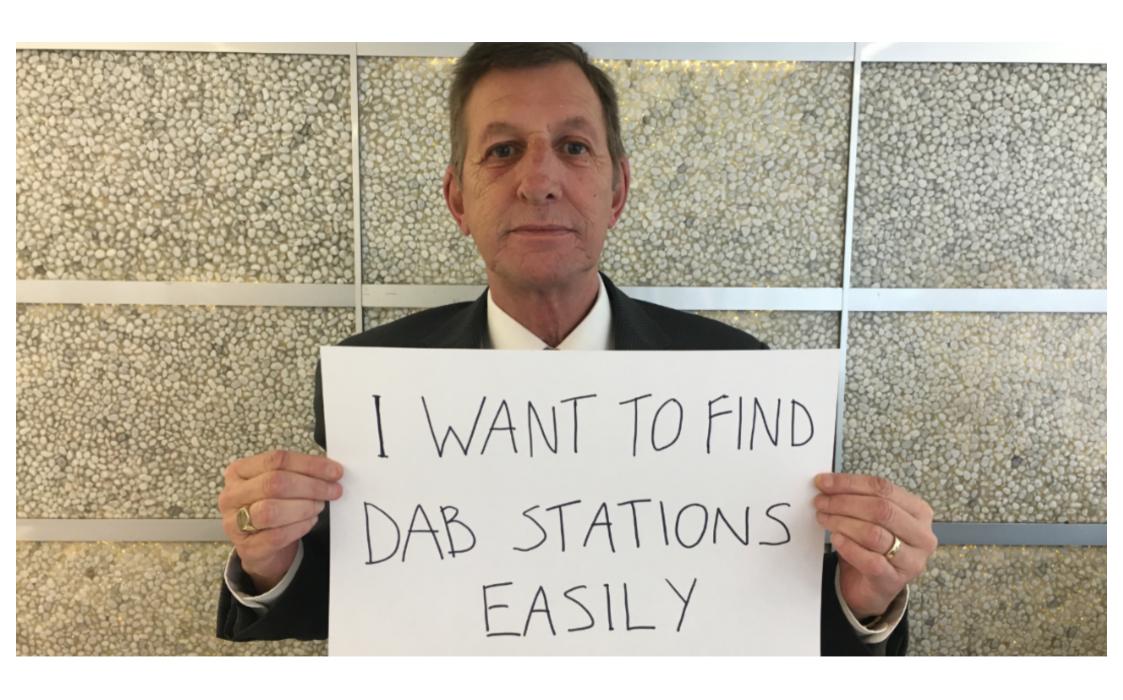






WorldDAB Automotive – DAB Digital Radio In Car User Experience Design Guidelines

V1.6 WorldDAB AUXG



I want to find DAB stations easily

Description:

- Consumers want to easily and quickly tune to the DAB station they want to listen to
- WorldDAB user experience research has shown that an A-Z station list of available DAB stations provides the best experience for tuning to stations.
- Searching by multiplex can be difficult, confusing, and in some cases impossible



I want to find DAB stations easily

Design guidelines:

Best case – A-Z unified station list:

- Present an integrated A-Z list of all available broadcast stations (FM, DAB)
 Next best case A-Z DAB station list
- Present an A-Z list of all available DAB broadcast stations

Hardware requirements:

Delivering a dynamic, accurate A-Z station list requires dual DAB tuners



A-Z station list - Visual design guidelines

Optional: Pre-sets accessed from A-Z station list

A-Z station list of available stations.
Dynamic updates made upon starting the car and then as new stations become available and existing stations are lost



Assumes
touch-screen
scrolling is
available.
Physical
scrolling
wheel/button
also available
for search

Assume that "Back" button is available on the dashboard, steering wheel or central stack. If not then required on-screen.

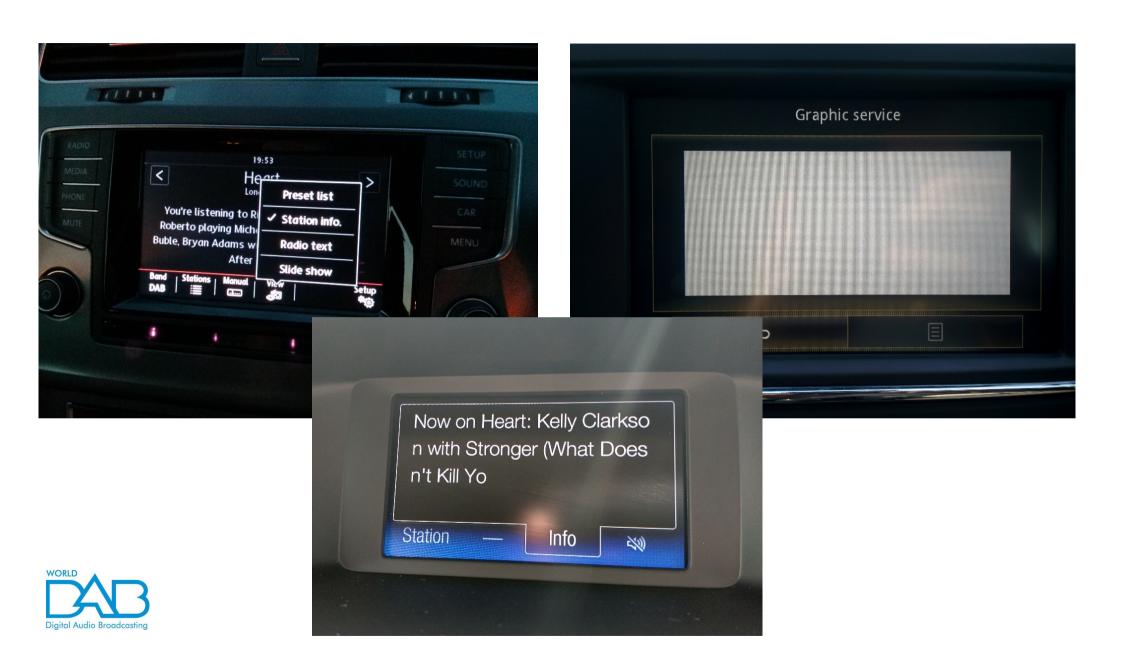


"I want to know what I'm listening to"

Description:

- Listeners want to know they're listening to
- Broadcasters are providing this information both as text and as images
- That information is sometimes badly presented or very hard to find, which is frustrating for listeners and broadcasters





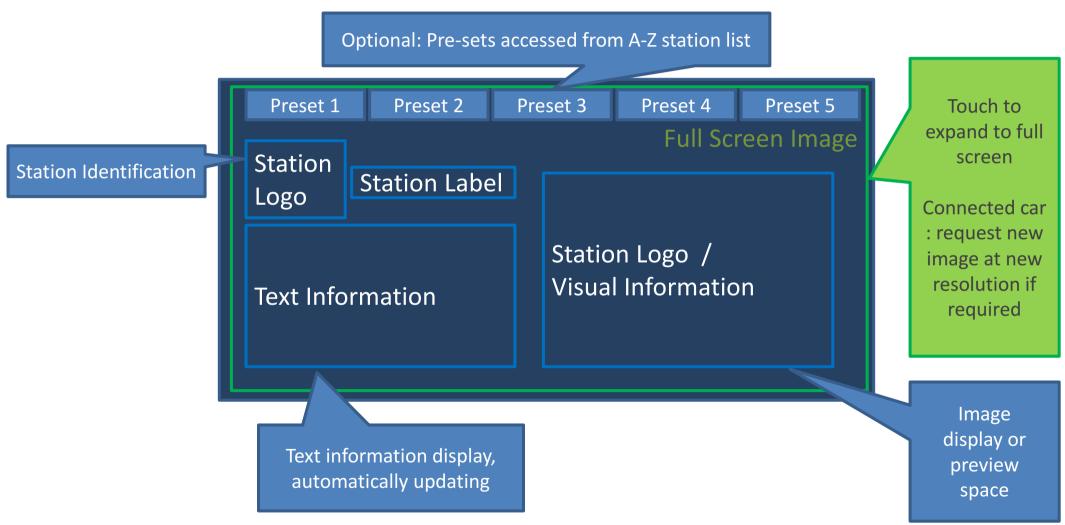
"I want to know what I'm listening to"

Guidelines:

- Single-line text display provide a button which shows the latest text message, scrolling if necessary to fit onto the screen
- Multi-line text display always show the latest text message without the driver having to press any buttons
- Colour screen display always show the latest text message. Show the station logo until the first visual is received, then show it automatically.
- Connected car Request images at native screen resolution, for best quality



Station Info - Visual design guidelines



Use cases – I want.....

- 1. to find DAB radio easily in the car media system
- 2. to find DAB stations easily
- 3. the list of stations to be up to date
- 4. to be able to easily set a station as a pre-set
- 5. my radio to find the best signal for the station
- 6. to know what I'm listening to station info, text and pictures
- 7. to understand all labels, terms, icons in the radio
- 8. my DAB radio to be set up for me



WorldDAB AUXG WorldDAB AUXG WorldDAB AUXG

Next steps

- 1. By end Nov 2017 Finalise Draft 1 Guidelines
- 2. By end of 2017 Finalise Guidelines
- 3. Q1 2018 Communicate Guidelines to industry
- 4. Q1 2018 Start work on terminology and Phase 2





