Why Broadcasters In The Netherlands Have Adopted DAB+

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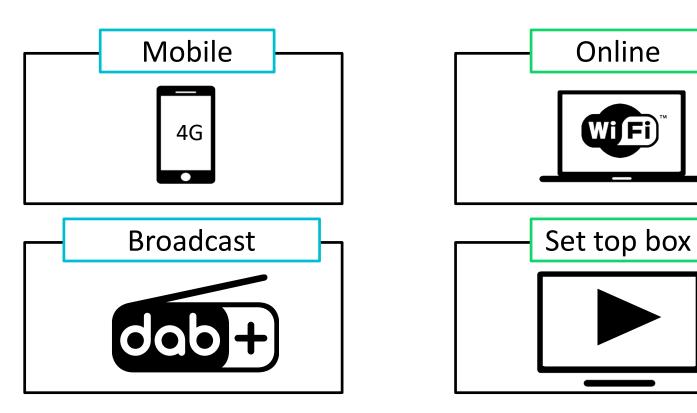
Radio Listening



- 87,4% of the population listen to the radio during the week
- 13 m people
- Nearly two hours and three quarters



Radio Distribution Shifts To Digital





Radio Listening Increasingly Digital



48% other



Digital Hybrid Is Now & Future Of Radio

















connected DAB+ & IP



Media Consumption Is Changing

- Traditional media revenues are under pressure promotion of radio is essential - in all forms
- Dutch radio stations are there for all devices on all platforms
- Digital radio can stimulate new commercial radio revenue



Benefits of Digitization

Listeners

- Digital sound
- Greater choice
- Coverage
- New data services
- Easy to use

Broadcasters

- Innovation
- Brand extensions
- Coverage
- Cost efficiencies
 - FM = full & expensive
 - https://tech.ebu.ch/publication
 s/tr 2017 radio

Society

- Greener distribution
- Free to air / universal
- Open standard
- Emergency alerts
- No gatekeepers



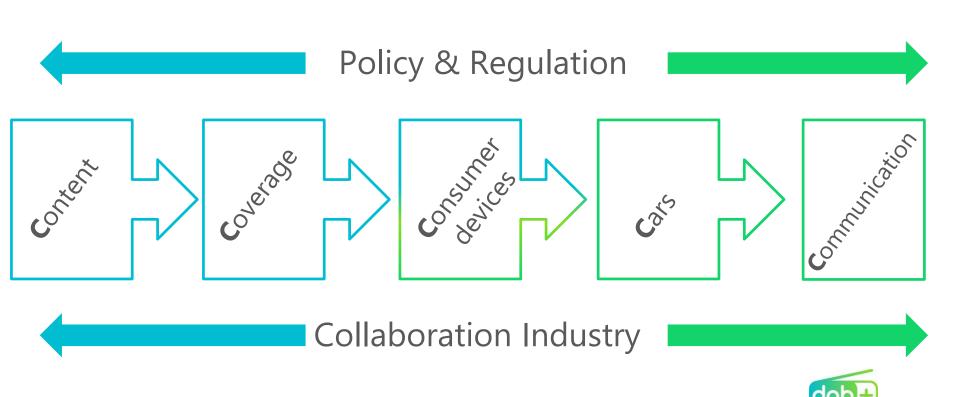
All radio stations in NL push DAB+ as broadcasting backbone



The successor of FM



Collaboration Key To Success



Government: The Public Interest Of Radio

- Radio is an important medium for distributing and receiving news, opinion, music and entertainment
- It is free-to-air that is to say: you can listen to it as much as you want without any additional costs
- In the event of emergencies, radio remains an indispensable source of information. Broadcast radio is robust
- Radio is a public interest



Government: Digitization Policy 2011-2017

- The (mobile) listener's needs are central (availability, affordability and reliability)
- Promoting the transition to digital radio
- Effective frequency use
- The analogue FM permits of the national and regional licensees (public and commercial) will be extended until 2017, on the condition that they will invest in digital radio. No auction or a comparative test (as in 2003)
- A link is made between analogue and digital
- The national broadcasters (public and commercial) will start using digital radio by 1 September 2013 (40% geographical coverage, 2015 80% geographical coverage)
- The regional broadcasters (public and commercial as well as medium wave) will start using digital radio by 1 September 2015 at the latest



Broadcaster: Incentive To Invest In Digital

- Secure distribution FM: Permit FM and DAB + until September 2017, with possible extension to 2023
- Capacity on DAB + at least 2 channels 144 K/b
- No restrictions on the use of the digital spectrum or in formats
- First option to become owner of Multiplex
- Shared multiplex costs
- No new competition during construction years DAB+



Digital Radio: National

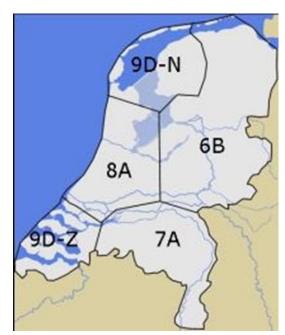
- In 2011, the permits for national digital radio were granted; Duration until 1 September 2017
- A nationwide covering layer (Single Frequency Network) for the nine commercial radio stations, frequency block: 11C
- Simulcast commitment: recognisability
- In addition, every station an extra channel, free interpretation; Total: 18 commercial radio stations on DAB +
- The NPO also has a nationwide opaque layer, frequency block: 12C





Digital Radio: Regional

- Consists of five (top) regional allotments. Max. 18 stations per multiplex
- Digital licenses for:
 - regional public broadcasters (RPO)
 - non-rural commercial (NLCR)
 - medium wave (AM)
- In every allotment, the parties work together in the multiplex. Mixed composition of different parties
- MTV-NL: own nationwide network with a regional division



launch 2015



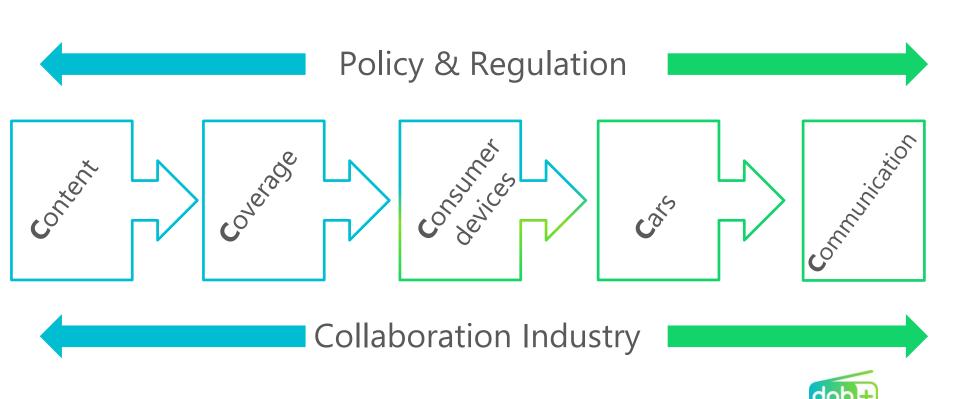
Government:

The Ministry of Economic Affairs:

- 1/1/2016: Ownership restrictions relaxed
- 1/9/2017: FM-licenses private broadcasters extended til 1/9/2023
- 31/8/2017: Digital Radio licenses ended and issued under different conditions; no obligation anymore to broadcast 2 stations



Collaboration Key To Success



Netherlands: Quickest Launch In Europe



Digital Radio NL







Ministerie van Economische Zaken

bimonthly Steering Board on future of radio (national & international)

consumer electronics











Program Variety DAB+: > 65 Radio Stations











DAB+ Networks

NPO

- Network built by KPN Broadcast
- 4 on FM -> 14 on DAB+
- Population mobile: 99%
- Population indoor: 87%



VCR

- Network built by Broadcast Partners
- 9 on FM -> 16 on DAB+
- Population mobile: 99%
- Population idoor: > 75%

RPO & NLCR + other

- Network built by Broadcast Partners
- 6B; 7A;9D-N;9D-Z geographic mobile:
 100%
- 8A: geographic mobile: 69%



- Network built by Broadcast Partners
- Population mobile: 95%





DAB+ Receivers

KITCHEN, LIVING ROOM & BEDROOM

PORTABLE VARIETY OF SITUATIONS

DAB+ STANDARD IN CARS



- Stand alone or HiFi connected
- Easy to operate
- Good sound and external connections to HiFi
- Good DLS display

Options

- More volume
- Colour screen
- Docking
- Smartphone control app





- Work
- Relaxing
- Exercising





 All the major manufacturers offer DAB as an option or standard in new cars



DAB+ = Successor Of FM

100% Commitment

Government

Broadcasters

YEARLY PLAN

2013/2014, 2015, 2016, 2017, 2018; Perspective 2023



Key Performance Indicators

Name awarenss

KNOWLEDGE

Primary:

- Familiarity with digital radio & DAB +
- Familiarity with advantages DAB + compared to FM

Secondary:

· it is known that DAB + is the successor of FM

TUDE

Buying intention

They are positive about digital radio / DAB+ and they intend to listen via a digital / DAB + receiver

Digital / analogue listening

WIOR

<u>Primary</u>: in 2023 > 70 % listens digitally - any digital formand < 30 % via analogue ether FM

<u>Secondary</u>: Percentage of new devices that can receive digital radio (automotive / (r)etail)

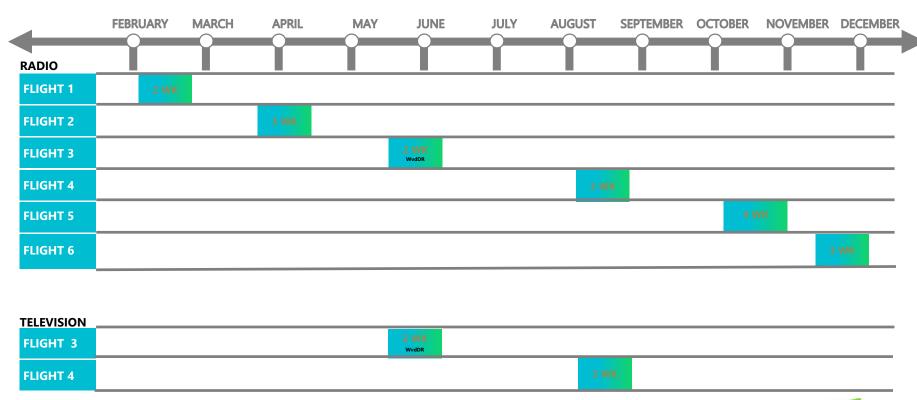
GOAL: to create growth (various stakeholders) on DAB+:

- knowledge
- attitude
- behaviour

by means of a large public campaign for DAB+



DAB+ Campaign 2018









New logos: start 1/6/2018

























Digital Radio NL online

Website



Social Media > Facebook & Twitter







Other examples - Digital Radio Week 2018

Website Qmusic – DAB+ give away

WEEK VAN DE DIGITALE RADIO

Van maandag 11 tot en met vrijdag 15 juni 2018 is het de Week van de Digitale Radio. Voor meer informatie over DAB+ en de Week van de Digitale Radio, check <u>digitalradio.nl</u>.



SONY Newsletter





Other examples - Retail

DAB+ sales unit for retail



Usage DAB+ logo & slogan in retail







Facts & Figures

Source: GfK Panel Market Sales Units | January 2018 (period: 2013-2016 + JATO Dynamics / WorldDAB March 2018)

37%

New sold cars with DAB+ as standard

2016:26%; 2015: 16%; 2014: 6%

41%

New cars with DAB+ as option 2016: 44%; 2015: 46%; **72%**

Name awareness DAB+ / Digital Radio +12% compared to June 2017

Source: NPO MAP January 2018

28%

Purchase intent DAB+ radio

Source: JATO DYNAMICS / WorldDAB March 2018

Source: NPO MAP January 2018

The Netherlands 'BEST IN CLASS' in Europe

(compared in the 1st 4 years after launch DAB+ Digital Radio)



DAB+ Reaches Mass Market



13%

>2 m people



2023 Digital Radio >70%

AMBITION DRNL:

THAT EVERY RADIO SOLD CAN RECEIVE DIGITAL



DAB+ = successor of FM

- More channels
- Digital sound quality
- Easy to use

Free to air

- No gatekeeperNo subscription/login

& More

You Are Invited To Participate More Info

WorldDAB project office projectoffice@worlddab.org



Enclosure



Costs comparison: FM, DAB+, Internet

EBU: https://tech.ebu.ch/publications/tr 2017 radio; Conclusions:

Radio transmission:

- 1. DAB is much cheaper option than FM; it allows cost sharing due to the MUX architecture
- 2. DAB cost saving is significant and it would allow the creation of new content and employment
- 3. Internet delivery only is not competitive with the current pricing level
- 4. Internet delivery expense is much higher than its current percentage market share

Radio listening:

- Internet is now part of everybody's life but mobile broadband is too expensive for media consumption
- 2. Internet-only delivery would prevent many families from access in information and entertainment due to a prohibitive access cost
- 3. The current expense for internet radio listening is much higher than its current percentage market share

A DAB backbone with low data hybrid services on top is the way forward No radio receivers in handheld devices poses a serious threat to public information

