

WorldDAB leadership election 2019 Candidate for the role of President



Patrick Hannon, Vice President - Corporate Development, Frontier Smart Technologies

Patrick is VP Corporate Development at Frontier Smart Technologies. Frontier is a leading supplier of chips, modules and software for digital radio. Patrick's remit encompasses strategy, communications and encouraging the successful roll-out of digital radio around the world.

Patrick has been President of WorldDAB since November 2013.

During this period, DAB digital radio has made significant progress across Europe – with growing signs of interest in the rest of the world. At the same time, WorldDAB's membership has grown from 78 members in 2012 to over 100 today.

In his role as President, Patrick has played an active role in shaping WorldDAB's strategy and ensuring that the organisation is fully focused on its core objectives. He has spoken at events in over 20 countries; and has worked with DAB advocates to ensure the successful launch and development of new DAB markets. He works very closely with the Project Office, ensuring that priorities are clearly understood, and resources are allocated appropriately.

In the last two years, Patrick has placed a major focus on engagement with the European Union (the Commission, Parliament and representatives from Member States) and, working in partnership with multiple stakeholders, successfully secured the inclusion of digital terrestrial radio within the European Electronic Communications Code. During the same period, several new markets announced the launch of national DAB+ services, including France, Belgium, Austria, Sweden and Tunisia.

As President, Patrick chairs the WorldDAB Steering Board. Key priorities for the next two years will be to:

- Help established markets to make good progress in the development of DAB
- Support local champions in their efforts to get new markets to launch DAB
- Work with national stakeholders to ensure the implementation of the EEC in all EU markets
- Ensure members receive value for money from their involvement in WorldDAB

Patrick's background is in broadcast media and strategy. Before joining Frontier, he was a strategy consultant serving the broadcast and new media sectors. Previously, he held senior commercial and strategy roles at the BBC and BBC Worldwide. Patrick has a degree in Economics and Management Studies from Cambridge University and has an MBA (Distinction) from Cass Business School.

WorldDAB leadership election 2019
Candidate for Vice President



Jacqueline Bierhorst
Project Director Digital Radio Netherlands

Consultant Flemish Government, Department of Culture, Youth and Media

Vice-President and Member Steering Board WorldDAB

Owner Jacky B Entertainment Solutions

Jacqueline Bierhorst has been a pioneer in commercial radio since 1987, specialized in distribution, marketing and content. She has a strong track record in launching and leading successful commercial television and radio channels in The Netherlands and Belgium.

From 2011 till 2015 she was project leader on the roll-out of the DAB+ network in The Netherlands for all commercial broadcasters, launched on September 1st, 2013. Since 2015 she is project director Digital Radio NL, a collaboration between public and commercial broadcasters and the Ministry of Economic Affairs coordinating involvement of all stakeholders and joint marketing of Digital Radio in The Netherlands.

Jacqueline is owner of Jacky B Entertainment Solutions, Vice President of WorldDAB, a member of the WorldDAB Steering Board and an active ambassador of digital radio throughout Europe. Jacqueline is also consultant of the Flemish Government, Department of Culture, Youth and Media on the introduction of DAB+ in Flanders, initiating collaboration throughout the Flemish stakeholders on digital radio.

WorldDAB leadership election 2019 Candidate for Vice President



Joan Warner
CEO
Commercial Radio Australia

Joan Warner, CEO, Commercial Radio Australia (CRA) represents Australian commercial radio broadcasters across metropolitan & regional Australia. Joan led the successful lobbying efforts to obtain no cost spectrum for the rollout of DAB+ across Australia and negotiated policy settings for commercial broadcasters with the Government. CRA, under Joan's leadership, then coordinated the

planning and rollout of DAB+ in major Australian cities and continues to coordinate rollout across regional population centres. CRA also manages awareness and marketing campaigns for DAB+ across commercial radio.

In addition to DAB+ responsibilities, CRA oversees negotiation, development & implementation of metropolitan and regional radio audience measurement & consumer insights research, the industry's co-regulatory Codes of Practice, industry brand campaign, industry's RadioApp, the development of the industry Automated Holdings system, development of an industry podcast ranker, negotiation of copyright agreements, lobbying on regulatory & legislative issues, and, implementation of the annual national radio conference, Siren Creative Awards and Australian Commercial Radio Awards.

Ms Warner has worked at senior executive levels in the private & public sectors, for NGOs and for Australian Federal and State Government ministers.

WorldDAB leadership election 2019 Candidate for Treasurer



Ron Schiffelers
Senior Director Program Management
NXP Semiconductors

Ron Schiffelers is leading the infotainment development program for NXP's automotive business. He has been working on car radio products for more than 10 years and he has a total experience of over 20 years in the semiconductors and embedded software industry. In his role, Ron drives the development of both the IC's and the accompanying embedded software for audio processing, analogue and digital car radio and audio amplifiers from product definition to design-in at the automotive Tier-1 and OEM companies.

Besides this, he is active in the development of the digital radio market through these customer contacts, cooperation with partner companies and consortia for digital radio. The digitisation of radio for the automotive industry is a key trend that NXP Semiconductors is actively driving forward.

Ron has been a member of the WorldDAB Steering Board for the past 6 years, executing the role of Treasurer the past two years. His main focus is the automotive perspective for the global roll-out of DAB/DAB+ as well as the semiconductor view on how those key elements can be optimised for better and more cost-effective digital radio receivers. Ron is looking forward to continuing his contributions to WorldDAB as Treasurer and as a member of its Steering Board.

About NXP Semiconductors

NXP Semiconductors N.V. enables secure connections for a smarter world, advancing solutions that make lives easier, better, and safer. As the world leader in secure connectivity solutions for embedded applications, NXP is driving innovation in the automotive, industrial & IoT, mobile, and communication infrastructure markets. Built on more than 60 years of combined experience and expertise, the company has approximately 30,000 employees in more than 30 countries and posted revenue of \$9.41 billion in 2018.

Find out more at nxp.com.

WorldDAB leadership election 2019
Candidate for member of the WorldDAB Steering Board



Joe D'Angelo
Senior Vice President, Broadcast Radio
XPERI, Inc.

Joe D'Angelo, SVP Broadcast Radio, is responsible for global broadcast radio business and product development. Joe has close to 20 years' experience in developing and commercializing broadcast radio technology and manages a business unit that supports over 6,000 broadcast radio stations with transmission/studio systems as well as apps. While his career in radio began with the HD Radio system in North America as one of the founders of iBiquity Digital, it has expanded in the last five years to focus on both DAB+ and hybrid radio systems. He has been

instrumental in expanding Xperi's broadcast business around the world and is a strong supporter of DAB+ and the opportunities hybrid radio can deliver. In addition, he currently oversees the All in Media (AIM) business unit which is the developer of RAPID, a world class DAB+ metadata management platform, used by many of the leading DAB+ broadcasters in Europe and Australia. As part of Xperi, Joe has been instrumental in driving automotive adoption of digital and hybrid radio technologies and is focused on maintaining broadcast radio's dominance in the dashboard.

Under Joe's tenure, Xperi's broadcast clients have grown to include leading public service and commercial broadcasters around the world such as the BBC, Global Radio, Bauer Media Group, Southern Cross Austereo, NOVA Entertainment, ABC, NRK, Les Indés Radio, DAB Italia, iHeart Media Group, Entercom, Cumulus Media, Beasley Media and National Public Radio.

Joe is currently a member of the RadioDNS Steering Board and the RDS Forum and sits on the Advisory Committee for Music is My First Language, a non-profit bringing music education to underprivileged children.

Given the chance to serve, Joe, is looking forward to bringing his experience and passion for broadcast radio to the WorldDAB Steering Board.

XPERI INC.

XPERI, Inc., a member of WorldDAB, is a global technology firm with over 800 employees across 20+ countries. The company is committed to providing extraordinary experiences through their broad portfolio of technologies in automotive, home and mobile with a unique focus on global broadcast radio and automotive. In addition to the 6,000 radio stations they support, Xperi have integrated their technology in over 67 million vehicles and currently have active programs with all 42 major i

WorldDAB leadership election 2019 **Candidate for member of the WorldDAB Steering Board**



Francis Goffin
Special adviser to the
CEO RTBF
Managing director
maRadio.be SCRL

Francis has been passionate about radio for almost 40 years.

He used to run various different radio stations (pirate, local, regional, press, commercial and public) with a lot of success.

His previous position was

Director General of radio at RTBF for 15 years (2003-2018), where he successfully revamped the radio offer, being able to increase the RTBF's radio market share from 28 to 37% within 10 years.

Last year he started a new step in his professional life, becoming an independent consultant, notably for RTBF and Radio France.

With his engineering background he has always been interested in technology.

Since 2011 he has dedicated a lot of energy in gathering the Belgian French speaking radio industry in an ambitious project in favour of the digital future of radio which he sees hybrid with DAB+ (as the backbone of the radio distribution) and IP.

In this context he is Managing Director of maRadio.be SCRL, created under his leadership by the RTBF and the main private radio stations in 2013, in order to run Radioplayer.be (since 2014) and to run the promotion of the DAB+ in Brussels and Wallonia (since 2018).

Thanks to Francis the DAB+ is now a reality in French speaking Belgium since last year and, with the first big marketing campaign on air during this first week of November.

At the international level he has been elected four times as member of the WorldDAB steering board (since 2011). He is also member of the Radioplayer Worldwide Strategy and Technology Group (since 2015) and member of the European Digital Radio Alliance steering board.

He was also four times elected member of the EBU Radio Committee (2011-2019) as well as member of the board of the MFP, the French speaking public radio and media association (from Belgium, France, Switzerland and Canada) for 13 years (2005-2018).

RTBF

RTBF is the radio leader in French speaking Belgium, with now 7 radio stations (three of them being digital only DAB+/IP).

RTBF is also the DAB+ network operator for its own radio stations and for the commercial networks, operating two layers made of four regional multiplexes in Brussels and Wallonia.

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Candidate for member of the WorldDAB Steering Board



Andreas Goršak
Senior Engineer
JVCKENWOOD Deutschland GmbH

Andreas oversees broadcast development for Europe in the Automotive and After-market product domains, runs routine test programmes on JVC and Kenwood products and serves as representative of JVCKENWOOD at World DAB, TISA, DRM Consortium and RDS Forum. Andreas is the Vice-Chair of the WorldDAB Technical Committee.

Manifesto

Digital Radio is the independent media platform that transports radio into the social media world. While Broadcasting is under competition from connected services in

various forms, it is my conviction that radio has its place to deliver curated content to large audiences.

World DAB and the DAB system define the technical basis for modern multimedia broadcast system. Features such as Text, Slideshow, Announcements, Service Linking and Service Lists go much beyond of what radio has historically been capable of. As a Steering Board member I want to foster the transformation of linear radio into a modern multimedia platform that caters to the needs and desires of large audiences.

Radio has always been the 'one-button-music' device; as such it has no competition.

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Laurence Harrison **Director of Automotive** **Partnerships** **Radioplayer**

Laurence leads Radioplayer's work with the automotive industry across Europe and internationally, building partnerships with the leading car manufacturers and multimedia technology suppliers around metadata, HMI design and smart radio development in connected

and autonomous cars. He is a current member of the WorldDAB Steering Board and Chairman of the WorldDAB Automotive Working Group. With WorldDAB, he led the research and development of the WorldDAB in-car UX guidelines and the subsequent engagement with major car manufacturers.

He previously worked for Digital Radio UK where he led the partnerships with car manufacturers that saw digital radio included as standard in all new cars. At DRUK Laurence also managed the Digital Radio Tick Mark scheme that ensures a testing and approval process for digital radios and promotion of the Digital Tick to consumers. He has also worked for techUK representing digital radio manufacturers such as Roberts, Pure and Sony, and sat on the board of Digital UK, the organisation that managed the UK's digital TV switchover.

Radioplayer

Radioplayer is the official, broadcaster-backed, non-profit organisation that is helping to make radio a great experience in cars and other devices. Radioplayer is a proud member of WorldDAB and RadioDNS and is growing across Europe and internationally.

WorldDAB leadership election 2019 **Candidate for member of the WorldDAB Steering Board**



Jérôme Hirigoyen
Head of radio business development and international broadcasting, TDF
CEO of Rmux, multiplex operator

Jérôme Hirigoyen works for TDF, the main transmission network operator in France. After graduating in electronics he and worked 27 years in several audiovisual departments at TDF (research, marketing/sales/business, operations). Since 2007, he has headed the digital radio project at TDF.

Since 2007 Jerome has been dealing with the French public radio broadcaster, radio

syndicates, the regulation authority, and manufacturers to promote DAB.

In 2013 Jérôme was nominated as the CEO of Rmux, a new subsidiary of TDF founded to support radio broadcasters to start digital radio as a multiplex company. Today Rmux is the multiplex operator of 8 DAB+ multiplexes. Since 2014 Jérôme's teams have supported the French DAB roll out in France and designed and launched 12 new DAB+ multiplexes.

Jérôme has been an active member of WorldDAB for many years, he has been a Steering Board member since 2017, and is an expert on the WorldDAB Spectrum and Network Implementation Committee (SNIC). As the representative of TDF in WorldDAB he has brought information and analysis on developments in France to the WorldDAB Steering Board and has supported international DAB developments in particular for North Africa (Algeria, Morocco and others).

TDF

Operator of shared facilities and terrestrial networks in Europe, TDF Group assists its clients – television and radio broadcasters, telecommunications operators, from upstream (with complete filming, broadcasting, content management and delivery solutions) to downstream, with distribution, roll-out, operations and maintenance of broadcasting networks in TDF sites.

TDF, the leader in analogue and digital radio transmissions in France, was involved from the very beginning in digital radio with the Eureka 147 project. Many studies, trials and experiments have been conducted over the past 22 years.

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Jørn Jensen
Senior Advisor to Director of Distribution
NRK, Norway

Jørn Jensen was President of WorldDAB for four years from 2009-2013. Jørn has more than 30 years of experience in radio broadcasting. He has been working at Norway's public broadcaster NRK from 1986, after a 10 years career as a musician. After starting by making radio programmes at NRK's Radio Music department he became increasingly involved in programme production and development, and the creation of new digital stations. In 1995 he created NRK's first DAB-only station, with 24 hour classical music. Since then, Jørn has been a Senior Advisor for different NRK departments and is currently Senior Advisor for the Director of Distribution, dealing with the strategy for NRK's digital future on all NRK platforms. The

main focus in 2017 was FM shut-off, completed in December 2017.

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Jean-Michel Kandin
Deputy General Manager for Technologies and New Technologies
Radio France

Deputy General Manager for Technologies and New Technologies at Radio France since 2008, Jean-Michel Kandin is now managing the broadcasting activities and the strategic projects of Radio France.

Graduate of Paris X University and of CPA Executive MBA HEC, he began in 1983 as Co-founder of Radio Nostalgie, a national radio network

in France. Deputy General Secretary of NRJ Group in 1989, he joined Lagardere Active in 1997 as CTO and Deputy Director for Institutional Relations, in charge of 3 national radio networks and 14 TV channels.

He was also responsible for the launch of digital terrestrial television in France, as President of one of the 5 multiplex companies.

Jean-Michel Kandin is President of OpeNMux, one of the two national DAB+ multiplex that will be launched in France in 2020, with 6 programs edited by Radio France (France Inter, France Info, France Culture, France Musique, Mouv', FIP), 3 programs by Lagardère Active (Europe 1, Virgin radio, RFM) and 3 programs by NextradioTv (RMC, BFM Business, BFM radio).

He is also managing the future deployment of the 44 regional stations France Bleu on DAB+ in 44 multiplex covering the French territory.

RADIO FRANCE

Leading French radio group with more than 15 million listeners each day, Radio France carries with its 6 national and 44 local stations the values of a major public service media. Producing a reference radio offer and promoting access for all to information, culture and music are the foundations of its mission as a committed player in the democratic space, connected to its audiences.

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James Kessel
Chief Product Officer
Media Broadcast

James Kessel works for Media Broadcast (MB), Germany's largest Broadcasting and Media Services Provider. As Chief Product Officer James' role is defining and securing the strategic positioning and P&L of MB's products and services.

As such he is responsible for MB's DAB+ activities which include the 1st national DAB+ Multiplex that covers 98% of population as well as multiple local and regional multiplexes. MB is also a Partner in Antenne Deutschland, which has been awarded the platform license to rollout the 2nd national DAB+

Multiplex in Germany.

James studied computer science and electrical engineering and holds an MBA. Before Media Broadcast, James worked as a Strategy Consultant for Roland Berger and Oliver Wyman with a focus on Telecoms, Media and IT.

James Kessel is currently a member of the steering board for "Digitalradio Deutschland" a cross-industry organisation for promoting and supporting DAB+ in Germany, as well as holding positions on the boards of three regional DAB+ companies (Bayern Digitalradio, Hessen Digitalradio and Digitalradio Südwest).

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Martin Koch
Head of Development Entertainment / Infotainment
Car Functions
AUDI AG

Martin Koch works for AUDI AG one of the world's leading producers of premium cars. He oversees the development of the entertainment functions within Audi's infotainment systems and leads a team of 35 engineers. Together with his team, he develops digital radio, hybrid and online radio, music streaming and video solutions for future generations of premium infotainment head-units.

Martin's team looks back on a proven track record in digital radio. They developed one of the first automotive DAB receivers back in 2005. Thenceforth his team was

continuously leading the automotive sector with first to market integrations of DAB-FM seamless linking, DAB slide show and hybrid radio.

Prior to his current position, Martin was responsible for the infotainment comfort and parking functions at Audi, and has also worked for aerospace company AIRBUS in various development and project management positions.

AUDI AG

Audi stands for sporty vehicles, high build quality and progressive design – for “Vorsprung durch Technik.” The company's innovation capability is one reason behind its success.

AUDI AG is active in more than 100 markets worldwide and is growing continuously. They delivered around 1.812.500 new Audi brand cars to customers during 2018. The company currently employs 90,000 people worldwide, of which over 60,000 are employed at the German sites in Ingolstadt and Neckarsulm.

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Eugenio La Teana

Head of Research and Development

- **RTL 102.5 Hit Radio**

Chief Operating Officer - **EuroDAB Italia**

Adviser – **Player Editori Radio PER**

Eugenio's experience in Information Technology enables him the opportunity to see the medium from a different point of view.

From the beginning of his experience in radio, he has been dedicated to innovation. Eugenio was involved in the deconstruction of

the traditional way of listening to radio, by being an active part of the creation of a unique project in the world, the radiovisione. The radiovisione RTL 102.5 is recognised worldwide as the perfect way to transport the medium of radio on TV, without spoiling its essence. It also develops forms of interaction involving the audience in real time, the so-called 'social radio' and is an expert in data services related to the radio broadcast (TMC, TPEG). He is a member of the taskforce Italian "digitalradio.it" which deals with the promotion of digital radio in Italy. He is involved in the development of hybrid radio; he believes it is a fundamental step to make radio appeal in the near future.

He has spoken at tens of international conferences, where he shared his own experience and his own vision on what was to become the radio into the next era.

RTL 102.5 Hit Radio

RTL 102.5 has been the number one radio station in Italy for more than a decade and now has 8 million listeners a day; is the radio that has set its success with multimedia, multi-platform and interactivity. It is the official radio of the main national and international events.

EuroDAB Italia

EuroDAB Italia is the network operator authorized by the Ministry responsible for broadcasting radio signals in DAB-T (Digital Audio Broadcasting) technology. EuroDAB Italia has been operating since 2001, the date of release of the first experimental authorizations for the development of digital radio in Italy.

Player Editori Radio

PER is a partnership between national and local radio publishers, an alliance that offers users a contemporary listening experience. PER is simple, direct and innovative access to the entire digital offer of Italian broadcasters.

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Helwin Lesch
Head Distribution and Controlling
Bayerischer Rundfunk

Helwin Lesch is responsible for the distribution of all radio and TV programs of Bayerischer Rundfunk (BR) via satellite, cable, internet and terrestrial networks. BR owns terrestrial networks for FM, DVB-T2 and DAB+. Previous roles Helwin Lesch has held at BR include Head of Planning (2012-2015), and Head of Programme Distribution (2002-2012). Prior to that he was Managing Director of Bayern Digital Radio (1998-2002) and Managing Director of Bayerische Medien Technik (bmt) Ltd (1994-2002). He is currently also member of the board of the European Digital Radio Association

(EDRA), the WorldDAB Steering Board and special advisory councils for Bayerische Medien Technik (bmt) Ltd and for Bayern Digital Radio (BDR) Ltd. Helwin Lesch heads the Konferenz Programmverbreitung of ARD, ZDF, Deutschlandradio, the conference coordinating the distribution of public TV and radio programs in Germany.

Helwin Lesch has more than 25 years of expertise in DAB(+). In 1994, he was responsible for planning and operating the first pilot project and the first multiplexes for digital radio. Since 2002, when he started as Head of Department at the BR, he has been continuously pushing DAB(+). Bavaria is Germany's leader in digital radio: BR has achieved coverage of more than 98% of the population in Bavaria. At his commitment for digital radio, Helwin Lesch works closely together with both the entire public broadcasting system in Germany, ARD and Deutschlandradio, and his partners of the private broadcasting sector and the regulation Bayerische Landeszentrale für Neue Medien (BLM).

Bayerischer Rundfunk (BR) is a public broadcaster in Germany, running 10 radio stations, 5 in DAB+ only, 2 TV programs and is part of ARD. BR heads ARD in 2018 and 2019.

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Lindsey Mack
Senior Manager DAB & External Affairs BBC Sounds
BBC

Lindsey has worked on driving the take up of digital radio for nearly 20 years helping to establish digital radio at the BBC with the launch of digital only stations and also unique digital only pop up stations. It is widely recognised that DAB has been very successful in introducing new digital only services and whilst digital listening continues to grow it is apparent that the industry must work together to secure radio's future in a hybrid world. Lindsey continues to drive the BBC's cross platform strategy, managing the DAB national multiplex and raising awareness and take up of digital radio with initiatives involving as many key stakeholders as possible. Lindsey's role includes working closely with commercial radio and representing BBC Radio at a range of internal and external meetings and events (eg DRUK Board; EBU digital radio committee).

She will also be leading the Technology and Automotive Working Group for the UK Industry/Government Digital Radio Review and working with the industry on the first 5G trial.

Lindsey is a Trustee of 2 Charities:

The British Wireless for the Blind Fund providing specially adapted audio equipment to visually impaired people all across the UK and Wavelength providing radios and televisions to isolated and lonely people living in poverty.

BBC

The BBC is a public service broadcaster whose mission is "to act in the public interest, serving all audiences through the provision of impartial, high-quality and distinctive output and services which inform, educate and entertain".

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Mirek Ostrowski
Board Advisor for Digitization
BCAST

Board Advisor for Digital Radio
POLISH CHAMBER of DIGITAL
BROADCASTING

Technical Director
RADIO WROCLAW

Mirek has worked at Radio Wroclaw for 33 years, and from 1993 – 2000 was an active Board Member. He graduated with a degree in

Telecommunications from AGH University of Science and Technology in Kraków and followed this with a post graduate Degree in Marketing and Finance Management at the Warsaw School of Economics. In 2009, he launched the first DAB+ transmission in Poland and continues to be active in the implementation of DAB+ in Poland. He is an advisor to the Boards of BCAST and the Polish Chamber of Digital Broadcasting and a member of the Digitisation of Radio Broadcasting Task Group created by the National Broadcasting Council. He is fascinated with hybrid radio and the use of mobile platforms in radio broadcasting and works with organisations including WorldDAB, EBU, RadioDNS and International DMB Advancement Group.

Mirek Ostrowski took part in the process of creating minimum requirements for digital receivers for the Polish market as part of a working team formed by the Ministry of Digitization. He has organised several conferences popularizing DAB+ digital radio in Poland and has spoken at several international conferences about digital radio. He played an important role in starting and continuing the nationwide DAB+ project carried out by all public radio broadcasters in Poland.

BCAST

BCAST is an independent Polish telecommunications operator broadcasting radio and television programs throughout the country, both analogue and digital. The company offers services based on its own broadcasting infrastructure. The company is the technical operator of IV Local TV Multiplex. BCAST is very active in the process of digitisation of radio broadcasting in Poland creating its own solutions for DAB+ radio.

POLISH CHAMBER of DIGITAL BROADCASTING

Polish Chamber of Digital Broadcasting is the successor of Association of Satellite Branch Companies, an organization founded in 2002. Polish Chamber of Digital Broadcasting is an association of manufacturers, retailers, satellite and terrestrial operators working in the field of digital audio and video broadcasting and wireless data transmission.

RADIO WROCLAW SA

Radio Wrocław SA is a state-owned regional public radio broadcaster that broadcasts three round the clock programs. The station has been deeply involved for many years in digitization of radio broadcasting in Poland and still plays a leading role in that process.

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Nick Piggott
Project Director
RadioDNS
and Technology Consultant

Nick has championed the development of DAB Digital Radio since the mid-90s, first with technical trials, and then managing the teams that launched the UK's first commercial digital radio stations.

He worked on the rollout of local and regional digital radio multiplexes, building a multi-disciplinary team that was recognised globally of being at the fore-front of technical and programme innovation. Nick's and his team innovated with digital radio, music downloading, audience interaction and mobile applications. He was part of the UK industry group convened to create the

minimum-specifications for digital radio in home and automotive.

Nick proposed the idea of combining broadcast and IP technologies, and founded RadioDNS to create open technology standards for hybrid radio. He's led RadioDNS since its inception, into an organisation with members in the USA, Europe and Asia, across broadcasters and manufacturers.

Nick has been an active participant in the WorldDAB Steering Board, Technical Committee and Marketing Committees.

As well as Project Director of RadioDNS, Nick also encourages the continued growth of digital radio through the open source Open Digital Radio project, is working on the forthcoming rollout of "Small Scale" DAB multiplexes in UK, and is CTO-designate of a voice recognition start-up.

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Germana Remigi
Platforms and Distribution, Technical Expert
RAI – Radiotelevisione Italiana

Germana Remigi works for RAI, the Italian public broadcaster, owner of a DAB national network with a coverage which reaches over 55% of the population at the present moment, and which is planned to reach the 85% of the population within the next three years.

Germana's role includes managing the relationships with its internal customers (all RAI departments in charge of producing radio and television contents) acting as a project manager able to evaluate all aspects related to

the management of transmission services, in order to operate as a "link" between the news rooms and the technical sectors. In this perspective, during her career she has developed the ability to translate service requirements into feasible and economically sustainable technical specification.

She started her working life as an international Product Manager in Semikron in 2001, then as a power system engineer in *Page Europa* (a General Dynamics company) in 2002; then she joined Rai Way in 2007, the company of the RAI holding which is owner of the broadcasting and transmission networks and sites.

In her career she also acted as buyer for Rai Way's purchasing department from 2010 to 2013; then in the *Business Development, Market and RAI department* of Rai Way as Key Account of the Contract of Services between Rai and Rai Way.

Starting from 2018 she has been working in RAI in the department responsible for the introduction of innovative services and platforms oriented towards the evolution of traditional radio and television services.

Germana has worked closely with manufacturers, retailers and international broadcasting organisations in a first part of her career, and on innovative multimedia, television and radio projects in the second part of her career, to develop and grow the radio television ecosystem.

RAI

RAI Radiotelevisione italiana S.p.A. is the national public service media company of Italy. RAI broadcasts 13 TV channels and 10 radio channels (5 are native digital radio channels) and it is found on all digital platforms with a wide free offering of programmes, news and other channels, differing by genre and target. News are provided both nationwide and regionally. RAI is the audience leader in the Italian TV market, and its international presence is one of the most widespread in Europe, with 12 international bureaux all over the world.

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Thomas Saner
Senior Advisor
SRG SSR

Thomas is senior advisor strategy & innovation at SRG SSR the Swiss Public Broadcaster. In this role, he develops technology strategies for production and distribution and coordinates projects for Radio, TV and Online. Thomas is member of the steering board of the Swiss Digital Migration Project (DigiMig) and chairman of the technical group. As of summer 2019, the radio listening in Switzerland is 65% digital and the switchover in Switzerland is planned to take place until 2024 the latest. Negotiations are ongoing for an earlier date.

Until 2014 Thomas Saner was head of strategic distribution planning in the headquarters Technology and Information department. In this role, he defined the cornerstones and supervised the projects for the successful introduction of DAB and the subsequent successful migration from DAB to DAB+ in Switzerland. He was member of the Board of Directors of MCDT the SRG SSR affiliate responsible for the marketing campaigns for the introduction of DAB+ in Switzerland. Thomas was very active in the ITU Regional Radio Conference 2006 to secure the frequencies for Digital Radio in Europe.

Thomas Saner holds an engineering degree from the Engineering School of Basel and a Bachelor of Business Administration degree from the Graduate School of Business Administration in Zürich, Switzerland. Lately he has acquired a degree in Basic Lean Facilitator.

He is a member of the Audio Engineering Society (AES), the Society of Motion Picture and Television Engineers (SMPTE) and elected member of the WorldDAB Steering Board and vice-chair of the Technical Committee of the European Broadcasting Union (EBU).

SRG SSR

SRG SSR is the Swiss Public Service Provider operating 17 Radio- and 7 TV-programs in 4 languages for Switzerland.

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Ole Jørgen Torvmark
Consultant
Nordic Entertainment Group, Sweden (NENT Group)

The last year Ole Jørgen Torvmark has represented NENT Group in the WorldDAB Steering Board. NENT Group is one of the biggest radio broadcasters in Scandinavia, with their commercial radio networks in both Sweden and Norway.

Torvmark is also working for the Norwegian and Danish broadcasters through the two industry bodies, Norsk Radio AS and Radioplayer Denmark F.M.B.A. He is head of the roll out of joint IP distribution services for the radio industry, based on the international radio collaboration, Radioplayer Worldwide.

From 2010 to 2018 Torvmark was the CEO of Digital Radio Norway (DRN), the company which led Norway to become the first country in the world to conduct a DSO. His main responsibilities as CEO for DRN included political management and information, ongoing communication and information campaigns throughout the country, bringing together major competitors for collaboration, international stakeholder management, administration and weekly media management.

Torvmark has worked his whole life in radio and digital media, including projects for the telecom and music industries. He has experience from most parts of the administrative side of radio business; radio sales and marketing, r&d, distribution, PR and politics. From the beginning of the 2000s he has been head of different collaborative projects and companies in the radio industry.

NORDIC ENTERTAINMENT GROUP

Nordic Entertainment Group AB (NENT Group) is the Nordic region's leading entertainment provider. Nent Group entertain millions of people every day with their streaming services, TV channels and radio stations, and their production companies create content that is experienced around the world. Nent Group make life more entertaining by telling stories, touching lives and expanding worlds – from live sports, movies and series to music and original shows. Headquartered in Stockholm, NENT Group is listed on Nasdaq Stockholm.

NENT Group's radio network in Sweden includes stations like Rix FM, Bandit Rock, Power Hit Radio and Star FM and offers music of all genres, as well as news, talk shows and contests. NENT Group is investing in their own national DAB network, which will reach 43% of the Swedish population this year. In Norway their radio network includes P4 Lyden av Norge, P5 Hits, P6 Rock, P7 Klem, P8 Pop, P9 Retro and P10 Country, as well as NRJ. All stations in Norway are distributed via the national DAB network to more than 93.5 % of the population.

WorldDAB leadership election 2019 **Candidate for member of the WorldDAB Steering Board**



Carsten Zorger
Director
Digital Radio Office Germany

Carsten Zorger is Director of the German DAB+ digital radio marketing body, "Digitalradio Büro Deutschland", which oversees the marketing and promotion of DAB+ digital radio in Germany. As Germany is a major market for DAB+ in Europe, a special focus lies on how to reach the listeners with cross media marketing: on-air TV and radio spots, online

marketing and Social Media, and off air activities, such as events and political lobbying.

Digital Radio Office Germany is responsible of training sales staff of electronics retailers and the branding of stores in the new corporate design. Together with members of the ARD, Digital radio Office places advertisements and advertorials that reach millions of readers in all of Germany.

As a part of a Deutschlandradio initiative, Digital Radio Office realised the Digital Switchover from FM to DAB+ in five selected regions in Germany. The Office is responsible of all nationwide communication regarding DAB+ and operates the cross-sector national information platform www.dabplus.de.

Prior to his current position Carsten Zorger was head of marketing and communications at German national radio broadcaster, Deutschlandradio. Previously, he was head of public relations at Berlin-Brandenburg branch of ADAC, the German Automobile Association. Before that he was responsible for corporate communications at ISP Strato AG, one of the world's largest web hosting companies.

He has extensive experience in the radio industry, having been chief editor and director of audio and internet at SWR3 Börsenman, as a business reporter and managing editor at Bavarian Local Radio in Bavaria.

About the Digital Radio Office Germany

"Digitalradio Büro Deutschland", based in Berlin, is a joint initiative of the Digital Radio Association Germany, i.e. ARD, Deutschlandradio, private radio operators, equipment manufacturers and network operators who aim at establishing digital radio DAB+ in Germany together. The digital radio office informs the public about the introduction of DAB+ in Germany. Access to digital radio Germany Association is open to all market participants who are committed to DAB+.

WorldDAB leadership election 2019 Candidate for member of the WorldDAB Steering Board



KAREL ZÝKA
Technical and Administration
Director, Head of DAB switchover
Czech Radio

Karel Zýka works as the Technical and Administration Director of Czech Radio. He is fully responsible for radio and ICT technology, investment research and development and for new technology implementations. He has been also the Head of the DAB+ implementation strategy in the Czech Republic, which has successfully

launched full power broadcasting of „DAB Prague“ in 2015 and has started the process of digital switchover in Czech Republic.

Under Karel's supervision, the project team has not only created the strategic concept for development of DAB+ in the Czech Republic itself, but is also responsible for the lobbying and the execution phase including marketing and promotion of DAB+ to Czech audience. He also closely collaborates with the national Media regulators and state authorities to make the DAB+ the real future of radio broadcasting in our country.

Before joining Czech Radio, Karel Zýka worked as Director of commercial TV network at the multichannel television group TV Prima (part of MTG), as Director of Sales and Marketing at Czech Radio or as Managing Director of Audiovisual Producers' Association. He graduated from the Czech Technical University in Prague, Faculty of Electrical Engineering. Karel Zýka also works in the EBU and closely cooperates with EDRA - European Digital Radio Alliance. Since 2015, he has been a member of the WorldDAB Steering Board.

Czech Radio is the Public Service Broadcaster with the history since 1923 and it currently plays the role of the DAB pioneer in the Czech Republic. It operates more than 20 channels, all of them also on digital platforms. Czech Radio is the active member of WorldDAB.