

**The Hon Scott Morrison MP**

**Prime Minister**

**Parliament House**

**CANBERRA ACT 2600**

Dear, Prime Minister

The Federal and State Governments create Digital Radio Rollout Amendment (Expansion to Regional Australia) in near future of Australian Government will be considering Digital Radio rollout's funding for the period 2020-2023, there will be extending into sub-metropolitan and regional Australia.

The government would require the Digital Radio rollout to extends into regional Australia, following the launch of digital radio multiplex services in Mandurah on 23 December 2019. The Prime Minister seeks to expand the digital radio services to regional Australia, surrounding regions and sub-metropolitan areas.

We have proposes changes to the Broadcasting Legislation Amendment (Digital Radio) Act 2018 and Broadcasting Legislation Amendment (Digital Radio) Bill 2017 to legislate for the Digital Radio rollout to expand and maintain the digital radio services extends into regional, sub-metropolitan, remote and surrounding areas for parts of Australia.

The costs of the digital radio rollout was \$10.5 million, with \$4 million for digital radio transmission and satellite equipment, \$8 million for DAB+ and DRM carry analogue stations digitally as well as repeaters, \$6 million for direct to home satellite delivery of digital radio, \$2.4 million for digital radio receivers, \$5.2 million for Digital Radio Mondiale exported to Australia, \$1.7 million for digital radio extends into sub-metro areas, regional areas and surrounding regions, \$500 million for digital radio retransmission services, \$7.2 million for upgrade from ABC's domestic and international shortwave services to digital radio rollout and \$13 million for relay of Australian radio services into overseas digitally.

First up, In future, The ABC is looking up for ABC Radio Australia's international shortwave transmission facilities at Brandon in Queensland, near the ABC transmitters of 4QN Townsville, which plans for it's proposed transmitter licences of digital radio multiplex services, as domestic audiences transitioned to newer radio technologies, including DAB+ and DRM simulcasts AM and FM transmissions.

New digital radio transmission and satellite equipment went to the old ABC shortwave transmitters at Roe Creek (Alice Springs), Katherine, Tennant Creek, Shepparton, Brandon and Carnarvon for installation of expanded digital radio services.

The ABC, working alongside SBS, is currently planning to extend digital radio services in regional Australia. In Asia-Pacific, ABC Radio Australia is improved digital radio broadcasting capabilities to some of the regions currently relying on FM, satellite and online streaming as part of this reinvestment.

Went to the ABC activated its Emergency Broadcast Services and utilising its ABC Local Radio, Radio National, ABC News on Radio and digital radio transmitters in all of Australia as well as ABC Radio Australia's FM transmitters in Pacific plans to extend it's new digital radio broadcasts into the affected areas. The service provides emergency news and information. the transmissions could be heard on simulcast with AM and FM frequencies, this allows listeners with digital radio receivers in the region to listen to our coverage, in the event that the bushfires damages ABC transmitters or power and telecommunication sources.

A snapshot of BSB terrestrial analog radio services offers 715 national transmitter licences, 261 content licences of 600 commercial transmitter licences, 458 content licences of 549 community transmitter licences, class licence content licences of 2610 narrowcasting transmitter licences and exempt content licences of 830 retransmission transmitter licences, as well as DAB+ services in each state capital.

Broadcast Australia (ABC) offers eight (8) new AM transmitters that deliver DRM digital radio. If we understand correctly, currently in Australia there are 36 AM and 601 FM national analogue transmitters with no local content as well as over 225 AM (medium wave) and 1600 FM regional and local commercial and community stations transmitters.

Satellite direct to home (DTH) delivery of radio is coming to new DAB+ platforms as extending coverage footprint is limited to the new satellite radio footprint, we use the DTH satellite reception equipment in remote communities. A few radio stations via satellite that includes SBS Radio 1, SBS Radio 2, SBS National Radio Network, SBS Radio 3, SBS Arabic24, SBS Chill, SBS PopAsia, SBS PopDesi, Radio National, ABC Classic, ABC NEWS on Radio, ABC Jazz, ABC Country, ABC KIDS Listen, ABC Radio Sydney, ABC Western Plains (Dubbo), ABC Radio Canberra, ABC Radio Melbourne, ABC Goulburn Murray (Wodonga), ABC South West VIC (Warrnambool), ABC Radio Brisbane, ABC Far North (Cairns), ABC Western QLD (Longreach), ABC Southern QLD (Toowoomba), ABC North West QLD (Mt Isa), ABC Radio Adelaide, ABC North and West SA (Port Pirie), ABC Radio Perth, ABC Pilbara (Karratha), ABC Kimberley (Broome), ABC Goldfields (Kalgoorlie), ABC South West WA (Bunbury), ABC Mid West & Wheatbelt (Geraldton), ABC Radio Hobart, ABC Northern TAS (Launceston), ABC Radio Darwin, ABC Alice Springs, ABC Grandstand, ABC Emergency Broadcasting services (2 stations), ABC Classic 2, *triple j*, *Double J*, *triple j Unearthed*, NIRS News, NIRS Language, NIRS Music, NIRS Community, Vision Radio AM, Vision Christian Radio, Vision180 Radio, RadioTAB, 4TAB Digital 2, Niche Radio 1, Niche Radio 2, Niche Radio 3, Niche Radio 4, Rete Italia, 2ME Radio Arabic, 2AC National Australian Chinese Radio (2 channels), Indian Link Radio online stream, RED FM WA (now Hit FM WA), Spirit Radio WA (now Triple M WA), BBC World Service, CRN 1, CRN 2, RPH Australia, Sydney's Hope 103.2, Inspire Digital, Vintage FM, Faith FM, Yolngu Radio, CAAMA Radio, Gumala Radio, Radio Larrakia, 2CUZ FM, CAAMA 2, RadioNGM, PAKAM Radio, PAW Radio, 5NPY Radio, Black Star Radio, TEAABA Radio, 4MW Radio, 6WR Waringarri Radio, SCA Radio 1 (Hit Network), SCA Radio 2 (Triple M LocalWorks), RSN Racing and Sport, Sky Sports Radio, WA TAB Radio, QLD TAB Radio, SA TAB Radio, Nine Radio Syndication's national satellite distribution for 3rd parties, Flow FM, The Breeze, Rebel FM, ABC Radio Australia English and ABC Radio Australia Multi-language are also expanding to DAB+ satellite platforms. As well as some local stations in Darwin NT and Broome WA (Radio Larrakia, Darwin FM, Aboriginal Radio, Palmerston FM88, Radio Goolari, PAKAM Radio) has also expanded to digital radio. As well as some local stations in Darwin NT and Broome WA (Radio Larrakia, Darwin FM, Aboriginal Radio, Palmerston FM88, Radio Goolari, PAKAM Radio) has also expanded to digital radio services.

Additionally, new DRM transmitters and multiplex licences of DAB+ transmitters carrying shortwave radio stations such as Reach Beyond Australia (HCJB), Ozy Radio and more on HF band and VHF NAS broadcasting licences to simulcast in same as multiplex services on both DAB+ and DRM digital radio.

If possibly new digital radio multiplex transmitter licences, DAB+ repeaters and digital radio translators should extend into Gold Coast, Newcastle/Lower Hunter, Sunshine Coast, Central Coast NSW, Illawarra, Geelong, Queanbeyan (same as Canberra's digital radio multiplex services in metro areas), Cairns, and Townsville.

Remote area commercial broadcasters RED Media (RedFM and Spirit), FlowFM (South Central/East) and Rebel Media (RebelFM and The Breeze) Qld, should be allowed to transmit using high frequency DRM in some regional areas.

In a few regional areas, the AM/FM simulcasts of Radio National, ABC Local's metro radio in surrounding areas, ABC Local's regional radio, ABC Classic FM, ABC News Radio, JJJ FM and SBS's National Radio Network would expand to DAB+ in regional areas and adopt DRM for regional and remote areas.

The transmission systems receives a new digital format of old analog signals (AM, FM, Shortwave), terrestrial DAB+, DAB+ satellite, MF DRM30, HF DRM30 and DRM+. This coverage is suitable for live national coverage such as ABC Radio stations, Parliamentary News Network, SBS Radio stations and

emergency warning system, remote coverage receives a pair of ABC Local Radio and commercial radio stations in most few areas.

At transmitter sites is ideal for both DAB+ and DRM, shared with Digital TV and FM radio, the combined low powered and high powered transmissions of Commercial, Community, TCBLs, LPON, HPON and MF-NAS radio services on new and existing channel numbers, DAB+ channel 9C is a single frequency network to offer ABC and SBS radio stations, with only DAB+ channel numbers are vacant for future use.

An example of the remoteness is to use the New England (NSW) & Granite Belt (QLD). The main transmitter sites is on Mt Mackenzie near Tenterfield and Mt Marlay near Stanthrope. There are stations include Rebel FM, The Breeze, ABC New England North West, ABC North Coast, Ten FM, Vision Christian Radio, and Sky Sports Radio. In the same coverage area there is also Stanthrope (Rebel FM, The Breeze, 4AK, 4WK, Hit100.7 Darling Downs, 864 Triple M Darling Downs, ABC Southern Queensland, Ten FM, Radio TAB, Vision Christian Radio, Adventist Radio Australia, 3ABN Radio Australia).

Here are some of the radio networks will be able to expand the digital radio services in your local areas.

They include:

- ABC Local Radio's 45 regional stations in 52 locations expands to DAB+, to complemented with RN, ABC News, ABC Classic and *triple j* expands to DAB+ in regional areas and 6 digital-only stations from ABC extends into regional areas.
- SBS's National Radio Network is a combination of programs from SBS Radio 1 and SBS Radio 2 expands to DAB+ in regional areas, to complemented with SBS Radio 3, SBS Arabic24 and 3 music stations from SBS extends into regional areas.
- Melbourne's 1116 SEN extends into Hobart 1629AM, alongside Crocmedia has purchased 23 narrowband radio licences across Australia and now including newly rebranded as SEN WA in Bunbury on 621AM, in order to accommodate digital radio rollout in regional Australia.
- Digital radio licence areas and in car coverage extends into surrounding regions, regional areas and remote areas.
- DAB+ only stations extends into regional areas: Including Nova Entertainment's Coles Radio extends into Central Coast and more regional centres, SCA's 9 digital radio brands extends into regional areas, Kix Country from Grant Broadcasters extends into more regional areas from Ballarat to Devonport, RadioTAB's 4TAB Digital 2 extends into QLD, NT, SA and TAS, RSN Carnival's 2 stations and TAB Live extends into VIC and TAS, Sky Sports Radio 2 and Sky Thoroughbred Central extends into regional NSW and Canberra and 2SM Super Network's 4 digital radio stations extends into NSW (now includes Bathurst) and QLD.
- New Digital Radio Mondiale services offers DRM30 and DRM+ in regional licence areas, new DRM transmitters in Kulgera NT, Newman WA and Liena Tas, we offers SBS Radio 1 & 2, Radio National, Parliamentary News Network, ABC FM, JJJ FM, *Double J*, *triple j Unearthed*, ABC Jazz, ABC Country, ABC KIDS Listen and localised versions of ABC Grandstand in national coverage, Remote local radio receives ABC Local Radio stations and a range of commercial radio stations can be received in local coverage of regional areas, and over 53 Transmitters give national coverage of 9 programs.
- AM-FM conversions of radio stations should expands to DAB+, including Warrnambool's 3YB FM 94.5, Bathurst's 2BS Gold 95.1 and more.
- DAB+ Satellite uses a satellite footprint extends into regional areas, along with radio channels from ABC, SBS, NIRS, Vision Christian Radio, RadioTAB, Niche Radio, BBC, CRN, RPH, Hope 103.2 Sydney. Vintage FM, Faith FM and 14 indigenous radio services.
- Vision Christian Radio expands to digital radio to offer a simulcast of 700+ locations, alongside Vision Christian Radio extends to Canberra, Darwin, Geelong and more regional centres is digital only relay station, and Vision180 Radio extends into all of metropolitan and regional areas.
- Radio stations in Australian Territories (Christmas Island, Cocos [Keeling] Island, Lord Howe Island, Norfolk Island) extends to digital radio (DAB+, DRM).

- ABC Local Radio's outback radio services in Katherine, Tennant Creek and Alice Springs has been converted from shortwave radio (after shut down in 2017) to DAB+ and Digital Radio Mondiale from next year.
- Digital Spectrum and licensing offers DAB+ multiplexes, in preparation for DRM frequencies, a supplementary DAB+ transmission services, example is main transmitter sites in Melbourne and Wagga Wagga, same coverage areas from Tenterfield to Mount Gambier, proposed digital radio coverage in crystal clear reception to most regional areas, and to cover the whole of Australia from remote areas to national coverage.
- Niche Radio Network expands to digital radio with over 30 stations on air to transmit Rete Italia programs, 21 frequencies will make a progressive transition to DAB+, Rete Italia in Adelaide moves from 1629AM to DAB+ and seven frequencies will be simulcast on DAB+ digital radio.
- Mount Isa's Radio Rhema 105.7FM moves to digital radio, after it's losing a radio licence in 2017, later Melbourne's 3WRB Stereo 974 off-air before it's transition to digital radio in 2020.
- Australian shortwave radio services and VHF NAS broadcasting licences should be expanded to digital radio, that come of favourite stations from Reach Beyond to Galaxias greek radio.
- 2ME Radio Arabic expands to digital radio, that is the launch of digital only relay station in Canberra, alongside simulcasts of 1638AM to Sydney, Melbourne, Hobart and Darwin; 1647AM to Brisbane and Adelaide; and 1656AM to Perth.
- Remote Indigenous Broadcasting Services expands to digital radio, along with sub-metropolitan licence areas of community radio stations expands to DAB+ in all capital cities.
- Hobart's Pulse FM Tasmania expands to digital radio, as a first ever narrowcast digital radio services in Australia.
- ABC Radio Australia's shortwave broadcasting into Asia and the Pacific over the years will make a transition to digital radio relayed from Australia, after ABC Radio Australia's shortwave services were closed across Asia in 2015 and the Pacific in 2017.
- Regional Australia's small communities to offer community radio stations such as Bourke's 2WEB Outback Radio and Tenterfield's Ten FM expands to DAB+ digital radio.

AM Signalling System (AMSS) and Radio Data System (RDS) can also be encoded into new digital formats are coming to Digital Radio Mondiale in the future plans, new digital radio multiplex retransmission services for your local community and visitors to enjoy, digital radio is simulcasting the transmitter licences to provide high-power open (HPON) narrowcasting services in Gosford, New South Wales (747 kHz) and Hobart, Tasmania (104.3 MHz), complement the relays of AM to FM conversions in solo markets including 2GN Goulburn, 2XL Cooma, 2ST Nowra, 2EC Bega and more.

We have additional digital radio repeaters will be required on new DAB+ repeaters, existing DAB+ repeaters and TV translator sites, these includes Market St Sydney (including Mosman), Collaroy Plateau (inc. Manly), Bilgola Plateau (for Bouddi), Redfern, Hawkesbury Heights (for Sydney North West), Gregory Hills (Picton), Woronora, Mount Mee, Boonah, Brisbane North West, Brisbane South East, Esk, Kooralbyn, Maroon, Mount Alford, Rathdowney, Collins St Melbourne (Melbourne Inner Suburbs), Port Melbourne, Darley, Ferntree Gully, Healesville, Marysville, Monbulk, Rosebud, Safety Beach, Selby, South Yarra, Upwey, Warburton, Mindarie, Perth City, Lancelin, Singleton, Perth Coastal, Roleystone, Two Rocks, Adelaide Foothills, Angaston, Cape Jervis, Carrickalinga, Craigmore/Hillbank, Eudunda, Gumeracha, Lyndoch, Maitland, Mannum, Myponga, Normanville, Strathalbyn, Swan Reach Victor Harbour, Yankalilla and more, as well as extending digital radio rollout into Gold Coast, Sunshine Coast, Lower Hunter / Newcastle, Central Coast NSW, Illawarra, Queanbeyan, Cairns, Townsville, Geelong, South East SA, Bunbury WA and more will give an extended coverage of digital radio in your area.

For example, we have a plan to rollout a new on-channel repeater in the Mornington Peninsula area, that covers extended DAB+ radio coverage from Sorrento to Rosebud and from Mornington to Frankston in some metro and regional areas of across Victoria.

For disabilities, RPH Australia is planning to expand more digital radio services for plans in the future, relay of Melbourne's 3RPH 1179 is coming to Darwin, with RPH stations in Canberra, Wagga Wagga, Newcastle, Mildura, Albury-Wodonga, Shepparton, Geelong, Bendigo, Warragul, Warrnambool, Launceston and Devonport is expands to digital radio, alongside a RPH Australia satellite service in remote areas will take a range of RPH programs for disabilities, as well as relay of the BBC World Service overnight and IRIS provides a mix of information and entertainment, blending lifestyle programs, features, magazine and music programs, with a more youthful focus on the same stations.

### **What will Digital Radio be delivering in four year period?**

This means new digital media technology, the Digital Radio aims for: A suite of digital radio stations, delivered to a variety of in-home and mobile devices, niche internet stations, archival material, supported by broadband delivery of live and on-demand content providing additional content, information and audience participation, and interactive content.

- Digital radio services catering to specific music genres including country, jazz, urban, hit music, classic greatest hits, kids, and more, accessing digital radio content nationwide, more extensive news and sports coverage, English language and multi-language services, local information and emergency broadcasting services.
- Internationally, Extension of ABC Radio Australia into digital radio services in Asia and the Pacific, relayed from Australia.
- Australian audiences can access to expansion of digital radio rollout in Australia, including sub-metropolitan licences of community, narrowcast and narrowband radio stations in all capital cities, as well as radio stations in regional Australia and Australian island territories.
- Delivering ABC News continuously across the radio content, including continuous coverage of rolling news service through ABC News on radio, Parliamentary coverage, radio current affairs programs AM, PM and The World Today, segments of Correspondents Report, hourly news bulletins sourced from ABC News through Radio National, 60 local radio stations, Classic FM and *triple j*, Asia Pacific news from ABC Radio Australia, local stories from ABC Local and ABC Rural, news and information from ABC Radio (Radio National, 8 capital city radio stations, 52 regional radio stations), music news from *triple j* and *Double J*, Emergency broadcasting, specialist subjects, and it supplies your station with the stories from ABC News.
- Digital Radio similarly will allow the ABC to provide even greater program diversity with a suite of radio stations catering for specific music and content genres.
- Stations include Pines FM 99.9 Norfolk Island, Radio Norfolk 1566 and 89.9, 6RCI Radio Christmas Island, Voice of the Cocos [Keeling] Islands (6CKI), Lord Howe Island Radio and Norfolk Island's Tourist information had expands to digital radio, as well as ABC Radio (ABC Local, Radio National, ABC Classic FM), Triple J, RED FM WA, and Flow FM will use the satellite relays in your region.
- The news makers supplies your station with the stories from ABC News, Nine Radio's 9 News, 2SM Super Radio Network, CSU's National Radio News, Australian Independent Radio News, local news and more news sources.
- International broadcast partners of news content include BBC World Service, Voice of America, Deutsche Welle, WRN Broadcast, Radio New Zealand, and more.
- SBS offers news and information on digital radio channels with distinctive, credible and culturally relevant Australian perspectives on local and international issues. Over 74 languages will provide the simulcast of AM Analogue and FM Analogue on Digital in language speaking community in the past and current years.
- For instance, broadcasters will be able to offer new formats and pop-up programs to celebrate a festival, tour or sports event as well as speeches and addresses, celebrations and commemorations, talks and debates, news coverage and emergency information. Our annual event of radio diversity is World Radio Day to celebrate the service radio provides in each year.

### **If there was Digital Radio rollout outlines external services of radio broadcasters?**

We are explore the digital radio rollout outlines expanded changes to it's external services of radio broadcasters.

Here is key points:

- ABC Radio Australia will continue to broadcast a 24/7 schedule built on a deeper collaboration with ABC News and ABC Radio and through collaboration with SBS Radio and SBS News.
- Radio Australia will work with colleagues in ABC Radio and ABC News to identify and deliver a sustainable and engaging English program service that will appeal to our International audiences.
- Language services in Asia and the Pacific will be delivered through a mix of reduced original content coupled with translated content from ABC and SBS.
- We worked with programming and services from Nine Radio Syndication, including distribution monitoring, media engineering, Macquarie Media programs, Southern Cross Austereo programs, Crocmedia programs and special events.
- Flow FM is going digital radio offers current contemporary hits of Mainstream music along with popular country music and 80's to now classics complemented with news, weather, local event information, agriculture, town and regional politics, and football and netball coverage, national syndicated programs, hourly news from Macquarie Media, Christian Contemporary music, Religious programming, Rural news and local content.
- Rebel FM and The Breeze is going digital radio plays music formats is classic hits from the 60's to current easy listening hits from today as well as some of the best rock music.
- Most recently, Southern Cross Austereo's rebrand of Redwave Media's radio stations was changed to eight stations through the Hit Network and Triple M in Karratha, Broome, Port Hedland, Geraldton and remote mine sites, we take our national radio footprint to 98 stations nationwide.
- Bourke's Outback Radio 2WEB is expanding to digital radio was broadcasting to far western New South Wales, south west Queensland and north eastern South Australia, which plays music every day for the first time in radio history.
- Tenterfield's Ten FM is expanding to digital radio plays music variety in automated music mix, local live shows with content and music, shows from other radio stations, and shows from CBAA's Community Radio Network, which is broadcasting throughout New England (NSW) & Granite Belt (QLD) for the first time in radio history.
- Working with The Radio Sales Network represents the largest Regional Radio Network in Australia with access to 120 radio stations across 68 regional markets and Southern Cross Austereo provides access to over 100 regional radio stations across 54 markets regionally to extending digital radio rollout in reaching more than 11.2 million listeners and 11.7 million listeners for that national sales.
- Vision Christian Radio expands digital radio to simulcasts of 730+ locations nationally, alongside Vision180 Radio, increasing broadcasts throughout Brisbane, Sydney, Melbourne, Hobart, Adelaide, Perth, Gold Coast, regional centres and extends into Canberra, Darwin, Geelong, Sunshine Coast, Newcastle, Wollongong, Townsville, Central Coast, Gladstone, Gympie, Taree, Wagga Wagga, Port Macquarie, Orange, Albury-Wodonga, Ballarat, Bendigo, Gippsland & Sale, Launceston, Mount Gambier, Riverland and more.
- Community radio stations supplies the satellite feeds of sources such as the Community Radio Network, BBC World Service, National Indigenous Radio Service (NIRS), RPH Australia and other services, over 450+ stations who transmits this signals via satellite to transmission facilities in these locations across the region.
- The Parliamentary News Network expands to digital radio in regional Australia to direct relay of ABC News on radio, with simulcasts of a parliament-only feed for Australian Parliament broadcasts.
- ABC Grandstand on digital radio simulcasts ABC Local Radio and ABC News on Radio's live sports coverage such as AFL, NRL, rugby union, soccer, cricket, basketball and more.
- Reach Beyond Australia broadcasts programs in 24 languages expands to digital radio, which relays transmitting from our Broadcast Facility in the Kimberley, in far north Western Australia, the shortwave antennas will be added to digital radio transmission facilities.

- Shortwave radio broadcasters had expanded to Digital Radio Mondiale alongside DAB+ digital radio in most areas, stations include Reach Beyond Australia, 4KZ Innisfail, Unique Radio, Peter Tate's Radio X Network, Ozy Radio, and Radio Hobart International will jump to DRM shortwave, making the switch from old analog shortwave to new digital formats.
- ABC's Domestic shortwave radio services in Northern Territory will be migrating to DAB+ digital radio and Digital Radio Mondiale to direct relays of ABC Darwin (Katherine listeners) and ABC Alice Springs (Tennant Creek and Alice Springs listeners) through its moved from HF shortwave radio service to transmitter upgrades to digital radio multiplex services, ABC has also provided an additional services of Radio Australia and Radio National, two networks on relay from Sydney.

The use of digital radio broadcasting through Parliament of Australia's ParlTV plans to retransmits its digital radio services in Canberra, list of radio stations in Canberra are existing services includes Parliamentary News Network (split between ABC News on Radio on DAB+ and Parliament on AM/FM), ABC Radio Canberra, ABC Radio Australia, ABC Radio National, ABC Classic FM, Triple J, 2XX, 2CA, 2CC, Hit104.7, ABC South Eastern Regional Network (relayed from Bega NSW and Gippsland VIC), SBS Radio 1, SBS Radio 2, SBS's National Radio Network, Mix 106.3 and 1RPH, and in addition to 42 radio frequencies, new services includes Raw FM, UCFM, Austral FM, C Radio 88.0, ACTTAB Radio, 89.5 Valley FM, 1CMS, 1WAY FM, ArtSound 92.7, 96.7 QBN FM, Kix Country, commercial DAB+ only stations, Sky Sports Radio, STAR AM 1323, Niche Radio Network, ACR Chinese Radio 1647, ABC's DAB+ only stations, SBS's DAB+ only stations, Vision Christian Radio, Vision180 Radio and 2ME Radio Arabic.

In addition to national, commercial and community stations are on Melbourne's DAB+ services, Melbourne's Digital Radio services will add a simulcast of narrowcast radio stations including 3XY Radio Hellas, Niche Radio Network includes Rete Italia, Vision Christian Radio, 3CW Chinese Radio, 3ACR 1629, 2ME Radio Arabic, Radio Rhythm, Radio Haanji (shared with Surf FM's Surf City Sound), Faith FM, 3ABN Australia Radio, Islamic Voice Radio, J-AIR 87.8FM, Kiss FM and 1683AM The Hellenic Radio Station of Australia, as well as test transmissions, and new home of the digital-only relay station Vision180 Radio.

In Wagga Wagga, new Digital Radio services expands includes test transmissions, a simulcasts of SBS's National Radio Network, ABC Riverina, RN, ABC Classic FM, ABC NEWS on radio (DAB+), Parliamentary News Network, triple j, Hit93.1 Riverina, 1152 Triple M Riverina, Radio 1RPH, Wagga's Life FM 101.9, 2AAA FM, Sky Sports Radio, Vision Christian Radio and Niche Radio Network inc. Rete Italia, as well as digital-only stations SBS Radio 3, SBS Arabic24, SBS Chill, SBS PopAsia, SBS PopDesi, ABC Grandstand, ABC Jazz, ABC Country, ABC KIDS Listen, Double J, triple j Unearthed, Hit Buddha, Hit Easy, Hit Oldskool, Hit Urban, Hit Dance, Triple M Soft Rock, Triple M Classic Rock, Triple M Country, Triple M Greatest Hits, MMM Hard 'n' Heavy, Sky Sports Radio 2, Sky Thoroughbred Central, and Vision180 Radio.

Digital radio offers crystal clear sound, ABC and SBS offers some of your favourite AM & FM stations and a selection of new digital only stations, as well as commercial and community stations. More AM/FM stations will be simulcast in on air on digital radio over time.

DAB+ only stations often have a niche format, catering to a broad range of preferences, including chill, contemporary hits, country, rock, dance, sport, racing, news, talk, children's, 80's, 90's, jazz and foreign language content.

Simulcasts of AM and FM stations offers a niche formats of catering to a broad range of preferences, including national and commercial broadcasters is news and information, talk, sport and entertainment, as well as community broadcasters is Local communities, Indigenous Australians, Ethnic communities, Educational services, Religious communities, People with a print disability, Music, arts and culture, Youth and seniors and LGBTIQ communities, narrowband broadcasters is Italian and multi-language programs, country music, Christian narrowcast radio, the Chinese, Arabic, Greek, Hindi, Lebanese and Classic Gold stations, some commercial station relays and low power high school outlets and narrowcast broadcasters is the TAB, foreign language groups, fringe music services, tourist and religious services, and smaller operators including private individuals.

Digital radio trial is suggested station across your area: the channels donated by analog radio stations through single transmitters is going to DAB+ and DRM: These includes ABC Ballarat (107.9FM MHz), ABC South West Victoria (1602AM kHz), ABC Gippsland (828AM kHz, 100.7FM MHz), River 1467AM Sunraysia, 531 3GG, 95.3 Triple M Goulburn Valley, EMFM Echuca 104.7 and 3MBR-FM 103.5, as well as 2GHR Greater Hume Radio, ABC Classic, Radio National, 1368 2GN, 2WEB Outback Radio 585, Ten FM 89.7/98.7, Vision Christian Radio, TABradio WA, Radio Great Southern, 2ME Radio Arabic and more.

The ABC, SBS, Federal government, National Indigenous Radio Service, Imparja Television, Vision Christian Media, CBAA, BBC World Service, Vintage FM, Faith FM, Tabcorp, TAB WA, Southern Cross Austereo, Optus and other radio stations invested \$2 billion in development of Direct-to-home satellite delivery, digital radio transmission equipment, and audio streams of radio channels in expanded digital radio satellite services.

Additional Digital Radio repeaters in surrounding regions, it will be required on new DAB+ repeaters, existing Digital Radio on-channel repeaters, and TV translator sites, that covers extending DAB+ digital radio coverage from Rosebud in VIC to Sydney's Northern Beaches in NSW, the funding was over \$9 million dollars.

We make improvements of digital radio rollout continues, Catholic station Radio Maria is now on DAB+ in Sydney and Melbourne marks the first ever narrowcast DAB+ station, analogue radio frequencies of narrowcast (LPON, HPON, MF-NAS) stations is extending digital radio rollout into all 8 capital cities for \$10.5 million and regional Australia for \$100 million, listeners to re-tune to simulcast narrowcast stations nationally and locally including RadioTAB, Sky Sports Radio, Vision Christian Radio, Faith FM, Rete Italia, Kix Country, and more.

CBAA's Digital Radio Project plans to increase over 450+ community stations to expansion of digital radio services, that includes community stations in sub-metropolitan, regional, rural and remote areas was extending digital radio into metropolitan and regional Australia for over \$300 million, the community radio stations in Canberra and Darwin was expands to DAB+ in coming weeks.

Digital Radio services transmits it's few analogue and digital-only stations broadcasts in stereo and mono is going for extends into regional Australia as well as metropolitan Australia.

In addition to Melbourne's JOY 94.9 which can be simulcast on digital radio, sub-metropolitan licences of community radio stations in all capital cities such as 88.6 Plenty Valley FM in Melbourne, SWR Triple 9 FM in Sydney and more in extending to digital radio rollout across the region.

The community groups have to pay for re-transmitters of digital radio multiplex services will relay these radio stations, digital radio antenna system, satellite equipment, radio receivers and a satellite down link. You need a set up your own community Self-help digital radio rebroadcasting transmitter to extend services of analogue and DAB+ only stations in your area for funding of \$200,000.

For local communities connected to new re-broadcasting antennas of emergency broadcasters and information radio, including essential emergency information during a bushfire or storm as well as visitor information centres.

We discussing the success of DAB+ and also exploring DRM in support of media diversity and digital radio, the DAB+ transmitters are able to carry all programs, new DAB+ and DRM digital transmitters carry 261 AM/FM commercial stations along with 458 community stations, transmitters extends into regional areas that carries the AM and FM programs of ABC and SBS stations all with addition unique to digital programs, were creating 168 DRM+ channels, ABC Radio Australia has been transmitting HF DRM to Asia and the Pacific return for coming weeks in preparation of Radio Australia frequencies (24 hour FM stations, local relay stations, live satellite) and live internet streaming will be used in shortwave to digital radio conversions in the near future, this will be ABC Radio Australia's new digital radio services relayed to Asia, India, the Pacific and the Middle East.

It's likely that the expansion of the SEN network, Crocmedia's acquisition of Bunbury's Spirit Radio 621 AM in regional WA, before it's rebrand to SEN WA takes our national footprint and expands to digital radio.

We will expanded the SEN network to take on 25 radio licences to include 1116 SEN (VIC, TAS, NSW, QLD, NT), SEN+ (VIC, SA, TAS, WA, NSW, QLD, NT), SEN SA and SEN WA will be used to show sports content in former frequencies of Rete Italia and Bunbury's Spirit Radio 621 are coming to simulcast on digital radio in most regional areas over the coming few weeks.

More funding to additional costs in total of \$1 million dollars to save money, the community radio stations will be allowed to provide a DAB+ digital radio services in Canberra and Darwin over the coming weeks despite being in the licence areas for the cities, with community radio stations in regional Australia will also expands to DAB+ and DRM over next few months in a four year period.

Few stations from commercial broadcasters such as ACE Radio Broadcasters, Alice Springs Commercial Broadcasters, Australian Radio Network's The Edge 96.1 Katoomba, Capital Radio Network, EON Broadcasting, Flow Media, Grant Broadcasters, Carnarvon Communications (Hot Hits Radio who owns Hot Hits 99.7 and Classic Hits 666 becoming Hit FM and Triple M), Midwest Radio Network, NOVA Entertainment's 104.5 Star FM Central Coast, NQ Radio, Rebel Connect, Redwave Media (who owns RED FM and Spirit Radio is also becoming Hit FM and Triple M), Resonate Broadcasting, Southern Cross Austereo, Super Radio Network, and the WIN Corporation's two stations C91.3FM and i98FM will be extending to new digital radio rollout in regional Australia for next few years until 2023.

Our partners of community radio Australia includes CBAA, Community Broadcasting Foundation, Christian Media & Arts Australia, First Nations Media Australia, National Ethnic & Multicultural Broadcasters Council (NEMBC), RPH Australia and Southern Community Media Association (SCMA) will have latest developments including CBF Development and Operations grants are going to make digital radio rollout for \$200 million dollars in your local area for next grant round, local community radio stations in regional and sub-metropolitan areas will be reinvested in extending DAB+ and DRM digital radio rollout, and technical upgrades of satellite equipment installed on the digital radio satellite delivery.

Reinvestment of digital radio services to extending the reach of radio networks in Australia and relayed to overseas regions, including ABC local radio's 45 regional stations in 52 regional locations, Radio National in regional Australia, ABC's parliamentary and news network in regional Australia, Radio Australia in Asia and the Pacific, ABC FM in regional Australia, JJJ FM in regional Australia, SBS's national radio network in regional Australia and the digital-only stations in regional Australia such as ABC Jazz, ABC Country, ABC Grandstand, ABC Kids Listen, Double J, Triple J Unearthed, SBS Radio 3, SBS Arabic24, SBS Chill, SBS PopAsia and SBS PopDesi.

Similar to John Figliozzi's Worldwide Listening Guide, we bring you the radio listings of program guides of ABC Radio networks on the Digital Radio features, for example was Radio National programs is on now and then ABC Metro and Regional Radio programs is on next, the audio streams are found on DAB+, DRM30 and DRM+.

An example was AM radio transmitters will be expands to Digital Radio Mondiale that includes Melbourne's 3XY Radio Hellas 1422 at Truganina, ABC RN 621 at Delahey was relaying to some regional areas, 2KY 1314 at Windang and more, then FM radio transmitters will be expands to Digital Radio Mondiale that includes JJJ FM 101.1 at Wagga Wagga's Capital TV Site Willans Hill, ABC Gold Coast 91.7 at Lower Beechmont, Radio TAB 95.9 at MacDonnell Ranges, West Gap and more, it was excited for test transmissions of DRM for AM and DRM for FM is set to be simulcast of analogue stations in many of country areas of regional and some metropolitan Australia, as well as new DAB+ test transmissions that extending into regional Australia.

The future expansion of its satellite distribution systems to add new digital radio services at Canberra's Parliament House, to supplied a digital radio channel repeater system consisting of new digital radio receivers, AM/FM radio receivers, Canberra's digital radio services including AM/FM/DAB+ stations on

blocks 8D 201.072 MHz and 9C 206.352 MHz, satellite receivers, and access to digital radio transmissions of Parliamentary Radio and local radio through TV channels or radio frequencies to request a cable.

We're looking up of radio channels via TV signals only in the in-house radio and TV service at Canberra's Parliament House, which includes audio streams of ABC Radio Canberra, RN (ABC Radio National), Classic FM (ABC Classic), ABC News Radio, ABC Jazz, ABC Country, ABC Kids Listen, *triple j*, *Double J*, *triple j Unearthed*, SBS Radio 1, SBS Radio 2, SBS Radio 3, SBS Arabic24, SBS Chill, SBS Pop Asia, and SBS Pop Desi were being updated to the list of radio channels.

An designed, link budgets, assistance with licencing, supply of equipment, installation, test and commissioning of digital microwaves links for studio to transmitter links, an distribution of live audio to radio stations across Australia, and implemented systems to allow transmission of services on the satellite platforms to their re-transmission sites of new digital radio retransmission services which simulcasts Retransmission of analogue radio services and allow a simple and cost effective distribution system via the OPTUS satellites.

The technical upgrade of radio transmission facilities to installation of digital radio services through the transmission sites and radio studios of few radio stations including the range of community radio stations such as Tenterfield's Ten FM, Nowra's Triple U FM, Holbrook's 2GHR Greater Hume Radio, Geraldton's RadioMAMA, Hay's 2HAY FM, Griffith's 2MIA FM, Echuca's Radio EMFM, Colac's OCR FM, Warrnambool's 3WAY-FM and more to use satellite feeds of sources such as the Community Radio Network, BBC World Service, National Indigenous Radio Service (NIRS), RPH Australia and other services, as well as Christian community radio stations will also use satellite feeds of Vision Christian Radio. The RPH Australia stations technical systems supplies satellite receivers tuned to receive, material from RPH Australia, the BBC, and our own satellite feed for monitoring purposes.

Due to popular demand, Sydney's Koori Radio, Brisbane's 98.9FM, Melbourne's 3KND, Perth's Noongar Radio, Charleville's 4RR FM, Taree's 2TLP Ngarralinyi Radio, Cherbourg Radio 94.1FM, Mount Isa's MOB FM, CAAMA Radio and others that also supplies satellite receivers can tuned to receive satellite feeds from National Indigenous Radio Service, Yolngu Radio, CAAMA Radio, Gumala Radio, Radio Larrakia's Aboriginal Radio, 2CUZ FM, CAAMA 2, RadioNGM, PAKAM Radio, PAW Radio, Radio 5NPY, QRAM's Black Star Radio, TEABBA Radio, Radio 4MW and Waringarri Radio will become part of technical systems across nationally in each state and territory. Commercial radio stations will use direct program feeds via satellite, sources include syndicated content come from SCA, Nova, ARN, Nine Radio (formerly known as Macquarie Media), Crocmedia, Grant Broadcasters, Super Radio Network , ACE Radio, Capital Radio and other independent radio operators, as well as other sources, plus there's music logs in each station.

We can help you to supply a site construction and install new antenna systems, transmission equipment, and satellite equipment for new DAB+ and DRM digital radio services, in this systems now transmits ABC Radio, Triple J, SBS Radio, Rebel FM, The Breeze, Flow FM, Hit FM (formerly Red FM), Triple M (formerly Spirit Radio), community stations, narrowcast stations, retransmission services and more on the new digital radio multiplex services and DAB+ satellite radio services.

DAB+ Digital Radio and Digital Radio Mondiale has expanded its regional coverage from Mount Gambier to Gold Coast and Regional WA to Geelong is being granted a few new licenses to broadcast DAB+ radio multplex in the regions, we're building broadcast sites, other radio stations soon to have digital test broadcasts include ABC Gippsland, two commercial stations in Geelong (Bay 93.9, K-Rock 95.5), Tenterfield's Ten FM, narrowcast transmitters of Sky Sports Radio (2KY), 2ME Radio Arabic and more.

I look forward to excited about Digital Radio rollout to support media diversity, we thank you to your local MPs, Department of Communications and the Arts, ACMA, industry stakeholders, ABC, SBS, CRA (Commercial Radio), the CBAA (Community Radio), ANRA (Narrowcasters), the Digital Radio Mondiale project office, Transmission technologist Alan Hughes and more. We really appreciate it.

**Brendon Agpasa - April 2020**