

Analysis on Digital Radio Service Deployment in Thailand TIME Consulting, 13 December 2017





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**1** Radio Development Plan and Digital Switch Over

2 Regulatory Impact Assessment





About 46% of population listening to radio. Most audiences listen to radio more than 3 days a week. Key problems are interference signal and poor audio quality.







SWOT Analysis is an important element to help setting the direction of the draft of broadcasting development plan.

Strengths	Weaknesses
<ul> <li>Radio service is the basic service in Thailand which is easily accessed and provided in the form of Free-to-Air to everyone in the country.</li> <li>Radio service has a wide coverage area and can widely broadcast news and content to reach large numbers of audiences.</li> <li>Radio service has long been used as the media by public sector to convey message to people.</li> <li>Radio equipment cost are relatively low and affordable to most of the Thai people.</li> </ul>	<ul> <li>Interference of signal occurs in many area in Thailand.</li> <li>Poor audio quality on analogue radio service.</li> <li>Limited to voice-only service.</li> </ul>
Opportunities	Threats
<ul> <li>DAB+ technology ,which provides better quality of audio and able to support more radio channels, has added value to radio service and improves efficiency of spectrum usage.</li> <li>VHF Band III which is suitable for DAB+ technology will be vacant in the near future, enabling the country to utilize this spectrum for digital radio service.</li> <li>DAB+ technology enables radio to provide both voice and data service.</li> </ul>	<ul> <li>Radio broadcast providers may opt to Over-the-Top (OTT) services that can deliver contents in the form of image and voice to their targets through Streaming Technology over internet broadband network.</li> <li>Consumers can choose to listening to radio / music services through many available platform such as Internet Radio, Music Streaming, Podcast etc. and these can be seen as substitute services for radio service among the consumers.</li> </ul>





Master plan, development plan, international case studies, guidelines, and related insights are considered for the draft of radio broadcast development direction.





Radio development direction has 6 policies: technology, spectrum management, spectrum licensing, service licensing, digital radio trial and radio service promotion





NBTC

Digital radio service trial will begin at the national level before going further to local level by considering the desire to use digital radio and readiness of local people.







Model of national and local network trial will include the number of MUX and numbers of trial areas. Operators must follow criteria and rules imposed by NBTC.





NBTC

National and local trial for digital radio broadcast transmission will be ended when there is sufficient network coverage and number of audiences or up to 5 years.







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1 Radio Development Plan and Digital Switch On

## 2 Regulatory Impact Assessment





Enforcement of the draft of radio broadcasting development plan will have an impact on economy and radio business, operators, regulator and consumers.





NBTC

The enforcement of the draft of radio broadcasting development plan has positive impact in the form of monetize value and non-monetize value.

Positive Impact





The enforcement of the draft of radio broadcasting development plan has negative impact in the form of monetize value and non-monetize value.

	Monetize	Non-monetize
Negative Impact	<ul> <li>National and local channel providers are required to invest around 930,000 Baht per channel within the 15-year timeframe.</li> <li>Network and facility providers have to put relatively high investment. Based on initial assessment, it is predicted that investment cost will be around 3,906 million Baht in order to reach coverage of 80% of populations.</li> <li>Audiences need to bear the cost of digital radio receiver between 600 – 2,990 Baht.</li> <li>Negative Net Present Value (NPV) of broadcasting industry.</li> </ul>	<ul> <li>Network operators face with risk from high investment cost while there is no guarantee for numbers of digital radio audiences and amount of revenues gained.</li> <li>Existing radio operators may experience the decrease in revenues due to an increasing radio channels in digital radio service.</li> <li>Regulator has to find the measurement to support and push for the efficient digital radio service.</li> <li>In the initial stage of digital radio broadcast service in Thailand, there could be small numbers of people who are expertise in digital radio service.</li> </ul>



Increasing numbers of broadband infrastructure, streaming technology, and online radio service have impact on consumer behavior and radio broadcasting business.







Economic impact may result in negative NPV of broadcasting industry, this requires government subsidies for initial support.

### Economic Impact and Policy Options

Subsidies on network rental fee for digital radio channel providers in the first 4 years will be a mechanism to support both radio service providers and network providers since the subsidies obtained by digital radio service providers will become a guarantee revenues for network providers. In addition, the subsidy on digital radio receiver production will accelerate the access of digital radio service.

#### Subsidies amount to be provided by government/ regulator is approximately <u>1 Billion Baht for the first 4 years.</u>

	Base Case		Subsidies Case
PV of radio industry -260 Million		n Baht 13 Million Baht	
Policy Option 1		Policy Option 2	
Subsidize supply and demand sides, and no restriction on contents' diversity		Subsidize supply and demand sides, and impose mechanism of creating radio contents' diversity	
<ul> <li>People will receive news and information in the traditional pattern which will make them unable to see the value of digital radio service.</li> </ul>		<ul> <li>People can improve quality of life from receiving diversity news and information.</li> <li>Audiences can access to digital radio channels that fit the interest.</li> <li>People can enhance their thoughts and widen their point views.</li> </ul>	

