

Digitalization roadmap of VOV

VOV's dicussion on Digital Radio Technologies

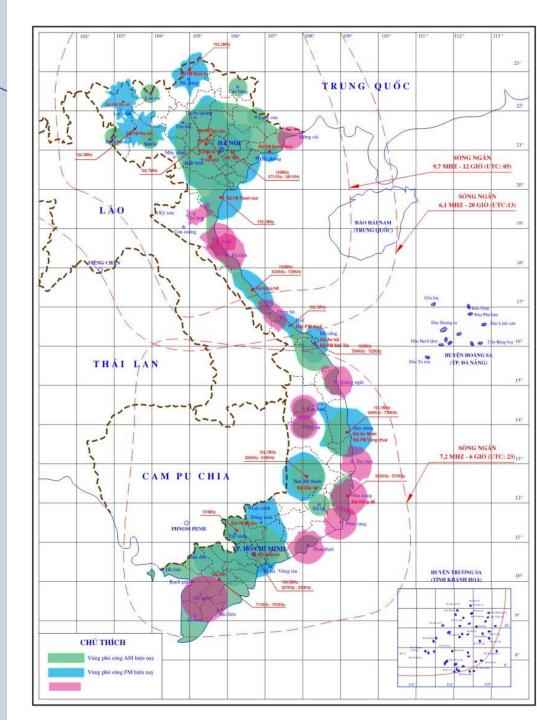
Hanoi, 2013

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VOV: the way of changing to digital

- VOV in brief
- VOV The way of changing to digital



VOV in brief (1945 - today)



- Total number of staff: 2300
- Producers and reporter: 700
- Daily broadcasting hours: ~ 200
- Number of studios: 70
- Number of transmitting stations: >50

(FM stations: 32)

Total transmitting capacity: 6732KW



LISTENER

SW,AM, Satelite FM radios

VOVTV channel

VOV Newspaper





VOV Internet (online)

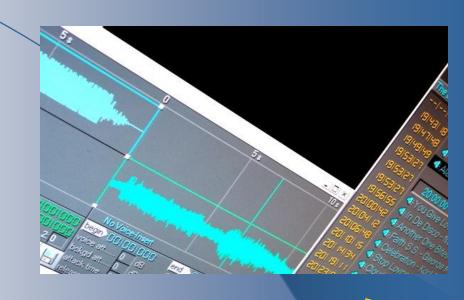




Digitalization of audio productions

X-Track (5 workstations) – FM 100Mhz

D-Cart Basys 14 pc, 7 workstations



1994

1996

2003

2005

2008 - today



Dalet 5.1e VOV1 – VOV2 – VOV3

dalet ...
Digital Media Systems

Netia System VOV5

Digitalization of audio archive (2008 -) and expanding – new broadcasting house, studios, applying new technology, IT network...vv

Developing transmission over satelite



Digital television of VOV over DTH satelite (Ku band)

1994 - 1996

1998

2002

2006

2009 - today

Intersputnik
satelite (Russia)
Comstreams
system
(America)
(C-standard

band)

THAICOM 3 satelite

THAICOM 5 satelite

VINASAT-1
Viet Nam
satelite
(C-Extended
band)

Applying multimedia technology

Applying informatic and communication in 4 kinds of broadcasting

- ➤ Internet Radio and handmobile radio.
- > Radio
- VOVTV channel
- VOV newspaper









Trial digital radio standards









Trial DAB+ in Ha noi



2009

Trial AM – FM HD-Radio in Metri, Hanoi in 2008 - 2009.

Trial DRM Medium Wav Reception tests in Dong Hoi, Vietnam on July 2005.

Researching on digital audio carefully, with 3 projects (one national project) from 1998 – 2005.



2005

1998

VOV – Unify communication

Digital radio

Digital standards (DAB, DAB+, DRM, HD-Radio, DMB...)

Satelite

WorldSpace XM Radio DVB-S Global Radio?

Cable

DVB DAB

Telecomunication

Internet

IP tunneling
Live streaming
Media File Transfer

GSM GPRS 3G, 4G

VOV – Technical conditions

Now:

- Producing programes
- Transmitting and broadcasting
- Receivers
- Website

Others

- Mostly digitalized, digital archive, data exchanging network...
- >Infrastructure analog,satelite
- Mostly analog receivers.
- Developing VOV Websites, special radiovietnam.vn and services on tablet, mobile....
- **► VOVTV** channel, VOVas...

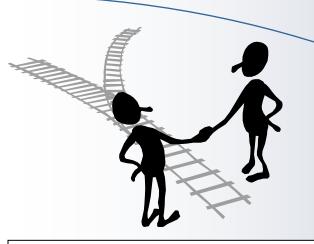
The issues of VOV today

- Broadcasting machine system is big, technology keeps pace with countries in the same area and the world.
- VOV's engineers has good ability to approach new technology.
- The Vietnamese government always support and have an interest in development of radio.
- Viet Nam's the complex and multiform terrain (deltas, mountains, sea and islands). It raise difficulties to choose a suitable and effect technology.
- Standard of living isn't high. Source of finance, investment aren't met.

VOV – Target and Planning

- -Developing and expanding radio in domestic and foreign through 4 broadcasting models: radio, television, newspaper and online (Internet and mobile).
- Expanding coverage in remote areas, developing new services on radio (FM). Expanding coverage in East sea (2009 today)
- --EVOV have researched carefully a few standards and new broadcasting models since 2000: DAB, DAB+, DRM, HD-Radio, DMB, satelite ...vv. But depend on real conditions in Viet Nam, we are going to choose the official standard in the near future.

Cooperation and assistance from other broadcasting organization and stations: DW, NHK, ABU, WorldDMB .etc..



Thank you!

