Presentation 2



ISDB-T, the Future of Digital Television in the Philippines

ISDB-T Applications

27th February, 2008 Manila, Philippines DiBEG JAPAN Yoshiki MARUYAMA TV Asahi





Contents

Introduction of Applications - HDTV Data broadcasting Interactive internet contents **EPG** One-Seg service Mobile HD



Powerful applications

HDTV



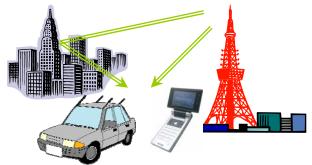
• High quality image on wide screen and CD quality sound.

Data broadcasting



• Local news and weather forecast for viewers at any time.

Mobile Reception



• Transmission service to Mobile accesses

Multi-channel program

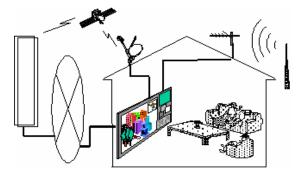






• Standard quality multi-channel service

Interactive TV



Offers Interactive service

HDTV(1)



High Definition Television Program

- The high quality images on a 16x9 wide screen and CD-quality sound make you feel as if you were at the theater.
- HDTV is most powerful killer application, therefore HDTV is thought to be the most effective way to promote DTTB to the home.

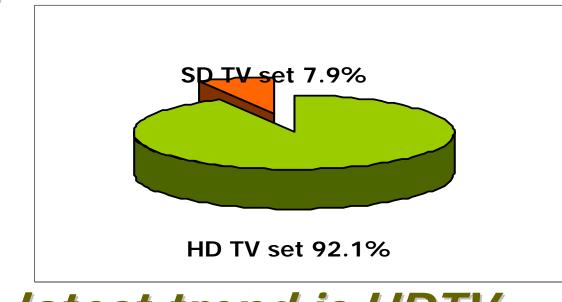




HDTV (2)

■*More than 92% of LC TV sets are 16x9 wide panel.*

According to JEITA data of 2007 Domestic Shipments of Major Consumer Electronic Equipment



□ The latest trend is HDTV.



HDTV (3)

TV program such as 2008 Beijing Olympic game, 2010 World Cup South Africa will be sent with HD program to all over the world.
Are you fully satisfied with only SD TV programs despite you have full HD TV set ?





Multi channel programs

□ ISDB-T can transmit multiple SD programs up to eight simultaneously within a single digital spectrum.





Data broadcasting (1)

Data broadcasting is an additional service.

By clicking on-screen d-button with a remote control unit, you can access and draw out your favorite information such as local weather forecast, 24H news and information linked to on-air program.





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Local weather forecast

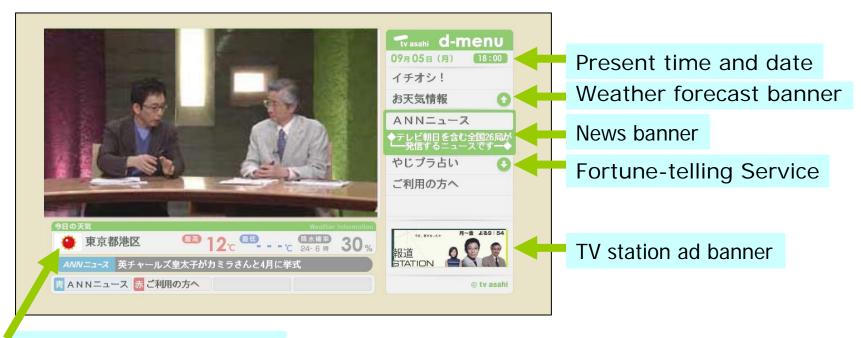
Local news

Program-linked information



Data broadcasting (2)

Basic page format



Local weather information



Data broadcasting (3)

DProgram-linked data contents









Data broadcasting (4)

Non-linked contents





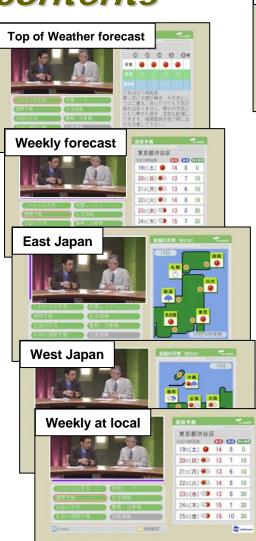


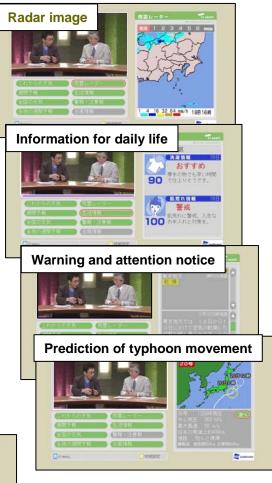


Data broadcasting (5)

Weather forecast contents









EPG

DEPG provides a lot of program *information, and you can book recording programs with remote control unit easily.*







DInteractive Shopping Contents



The button to connect to the internet contents

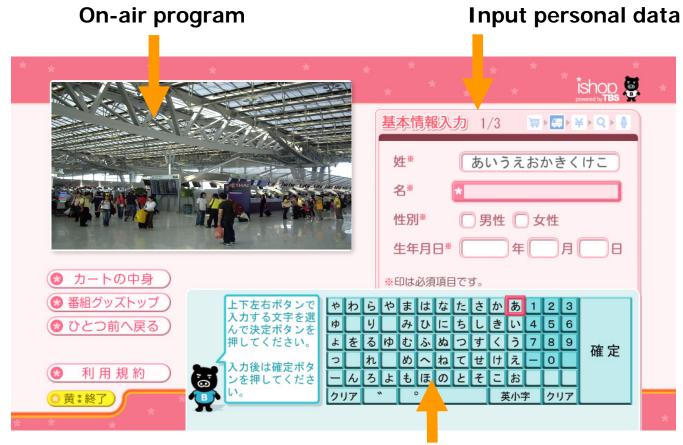
Interactive internet contents(2)

DInteractive Shopping Contents





DYou can buy goods directly!!

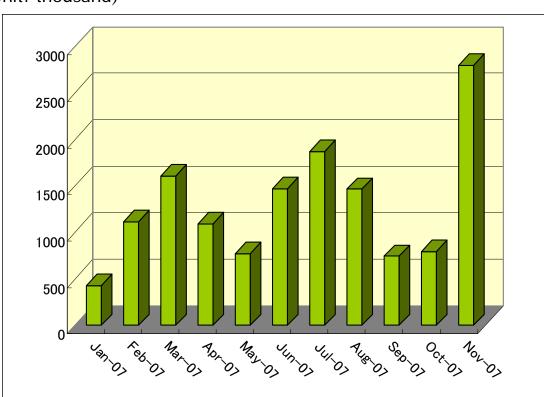


Software Keyboard



One-Seg Service (1)

More than 17 million one-Seg Mobile phones were shipped in the Japan market according to JEITA statistics of Feb.2008.



(Unit: thousand)

tv asahi

One-Seg Service (2)

The One-Seg service is transmitting moving images to cell phones, car TVs, personal computers etc , so that you can enjoy One-Seg programs anytime anywhere.

D*Merits*

- ✓ Stable reception in a mobile environment.
- ✓ High quality video & audio in a mobile environment.
- ✓ *Robustness against noise and multi-pass.*

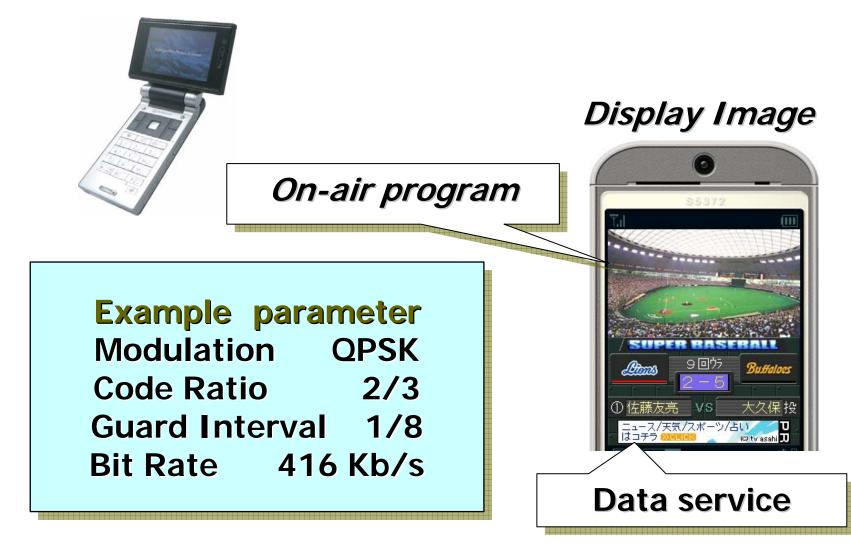


One-Seg Service (3)



Video (H.264)
approx. 180-256kbps
Audio (AAC-SBR)
approx. 32-64kbps
Data-cast (BML)
approx. 20-80kbps

One-Seg Service (4)





One-Seg Service (5)



No subscription fee and *Powerful terrestrial television contents*

Unique & Unparalleled Feature in the world !



One-Seg service (6)

Example of business model

Additional information service

The service can show additional information linked to on-air programs such as information on athletes and celebrities, recipes, questionnaire and quiz.

DTV shopping

The service enables viewers to purchase commercial goods shown on shopping program.

Local service

The service can provide local information such as emergency alerts, local events, notice from local government or hospital.



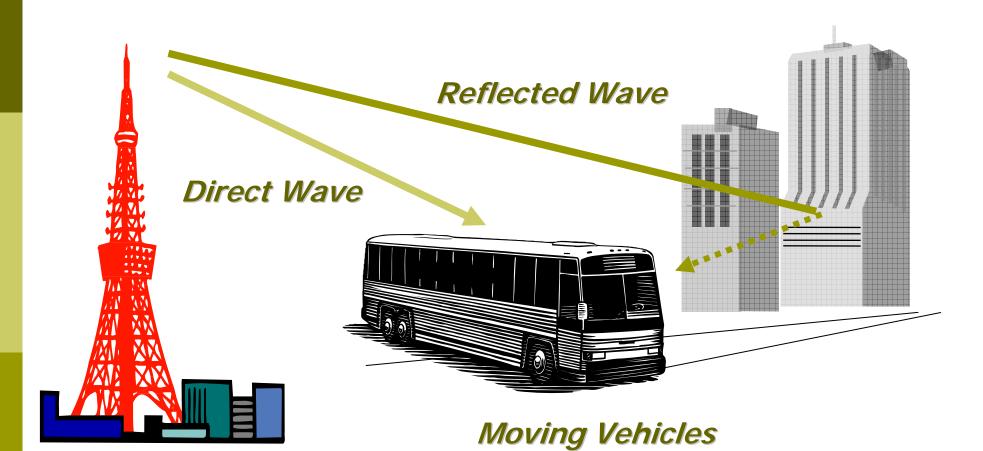
One-Seg service (7)

One-seg receiver









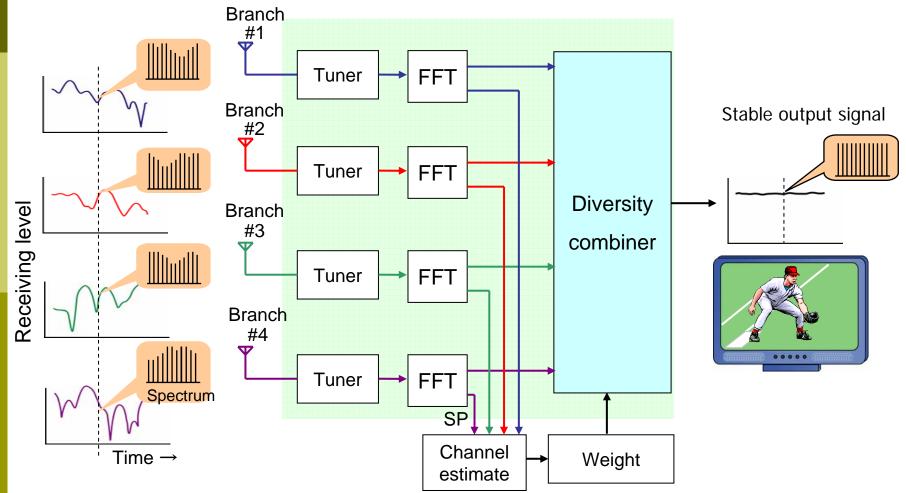
HDTV can be watched even in a moving vehicle by using space diversity technology.



Mobile HD(2)

Diversity reception system

Maximal Ratio Combining with carrier by carrier of OFDM signal







Comparison between Digital and Analog

Comparison experiment between digital and analog TV on a mobile environment.





Mobile HD(4)

Mobile HD receivers

HDTV tuner for automobiles is now on sale.



ISDB-T TV tuner for automobiles



LCD for automobiles

High quality image wide-LCD panel. Faithful reproduction of DVD and digital terrestrial television broadcasting image



Mobile HD(5)

Mobile HD Receivers







ISDB-T is filled with leading-edge technologies to make your dreams come true !



ISDB-T, the Future of Digital Television in the Philippines



Thank you for your attention !

END

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