38th EPRA meeting, Vilnius, October 2013

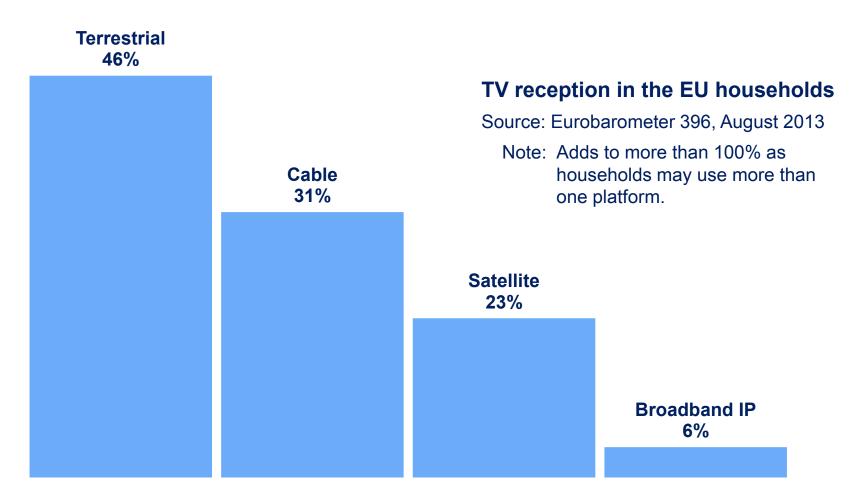
The 700 MHz Band

Impact of the UHF spectrum reallocation on TV markets in Europe

Darko Ratkaj

European Broadcasting Union

FOUR WAYS TO RECEIVE TV SERVICES



The mix of TV platforms is different in different countries.



EBU VIEWS ON TERRESTRIAL BROADCASTING

EBU - Recommendation R 131



Terrestrial Broadcasting in Europe

Technical Report 013

The Future of Terrestrial Broadcasting

tech.ebu.ch





KEY FEATURES OF THE TERRESTRIAL PLATFORM

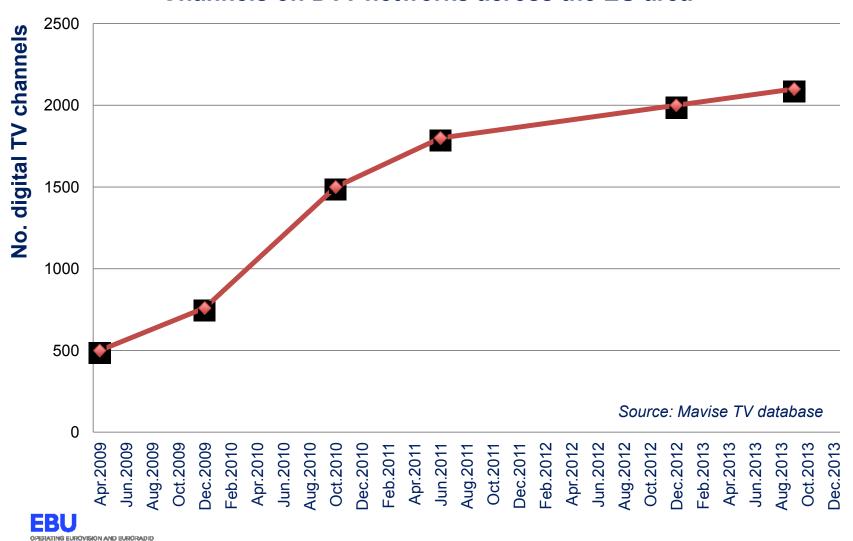


- No other delivery platform combines all these features to the same degree as the digital terrestrial TV.
- DTT is the key platform to deliver the public value in Europe.
- These benefits shall be preserved.



MARKET DEMAND FOR DTT

Channels on DTT networks across the EU area

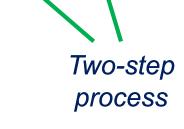


Why is the 700 MHz important?



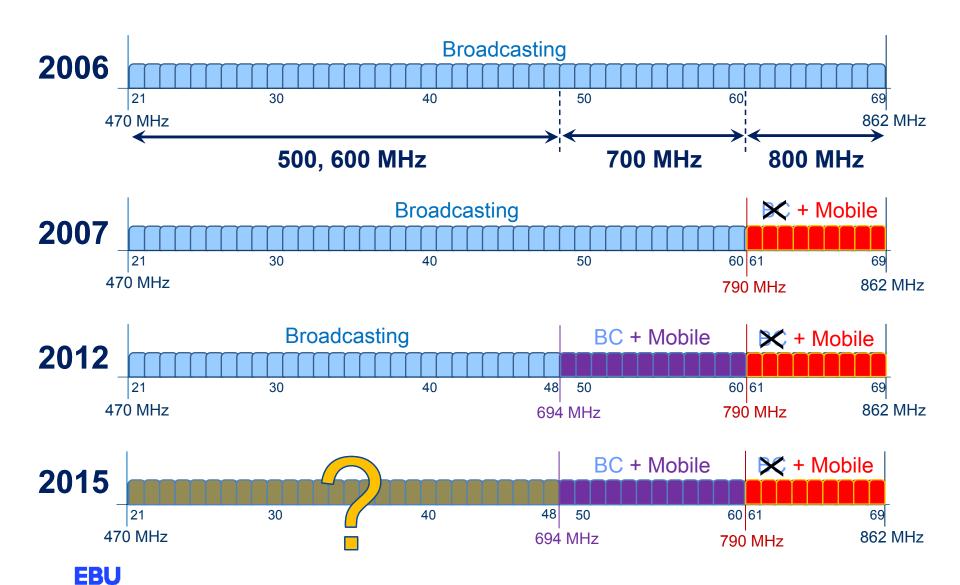
ON SPECTRUM MANAGEMENT

- Spectrum allocations are a result of international negotiations (e.g. within the ITU and the CEPT)
 - Frequency bands are divided amongst different radio communication services (e.g. broadcasting, mobile, aeronautical, satellite, ...)
- The actual use of the spectrum is decided nationally
 - It must be in accordance with the allocations in a given frequency band
 - In some cases bilateral coordination is required before the frequencies can be assigned to users
- Harmonisation of the spectrum use is beneficial
 - easier coordination and cross- border operation
 - easier interference management
 - economies of scale
 - ...





THE UHF BAND ALLOCATIONS



OPERATING EUROVISION AND EURORADID

THE IMPACT OF THE LOSS OF THE 700 MHZ BAND ON TERRESTRIAL BROADCASTING

Direct impact:

- Transitional issues to free the band from DTT
 - costs for broadcasters and the viewers
 - risk of disruption of services
- Loss of 30% of the bandwidth capacity
 (43% if the 800 MHz band is taken into account)
 - reduced platform capacity
 - reduced scope for future development

Indirect impact:

- Weakened DTT platform; less competition
- Negative signal about the future of DTT
 - lack of certainty for future investments
 - no innovation; risk of decline, end of DTT
 - loss of the only free-to-air platform with potentially universal reach

None of this is in the interest of the European audiovisual industry or the consumers!

Not the same in all countries!



RECOMMENDED APPROACH TO DECIDE ON THE 700 MHz BAND

- De-couple the decision on the use of the 700 MHz band in Europe from the ITU process leading to mobile allocation
- Scrutinise the mobile spectrum requirements before considering any additional spectrum allocation
 - Verify the assumptions about future demand; the forecast methodology
 - How much traffic growth is economically viable?
 - The use of the already allocated spectrum
- Cost / benefit analysis to be done before taking a decision
 - Overall social and economic impact of the change
 - Incremental benefits of using the 700 MHz band for mobile services
- Take the necessary time to prepare the decision, there is no real urgency
 - Mobile industry is busy deploying networks in the 800 MHz band
 - Lack of demonstrated market demand for more UHF spectrum
 - There are number of other ways to increase network capacity without additional UHF spectrum



DECISIONS ON THE UHF SPECTRUM

Should ...

- be made in the interest of European citizens,
- respond to the specific national circumstances and needs which may be different in different countries
- enhance the benefits delivered by terrestrial broadcasting including the universal availability and free-to-air access to services
- be based on a sound cost / benefit analysis, taking into account the social and economic impact of any proposed change
- promote the national and European audiovisual policies as well as other policies (e.g. efficient use of the spectrum, public safety, broadband targets, ...)
- respect the investments made by the European broadcasting industry, including public service media and the public
- provide a stable regulatory environment and long-term certainty for investments and innovation



IN THE EVENT OF RE-ALLOCATION OF THE 700 MHz BAND TO MOBILE

Ensure ...

- a planned and well managed transition process
- realistic time frame for freeing the band from DTT transmissions
- recovery of the costs incurred by broadcasters and the viewers
- replacement capacity for the affected DTT services
- replacement capacity for the affected PMSE services (e.g. wireless microphones currently operating in the band)
- protection of DTT and PMSE services below the 700 MHz band from the mobile interference
- long-term availability of the remaining part of the UHF spectrum for broadcasting services to facilitate future development
- continuation of free-to-air TV services
- access to the new mobile broadband platform for public service media



THANK YOU FOR YOUR ATTENTION!

QUESTIONS?

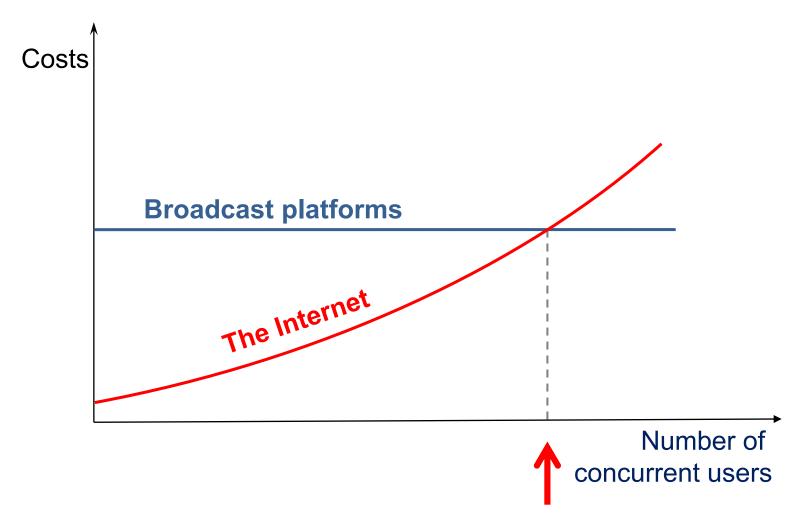
Darko Ratkaj ratkaj@ebu.ch



Additional information

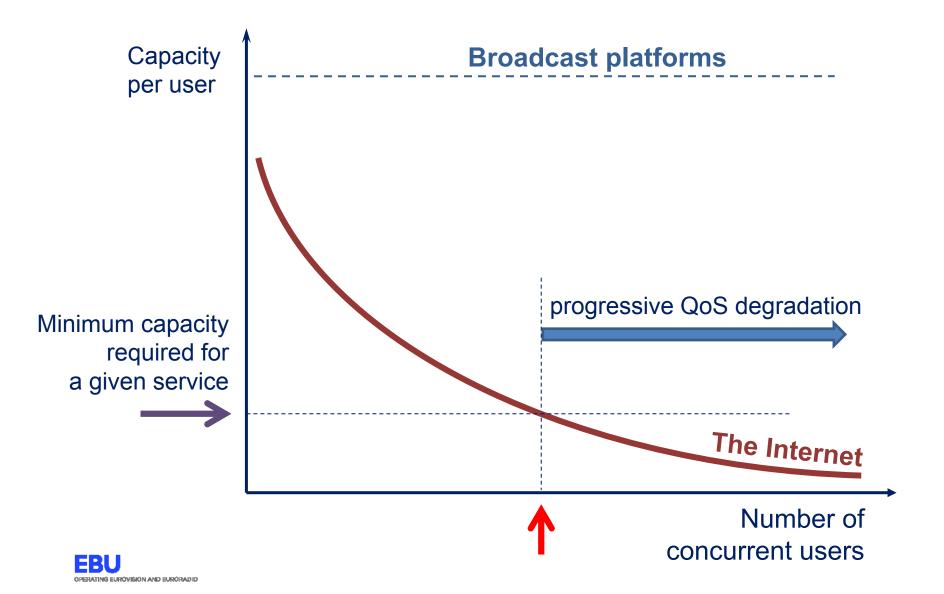


Costs of distribution of media services

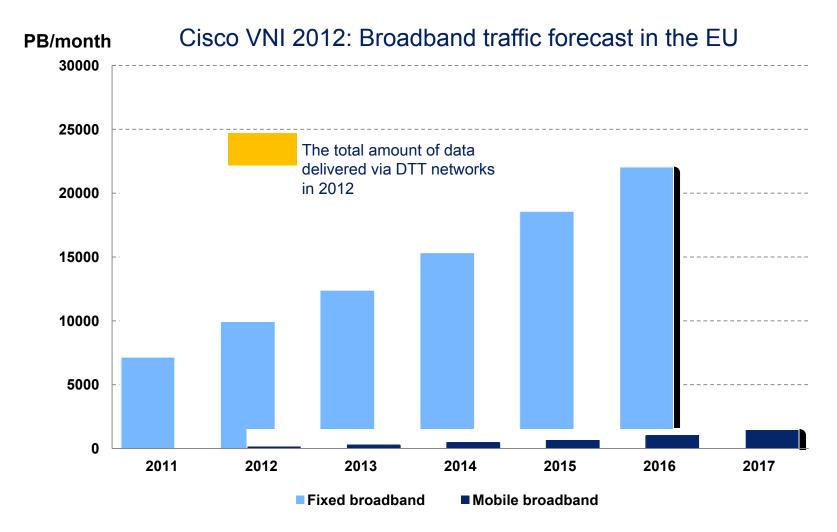




Capacity available to individual users

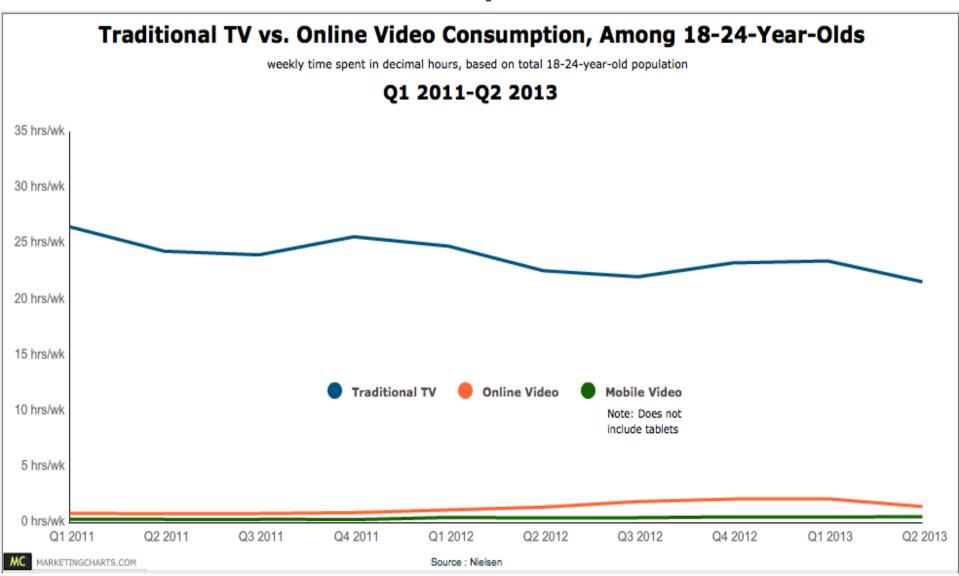


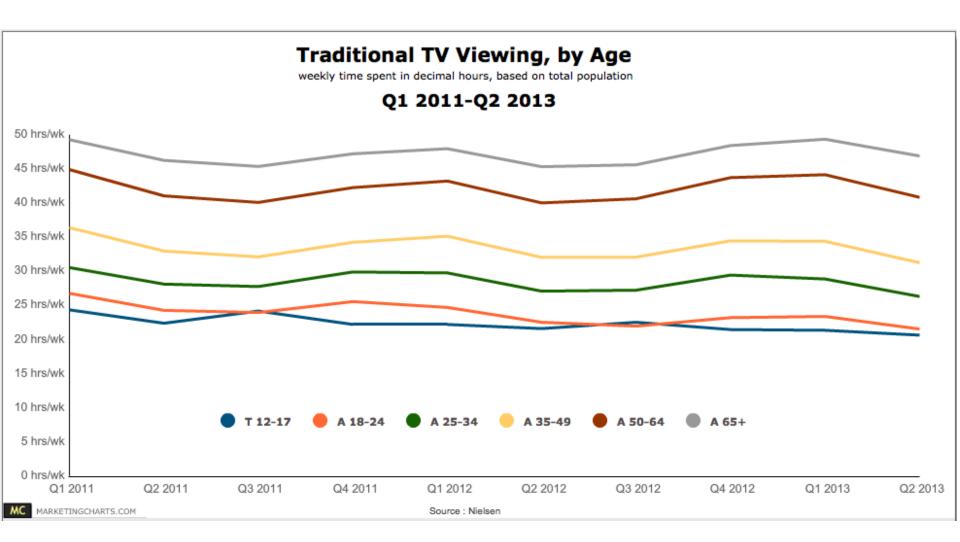
Data volumes delivered via DTT compared to the Internet.





How much video content is delivered over broadcast networks compared to the Internet?



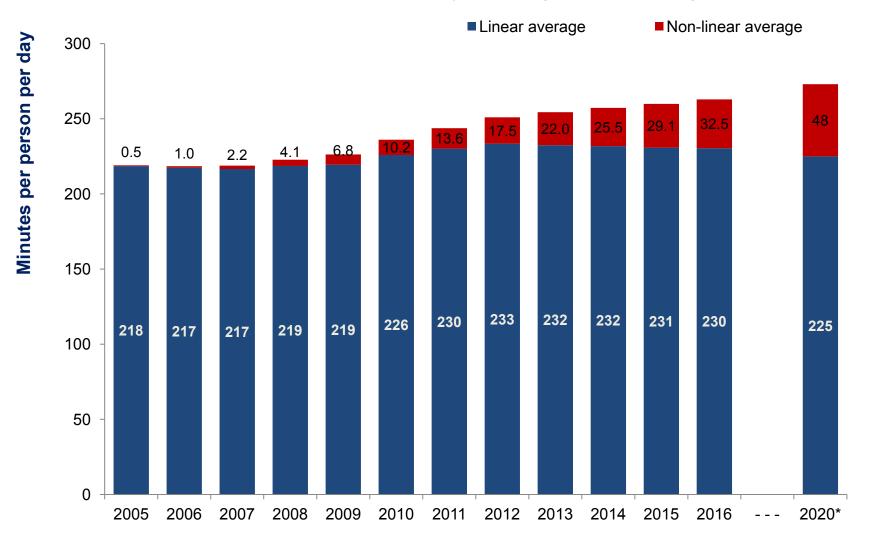


http://www.marketingcharts.com/wp/television/are-young-people-watching-less-tv-24817/



Evolution of linear and non-linear TV viewing

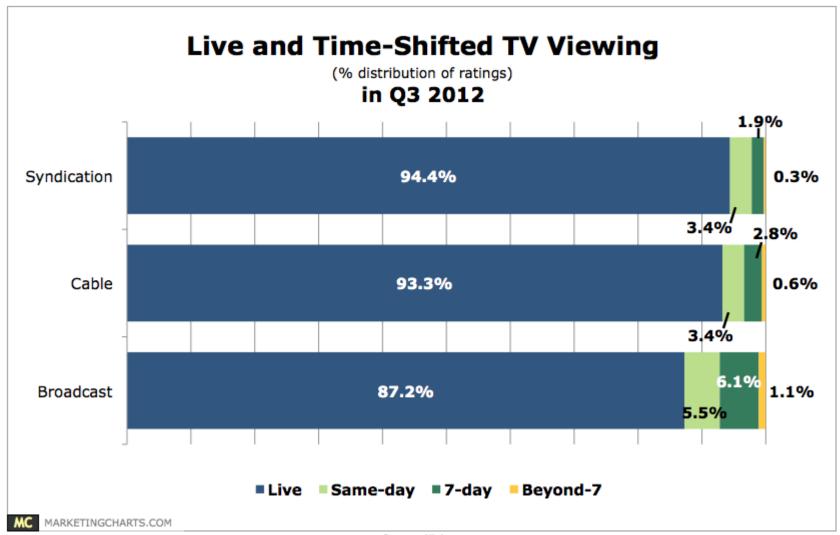
Minutes per person per day – Average in the EU 'Big 5'





Source: IHS – ScreenDigest: Cross-platform Television Viewing Time FY 2012

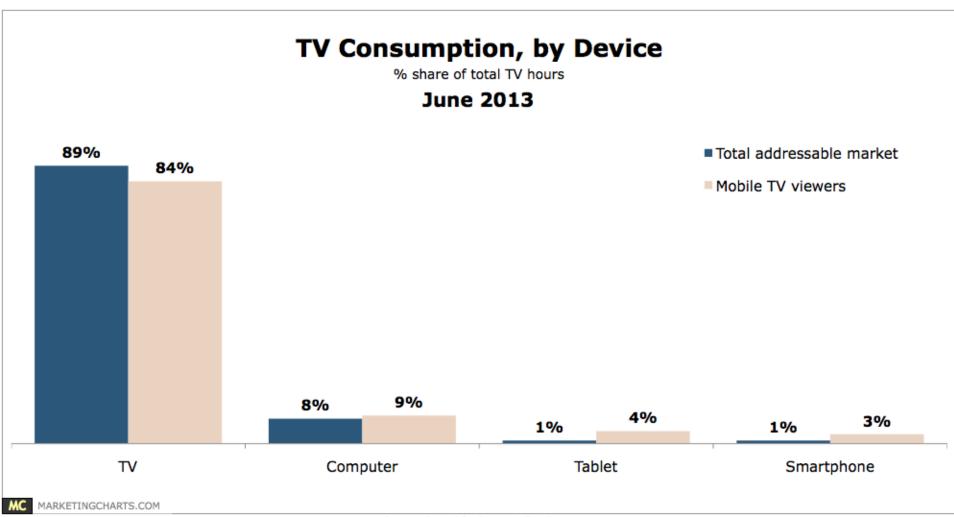
Note: Forecast from 2012 / * 2020 forecast by EBU



Source: Nielsen

http://www.marketingcharts.com/wp/television/how-much-tv-is-being-time-shifted-26229/



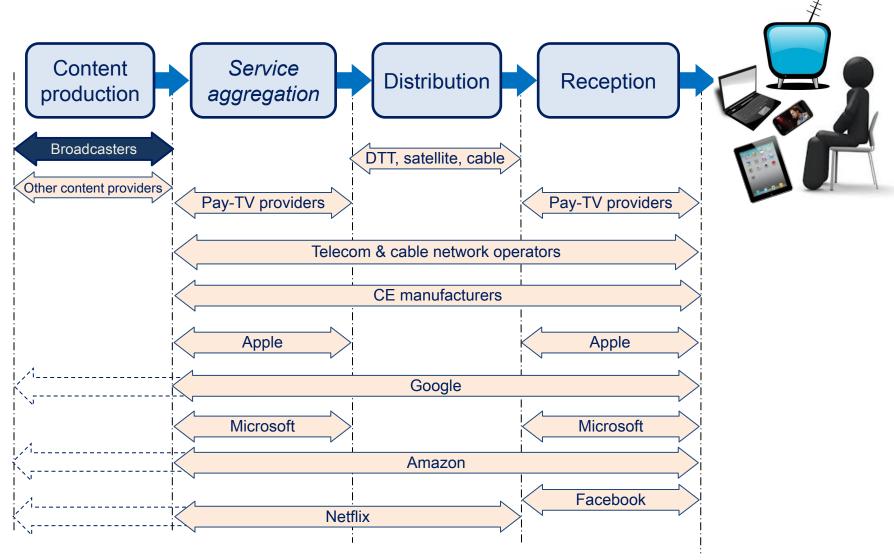


Source: Council for Research Excellence

http://www.marketingcharts.com/wp/television/mobile-viewing-remains-a-fraction-of-total-tv-hours-30058/



COMPETITION IN THE TV MARKET





Key features of digital terrestrial TV (1)

- Availability
 - near-universal coverage (98+ % of the population)
 - most of the households equipped to receive terrestrially
 - most of the TV receivers come with a DTT tuner
- Free-to-air
 - no additional charges for the viewers
 - no gate keeping
- Flexibility
 - any reception mode (fixed, portable, mobile)
 - coverage can be adjusted as needed (national, regional, local)
 - various business models (free-to-air, pay-TV)
 - flexible use of the available capacity in a multiplex
 - supports a range of services
- Cost efficient
 - total delivery costs (for broadcasters) for all FTA channels in the order of a few € / month per household

Key features of digital terrestrial TV (2)

- Predictable and guaranteed quality of service
 - continuously to all viewers, irrespective of their number
 - end-to-end
 - across the whole coverage area
 - optimised for the deliver to very large audiences
- Successful
 - the fastest growing digital broadcasting platform
 - widely supported by manufacturers, network operators, broadcasters, regulators and the public
 - about 46% of the EU population receives terrestrial TV
- Potential for development
 - new technologies
 - new services
 - new markets



Questions for the regulators

How important is DTT in your country?

- penetration how many households are receiving terrestrially
- market potential how much content is needed for a viable DTT

Public value of DTT

- is there awareness amongst decision makers
- how is the pubic value protected and promoted

National audiovisual media policy

- is there a commitment to public service broadcasting
- which infrastructure will support the public policy objectives
- what is the development roadmap for this infrastructure

Are there any alternatives to DTT

- can they deliver the same benefits
- when will they be available
- at what costs
- how to migrate the audiences

These questions must be raised and answered before any decisions on the radio spectrum are taken!

