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Economic aspects 1



- Broadcasting chain is unique at every level.
 - Its concept, architecture and deployment differs to such an extent that it is extremely unlikely to spot "twin" arrangements.
- There are no identical
 - TV production centres, contribution/ distribution networks, and multiplexes/transmission networks.
- The variations of technology options and solutions
 - are such that every component of the broadcasting chain may have its own specific design, specifications and cost.
- Price information has been always of confidential nature
 - and contracts are signed based on tedious negotiations.
 Discounts could be granted for large scale delivery, established long-term business relations, etc.

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Economic aspects 2



- Planning, warranty, installation and testing, staff training
 - and after sales service clauses will have an impact on the total of every contract signed. Even if cost information available, it will be of value in a concrete context.
- Difficult to provide answer to the cost implication issues.
- Information on
 - business models, cost and funding, evaluation of risk factors, analysis of cost/benefit issues,
 - might be provided by actual case studies yet to be carried out by the BDT while assisting ITU members in the transition to digital terrestrial broadcasting.
- Availability of such country case studies
 - may be very useful in order to assess the cost incurred and analyze the cost benefits versus risks.

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Digital Switchover cost impact



- · Digital switchover will affect almost all households
 - and entail compulsory costs for consumers.
 - It also entails costs for non-domestic users of television services.
- This may include the cost of upgrading
 - community TV reception antenna systems that are used in blocks of flats
 - hotels and in residential care and nursing homes.
- For the broadcasters and multiplex operators
 - there are capital investment costs incurred for deployment of the digital network
 - any associated costs for implementing digital switchover as stipulated in their broadcasting licenses.
- Commercial services broadcasters will also have to develop strategies
 - to deal with the negative impact on their revenues by the extended choice and access to multi-programme services.

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ASO key costs categories

- 1. Migrating viewers [++++]
- 2. Transmitter network changes [+]
- 3. Re-farming & compensations [++]
- 4. Simulcasting (if applicable) [+++]
- 5. ASO Management [+]
- 6. Certification & labeling [+]
- 7. Resolving interference [+]

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Cost for consumers 1



- · When digital switchover takes place
 - all households that wish to continue to receive television services and who have not yet switched to digital television will need to obtain at least a STB.
- Currently STBs to receive DTTV services are available between 20-70 USD.
 - The price may be expected to fall further by switchover.
 - However, in addition to the cost of STB/receivers, consumers who opt for DTTV may also face other costs.
- Households with second or additional sets will need to obtain equipment to adapt all television sets they wish to use after switchover
 - If they do not opt for an integrated digital television (with an in-built digital tuner) the costs will include a STB.
 - Costs may also include supplementary cables for VCRs and new indoor aerials:
- Households with video-recorders may require purchase of additional SCART cables.

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Cost for consumers 2



• Households with video-recorders

 who wish to record a different television channel to the one to which their television is tuned will need to replace their video recorder (or buy an additional STB to adapt the video recorder).

Households who opt for DTTV (for first or subsequent sets)

- may have to upgrade aerials for digital switchover.

. The costs of a new outdoor aerial

- can vary depending on what needs to be done and regional variations
- the range may be from 150 to 600 USD.

· Households in blocks of flats

 may be required to pay additional service charges to meet the costs of upgrading the system for digital reception.

· In the period up to and after the start of switch-over

- the price of DTTV equipment is assumed to fall due to the large scale sales as the country begins to implement plans for digital switchover
- the increased demand for digital television also may open the way for cheaper access to basic services on satellite and cable.

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Non-domestic users cost



• A large number of businesses

- make use of television broadcasting via analogue networks.
- in order to continue receiving television services after the switchover, reception equipment and relevant systems will need to be upgraded.
- in some cases equipment will need to be replaced ahead of its normal replacement cycle.

• Community TV antenna systems

- replace the need for individual aerials which may be less effective due to the location and position of the building.
- The costs of updating communal TV systems for digital television services will vary depending on
 - the type of building,
 - its location and
 - whether the landlord and residents opt to upgrade the system for DTTV only or
 - whether they wish to invest in a new system that is capable of providing satellite or cable delivery.
- For systems being in good condition the cost varies between 1200 2000 USD per system.

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Cost for Public Service Broadcasters



- The process of achieving digital switchover will have a number of implications for public service broadcasters:
 - they will need to contract (as multiplex operators or indirectly via other multiplex operators) the transmission network companies
 - to deploy and configure the DTTV network and
 - to increase DTTV coverage with multiplexes carrying public service channels so that the coverage matches existing analogue coverage;
 - digital take up may strongly affect their future advertising revenue.

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Cost/benefit analysis



- Cost/benefit analysis is to be carried out
 - separately for each (developing) country taking into account its
 - infrastructural, economic, social, demographical, technological and other aspects and on the basis of relevant databases
- Furthermore some common approaches
 - may be used and applied,
 - which could be of interest to the cost/benefit analysis specialists from the national administrations and relevant stake-holders.

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Business Models & Public Financing



- Key financing principle:
 - PBS: Government
 - Commercial Broadcasters: market
- Three PBS models:
 - Government PSB + defined services + fully public funded (UK-BBC)
 - Government PSB + defined services + public funding & ads (NL-NOS)
 - Commercial broadcaster + PSB obligation (+spectrum rights) + partial public funding (FR-TF1, S-TV2, UK-ITV)

PBS Funding Sources

- General Taxes & TV license
- Levies to licensed operators
- Public Tenders, Auctions
- Third parties (ITU, NGOs)
- Public Private Partnerships
- Financing of STBs
- Financing FTA stipulationsFinancing Simulcasting

