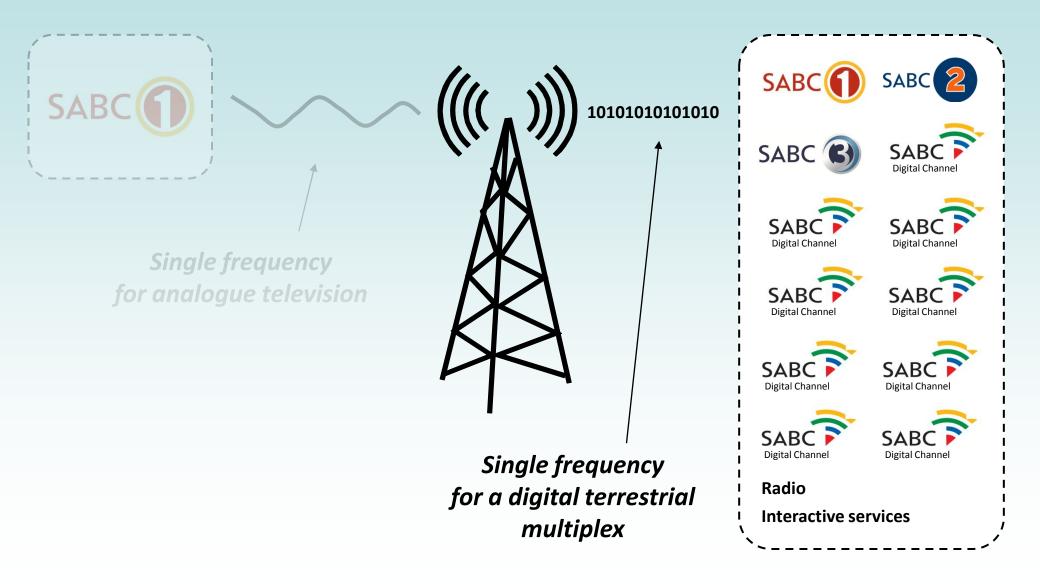
# Delivering a successful migration to digital TV

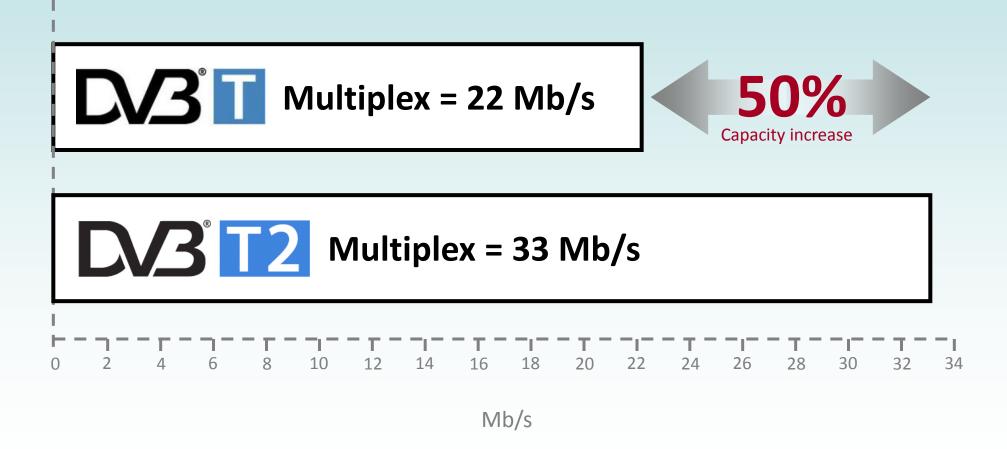
#### **Richard Waghorn, SABC** 6 October 2011



# **Difference between analogue TV and DTT**

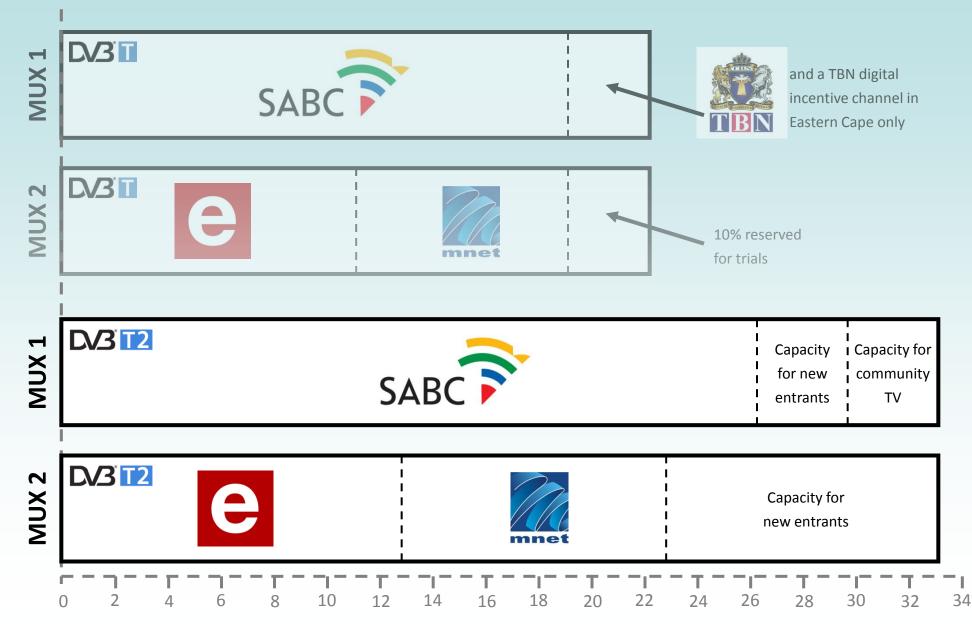


#### **Difference between DVB-T and DVB-T2**



Capacity allocations are to the nearest full Mb/s and multiplex capacity depends on final transmission parameters adopted

# **Difference in existing and proposed Regulations**



### The advantages of DTT

- Consumers can adapt their existing TV just buy a set top box (otherwise known as a decoder) and plug into existing TV
- Households living close to the transmitter should be able to receive DTT on a bunny ears aerial, though some households will need to upgrade existing aerials
- DTT provides capacity for more channels in both Standard Definition and High definition
- Clearer picture (you either get it or you don't) and better audio
- Clearer subtitles, and audio description
- Interactive services and radio on DTT





- Every household within DTT coverage will be able to receive ALL the SABC's television and radio services that are provided on the DTT platform
- That includes:
  - 17 proposed television channels, including SABC
    1, SABC 2 and SABC 3
  - 18 SABC radio stations plus Channel Africa





- Sentech is building out the transmitter network and the coverage of Multiplex 1 is expected to reach 74% population coverage by Apr-12, 84% by Apr-13 and 92% by Dec-13 (broadly replicating current analogue SABC 2 coverage)
- However, ICASA's proposed DTT Regulations set a target of 80% by end of 2012 and 95% by the end of 2013
- With DTT, coverage of television services will be equalised and the footprint for most of the radio stations will be increased beyond current FM coverage



- The SABC has developed a television channel line-up which includes the following channels:
  - Health channel will feature a wide range of health and lifestyle topics including diet, exercise and disease prevention and news on the latest health breakthroughs
  - Education and SMME channel will provide accessible, practical formal and informal education and information to all South Africans through live interactive formats, talk, magazine, documentary and curriculum based education
  - Children's channel will provide content segmented into defined age categories with an investment emphasis on early child development and pre-school children



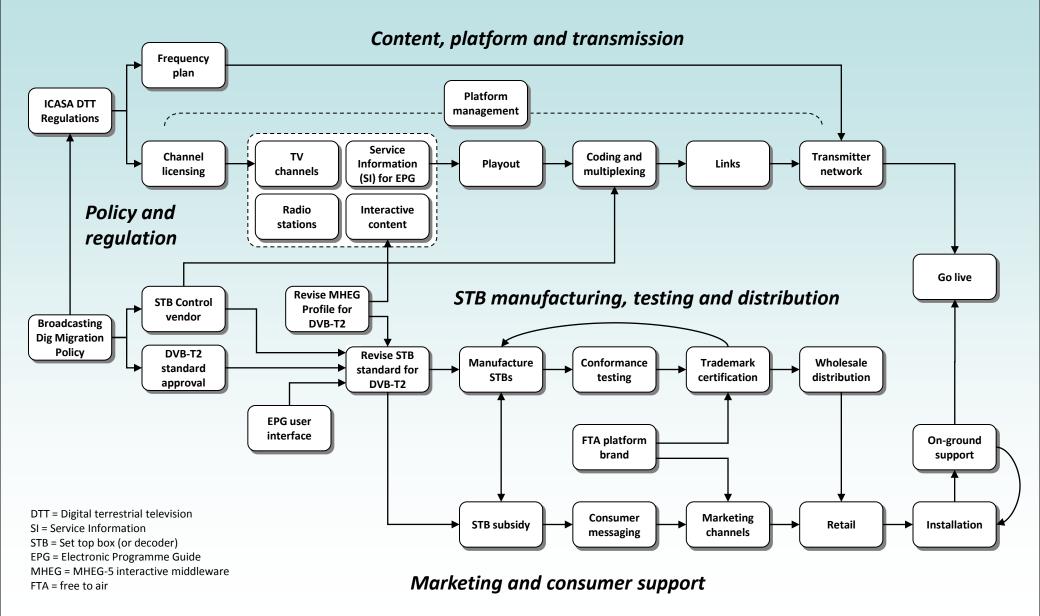
- The SABC has developed a television channel line-up which includes the following channels :
  - News channel a 24 hour news channel in all official languages featuring live news, news bulletins, feature and discussion programmes and parliamentary coverage
  - Regional North channel (available to all households within DTT coverage) content designed to meet the language needs of SesSotho, SePedi, SeTswana, TshiVenda, XiTsonga, Afrikaans
  - Regional South channel (available to all households within DTT coverage) content designed to meet the language needs of IsiXhosa, IsiZulu, Ndebele, Seswati



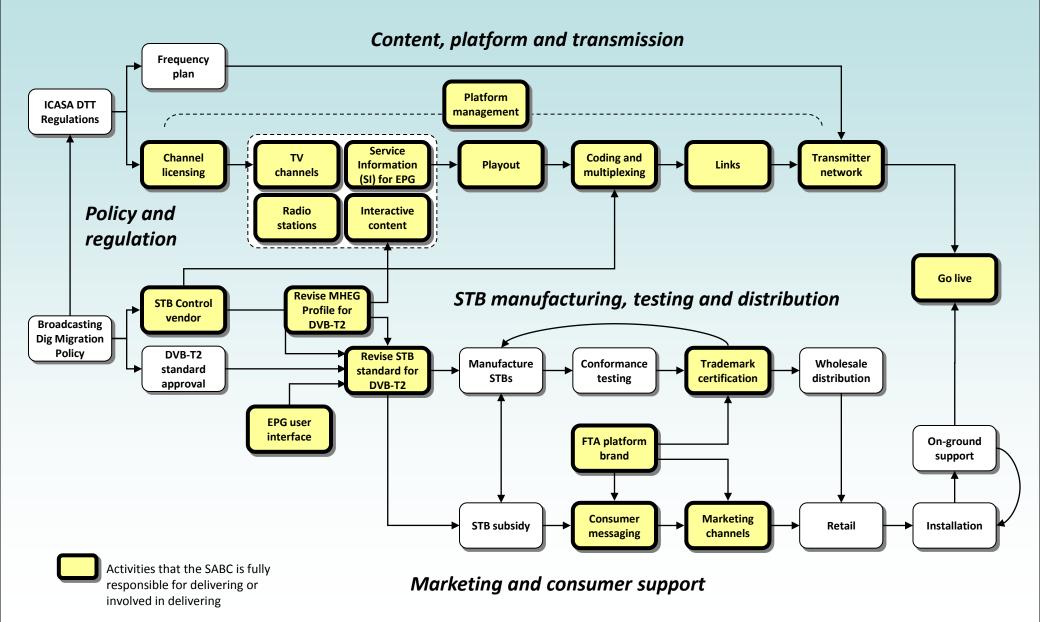
- The SABC will use the functionality of DTT to provide the following services:
  - Closed caption subtitles multiple alternative language subtitles
  - Multiple language tracks up to 4 alternative audio tracks can be provided per programme
  - Audio description an audio track providing contextual information within the programme dialogue for people with sight impairments
  - Interactive applications can be provided which will assist with the delivery of e-Government services (using the MHEG-5 interactive middleware)



# The delivery chain for the launch of DTT...



# The SABC is involved in the following activities...



### The SABC is getting ready for launch

- The SABC and e.tv launched a DVB-T trial in November 2008 in Johannesburg, Pretoria and Durban
- The trial transmissions will now be converted to DVB-T2 and extended to include Cape Town in early 2012 in readiness for launch
- SABC 1, SABC 2 and SABC 3 and 17 SABC radio services are already operating on the trial
- The SABC will phase in the launch of the new TV channels from April 2012 through to 2014/15 and all of these plans have been costed for the three years 2012/13 to 2014/15



# **Platform and transmission**

- The SABC is already operating a DTT playout facility which is servicing the trial
- The SABC has a coding and multiplexing facility on site and this will be used for commercial launch to prepare the SABC signals for distribution to Sentech



The SABC's DTT playout facility and coding and multiplexing infrastructure





# **Platform and transmission**

- The Final Control Centres (FCCs) are being digitised
- One new digital FCC has been built and is already operational
- The three existing FCCs will be digitised by March 2012



SABC 1 on air from the new digital FCC





# **Platform and transmission**

• The business plan for a new digital playout centre has been approved and is being contracted for – due for implementation in early 2013 - though this is not launch critical as the trial playout facility will meet requirements for the first year



The exiting Master Control Room which is to replaced with the implementation of the new Digital Playout Centre



# Set top boxes (STBs)

- The SANS 862 standard is near finalisation, and is being managed by the South African Bureau of Standards (SABS)
- The STB specification includes:
  - Standard Definition (SD) television
  - High Definition (HD) television
  - Electronic Programme Guide
  - MHEG-5 interactivity (SA Profile)
  - Closed caption subtitles
  - Multiple audio, including audio description
  - STB Control solution





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