

QUESTION ITU-R 31-1/6

Digital terrestrial television broadcasting

(1992-1993-2002-2005)

The ITU Radiocommunication Assembly,

considering

- a) the rapid progress being made in techniques for bit-rate reduction and for digital modulation;
- b) that digital emission systems may offer advantages in terms of quality and of spectrum efficiency and that some administrations were planning their introduction in 1995;
- c) that bit-rate reduction coding of digital TV signals will find wide application for emission by terrestrial and satellite means, for secondary distribution by cable and optical fibre and for pre-recorded delivery media;
- d) that there are advantages in having a maximum of common elements for the bit-rate reduction codings in the various applications;
- e) that a number of Radiocommunication Groups are studying or are considering the use of bit-rate reduction techniques, including Study Group 6, Working Party 6S, Working Party 6R for a variety of related applications;
- f) that commonality with the bit-rate reduction techniques used in related applications (such as equipment for home use) considered by the International Electrotechnical Commission (IEC), the International Organization for Standardization (ISO) and the ITU-T may offer further advantages;
- g) that various kinds of applications, for example multi-channel TV, multi-channel sound applications, ancillary data applications, indoor/outdoor portable and **mobile reception of TV programs** will be introduced as new attractive applications with high flexible and efficiency in multiplex operation;
- h) that high performance error protection methods will be introduced from the point of view of transmission efficiency and easy implementation in home, portable **and mobile** receivers;
- j) that digital modulation methods suitable for the terrestrial transmission paths will be used;
- k) that strategies of harmonization with existing terrestrial broadcasting will be adopted,

decides that the following Question should be studied

- 1 What are the appropriate methods to multiplex the required signals into the channel (including vision, sound, data, etc.)?
- 2 What are the appropriate methods for error protection?

- 3 What are the appropriate modulation and emission methods and their relevant parameters, for the broadcasting of digitally encoded TV signals in terrestrial channels?
- 4 What are the appropriate strategies to introduce and implement digital terrestrial TV broadcast services, taking account of existing terrestrial broadcast services?
- 5 What are other applications that could be provided by digital terrestrial TV systems?

NOTE 1 – See also Questions ITU-R 12/6, ITU-R 80/6 and ITU-R 4/6,

further decides

- 1 that the results of the above studies should be included in (a) Recommendation(s);
- 2 that the above studies should be completed by 2006.

Category: S1