

ITU assistance to the GE06 frequency Coordination meetings in Sub-Saharan Africa (ATU) and Arab Region (ASMG)



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# **Presentation overview**

- GE06 coordination meetings:
  - ATU
  - ASMG
- GE06 Plan status















### Origin of the frequency coordination meetings- ATU

- Digital migration and spectrum Policy summits:
  - December 2011: Nairobi
  - September 2012: Accra

African countries need to establish minimum spectrum requirements for broadcasting and broadband at the national level

ATU, with the assistance of the BR/ITU







# **General ATU Recommendations**

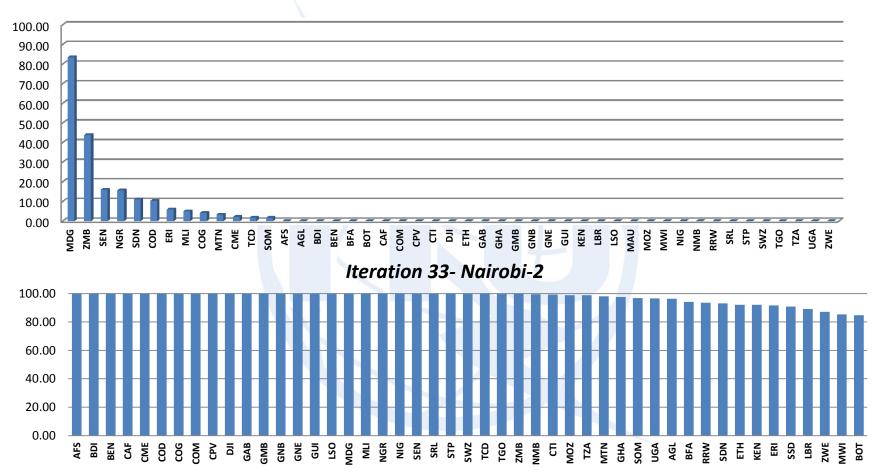
- Maximum acceptable margin is 4dB
- the ATU summit:
  - to consider the adoption of the MPEG4 and DVB-T2 standards at regional African level.
  - to consider the adoption of the dual HDTV/SD format at African regional level for the set-top boxes
- those administrations currently having more than this resource be encouraged to make the **utmost effort** to release part of it to enable neighbouring countries to reach up to that level of resource.





## **Results: 1<sup>st</sup> and last iterations for SSA**

Iteration 1, percentage of assigned channels



Percentage Assignable/submitted





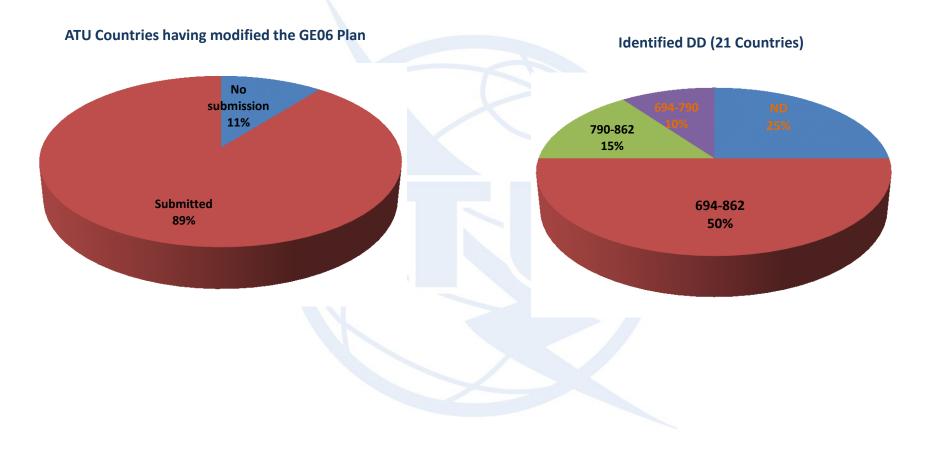
# Results of the GE06 coordination meeting for Sub Saharan Africa

- Average of satisfied requirements: 97.37%:
- Duration: 18 months.
- 47 countries participated (except Mauritius).
- 2 African summits: Nairobi 2011 and Accra 2012 to launch the process.
- 3 planning and coordination meetings: Bamako, Kampala and Nairobi.
- BR participation in the sub regional meetings: EACO, ECOWAS, SADC, ...
- **33** iterations for the compatibility analysis, based on the requirements submitted by administrations. The BR generated the requirements for the absent countries following the ATU request.
- **7107** submitted frequency requirements in 470-694 MHz (**11406** at the RRC-06 for the entire band 470-862 MHz).





**DDs: Coordination meetings for Sub-saharan Africa** 

















### Origin of the frequency coordination meetings-ASMG

- In accordance with the recommendation of the
  - 35th meeting of the Permanent Arab Committee for Communications and Information (Cairo : 4-5/3/2014),
  - and contributions of the Technical Secretariat of the Council of Arab Ministers for Communications and Information:

Arab countries to ensure sufficient spectrum for broadcasting in the 470-694 MHz and be able to free the 700/800 MHz

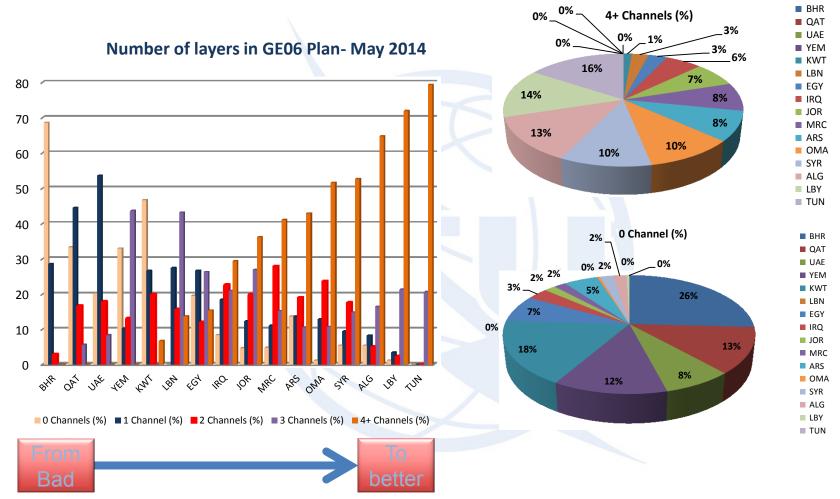
Charge the ASMG with the assistance of the BR







#### **GE06** Plan for the Arab countries









# Dubai (May 2014) meeting

- Invite the Arab countries that did not start the introduction of DTT to use modern techniques for such service: DVB-T2/MPEG-4 or later.
- Maximum acceptable margin is :
  - 4dB, this margin will be used in the coordination between the Arab countries, giving the freedom of States to use more or less stringent margins during bilateral coordination meetings .
  - 3 dB: Tunisia, Saudi Arabia and Oman specified that for coordination with them, the maximum acceptable margin would be of 3dB concerning the channels recorded in the GE06 Plan and 4dB if against the requirements.
  - 1.25 dB: Algeria.
- 4 layers per Administration for this coordination period, knowing that this number can be increased in the future, individually, and according to the needs of the Arab states, according to GE06 Article 4 Procedures.
- An iteration each other Monday until the 3d meeting

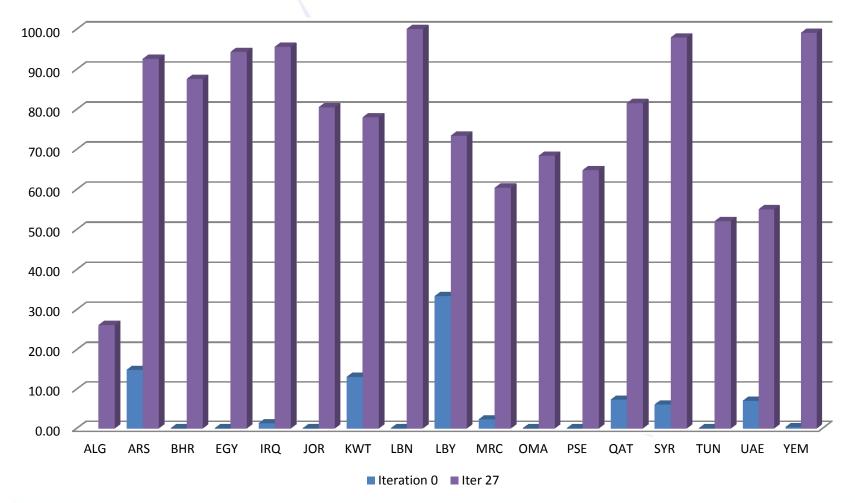






## 1<sup>st</sup> and last iterations for ASMG

**Evolution of assignable channels** 

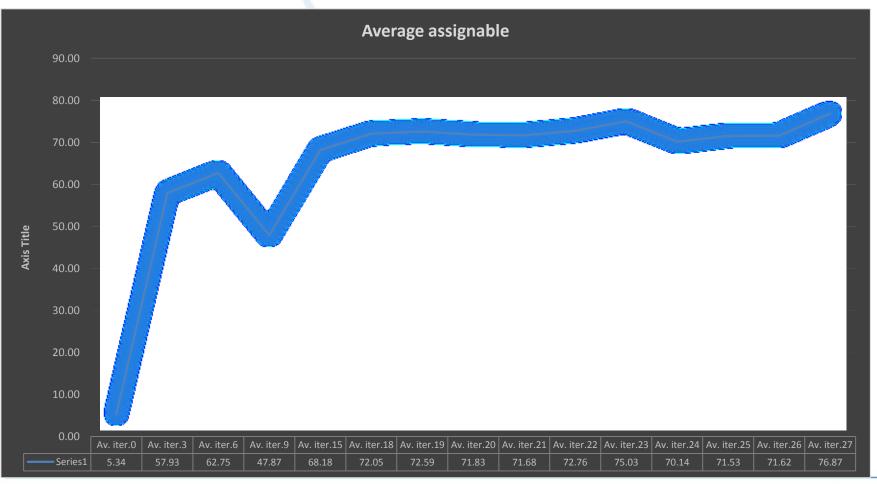








#### ASMG Average of assignable channels









## Results of the GE06 coordination meeting for ASMG

- Average of satisfied requirements: 76.87%:
- Duration: 11 months.
- 17 countries participated.
- 3 planning and coordination meetings: Dubai, Hammamet and Marrakech.
- **27** iterations for the compatibility analysis, based on the requirements submitted by administrations. The BR generated the requirements for the absent countries following the ASMG request.
- **4346** submitted frequency requirements in 470-694 MHz (**9151** at the RRC-06 for the entire band 470-862 MHz).







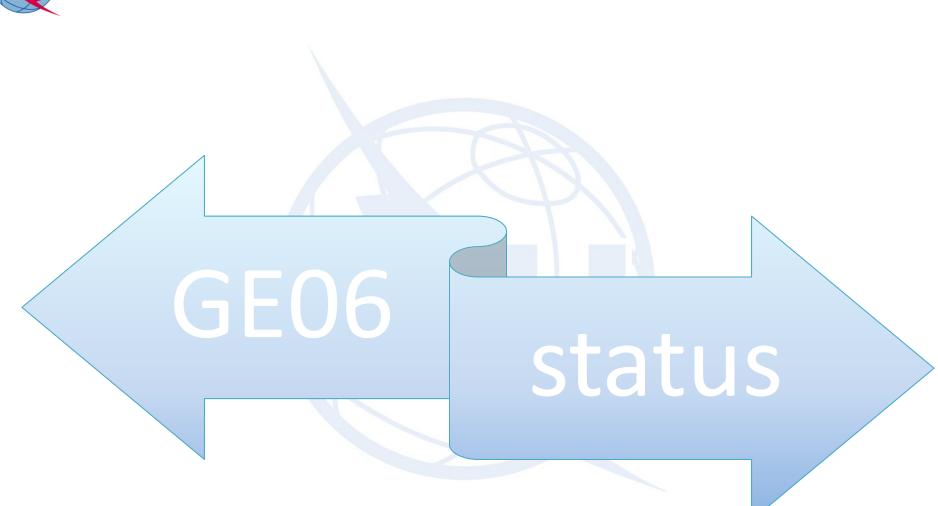
# **Conclusion on BR actions**

- Generated the initial requirements with flexible channels (to reach at least 4 layers);
- Provided the necessary software and tools;
- Workshops and training on the GE06 tools and frequency planning;
- Assistance in sub regional coordination meetings;
- An Iteration each 2 weeks (from the beginning of the process until its end);
- Generates the requirements for the 'absent' administrations (4 layers);
- Assistance all along the process.







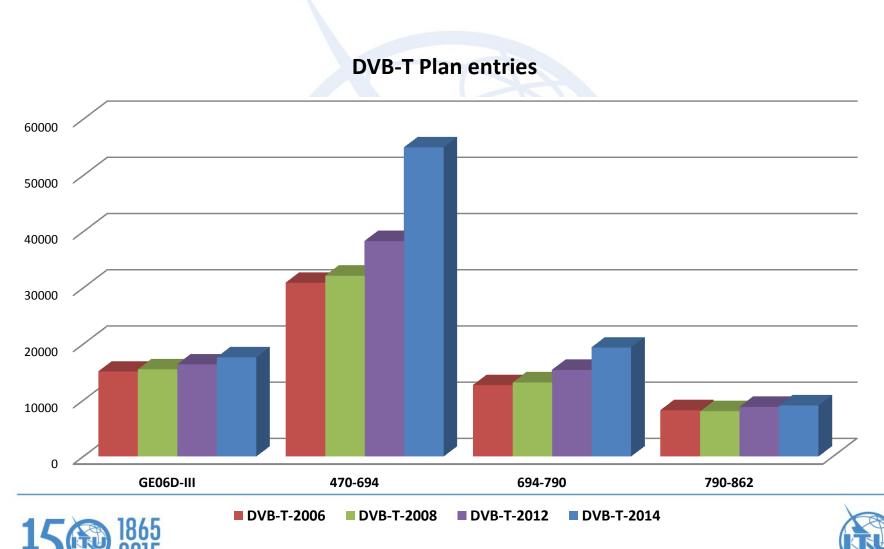








#### **GE06D Plan Status**

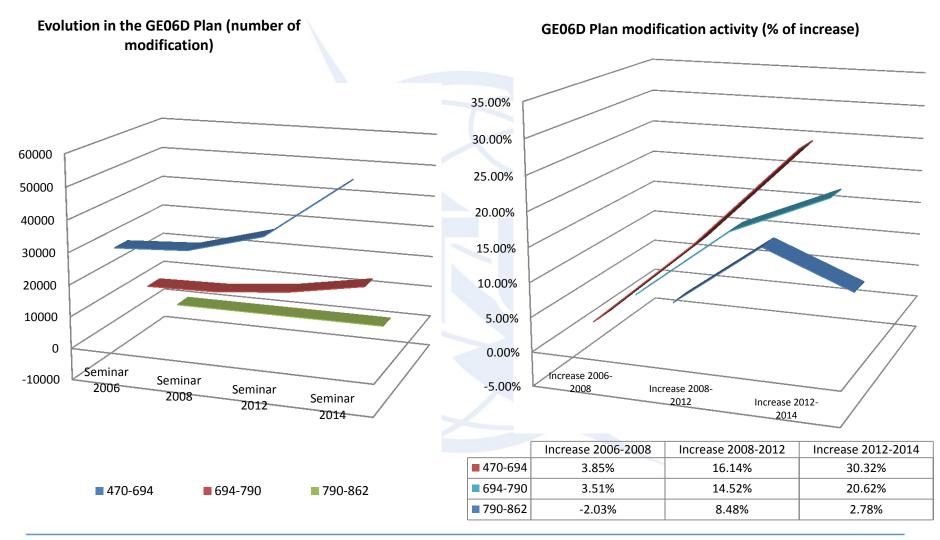






#### **GE06D** Plan modification in the UHF Band

#### Number of modification and (% of increase)



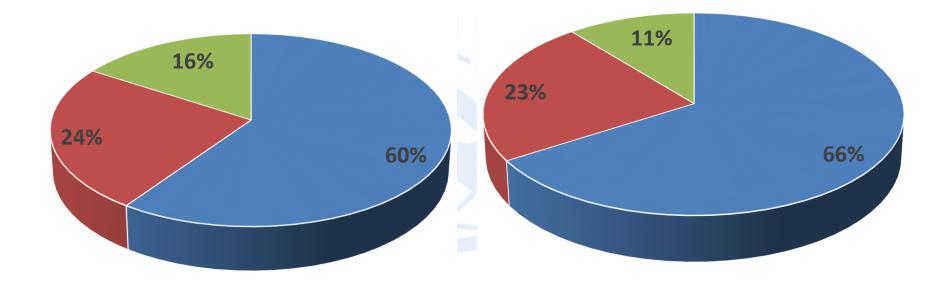






#### **GE06D: UHF occupancy 2006-2014**











# Thank you for your attention



