

ASMG- GE06 Plan overview and coordination meetings status

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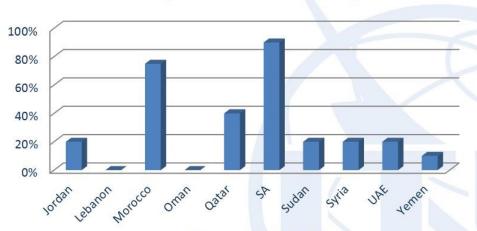




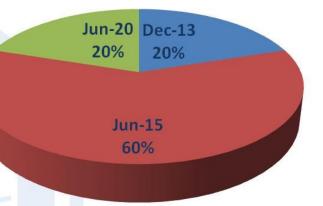
DTT and DD in the Arab countries

(Questionnaire replies nov .2011)





ASO date



Identified DD (10 countries)







INTERNATIONAL TELECOMMUNICATION UNION





István BOZSÓKI, ITU/BDT/IEE/SBD Gaël JABOULAY, ITU/BDT/DDR/ITS





Background

- Council 2014, 7 May, ITU-R Operational plan for 2015-2018
 - Comments from Kenya:

the introduction of digital broadcasting is a key issue that needs to be addressed by policy-makers and that it would be important for ITU to provide an analogue to digital switchover stocktaking for assisting the Member States in their migration process.

- Group of BDT and BR experts for preparing the first version
- Designing the structure of the database and selecting tool for capturing and displaying the information
- Collecting information from relevant surveys, questionnaires of the ITU-D and ITU-R and other sources
- Entering information to the database
- Beta version in less than 2 weeks



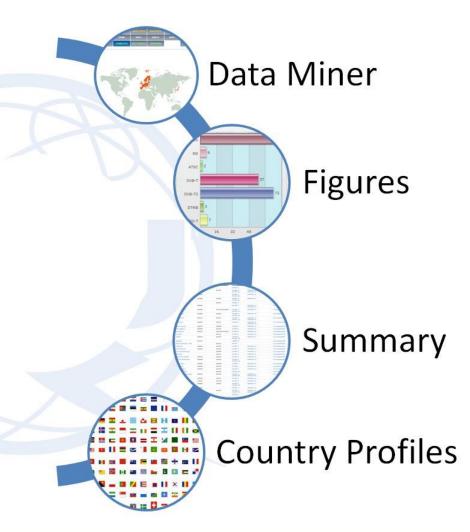
Public Website







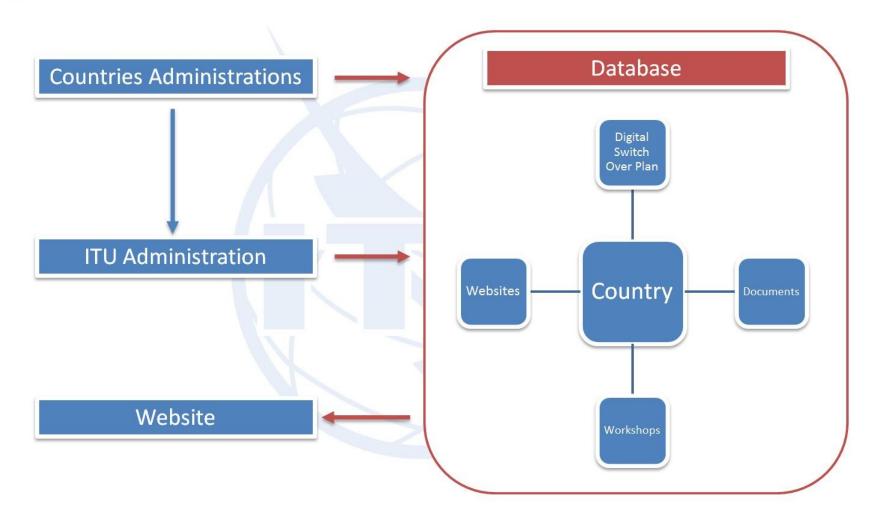








Data Management







ITUWebsite demonstration

http://www.itu.int/en/ITU-D/Spectrum-Broadcasting/Pages/DSO/Default.aspx

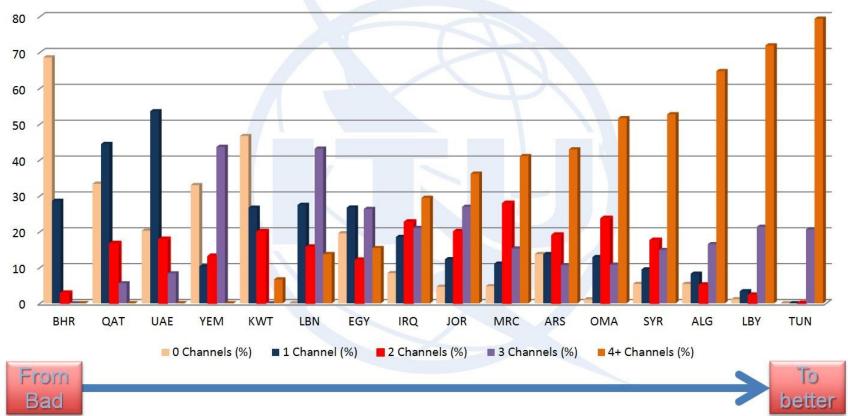


GE06 status



GE06 Plan for the Arab countries

Number of layers in GE06 Plan- May 2014





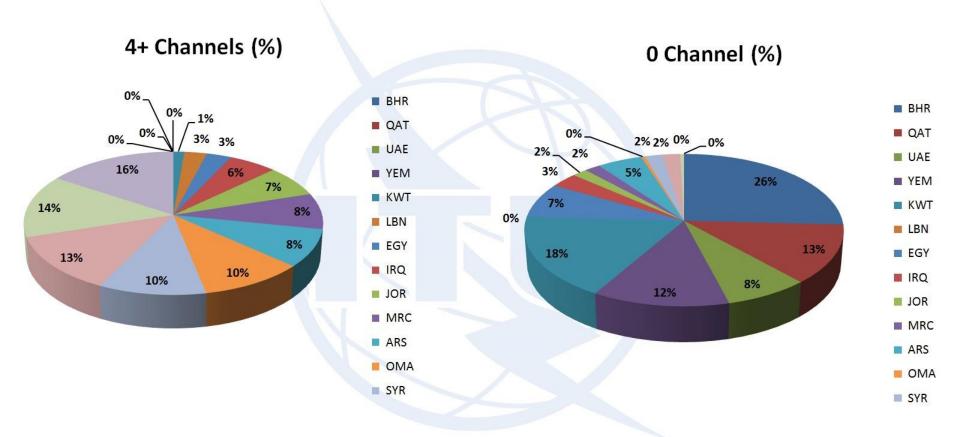








Worst and best cases- Layers (GE06)





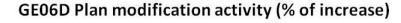


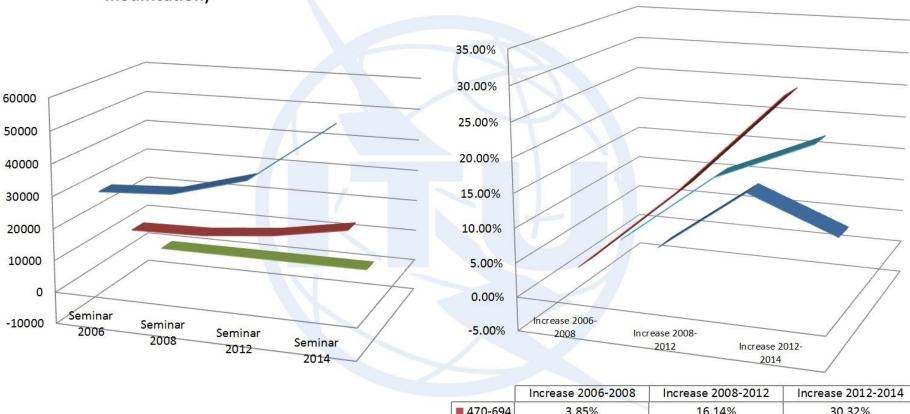


GE06D Plan modification in the UHF Band

Number of modification and (% of increase)

Evolution in the GE06D Plan (nbr of modification)





| Increase 2006-2008 | Increase 2008-2012 | Increase 2012-2014 | | 470-694 | 3.85% | 16.14% | 30.32% | | 694-790 | 3.51% | 14.52% | 20.62% | 790-862 | -2.03% | 8.48% | 2.78%



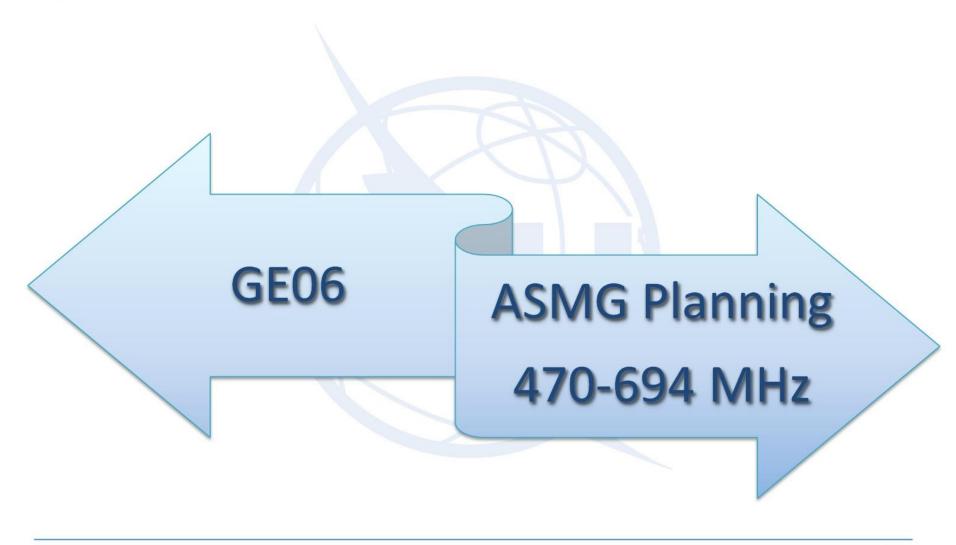
470-694



790-862

694-790











Recommendations and decisions of Dubai meeting (18-19 may 2014)

- 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.
- 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







Recommendations and decisions of Dubai meeting-continued

- Hold two coordination meetings as follows:
 - Second Coordination Meeting, will be held in Tunisia during September 2014.
 - Third Coordination Meeting will be held in Morocco during April 2015.
- Arab administrations will not send any modification to the Geneva Plan 06 starting from the date of this meeting until the completion of the process of iterations (Feb 2015)
- Creation of sub-regional groups as follows:
 - Group A: (UAE, Bahrain, Saudi Arabia, Oman, Qatar, Kuwait, Iraq, Yemen).
 - Group B: (Saudi Arabia, Jordan, Syria, Palestine, Iraq, Lebanon, Egypt).
 - Group C: (Saudi Arabia, Egypt, Sudan, Djibouti, Somalia, the Comoros, Yemen, Libya).
 - Group D : (Libya, Algeria, Tunisia, Morocco, Mauritania)







ASMG to the BR

- Ask the BR to invite the non-Arab countries that will be affected by the GE06 Plan modification to the next meeting planned in Tunisia-September 2014.
 - Done, however only Malta, France and UK were present.
- Invite the BR to take over the mediation and coordination process between Arab countries and Israel by convening a special meeting before the second ASMG meeting in Tunisia (29.9-1.10.2014-Geneva).
 - Meeting took place in Geneva. It was agreed with Israel that less than 1.25 dB is considered as coordinated.
- Request the BR to take in charge the requirements of the Arab countries that did not participate in Dubai meeting.
 - Done

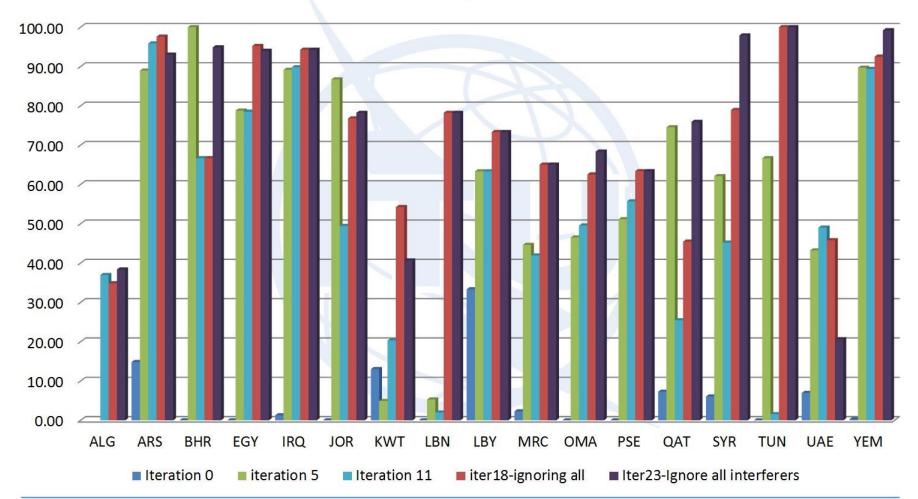






Evolution of assignable channels

Evolution of assignable channels

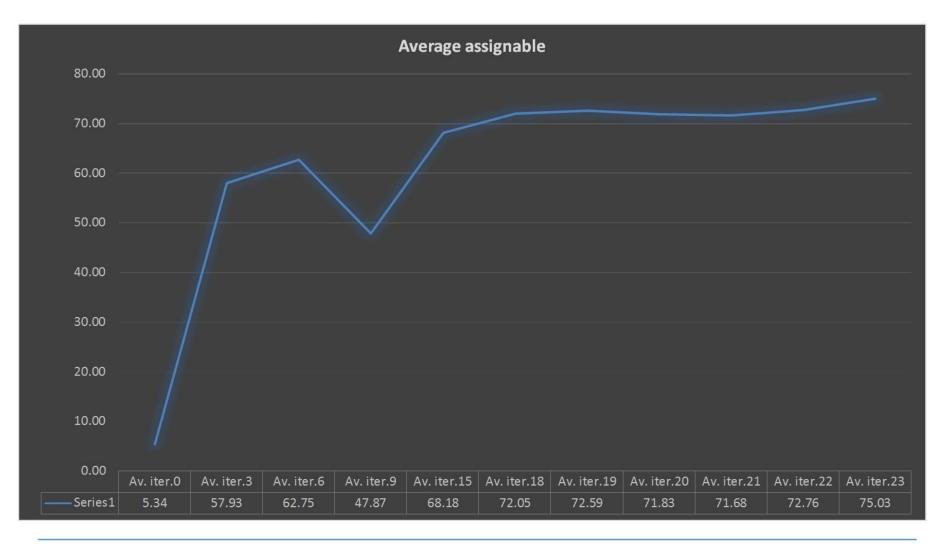








Average of assignable channels



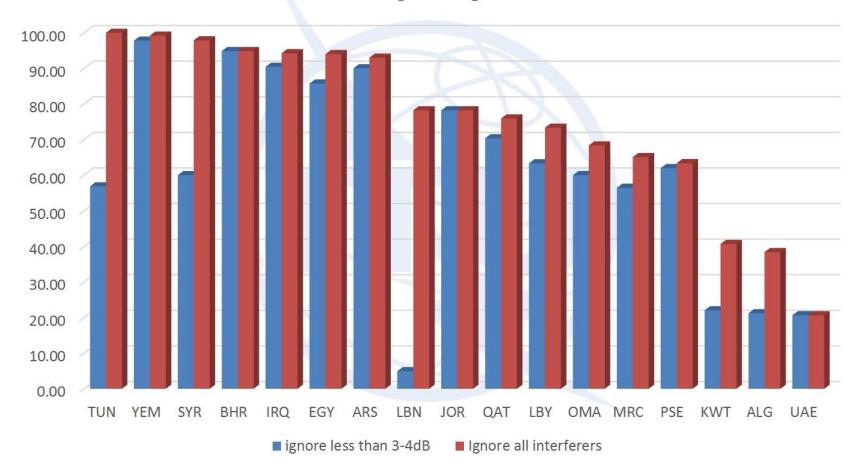






Iteration 23 Results

Iter23- Percentage of assignable channels









General Analysis of the results

Excess number of added new requirements vs those generated by the BR

Number of submitted layers, in some cases, goes far beyond the agreed number of 4 layers per site/allotment in the frequency band 470-694 MHz. Some administrations have 6 or more channels, including Plan entries this in band.

The margin affecting Plan entries of other countries is often considerably exceeded, i.e. the interference level is much higher than the limits specified.

Received interference is also high in some cases!

Big number of cases of internal incompatibilities and Overlap between internal allotments and/or assignments (Plan and Requirements).





How to improve the results

Reasonable number of requirements

Decrease the number of requirements to the agreed number of layers, especially at the borders.

Reasoning by coverage

Avoid submission of requirements with overlapping coverage areas due to close proximity of corresponding sites, including those recorded in the Plan. Ex. Overleaping allotments and single assignments.

Reduce interference

Modify technical parameters of requirements for sites/allotments not having assignable channels.

Coordinate sites/allotments with the affected administrations using more detailed calculation methods, for example taking into account terrain peculiarities and/or relaxed margins.

Transfer of a channel from another requirement, if more than 4 layers

Bilateral coordination within ASMG and with administrations outside ASMG



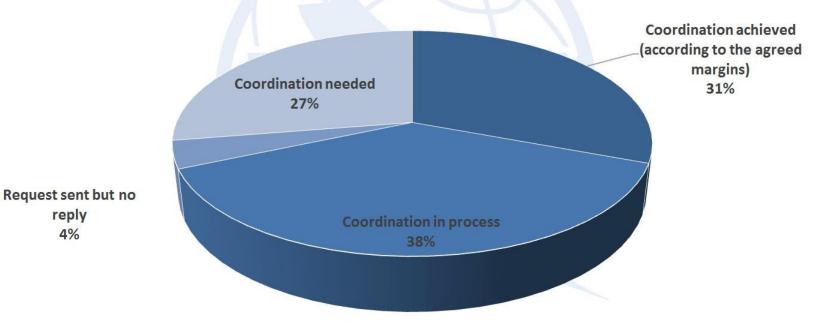




Coordination status

February 2015

Coordination status (inside and outside ASMG)





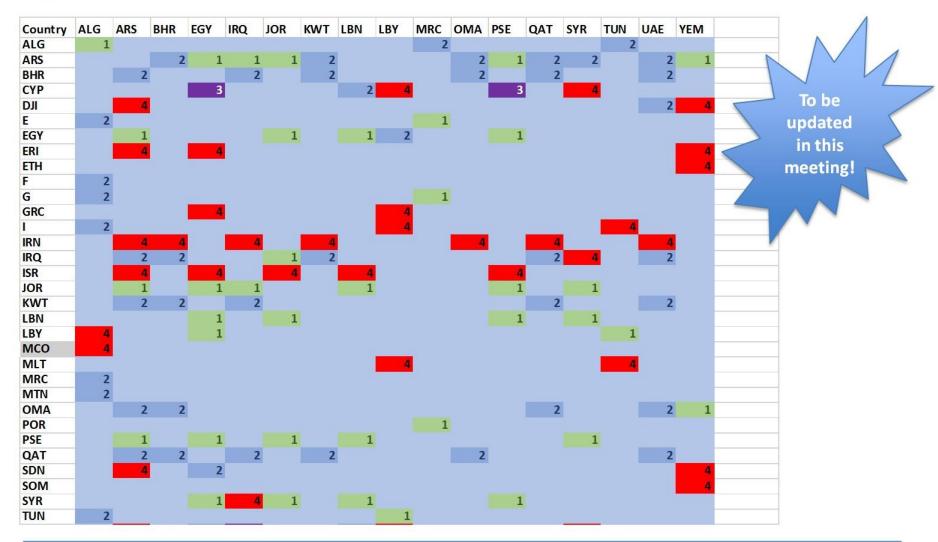
reply

4%





Snapshot from coordination table- February 2015









Timeline and activities

	18/5/14 19/5/14		.4	Jun-14		Jul-14		Aug	ζ-14		Sep-14							Oct-14		Nov-14		Dec-14		Jan-15		Fev-15		Mar-15			Apr-15				
Dates	18/5/14	19/5/14	20/5/14	9/6/14	23/6/14	7/7/14	21/7/14	4/8/14	18/8/14	1/9/14	8/9/14	9/9/14	10/9/14	11/9/14	12/9/14	15/9/14	29/9/14	13/10/14	27/10/14	10/11/14	24/11/14	8/12/14	22/12/14	5/1/15	19/1/15	2/2/15	16/2/15	2/3/15	16/3/15	30/3/15	13/4/15	14/4/15	15/4/15	16/4/15	
Meeting place	me Dul	1st ASMG/ITU meeeting Dubai-UAE 18- 20/5/2014		1	2	3	4		5	6	2nd ASMG/ITU meeeting Hammamet 8-9/9/14:Only ASMG 10-12/9/14: ASMG+neighbors not member of ASMG			6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M ASI	t me	MG/ etin ech: /201 neigh	TU g 13- 5 ibors	modification		
Iterations/Activity	Tools and Planning criteria	Channel search and coord.	Results analysis, chanel search and coord.	Iteration	Iteration	Iteration	Iteration		Iteration	Iteration	Results analysis, chanel search and coord.	7	Results analysis, chanel search and coord.	- α	Results analysis, chanel search and coord.	Iteration	Opening, general presentations, status	25	76	Final results analysis, GE06 Article 4 Plan modification. futur recommendations	드														

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Thank you for your attention

شكرا لاهتمامكم

الهام غازي إلهام غازي BR/ITU



