



Digital Terrestrial Television Broadcasting (DTTB)

DSO database

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Background

- Council 2014, 7 May, request from Kenya:
 - ITU to provide an analogue to digital switchover stocktaking for assisting the Member States in their migration process.
- Information from relevant surveys, questionnaires of the ITU-D and ITU-R and other sources
 - ITU-D Question 11-3/2 Questionnaire, 2012;
 - ITU-D Question 11-3/2 Final report, 2014;
 - ITU-D Questionnaire to European countries, 2013 and a follow-up in 2014;
 - ITU-D Questionnaire to Arab Countries, 2013;
 - ITU-D and ITU-R meetings, workshop, seminars, frequency coordination meetings;
 - ITU-R SG6 Questionnaire, 2014, results published in Report ITU-R BT.2302-0;
 - African Union Commission Survey, 2013;
 - DIGITAG, 2014.
- Data entered to the database

Website

- Summary of the basic information from countries
- Relevant events (e.g. workshops, frequency coordination meetings, seminars)
- Relevant publications (e.g. ITU-R and ITU-D documents, roadmaps, workshop presentations)
- Relevant websites (e.g. ITU-R and ITU-D, broadcasting organizations, GE-06)
- Information sources (list of relevant surveys, questionnaires of the ITU-D and ITU-R and other sources)
- Contacts
- Accessible both form BDT and BR web pages

Circular Letter BDT/IEE/SBD/DM/014 from the BDT Director (23 February 2015)

- Given the dynamically changing status of the Digital Terrestrial Television (DTT) deployment and in order to enable all administrations to benefit from the latest status and information concerning the digital transition, Administrations are invited to make the necessary update to ensure that their actual status and data are correctly reflected on the portal.

Public Website

Committed to connecting the world

Status of the transition to Digital Terrestrial Television Broadcasting

This portal provides information on the status of the Department of Digital Terrestrial Television (DTT), worldwide. It includes:

- Overview of DTT deployment and digital terrestrial, with related links.
- Links to relevant ITU publications and other related activities.
- Latest documents and websites related to the transition to DTT.

The portal can be filtered to various categories in planning their future activities in this context.

Given the dynamically changing status of DTT deployment, administrations are invited to check the data and user necessary question.

Ongoing **Completed**

Not Started **Unknown**

Status of the transition to Digital Terrestrial Television Broadcasting : Data Miner

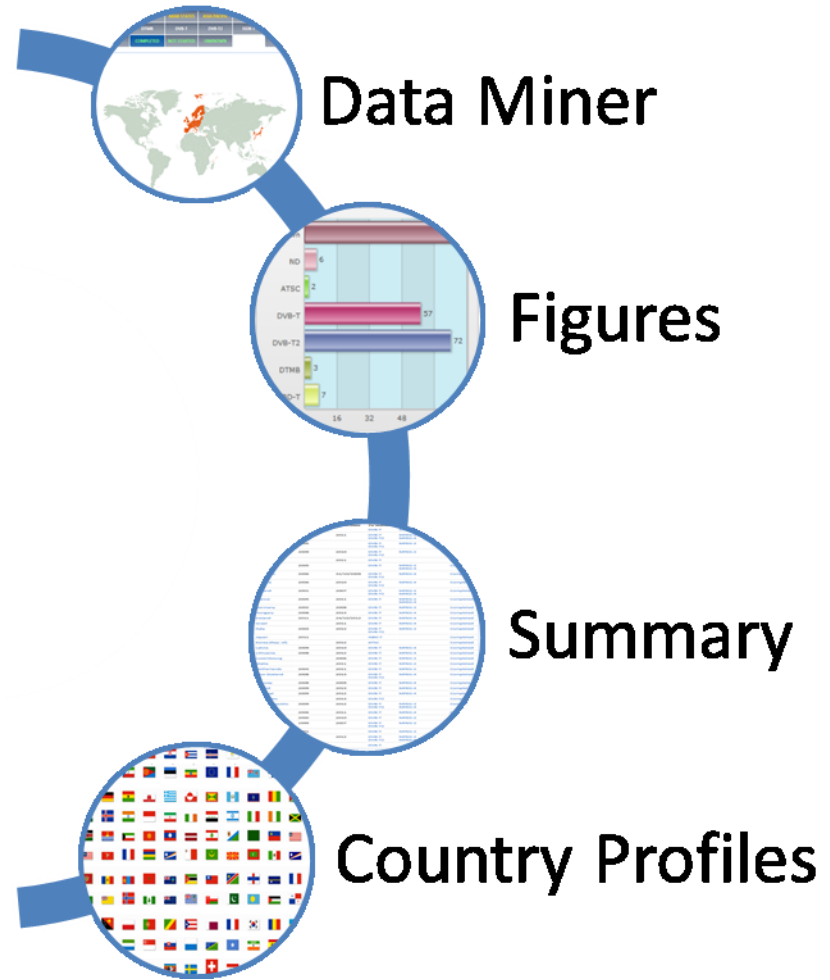
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Region	Number of Countries
AFRICA	16
AMERICAS	32
ASIA	28
AUSTRALIA	1
EUROPE	48
MIDDLE EAST	16



Status of the transition to Digital Terrestrial Television Broadcasting : Figures

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Year of Launch **Year of JARVCO DTT**

Status of the transition to Digital Terrestrial Television Broadcasting : Summary

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Given the dynamically changing status of DTT deployment, administrations are invited to check the data and user necessary question.

Country	Year CE Launch	DTT date	TV Standard	Compression Format	Status
Algeria			DVB-T2	MPEG-4	Ongoing
Algeria	2010	2010	DVB-T	MPEG-2	Ongoing
Andorra			DVB-T	MPEG-2	Completed
Angola					
Antigua and Barbuda					
Argentina	2010	2010	ISDB-T		Not Started
Armenia		2010	DVB-T		Not Started
Australia					

Website features



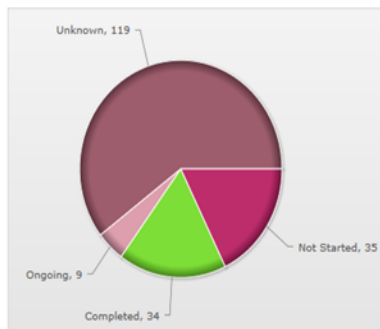
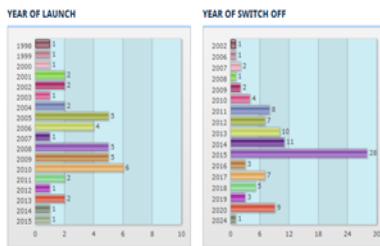
Albania, Algeria, Azerbaijan, Bahrain, Bulgaria, Oman, Russian Federation, Serbia, Ukraine

Andorra, Austria, Belgium, Croatia, Cyprus, Czech Rep., Denmark, Estonia, Finland, France, Germany, Hungary, Iceland, Israel, Italy, Japan, Korea (Rep. of), Latvia, Lithuania, Luxembourg, Malta, Netherlands, New Zealand, Norway, Poland, Portugal, Seychelles, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, United Kingdom, Vatican

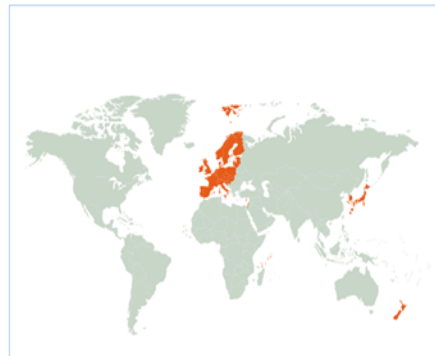


Armenia, Belarus, Benin, Burkina Faso, Cameroon, Cape Verde, Côte d'Ivoire, Egypt, Ghana, Guinea-Bissau, Iran (Islamic Republic of), Kyrgyzstan, Lebanon, Libya, Malawi, Mali, Moldova, Morocco, Namibia, Niger, Nigeria, Rwanda (Republic of), Senegal, Sierra Leone, South Africa, Sudan, Swaziland, Tanzania, Togo, Turkey, United Arab Emirates, Uzbekistan, Zambia, Zimbabwe

Afghanistan, Angola, Antigua and Barbuda, Argentina, Australia, Bahamas, Bangladesh, Barbados, Belize, Bhutan, Bolivia (Plurinational State of), Bosnia and Herzegovina, Botswana, Brazil, Brunei Darussalam, Burundi, Cambodia, Canada, Central African Rep., Chad, Chile, China, Colombia, Comoros (Union of the), Congo, Costa Rica, Cuba, Dem. People's Rep. of Korea, Dem. Rep. of the Congo, Djibouti, Dominica, Dominican Rep., Ecuador, El Salvador, Equatorial Guinea, Eritrea, Ethiopia, Fiji, Former Yugoslav Republic of Macedonia, Gabon, Gambia, Georgia, Greece, Grenada, Guatemala, Guyana, Haiti, Honduras, Iceland, India, Indonesia, Iraq, Jamaica, Jordan, Kazakhstan, Kenya, Kiribati, Kuwait, Lao P.D.R., Lesotho, Liberia, Liechtenstein, Madagascar, Malaysia, Maldives, Marshall Islands, Mauritania, Mauritius, Mexico, Micronesia, Monaco, Mongolia, Montenegro, Mozambique, Myanmar, Nepal, Nepal (Republic of), Netherlands Antilles, Nicaragua, Niue, Pakistan, Palau, Panama, Papua New Guinea, Paraguay, Peru, Philippines, Qatar, Romania, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Singapore, Solomon Islands, Somalia, South Sudan, Sri Lanka, State of Palestine, Suriname, Syria, Tajikistan, Thailand, Timor-Leste, Tonga, Trinidad and Tobago, Tunisia, Turkmenistan, Tuvalu, Uganda, United States, Uruguay, Vanuatu, Venezuela, Viet Nam, Yemen



AFRICA	AMERICAS	ARAB STATES	ASIA PACIFIC	OS	EUROPE
ATSC	DTMB	DVB-T	DVB-T2	ISDB-T	
ONGOING	COMPLETED	NOT STARTED	UNKNOWN		RESET



Afghanistan

Documents provided by the country

No Document to display

Events in this country

meeting with Government 29/11/2014 Paris
The new platform for Europe and Africa to meet and discuss future evolutions of Digital TV 29/11/2014

Documents from Country:

Powerpoint presentation of Dr. ZZZ
This is the description about this wonderful document

Presentation during Conference
This is our Powerpoint

Presentation by Mrs...
This is just to see what happens when we have several document and if the style will work correctly, meaning one blue line and one white line alternatively

Conference on Broadband 25/11/2014 Moscow
A simple meeting to demonstrate the capabilities of Digital TV 26/11/2014

Documents from Country:

Powerpoint presentation of Dr. ZZZ
This is the description about this wonderful document

Other Documents :

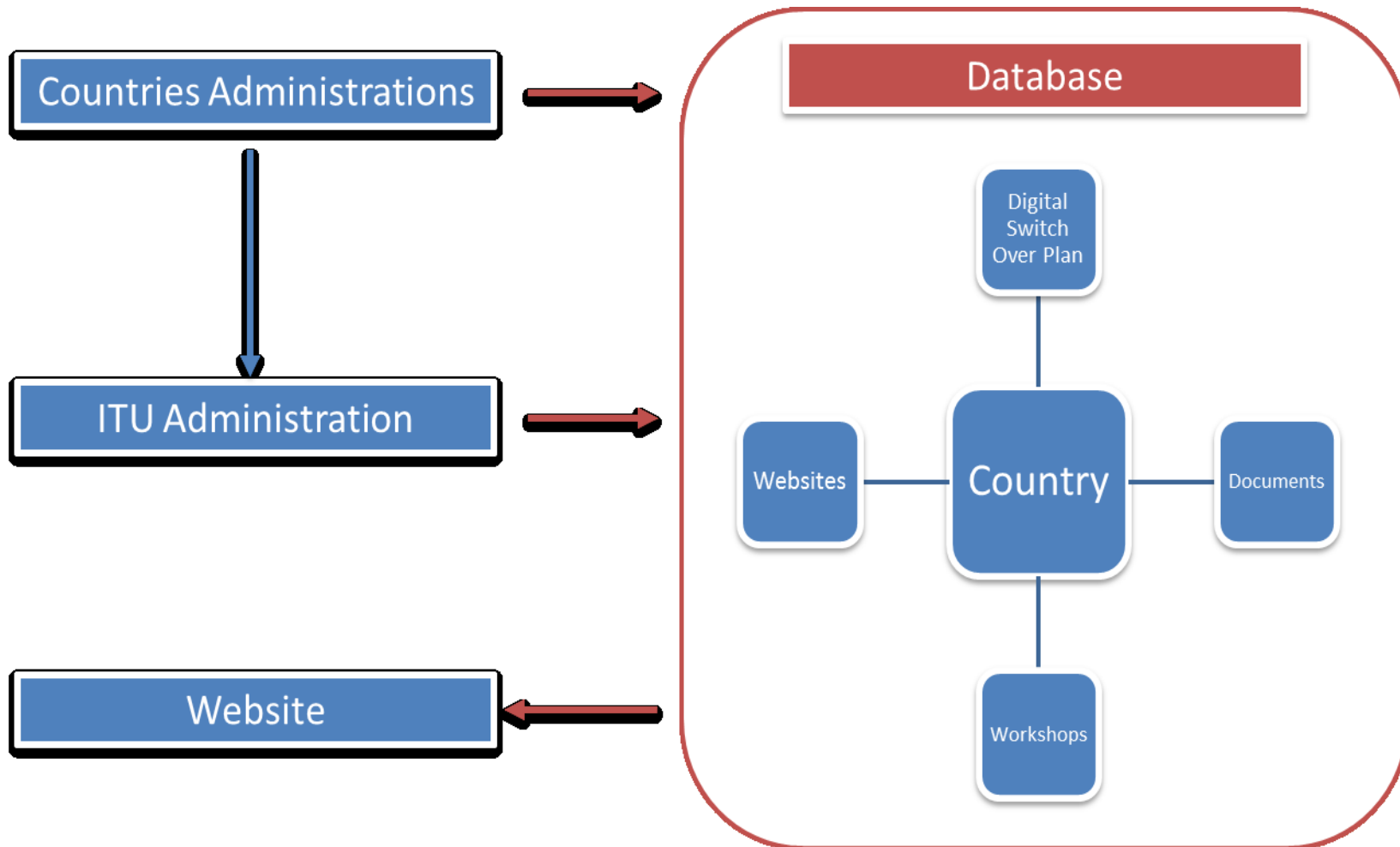
Presentation

First Workshop at Kabul 12/11/2014 Kabul
Showcase where the most efficient network have been setup. 19/11/2014

Country	Year of Launch	DSO Date	TV Standard	Compression Format	Status
Andorra			DVB-T	MPEG-2	Completed
Austria	2006	2011	DVB-T DVB-T2	MPEG-2 MPEG-4	Completed
Belgium	2005		DVB-T DVB-T2	MPEG-2	Completed
Croatia	2009	2010	DVB-T DVB-T2	MPEG-2	Completed
Cyprus		2011	DVB-T		Completed
Czech Rep.	2005		DVB-T	MPEG-2 MPEG-4	Completed
Denmark	2006	31/10/2009	DVB-T DVB-T2	MPEG-4	Completed
Estonia	2006	2010	DVB-T DVB-T2	MPEG-4	Completed
Finland	2001	2007	DVB-T DVB-T2	MPEG-2 MPEG-4	Completed
France	2005	2011	DVB-T	MPEG-2 MPEG-4	Completed
Germany	2002	2008	DVB-T	MPEG-2	Completed
Hungary	2008	2013	DVB-T	MPEG-4	Completed
Ireland	2011	24/10/2012	DVB-T	MPEG-4	Completed
Israel		2011	DVB-T	MPEG-4	Completed
Italy	2004	2012	DVB-T DVB-T2	MPEG-2	Completed
Japan	2011		ISDB-T		Completed
Korea (Rep. of)		2012	ATSC		Completed
Latvia	2009	2010	DVB-T	MPEG-4	Completed
Lithuania	2008	2012	DVB-T	MPEG-4	Completed
Luxembourg		2006	DVB-T	MPEG-2	Completed
Malta	2011		DVB-T	MPEG-2	Completed
Netherlands	2003	2011	DVB-T	MPEG-2	Completed
New Zealand	2008	2013	DVB-T DVB-T2	MPEG-4	Completed
Norway	2008	2009	DVB-T	MPEG-4	Completed
Poland	2009	2013	DVB-T	MPEG-4	Completed
Portugal	2009	2012	DVB-T	MPEG-4	Completed
Seychelles		2013	DVB-T2		Completed
Slovak Republic	2009	2012	DVB-T DVB-T2	MPEG-2 MPEG-4	Completed
Slovenia	2006	2011	DVB-T	MPEG-4	Completed
Spain	2000	2010	DVB-T	MPEG-2	Completed
Sweden	1999	2007	DVB-T DVB-T2	MPEG-2	Completed
Switzerland	2001		DVB-T	MPEG-2	Completed
United Kingdom	1998	2012	DVB-T DVB-T2	MPEG-2 MPEG-4	Completed
Vatican			DVB-T		Completed

34 Countries

Data Management



Additional developments on the beta version

- Filtering on the different items (e.g. by region, date, technology) ✓
- Detailed displaying of the available information (e.g. for a country, relevant events, documents, websites) ✓
- Displaying information on a map ✓
- Date entry/update possibility for the administrations ✓



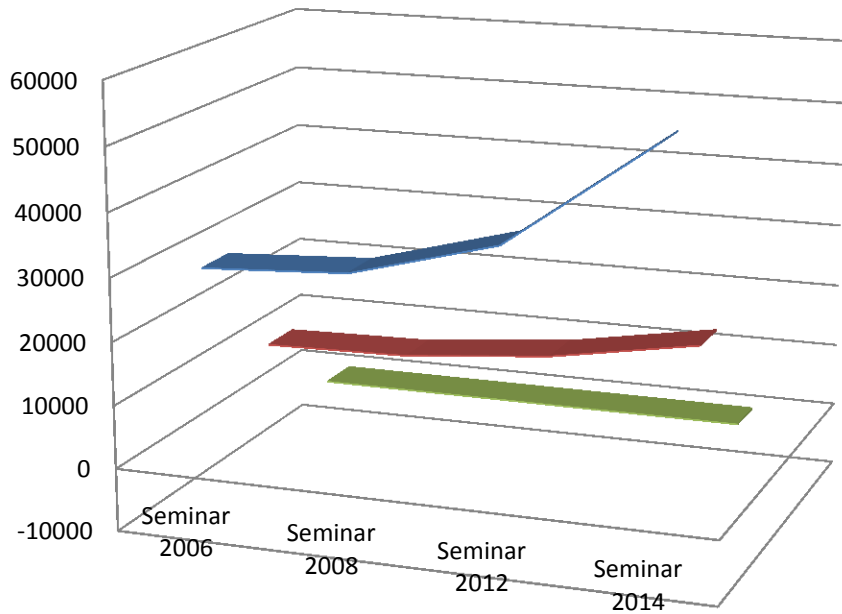
GE06

ATU, ASMG

GE06D Plan modification in the UHF Band

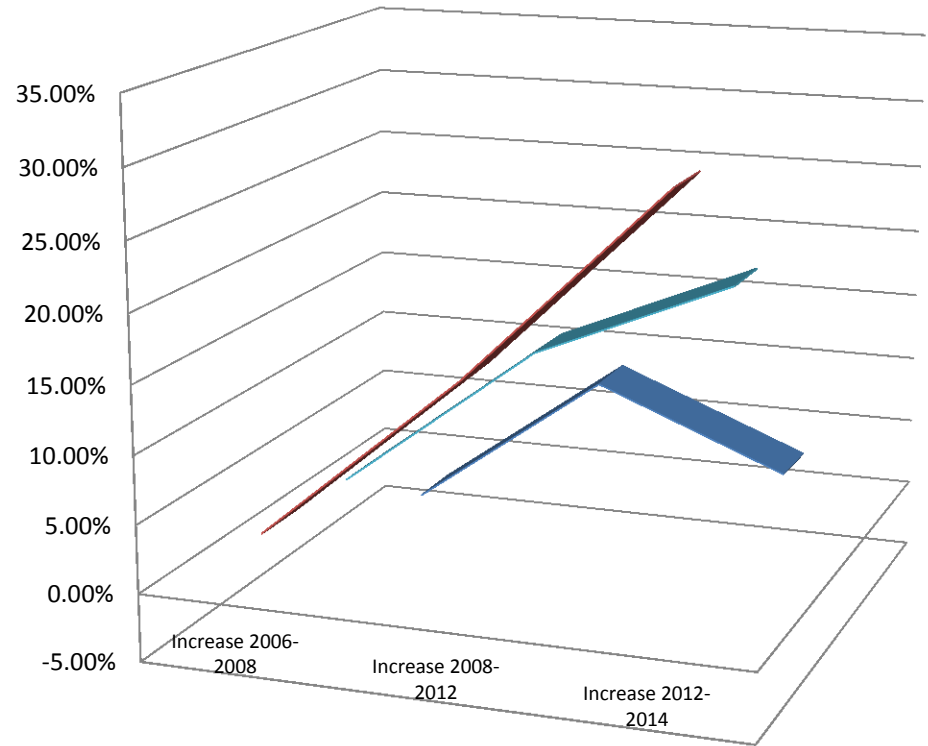
Number of modification and (% of increase)

Evolution in the GE06D Plan (number of modification)



■ 470-694 ■ 694-790 ■ 790-862

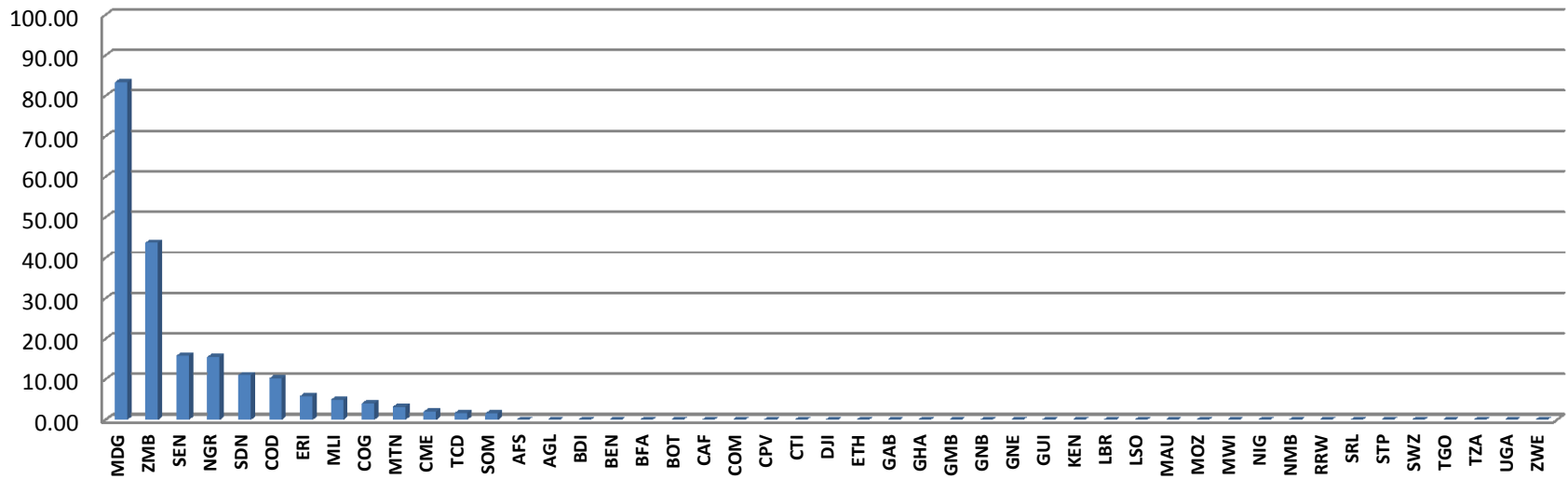
GE06D Plan modification activity (% of increase)



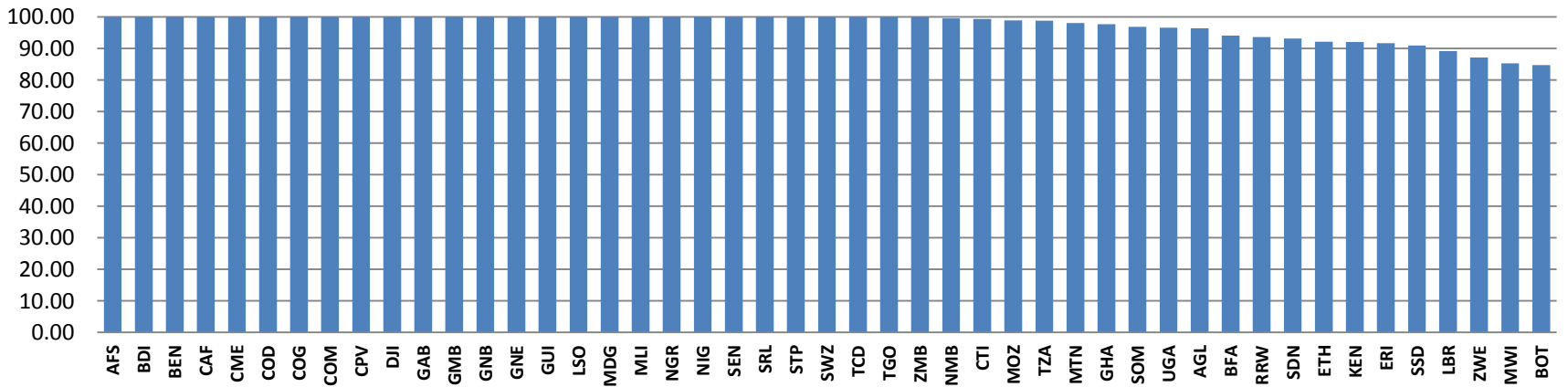
	Increase 2006-2008	Increase 2008-2012	Increase 2012-2014
■ 470-694	3.85%	16.14%	30.32%
■ 694-790	3.51%	14.52%	20.62%
■ 790-862	-2.03%	8.48%	2.78%

1st and last iterations for SSA

Iteration 1, percentage of assigned channels



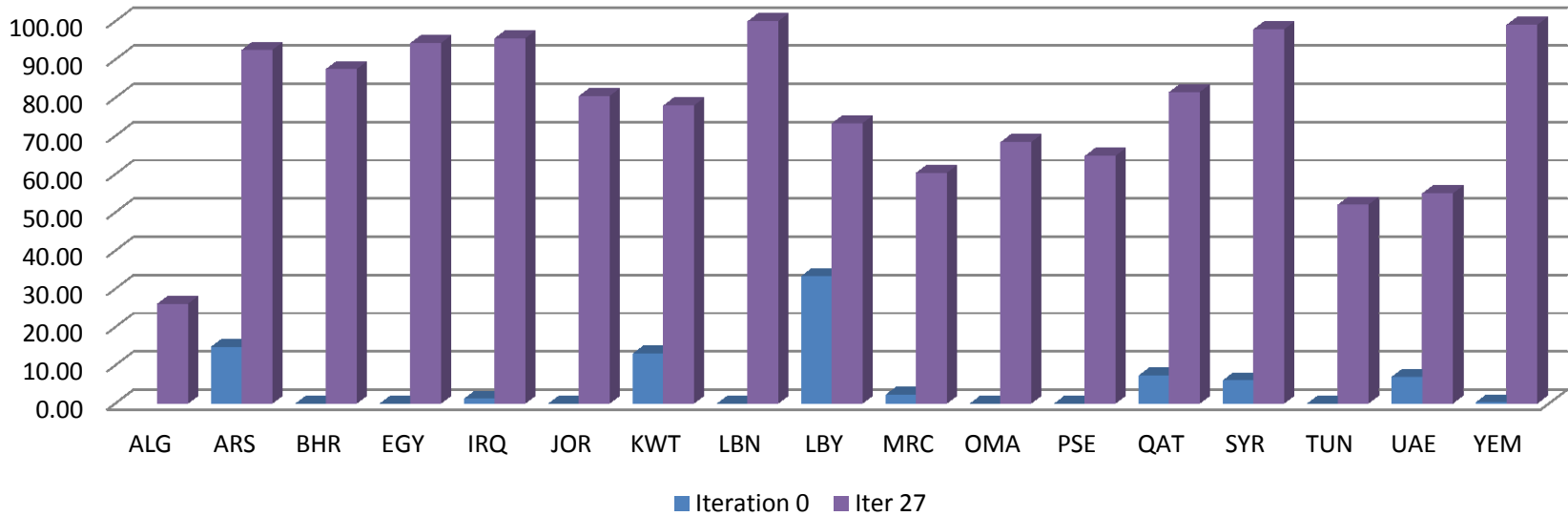
Iteration 33- Nairobi-2



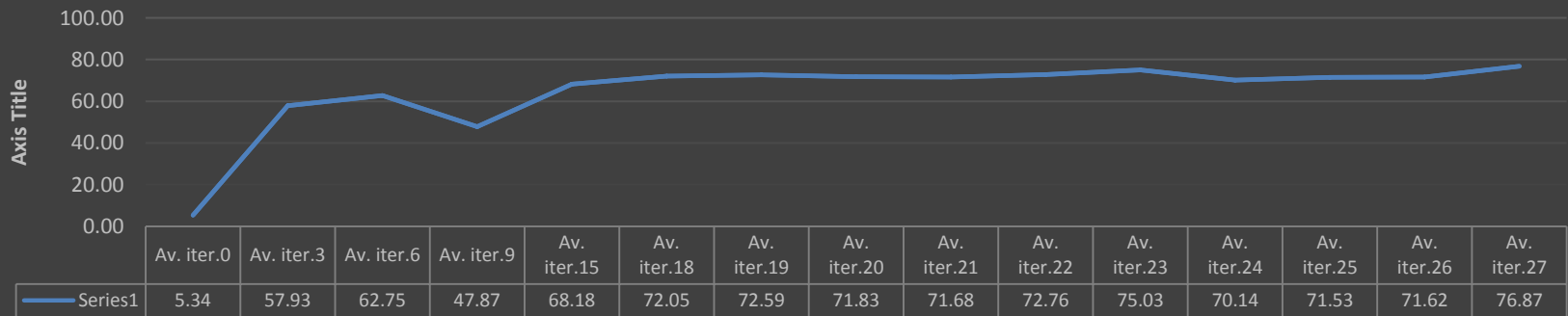
■ Percentage Assignable/submitted

ASMG assignable channels

Evolution of assignable channels



Average assignable



Website demonstration

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

THANK YOU !!

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