PLEASE NOTE THAT SPEAKERS ARE NOT YET CONFIRMED UNLESS EXPLICITLY MENTIONED OTHERWISE.

The 2014 Sub-Sahara Spectrum Management Conference

Radisson Blu Hotel Sandton, Johannesburg
18 & 19 February 2015

DAY 1

08.30 – 09.00   **Coffee & Registration**

Session 1: Keynote Presentations

09:00 – 09:25   **Opening Keynote Presentation**
Mario Maniewicz, Deputy Director of the Radiocommunications Bureau, ITU
(confirmed)

09:25 – 09:50   **Keynote Presentation**
Dr Stephen Sipho Mncube, Chairperson, ICASA **(confirmed)**

09:50 – 10:15   **Keynote Presentation**
Abdoulkarim Soumaila, Secretary General, ATU **(confirmed)**

10:15 – 10:40   **Keynote Presentation – The International Perspective**
Andreas Geiss, Head of Spectrum Management, European Commission **(confirmed)**

10:40 – 11:00   **Morning Coffee**

Session 2: WRC-15: Key positions, priorities and agenda items ahead of the conference preparatory meeting
WRC-12 showed the growing potential of the African region to influence regulatory decisions at a global level, when their proposal to make the 700Mhz band available for mobile was agreed despite initial reservations from European countries. With WRC-15 considered by many to be the most important for many years with many crucial spectrum and band plan issues up for discussion in prime spectrum bands, this now offers a huge opportunity for the region to put its views, and ensure that the needs of spectrum users in the Sub-Sahara are fully represented and protected. Ahead of the vital Conference Preparatory Meeting (CPM-15-2) which will take place next month, this session will offer the opportunity to examine where we are with the development of the common positions and proposals, where there are still decisions to be made, and where the key priorities and agenda items for the region lie.

11:00 – 12:30   **Speed-pitch session**

Moderator: **Bashir Gwandu**, Chairman, Commonwealth ITU Group (CIG) **(confirmed)**

Speakers representing various industries and countries from across the region, including:
Dr Adam Imoro, Consultant, African Union of Broadcasting (UAR) **(confirmed)**
Representative, **GSMA (confirmed – speaker name tbc)**
George Ah-Thew, Programme Officer – Telecommunications, Southern African Development Community Secretariat (SADC) (tbc)
David Hartshorn, Secretary General, Global VSAT Forum (GVF) (tbc)
Representative, **Chipset Manufacturer**

12:30 – 13:45   **Lunch Break**

Session 3: Meeting the deadline for Analogue Switchoff
With the ITU-mandated analogue switch-off deadline of 2015 fast approaching, many countries across the Sub-Sahara region are still yet to finalise their plans and proposed timeframes. This session will look at the current situation in different countries across the region, and who is in the most danger of missing the deadline. It will also examine the risks that could appear if governments and regulators look to meet deadlines at all costs and switch off their signals before the transition to digital, and at the best way forward in planning an efficient digital switchover.

- *How important is it for Governments and regulators to do everything possible in order to meet the 2015 deadline and which countries across the region already have the required digital TV infrastructure in place?*
- *What options are available to those that don't to ensure it is rolled out quickly and efficiently?*
- *How can citizens be persuaded to purchase the necessary equipment and set-top boxes?*
- *What are the potential dangers to the broadcast sector if switch-off is pushed through too quickly, and how do these compare with possible dangers both to broadcast and the emerging 700 MHz IMT band if there are considerable delays?*

13:45 – 15:15   **Panel discussion**

Possible speakers:
Ellen Nanuses, Secretary General, SABA **(confirmed)**
Professor John S. Nkoma, Director General, Tanzania Communications Regulatory Authority **(confirmed)**
Andrew Rugege, Director, ITU Regional Office for Africa (tbc)
Elsayed Azzouz, Head of Radio Spectrum Management and Planning, National Telecom Regulatory Authority (NTRA), Egypt (tbc)
Representative, **Mobile operator**

15:15– 15:35   Afternoon Coffee

15:35 – 16:00   Introductory Presentation: The challenges of valuing digital dividend spectrum in Africa
Philippe Berard, Managing Consultant, Coleago Consulting **(confirmed)**

Session 4: Designing the Digital Dividend
The digital dividend offers arguably more opportunity for economic and social impact in Africa than in any other region. To achieve this, it is important that a harmonized and co-ordinated approach is adopted, and the 47 countries of sub-Saharan Africa took a big step towards this when last year they became the first region to agree to harmoniously allocate digital dividend spectrum to mobile services in both the 700Mhz and 800Mhz bands. There are currently however a number of bandplan and timing decisions still outstanding, and the direction that some countries (such as Kenya and Rwanda) are considering in taking of launching wholesale LTE networks also opens up some interesting questions. This session will address all this, and look at the best way forward to ensure the long-term benefit of the digital dividend is realized to its full potential.

- *What band plan proposals have currently been put forward for the 700Mhz band, and to what extent which option will offer the greatest benefit for consumers and mobile operators?*
- *Which options across the 700Mhz and 800Mhz bands would offer the most benefits in terms of inter and intra-regional harmonization, and provide long term economies of scale?*
- *What timing options have been put forward for the respective bands in order to achieve this?*
- *Should countries look at implementing wholesale networks in the digital dividend bands and how successful can this approach be in both promoting competition and efficiently rolling out LTE networks in developing countries?*
- *Looking further forward, what should the long-term approach to the 600Mhz band be in Africa? Does it have a future as an IMT band?*
- *To what extent can interoperability and roaming facilitation across the region be expected in the near future?*

16:00 – 17:30   **Panel discussion**

Moderator: Amit Nagpal, Partner, Aetha Consulting **(confirmed)**

Speakers to include:
Stanley K. Kibe, Director, Frequency Spectrum Management, Communications Authority of Kenya (CA) **(confirmed)**
Mortimer Hope, Director Spectrum and Public Policy, Africa, GSMA **(confirmed)**
Representative, **Qualcomm (confirmed – speaker name tbc)**
Representative, **ICASA** (tbc)

17:30   **End of day 1**

DAY 2

Session 5: Connecting Africa - Working together to tackle the digital divide
The use of the digital dividend spectrum discussed in the previous session will play a big part in delivering mobile broadband to outlying areas and tackling the digital divide. Alongside this however, there are a huge number of other technological and regulatory

tools that are available in order to help solve the problem, and in order to achieve the ultimate goal of universal access. This session will look at some of these options and discuss the right technology mix to provide the best solution

- *What technology mix or solutions can play a part in delivering connectivity to outlying areas now and in the future?*
- *How can we connect currently underserved areas quickly and efficiently?*
- *What policies and technologies are currently being seen in different countries, and which are having the most success?*
- *What mixture of licensed and unlicensed spectrum provides the best solution?*
- *What can be done by regulators to stimulate private investment to build infrastructure and provide the required equipment, and what role can public-private partnerships play?*

Moderator: **Hilton Theunissen,** Non-Executive Director, ConnectAfrica (tbc)

09:15 – 09:30   **Presentation: Title to be confirmed**
Representative, **Ericsson (confirmed – speaker name tbc)**

09:30 – 09:45   **Presentation: Dynamic Spectrum Access**
Speaker to be confirmed

09:45 – 10:00   **Presentation: Satellite**
Representative, **SES** (tbc)

10:00 – 10:15   **Case Study: A regulatory perspective**
Elhadji Maman Laminou, Executive Secretary, West Africa Telecommunication Regulation Assembly (WATRA) **(confirmed)**

10:15 – 10:30   **Case Study: Internet.org – Delivering free basic internet access**
Guy Rosen, Product Management Director, Internet.org (tbc)

10:30 – 11:00   **Panel discussion with the session's speakers**

11:00 – 11:20   **Morning Coffee**

Session 6: Spectrum requirements across the Sub-Sahara region – where do the long term and short term priorities lie?
With much of the mobile use in Sub-Saharan Africa currently based around for text and voice calls rather than broadband, the region is not experiencing immediate capacity problems in the same way as is being seen elsewhere around the world. Therefore short-term strategies in the region are often geared towards using spectrum to deliver digital inclusion and increase coverage, and ultimately, contribute to the overall growth and development of countries. However, as mobile markets in countries develop, the forecast of huge population surge coupled with the lack of a fixed broadband network to offload traffic, has led to some predicting that in the future the region risks an even more severe 'spectrum crunch' than has been seen elsewhere. This session will look at the current strategies and priorities of regulators, operators and other spectrum users, and at what needs to be done in both the long and the short term to ensure that the

available spectrum is being used in the most efficient way, and that the potential that it offers in helping to deliver economic growth to the region is maximized.

- *What current spectrum strategies are being seen across the region, and what goals and priorities are Governments and regulators looking to address?*
- *Is there an opportunity to think long-term and put a strategy into place now in order to successfully meet the spectrum needs of the 'mega-cities' of the future, or should the focus be on shorter term goals?*
- *How can it be ensured that spectrum is being used efficiently by all users, including the military and public sectors?*
- *What role can spectrum sharing play in this and what sharing models offer the best approach?*
- *How can it be ensured that the needs of all spectrum users and the essential services that they provide are met across the region in both the short-term and the long term?*
- *With the need for new spectrum bands in the future arguably higher in Africa than in Europe, is there an opportunity for policymakers to take the lead in identifying these for region 1, and in making the bandplan and timing decisions for their release?*

Moderator: Representative, **Plum Consulting (confirmed – speaker name tbc)**

11:20 – 11:30   **Introduction from Moderator**
Representative, **Plum Consulting (confirmed – speaker name tbc)**

11:30 – 11:45   **Presentation: Spectrum Monitoring – Current spectrum usage across the Sub-Sahara region and projected requirements for the future**
Representative, **CRFS** (tbc)

11:45 – 12:00   **Presentation: Mobile**
Speaker to be confirmed

12:00 – 12:15   **Presentation: Broadcast**
Aldred Dreyer, Chief of Technology and Broadcasting, Namibian Broadcasting Corporation (NBC) (tbc)

12:15 – 12:30   **Presentation: PPDR – Public Safety**
Speaker to be confirmed

12:30 – 12:45   **Spectrum sharing: enabling innovation while preserving current usage**
Representative, **Huawei (confirmed – speaker name tbc)**

12:45 – 13:15   **Panel discussion**

13:15 – 14:15   **Lunch Break**

Session 7: Best practice in spectrum awards for an open and competitive market
To date, whilst there have been a few successful auctions held in countries across the Sub Sahara region (such as Nigeria), the use of market mechanisms such as auctions, trading and incentive pricing has in the whole been relatively limited. Drawing on

experience from the previous awards across the region and beyond, this session will look at the best way to handle license renewals and awards, and at when auctions may be appropriate. It will look at the extent to which market-based allocation of spectrum can be successful in the region, and at the competition tools that are available to regulators in the situations that it may not. Finally it will look at spectrum valuation, and at how best to price spectrum when auctions are not being used.

- *What lessons can be taken from previous auctions and other spectrum awards that have taken place both in Sub-Sahara and in other regions?*
- *In what situations should auctions be considered as an appropriate method of allocating spectrum, and what role can they play in encouraging competition and new market entrants?*
- *How can regulators best decide on what the optimum number of operators in a specific country should be?*
- *What is the appropriate balance between market mechanisms and administrative decisions in spectrum awards?*
- *In the case that spectrum is awarded in other methods than auctions, what methodologies and tools can be used to ensure that bands are priced appropriately?*
- *How do local factors, such as population size and local market structure, affect decisions on use of auctions and market pricing?*
- *What approach should regulators be taking with regards to license renewals in the 900MHz, 1800MHz and 2.1GHz bands? Is a new, clean award of spectrum the best way forward, or should licenses simply be renewed?*

14:15 – 16:00   **Panel Discussion**
Augustine Nwaulune, Director of Spectrum Administration and Management, Nigerian Communications Commission (tbc)
Representative, **Vodacom** (tbc)
Representative, **Auction expert** (tbc)
Representative, **Auction expert** (tbc)

16:00   **End of Conference**