



AFRICAN ADVANCED LEVEL TELECOMMUNICATIONS INSTITUTE (AFRALTI)

TRAINING WORKSHOP OUTLINE

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| Title: | TELEVISION WHITE SPACES |
| Venue: | 2 nd – 6 th March 2015 |
| Duration: | 5 Days |
| Venue: | Mutare, Zimbabwe |

Course Overview:

An exposition on the evolution of the White Spaces, particularly TV White Spaces (TVWS) will be given, followed by a detailed introduction to TVWS and opportunities that they present. Once the concept and technology about the TVWS is understood, the participants would be presented with the key partnerships for establishing a successful TVWS project prior to speaking with funding sources about infusion of capital. Assuming a successful project deployment, participants would need to learn more about the history and the evolution of a typical pilot project. As such, the following presentations would be given:

- ✚ TVWS network design (Simulation exercise on estimated coverage)
- ✚ TVWS network deployment overview
- ✚ Example applications on TVWS network infrastructure (Internet, DSpace, Seismic and GPS (M2M))
- ✚ Investor side business model for a typical TVWS pilot network
- ✚ Drafting of TVWS regulations and white spaces devices (WSDs) specification listing

Target Audience:

Key personnel drawn from broadcasting houses, telecom mobile operators and telecommunications regulators.

Pre-requisite/s:

Some background study in RF Engineering, Broadcasting Technologies, Spectrum Management, Economics of Telecom Industry, ICT Market Specialists, Telecom Law, Wireless Communications, Networks and Computing

Methodology: Power point presentations, computer simulations for radio propagation and coverage estimations (Group Work), TVWS network diagram generation using online tools (Individual Work), business model and TVWS regulations (Debate or Focus Group Discussions, with Rapporteurs).

Workshop Objectives: Ensure that participants understand why white spaces. Convince participants to promote white spaces technology in their countries. Assist participants on the

best practices toward creating sustainable white spaces project. Provide scientific, engineering, networking and mathematical tools for the design and implementation of a TVWS project. Discuss the elements for a sustainable investor side business model and the regulations governing the usage of white spaces for example TVWS regulations.

Workshop Contents/Topics:

- ✓ An exposition on the evolution of the White Spaces, particularly TV White Spaces (TVWS): **1/4 day**
- ✓ Introduction to TV White Spaces (TVWS) and opportunities that they present: **1/4 day**
- ✓ Key partnerships for establishing a successful TVWS project: **1/2 day**
- ✓ TVWS network design (Simulation exercise on estimated coverage and deployment overview): **1 day**
- ✓ Example applications on TVWS network infrastructure (Internet, DSpace, Seismic and GPS (M2M)): **1 day**
- ✓ Investor side business model for a typical TVWS pilot network: **1 day**
- ✓ Drafting of TVWS regulations and white spaces devices (WSDs) specification listing: **1 day**

For more information, please contact us on:

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