

TV White Space Networks Deployment: A Case Study of Mankweng Township in South Africa

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Abstract: The role of cheap and easy access to various telecommunication facilities is crucial for further community development. Such an observation is of particular importance for the developing countries all over the world since reliable and open access to communication systems can fasten the reduction of the development gap. In this work we analyze the benefits that can be obtained by application of TV White Space network, i.e. the network that operates in vacated TV band in a cognitive manner. The whole analysis is conducted based on specific use-case, i.e. the test network deployed in the Mankweng Township.