

TV white spaces beneficiary profile:
Highland Rural Connectivity in Bohol, Philippines
Singapore White Spaces Pilot Group

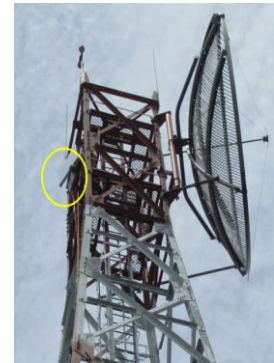
The Island of Bohol is 4117 square kilometres, surrounded by 73 smaller islands. Other than being a popular tourist spot, Bohol Island is also known for agriculture over both gently rolling terrain and the mountainous interior where hills drop steeply to the coast from a maximum elevation of 870 meters above sea level.



Half of the economic activity of Bohol is contributed by agriculture. Sparsely located pockets of population found all around the island have slow or non-existent network connectivity.

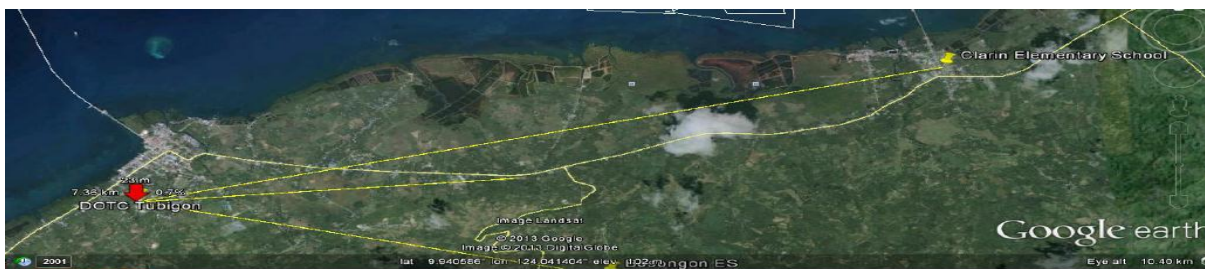
Due to this lack of connectivity, Power Automation (PA) is working closely with DOST, ICTO and local partners to provide a greater wider network infrastructure to the island using TV White Space (TVWS). TVWS creates a wireless network whose signal can cover greater distances than traditional networks and travel through the forested terrain.

For a start, a TVWS base station was set up at a transmission tower at DOTC Compound at Tubigon, Bohol. This is a simplified base station setup whereby the main communication path will be to the surrounding areas within 3 – 7km radius of the base station.



For this implementation, the TVWS clients are set at local schools or community areas within the villages. The establishment of TVWS connection provides the linkage between Bohol city and the rural corners of the island.

Designed for optimum coverage to the populated pockets, the TVWS network could be easily expanded to various corners of the island to ensure better and faster connectivity.



For more information, please contact Singapore White Spaces Pilot Group member from Power Automation, Kerk See Gim, at sgkerk@pa.com.sg