

Our solution consists of 2 parts

Part I:

Free Space Optical communication (FSO) from Gram Panchayat (USO) ONT locations to sparsely located individual households in rural areas which are 3 – 10 kms far from these ONT locations.

Part II:

Last mile connectivity using hexagonal structure of routers.

Youtube links as a supporting documents for our solution

Part I FSO communication :

- 1). <https://youtu.be/K0mqoDKdl-4> (This link contains detailed design and simulation of Free Space Optical communication using laser)
- 2). <https://youtu.be/GlfzzAo0Qo0> (This link contains working of Free Space Optical communication using laser or a prototype 1.0)

Part II Extending WIFI From one router to another and thus creating a hexagonal structure :

- 1). <https://youtu.be/k97FYReoZMw> (This link contains detailed working of our second part of the solution with all the settings done and we have checked it, its 100 % working)