

Rural Connectivity

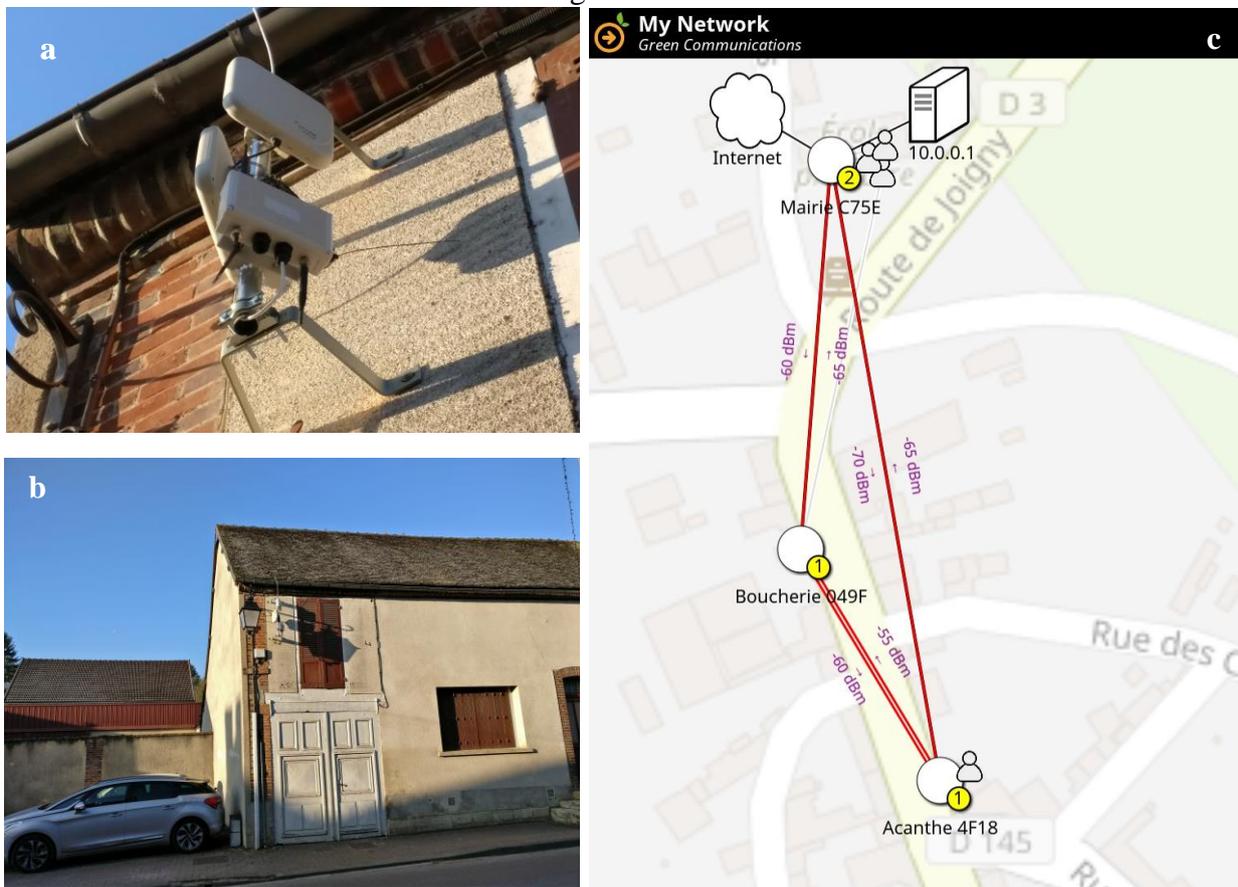
with

Engie

In 2015, about 3600 villages were missing wireless Internet access in France. Connectivity gap of rural areas is mainly due to the extensible cabling of traditional Internet Infrastructures that makes network deployment prohibitively expensive. To solve this issue, French Government realized 30 M euros in 2016 to support rural area digitalization. In this context, Engie chooses Green PI, a new generation of Internet infrastructure to connect people and things in rural areas.

The experiment took place in a village of north-central France. Green PI's low power routers (YOI) were installed on house's facades (figure 1.a, b,) to extend Internet coverage of the town hall to the main street (Figure 1.c.).

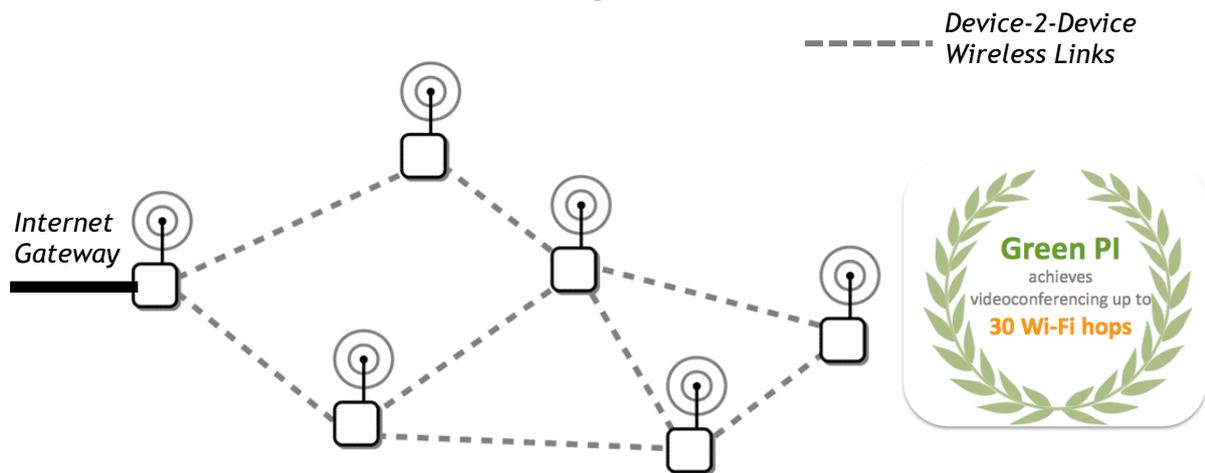
Figure 1





YOI connected automatically to the Internet gateway and with each other using an advanced wireless Device-to-Device technology thus to remove expensive cabling of the network. Green PI's patented routing software then ensured best performance in terms of Device-to-Device communications transferring video, calls and data over long distance and multiple hops (up to 30!).

Figure 2



Citizens and visitors could connect to the Internet using Wi-Fi and 3G and walk down the main street without being disconnected thanks to Green PI's handoff. Engie also used the Internet infrastructure as backhaul for energy management sensor networks (IoT).

Thanks to its cable free and self-configuring properties, Green PI offers an easy to deploy while affordable Internet infrastructure for both Public Wi-Fi, Mobile Internet and Internet of Things (IoT). Reducing up to 10 times the cost of wireless Internet infrastructure, Green PI facilitate the digitalization of rural areas as well as emerging countries and of any other white spots such as trains, planes, ships, etc.

They trust us:

