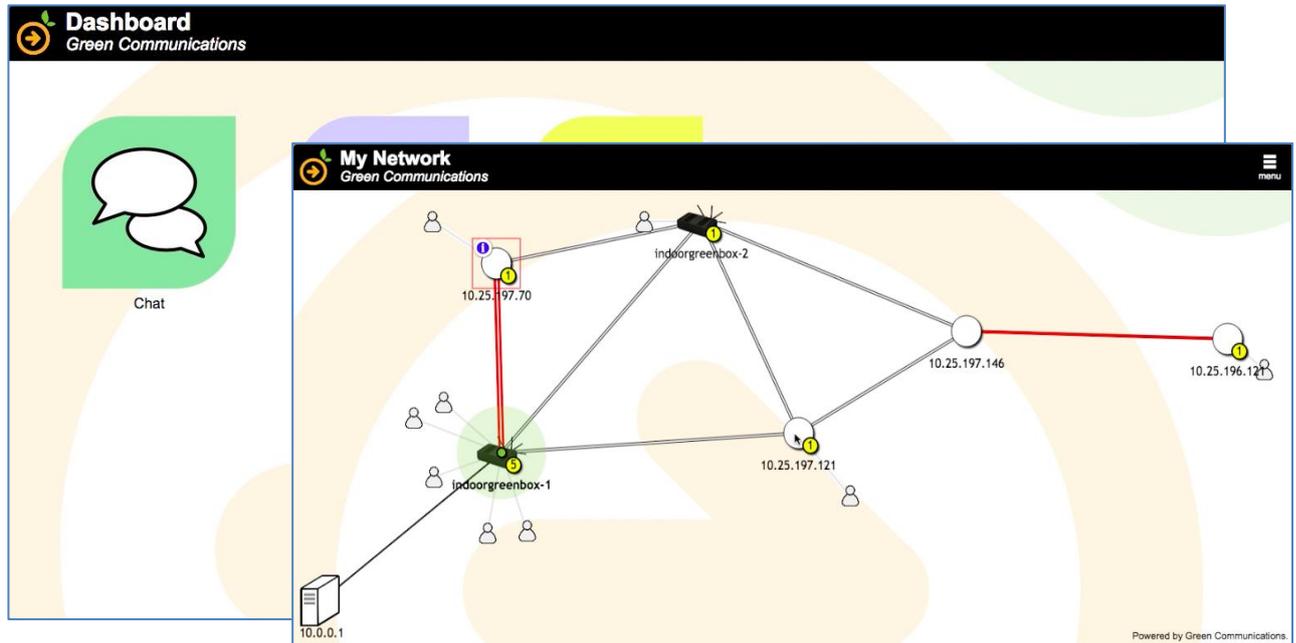# Emergency network

with

Groupe INTRA

The Groupe of Robotics INTervention on Accidents (INTRA) is specialized on first response on major nuclear accident. Groupe INTRA's previous connectivity infrastructure used wires to transfer real time videos from unmannered vehicles (drones and robots) to a control station where they were analysed and relayed internationally through a satellite connection. Although the solution provides low latency, it wasn't providing rescuers with enough mobility. In addition, just a subset of the rescuer had access to the videos and essential information provided by the satellite connection. They needed a wireless solution that would replace cables while connecting the overall rescue team on the field with an interoperable and secure network.

Green PI technology, developed by Green Communications was the suitable solution. Easy to deploy, self-configured and autonomous, Green's routers (YOI) can be deployed quickly in an area or held by people. Within minutes, 6 outdoor YOI were displayed following the map bellow and unmanned vehicle's cameras were connected to the network.

Once the network turned on, rescuers could access real time videos and embedded services such as a chat and VoIP application by using a regular smartphone, a tablet or a laptop connected to the secure Wi-Fi. **All services and security were previously embedded and distributed into the network without any single point of failure** in order to provide the rescue with maximum of autonomy, interoperability and mobility.

Green Communications, SAS – 86 rue de Paris – 91400 Orsay PARIS
contact@green-communications.fr
www.green-communications.fr

Green PI Embedded Internet Portal:

During the six hours exercise, Green PI network transferred continuously four real time videos at the time and an average of twenty people were using the local platform (see video) while moving on the network thanks to Green PI's handoff functionality.

About Groupe INTRA:

The Groupe of Robotics INTervention on Accidents (Groupe INTRA) conceive and exploit a fleet of robotics machines operating substituting humans in case of major nuclear accident. Since its creation in 1988, Groupe INTRA has developed an expertise of the remote intervention by capitalizing on the experience of it founding companies EDF, CEA and AREVA.

About Green Communications:

Green Communications created Green PI (Participatory Internet) to answer connectivity challenges of network densification, mobility and sustainability. Green PI is a wearable and autonomous wireless network that uses advanced Device-to-Device and embedded technologies to make wireless networks easy to deploy, affordable and autonomous.

Some of our references in Public Safety and Defence: