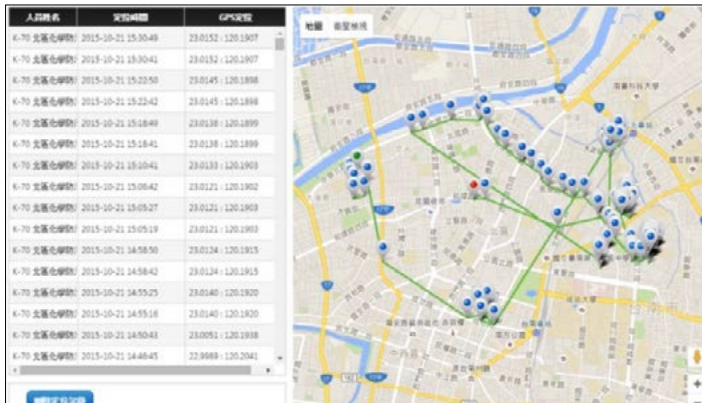**Connected Living**

Tainan:
Dengue Fever

Dengue Fever is a viral infection that is spread by mosquitoes, causing fever and other symptoms. In a small number of cases cases, dengue fever can be fatal. The best prevention for dengue fever is to control the mosquito population and prevent mosquito bites from occurring.

A major outbreak of dengue fever occurred in Tainan city, Taiwan in 2015 which resulted in 22,741 recorded infections and 112 deaths. The 2015 outbreak was the worst in Taiwan's history. In order to prevent further spread of the infection, local mobile operator Far EasTone worked with the city of Tainan to track new reported cases of dengue fever and provide the city with tools to effectively bring the outbreak to an end.

By working with the cities health authorities, Far EasTone were able to map the location of reported cases of dengue fever that were reported at local health centres and identify the areas where most infections were occurring. Using this data the city was able to understand where mosquito repellent needed to be used to kill off the local mosquito population and prevent further spread of the disease.

Far EasTone provided 4G tracking devices for the mosquito sprayers so that the city could be sure that all areas that needed to be sprayed were visited. The city was able to track the spraying progress and infection spread through a portal supplied by Far EasTone. The result was that the use of this technology helped the city understand the scale of the outbreak much faster and the outbreak was ended much more quickly than previously through the use of the tracking technology provided to the city.

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The GSMA is working with mobile operators, governments and city councils to agree a common approach to smart city solutions that will deliver real, long-term benefits to businesses and citizens.

For more information visit the website: **www.gsma.com/smartcities**
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