Disaster Response Innovation Fund

NOKIA SOLUTIONS AND NETWORKS OY
Nokia Saving Lives for the Philippines Red Cross

The Nokia Saving Lives programme seeks to provide communications technology and technical assistance to emergency response teams. The system consists of drones, a portable data centre, a mobile broadband network and applications like video streaming, gas sensing, mapping and analytics, which can help humanitarian response agencies undertake assessments.

The purpose of the GSMA grant is to launch Nokia Saving Lives for Philippines Red Cross through collaboration between Nokia, the Philippines Red Cross and Smart.

In the Philippines, Smart will provide high-speed connectivity for the Nokia drone system to help boost the disaster response efforts of the Philippines Red Cross. The system will enable Red Cross teams to communicate with each other and use the LTE connected search drones to monitor and assess the situation in the impacted area via a portable data and control center. This will enable the Red Cross to provide emergency assistance to communities in more timely, effective and efficient ways.



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FLOWMINDER FOUNDATION

Rapid Mobility Estimates from CDR for Efficient Disaster Response

The Flowminder project aims to provide mobile operators and their partners with the open source code needed to set up a system for monitoring population flows before and after a disaster.

A key challenge in humanitarian crises is to obtain timely, accurate, high-resolution, national information about numbers and locations of displaced people. Traditional methods, such as survey-based assessments provide crucial information in this regard, however, they are time-consuming, costly and often biased. De-identified mobile phone call detail records (CDRs) can be used to study human behaviour and mobility patterns at a large scale and in near real-time.

The GSMA grant will enable Flowminder to scale an open source code base developed through collaboration between Flowminder, the World Food Programme, and Digicel Haiti. The source code will be installed at operator data centres in-country, enabling operators or their partners to provide automated analytics to understand where best to target relief efforts immediately after a crisis.

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