## HOPE & COMPASS

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## THE PROBLEM

When disaster strikes, people get displaced and infrastructure gets destroyed. Communication infrastructure may be unavailable, and rescue operatives will have trouble communicating with the survivors. Currently, survivors cannot easily request for provisions. Commercial means of communication such as mobile networks are ineffective in the absence of infrastructure.



## THE SOLUTION

We pioneered the concept of Handset as an Infrastructure (Haal) with HOPE that was built with long range mesh technology. HOPE handsets transmit and relay data to/from other handsets, covering a theoretical distance of about 650,000 km; vital communications from survivors to C2 are done through iconography.

COMPASS automates logistics management and tracking of survivor locations. A detailed analysis of changed regions in a disaster zone can be obtained to strategically deploy resources to survivors. Broadcast messages can be also be sent to all HOPE handsets to disseminate information such as provision drop-off points to survivors in an area.



