



## Where There Is No Engineer

### MODIFIED AIRDROP SYSTEM

<b>Location</b>	Marsabit, Kenya
<b>Award</b>	Overall Winner WTINE 2015
<b>Project Title</b>	Modified Airdrop System
<b>Trip Video</b>	<a href="https://www.youtube.com/watch?v=xxTl_DK8pY">https://www.youtube.com/watch?v=xxTl_DK8pY</a>

Access to clean, safe drinking water is a huge issue around the world. 844 million people do not have access to clean water close to their home (*WHO / UNICEF 2017*). Often there is no national public water treatment system, and local water sources are insufficient to meet demand, and often unsafe to drink.

**The AirDrop System** is a device which can extract & harness moisture directly from the air, by adapting and modifying a new technology which was developed in Australia for crop irrigation. This technology can be designed in a low-tech, low-cost way which can be produced and utilised by people of Kenya.

The assembly involves a large plastic vertical axis windmill which rotates an intake fan. This collects and directs water particles towards a condensation coil at its centre. Collected water is then diverted to a tank underground.



*Airdrop Team in Kenya, 2016*