



FIELD READY



Water, Sanitation & Hygiene (WASH)

Problems in this sector

In many parts of the world, water resources and sanitation facilities are scarce and often of poor quality. This contributes to high rates of disease, which worsens in crisis settings where there is a lack of clean water and inefficient sanitation systems. Aid agencies are working to rebuild water systems, however making effective and safe water structures is challenging. One key reason is due to the lack of availability of suitable parts.

What Field Ready is doing

Field Ready is working in a variety of ways to support WASH programs. In 2015, for instance Field Ready made and installed a 3D printed pipe fitting in an IDP camp in Sindhupalchowk, Nepal. An assessment four months later revealed the part demonstrated its durability. Since then, the design has been implemented in different contexts and is an easily attainable solution for aid agencies to adopt when working to set up or fix water systems in the field.

Field Ready's WASH solutions are being brought to South Sudan where techniques such as traditional engineering and local manufacturing are being used to make spare and replacement parts that are unavailable in local markets. For instance, one small seal on the India Mark II water pump frequently breaks and the closest place to obtain this part is 800 miles away. When the seal fails the pump is unable to work causing women and children to have to walk further to collect water, which exposes them to greater risks of violence. Field Ready has the capacity to design and make this seal which not only decreases risks associated with collecting water, but also improve overall efficiency of water pumps.

In Jordan, 60% of water is lost due to water leakages. This strain on already scarce resources is further stretched as the country is trying to support a large population of refugees. Field Ready has been able to improve water fittings and will continue to develop water saving solutions. Additionally, Field Ready worked in partnership with Save the Children to create a program to improve the handwashing practices of children, known as the "Hidden Incentives" program. This entails a small toy that was placed in the center of a bar of soap.

Impact

We have developed new parts to increase better water efficiency and have partnered with notable organizations to scale our programs. We worked with Water for South Sudan to assess and develop pipe fittings, and facilitated trainings at a local maker space. We will continue to expand out WASH initiatives globally.