

## The usage in medical areas

In the medical field there are several possible areas of application. Two where our technology can make the most drastic changes are in areas with insufficient infrastructure. While this is not the case in the western hemisphere, with an ever increasing and degrading medical coverage in rural areas, there is also room for our technology to aid. One of the key advantages of our technology is the possibility of bi-directional transport – therefore, it is not only possible to send medicine to a person in need, but potentially also acquire samples to test in the lab.

The two cases for medical support in areas with insufficient infrastructure are travelling and local (stationary) doctors.

For travelling doctors, they could have a multicopter on the back of their truck, which would fly up (see under 3) and pick up the package or bring the samples up to the fixed wing. This allows for flexible transport routes that can be established over large distances. Therefore, it will be possible to delivery of rare, not on hand drugs in a timely manner and quickly transport of medical samples back to laboratories.

For local (stationary) doctors, the quality of care could be improved. For one it would be possible to deliver not-on-hand or rarely used medical equipment or drugs, making it possible for patients to wait for their turn. In the same vein, it is possible to send samples to a larger medical hub with laboratory to test samples such as blood. Furthermore, the supply of time-critical or temperature-sensitive drugs (such as vaccinations) will be possible. In a study, the costs of cooling vaccines made up a large portion of costs – eliminating those can not only save money but also lives.

