

# Title Advantages Of Khmer GEONET

## JC Agricultural Cooperative co., Ltd.(JCAC)

### About Company

JC Agricultural cooperative co., Ltd.(JCAC) is agricultural machinery company operated by Japanese management and Cambodian staff, registered in Cambodia on 21Nov2016.

JCAC conducts business mainly in Battambang, providing 2<sup>nd</sup>-hand-tractor and drone service directly to local Cambodian farmers



### How we use Khmer GEONET

We make use of Khmer GEONET for accurate flight of drone which spray fertilizers and chemicals on paddy farm. By Real-Time Positioning Service of Khmer GEONET, we can fly drone much more accurate than GNSS flight.

Accurate flight of spray-drone can lead to saving in the usage of fertilizers and chemicals, and it can also prevent chemicals from being sprayed in places outside paddy farm.



### Without Khmer GEONET

Drone flight by only GNSS information is not accurate. We can see it by the fact the drone does not comes back to exactly the same place where drone takes-off, even if we set auto-flight plan to land at the same place as it takes-off. This inaccuracy leads to inefficient spray of fertilizers/chemicals especially at the edge and corner of paddy farm.

### With Khmer GEONET

We could confirm the accuracy of drone flight under Khmer GEONET by checking the location of take-off and landing (the drone landed exactly the same place it took-off), as well as the standard deviation analysis. This means the drone can spray fertilizers /chemicals accurately even at the edge and corner of the farm, and does not spray outside the paddy farm.

### From here forward

In case the number of CORS increase covering all provinces in Cambodia, we'd like to introduce more sophisticated Japanese smart-agri-solutions which requires more accurate coordinate information, such as autonomous driving of tractor/harvester, auto-irrigation system, etc