

The 4th industrial revolution is the concept of blurring the real world with the technological world, this has been talked over the past years and in Africa it has a widely effect on education, health and infrastructure.

Rwanda one of the country of Africa has used the 4th industrial revolution to answer the challenges which were facing the countries in many domains, the example of one of the use of it in terms of health and infrastructure. Rwanda has been the first country to use drones to transport blood for transfusion. As one of developing countries, infrastructures such as roads are still a challenge to blood transfusion and other urgent matters in medicine services.

This method has been introduced to help to transport blood for transfusion where it is very difficult for other vehicles to reach this drones will reach there in a short time. The advantages of drones which are used in this transport of blood is that they can transport many kilograms up to 1.50kg, the time is less according to vehicles, where normal vehicles can use 4 hours, the drones will use 35 minutes, the other advantage is that it is not expensive to use them as for other planes, the benzene gas is used but these drones are chargeable drones.

I will tell you how these drone works, as some can think that the weight of what the drone use is not very high but it can help in my urgent matters as those 1.50 kg that drones can transport this include blood, medicines which can be used to very high population, vaccines and so on. Those drones have GPS into them so that they can locate easily the location they are heading to. In southern province, Muhanga district, it where the location of Zipline the company which manufacture these drones. The health center which need blood sent an email giving their GPS location and the quantity needed to the Zipline company at Muhanga and the workers of this company use the technology by giving the commands to drones and the drone read it using the virtual technology and after sending data on the location it have t head to, they take the box which contain blood for transfusion and head to the given location. If the drone reach the given location it reduces its speed and it escalades to the ground, and after delivering the box it goes back to Muhanga to the main location.

One of the challenges of using this technology is that there aren't qualified persons within the country to use them so they use the foreigners to use this kind of technology.

This technology Rwanda has introduced shows how they want to combine the 4th industrial revolution to a better change it shows the strength and will the government has to improve medical service and urgency without compromising the infrastructure growth using the technology to sustain the health of the population which will reduce the rate of mortality especially to new born children and mothers.