Blockchain/UAS Case Study Example

The different actors and their actions or types of data needed in the case of a route and altitude adjustments due to a change in weather for the organ transfer by drone.

Organ-supplying hospital provides donor's blood type and age, time of harvesting, and other information upon obtaining the organ in order to minimize the likelihood of medical error at receiving hospital.

After the drone takes flight, the **drone operator** decides to update the flight path of the drone based on newly updated weather.

The **drone** updates the time of arrival and the drone's **organ container** updates its internal pressure, temperature, humidity, and vibration level data upon arriving at the new altitude.

Blockchain Written To

1

2

5

BLOCKCHAIN

Blockchain Read From

3

4

6

Air traffic control is aware of new flight path and makes traffic adjustments.

Drone notes new flight plan and adjusts flight path and altitude.

Receiving hospital monitors health of the organ based on updated container information and adjusts surgery schedule based on new arrival time due to flight plan change.