1. **AI/ML : Strategic and Tactical Deconfliction and Decongestion for UAS and Manned Flights**

One of the primary problems in the UAS field is the potential increase in the conflicts and congestions as the UAS gets incorporated into traditional manned airspace. The ideas could be in terms of addressing conflict and congestion between UAS- UAS and UAS – Manned Flights.

**Specific Problem statement: Any one may be picked by the participating team**

1. Come up with an innovative idea to identify potential conflicts based on the UAV flight plans. Flight plan is the planned route for a flight which contains a set waypoint defined by latitudes, longitudes and altitudes. Dummy routes that cross each other defined by a set of latitudes and longitudes can be considered for this purpose. A conflict is defined as UAV coming within a proximity of less than 1KM of each other.
2. Come up with an innovative idea to identify potential congestion areas based on the UAV flight plans. Flight plan is the planned route for a flight which contains a set waypoint defined by latitudes, longitudes and altitudes. Congestion is defined as a circle of 5KM radius that has crossings more than 25 percentile of the total crossings. Dummy routes that cross each other defined by a set of latitudes and longitudes can be considered for this purpose.