The first agriculture drone of its type, it is quad tiltrotor fixed-wing UAV configuration with all 4 rotors at ends of 4 wings. It isn’t just an abstract idea of an unrealistic drone configuration but a thorough analysis and calculation of its performance in required mission, manufacturability, procurement and mitigation of all possible safety hazards.

Among all the configurations possible for UAVs, it offers the best trade-off among cost, drone stability & spray accuracy, safety, mission time and energy consumption. According to the detailed calculations provided in each section of CDR below, this 7kg drone can carry pesticide spray of 3 liters and can complete the mission through longest (4km) route in far less than 10 minutes.