

# Challenges

- Endurance and Range
- Precise Manoeuvres and Stability
- High Speed Obstacle Avoidance
- Real-Time Connectivity
- On-Board Intelligence
- Fault Tolerance of Autonomous Systems

# Novelty and Solutions

- With dual axis - tilt rotor mechanism, our aircraft is more stable during manoeuvres at high speeds and against disturbances in UAV due to cross winds.
- Exclusive stabilizing mechanism, which is an integrated system of tilt-rotors, control system fused with sensors and Autonomous system.
- Stabilizing Mechanism also aims to stabilize the UAV even if there is a collision, hence increasing the reliability of UAV and safety.