

HAPS Challenge Footnotes

- ¹ Stratospheric
- ² Runway independent operations
- ³ To meet safety and operational effectiveness objectives, allow deployment remotely, to follow targets or maintain a position
- ⁴ Includes platform, mission and flight system and ground segment
- ⁵ See https://smartsatcrc.com/partners/smartsat-aurora/
- ⁶ Total payload should be at least 10kg. If this cannot be done, a design rationale for the selected payload must be provided. Payload suite should include:
 - Redundant long-Range (100+km) and high-bandwidth (>5mbps) communication to ground (via direct LOS or bent pipe)
 - Redundant low-bandwidth radio (telemetry only)
 - High resolution (>50mpx) colour camera
 - Thermal Camera
 - LWIR camera and/or Hyperspectral camera
 - Barometer
 - Temperature sensor
 - · High precision IMU and Gyro unit
 - Jetson Nano central computer
 - GPS

Energy source for 7+ days of operation

