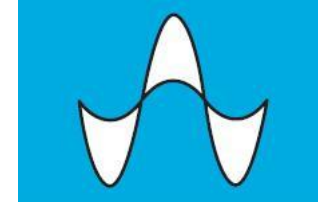


ARC TRAINING CENTRE FOR CUBESATS, UAVs,
AND THEIR APPLICATIONS



a partnership between



CUAVA-1 Air@Wave Communications Pty Ltd

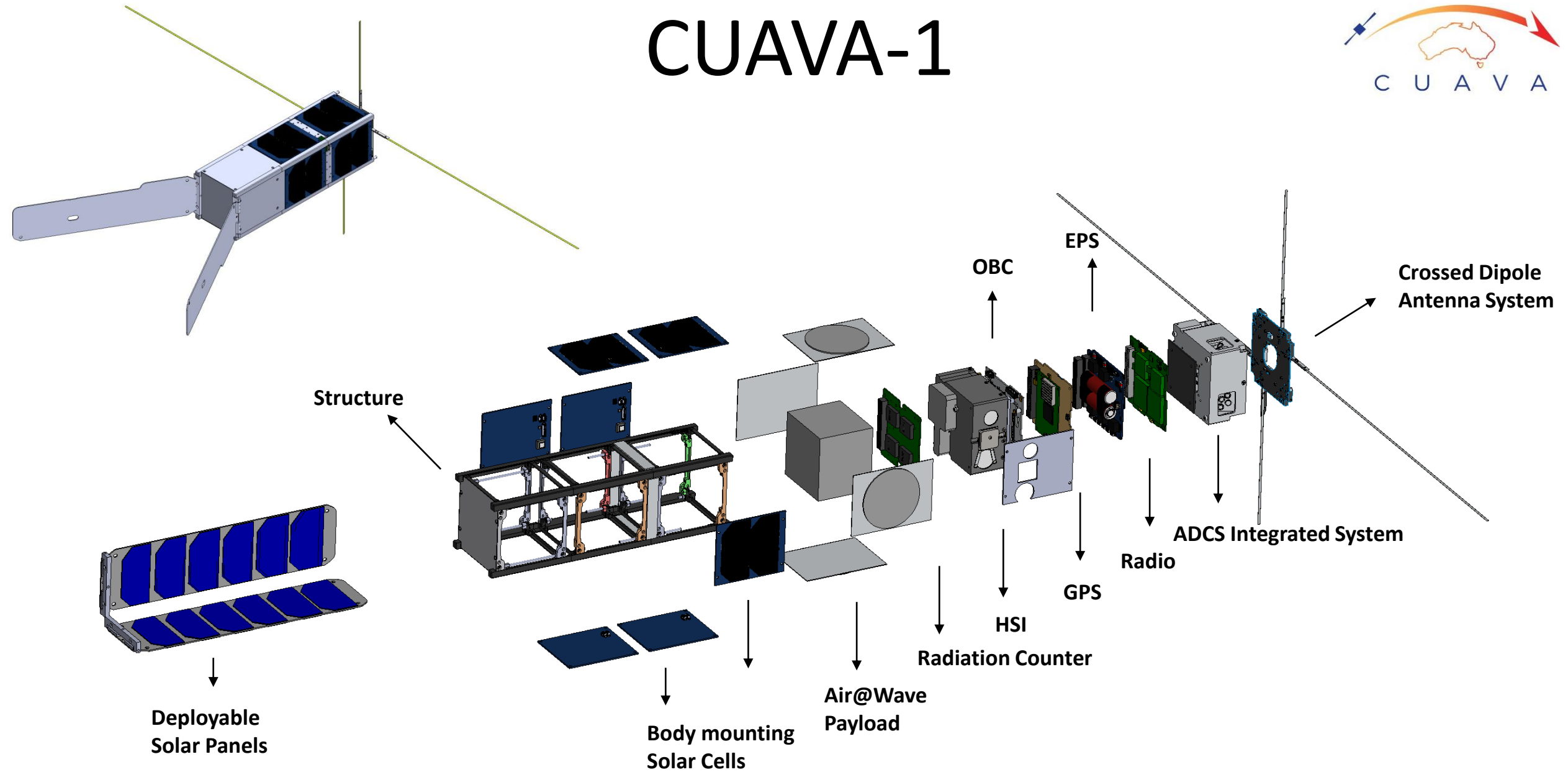
Paris Michaels

Chief Technologist, Air@Wave Communications Pty Ltd

CUAVA Project lead, High Speed Comms Payload

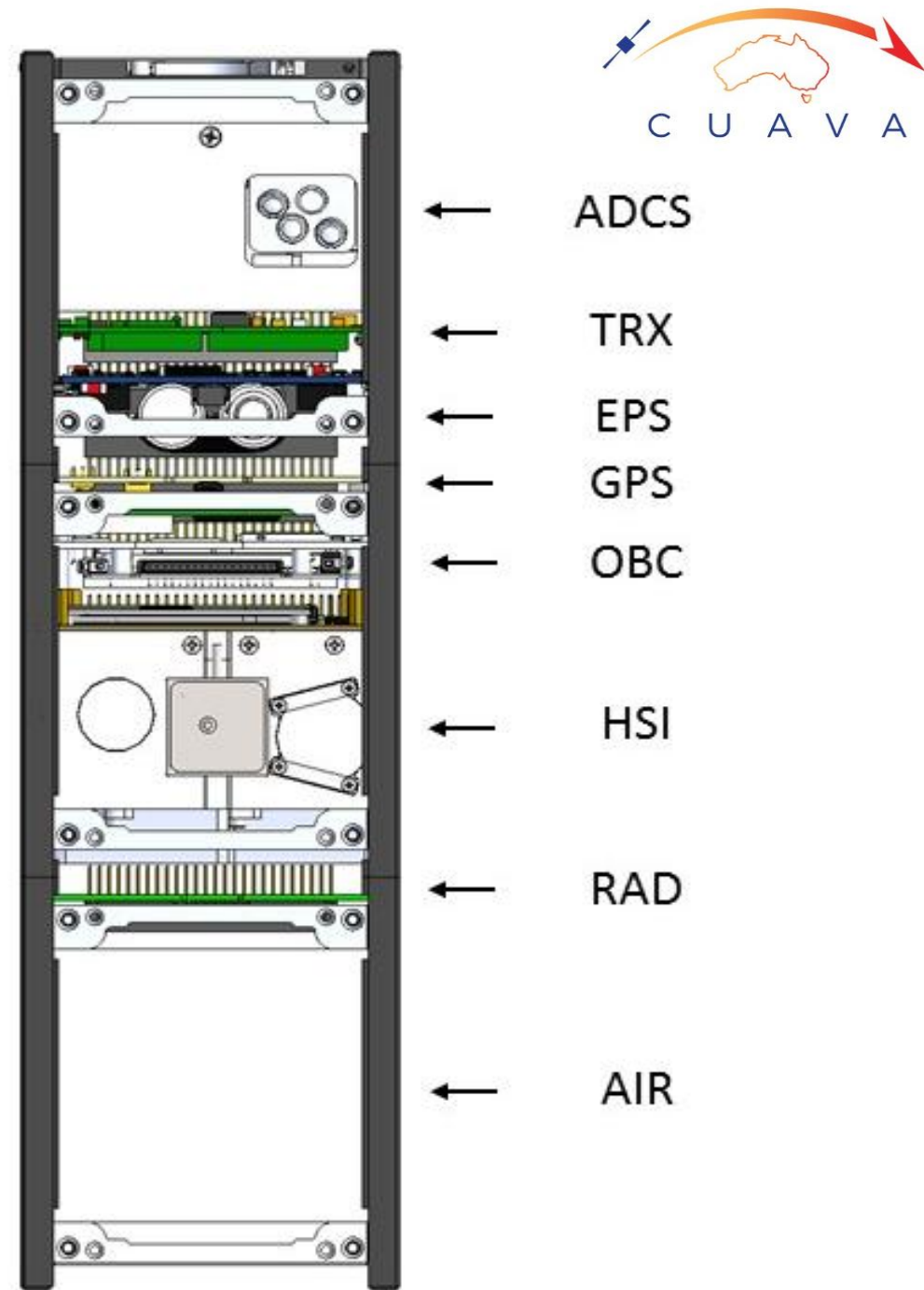
Email: paris.m@airwave.com.au

CUAVA-1

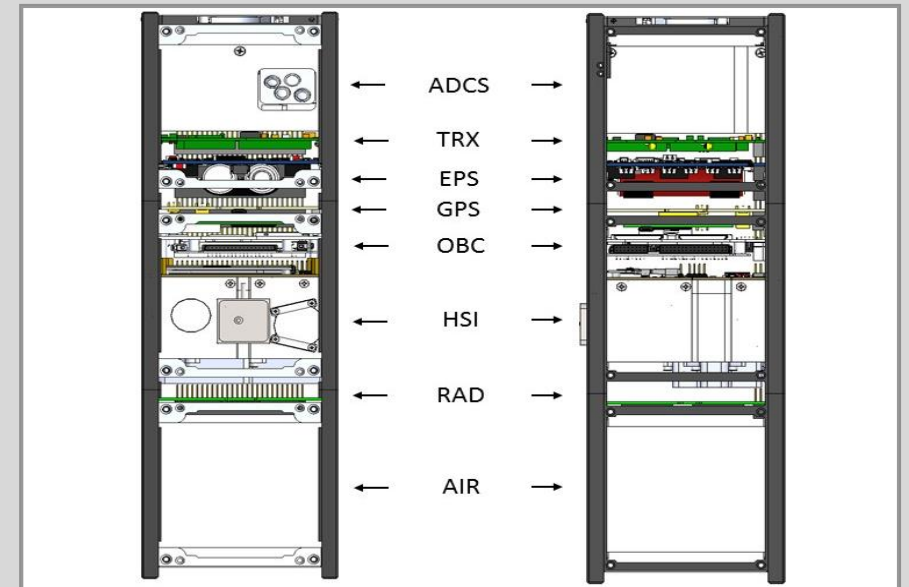
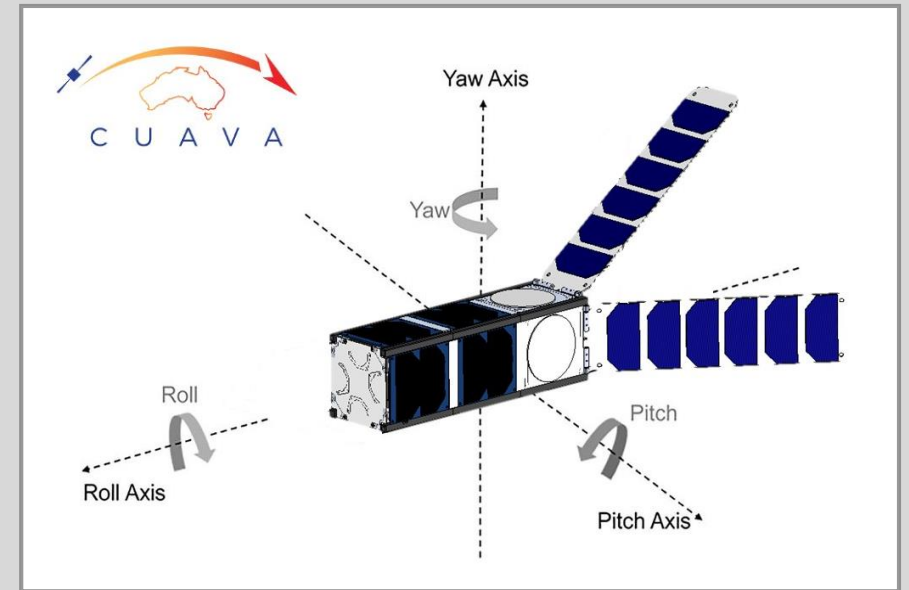
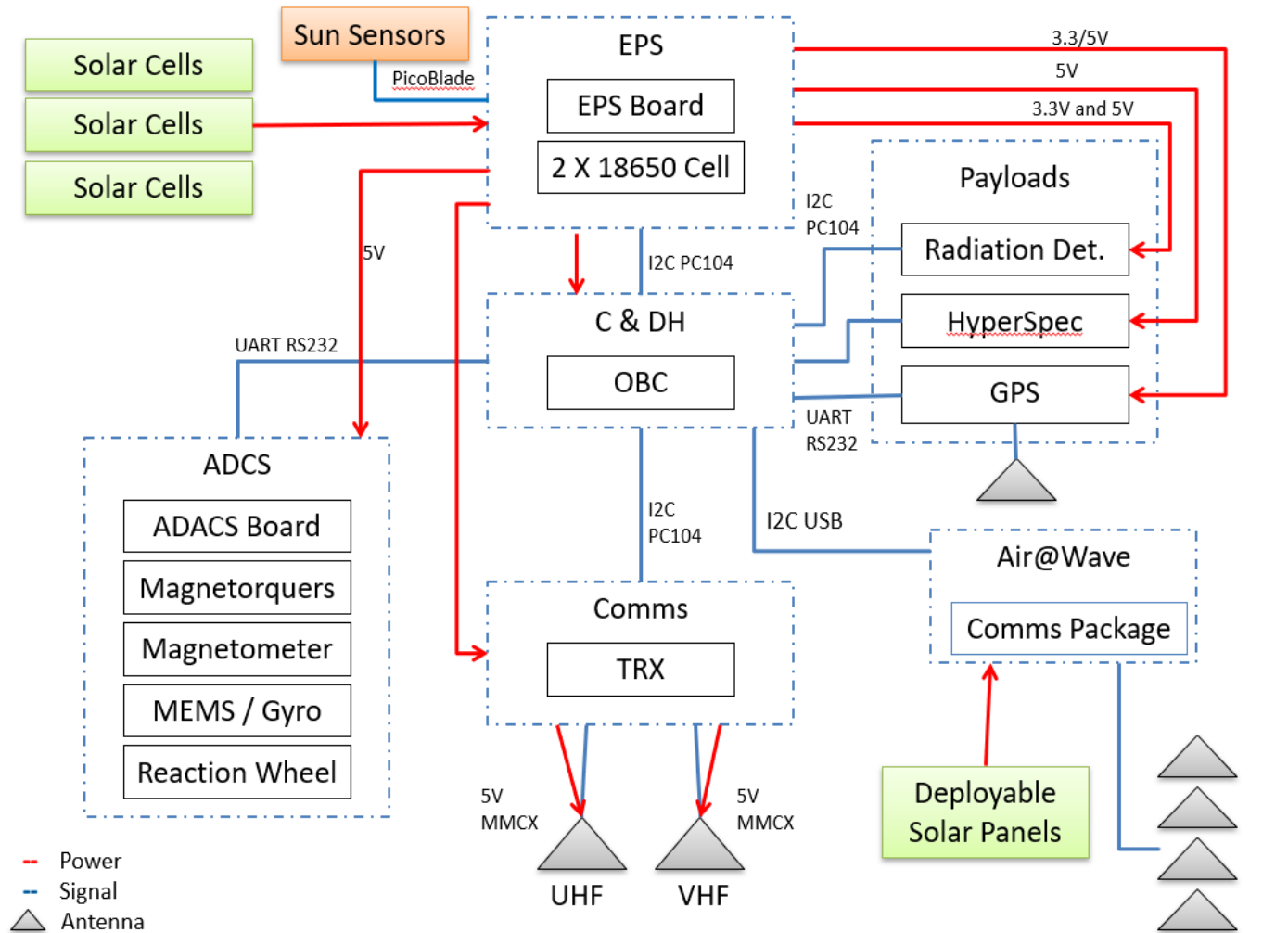


Payloads and Mission Objectives

- **High Speed Comms Payload (Air@Wave):**
Demonstrate Air@Wave's innovative communications payload at rates ≈ 100 Mbit/sec
- **Hyperspectral Imager (USYD Physics):** To fly a novel hyperspectral imager and astrometry sensor, much smaller and lighter than competitors.
- **GPS Receiver (UNSW ACSER):** To demonstrate the Kea GPS payload developed by UNSW and position us for reflectometry and occultation applications.
- **Radiation Detector (USYD AMME / Physics):**
Measure high energy X-rays and Gamma rays from energetic particle impacts with CubeSat, to study space weather



Satellite Block Diagram



Paris.m@airwave.com.au

Partners in the Training Centre

