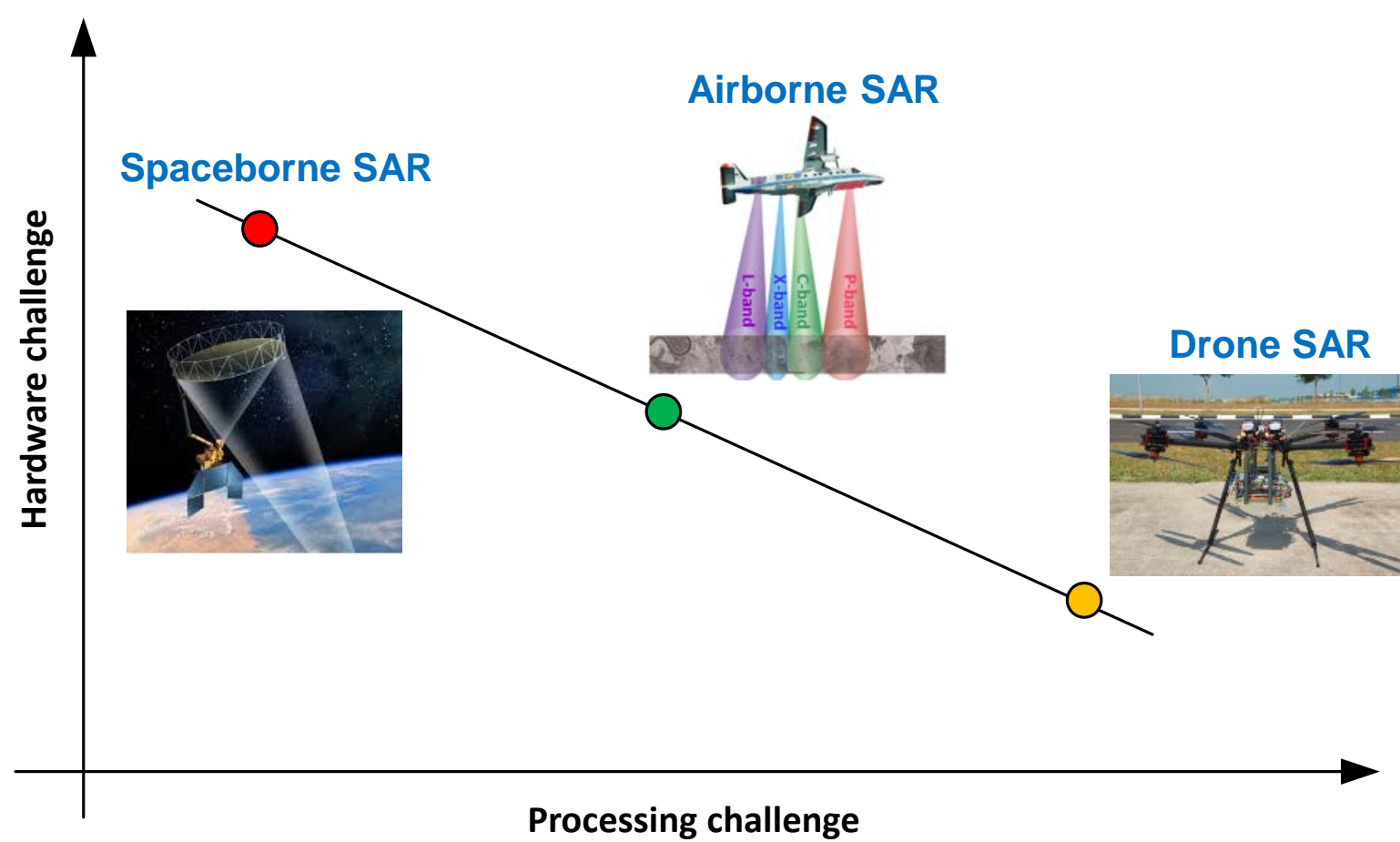


NTU Drone-SAR System

MOTIVATION

Synthetic Aperture Radar (SAR), with its all-time and all-weather operation capability, is nowadays one of the most important surveillance techniques. Due to the ease of both construction and control, drone can provide low cost and convenient air service. Drone based SAR imaging system is therefore particularly suitable for civil or commercial applications.

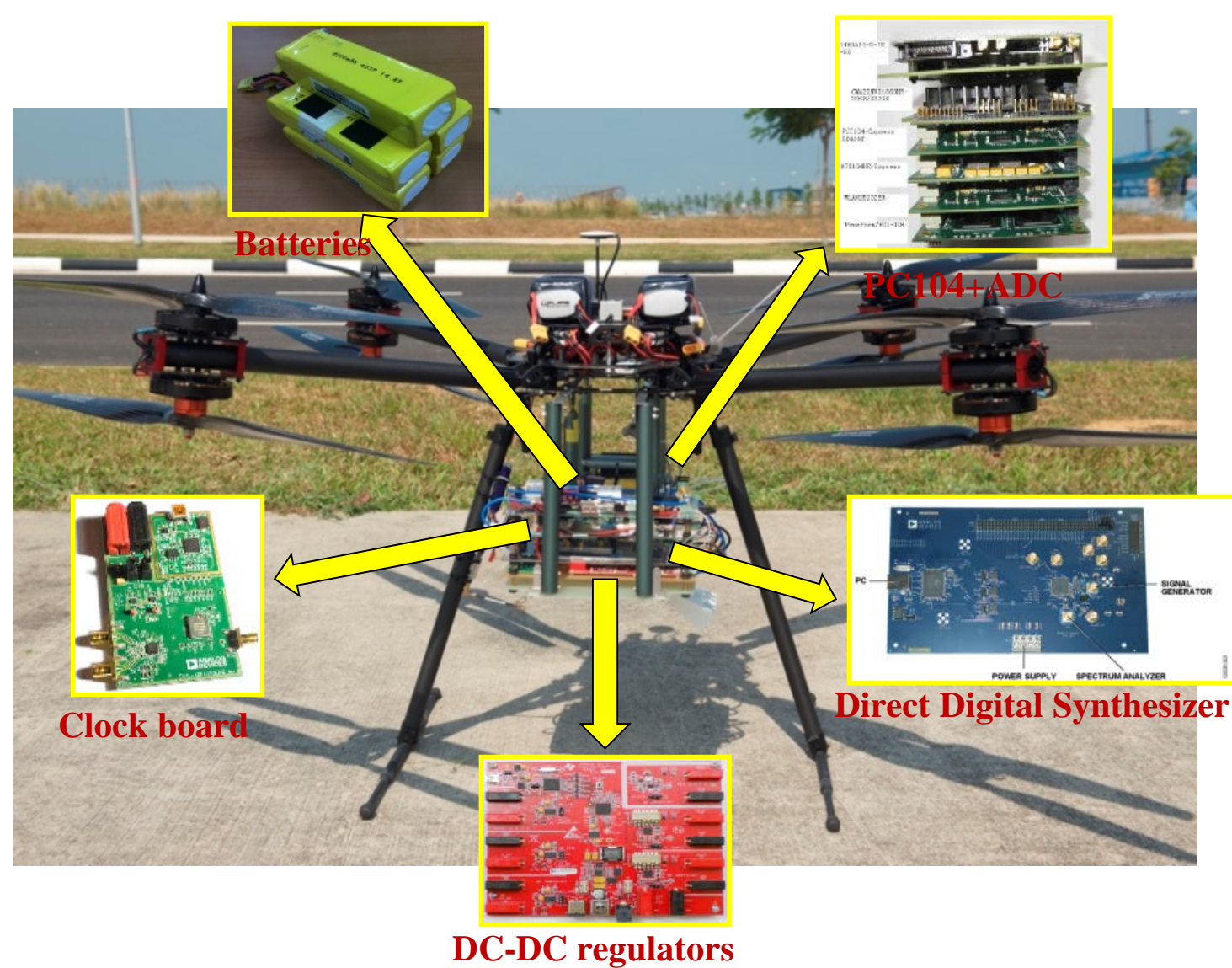


CHALLENGES

- To develop efficient motion compensation and autofocus algorithms;
- To solve Thermal, vibration and EMC/EMI problems.



EXPERIMENT



RESULTS

Photo / SAR data taken from drone 120m, 5m/s, 60 degrees

