# Summary of techniques developed

**Use Multiple Sensor Inputs**

**Algorithms**

**Outputs**

DGPS (WAAS)

IMU: Inertial Measurement Sensors

Kalman Filter Kalman Smoothing

Direction & Roll Calculations For Cross-track Pixel Shifts or Image Resampling

Image Corrected for Platform **Directional** Changes and **Roll** Motion

See: Bostater, C. Coppin, G., Levaux, F., Jones, J., Frystacky, H., *Mobile Platform Pushbroom Sensor Motion Control, Image Corrections and Spectral Band Selection: Examples of Hyperspectral Imagery Using Low Flying Aircraft and Small Vessels in Coastal Littoral Areas*, In Proceedings: Robots for Risky Interventions and Environmental Surveillance-Maintenance (RISE-2011), International Robotics Programme Workshop, Sponsored by the International Advanced Robotics Programme (IARP), E. Colon, (ed.), Royal Military Academy, Brussels, Belgium, 19 pp. (invited talk & paper).