R&D GAPS & POSSIBLE COLLABORATORS

IMAGING CAPABILITY	S&T GAPS and CHALLENGES	R&D AREAS	POSSIBLE COLLABORATORS (ACADEME / NGAs / PRIVATE)
RESOLUTION	- 8K Resolution systems for visible regions - Expensive systems for Multi and hyper spectral - Limited systems available for Negative space and Infrared; Synthetic Aperture Radar (SAR)	- Development of Miniaturization for 8K resolution (360 degrees) - Development of Camera tracking/target systems - Exploration of UV active imaging - Exploration on the Optimum Height requirements - Development of systems for LIDAR UAV - Develop a systems that will support/harmonize LIDAR and other multi and hyperspectral sensors - Develop and explore systems for Synthetic Aperture Radar (SAR) for UAV - Development of the laser/sensors used for UAV	UP Diliman ADMU MIT DLSU FEATI Adamson University DOST-ASTI Security Systems sectors SKYEYE DND NDRRMC PHIVOLCS DA DENR NRDC Coast Guard

R&D GAPS & POSSIBLE COLLABORATORS

IMAGING CAPABILITY	S&T GAPS and CHALLENGES	R&D AREAS	POSSIBLE COLLABORATORS (ACADEME / NGAs / PRIVATE)
PROCESSING TIME	- Issues on data compression - Standard resolutions used for different applications - Standard/optimum operating altitude of UAV for different features - Speed of transmitting of data - Storage of data	- Development of Mathematical reversible solution for transmitting of data - Explore on the customs imaging system design	UP Diliman ADMU MIT DLSU FEATI Adamson University DOST-ASTI Security Systems sectors SKYEYE

R&D GAPS & POSSIBLE COLLABORATORS

IMAGING CAPABILITY	S&T GAPS and CHALLENGES	R&D AREAS	POSSIBLE COLLABORATORS (ACADEME / NGAs / PRIVATE)
IMAGING CAPABILITY MODELING	- Image processing software are expensive - Open-source image processing software has compatibility issues and limited features and some have complexity issues - Licensing of source code	- Development of repository systems of image processing software for UAV	UP Diliman ADMU MIT DLSU FEATI Adamson University DOST-ASTI Security Systems sectors SKYEYE