

**Part B Project Summary****Project Title:**

Promoting Independent Enquiry learning skills in the New Senior Secondary curriculum (NSS) through Satellite Remote Sensing and Geoinformation Science

**Project Number**

2008/0089  
(Revised)

**Name of Organization:** Institute of Space and Earth Information Science, CUHK

Faculty of Education, Centre for University and School Partnership, CUHK

- (1) **Goals:** To support Independent Enquiry Studies (IES) of all NSS subjects by satellite remote sensing (RS) and Geoinformation Science (GIS).

- Objectives:**
- (i) Developing a resource pool of latest satellite images & GIS data, tailor-made educational software, teaching materials and training courses etc. for all secondary schools in Hong Kong.
  - (ii) Providing school-based supports (e.g. collegial lesson planning) and helping teachers to integrate RS&GIS into the existing curriculum.
  - (iii) Disseminating of project results via training workshops, cluster sharing sessions among frontline teacher and student projects competition.

- (2) **Targets:** Frontline teachers and students of NSS subjects involving IES

**Expected number of beneficiaries:** Direct beneficiaries: 100 Schools;

Long term: All Secondary Schools in Hong Kong

- (3) **Implementation Plan:**

- (i) **Duration:** 26 Months (1.8.2009 – 30.9.2011)

- (ii) **Process / Schedule:** Collaboration with seed schools; Experience sharing, trainings and collaboration with more partner schools; Organizing Student Project Competition, Continuous technical supports.

- (iii) **Collaboration with other parties / partners:** 10 seed schools, 20 partner schools, providing training to 70 schools, and invite 30 student projects for the competition.

- (4) **Products:**

- (i) **Deliverables/outcomes:** 1. Resource pool of RS&GIS data; 2. Educational software; 3. Teaching materials; 4. Schools-based curriculum developed with the partner schools.

- (ii) **Dissemination of deliverables / outcomes:** 1. Collegial lesson planning with teachers; 2. Cluster sharing sessions; 3. Training Courses; 4. Preparation workshops for Student Project; 5. Student Project Competition.

- (iii) **Commercialization potential of deliverables / outcomes:** Educational software and teaching materials.

- (5) **Budget:** \$4,569,300 [(a) Staff cost: HK\$4,161,638; (b) Equipment: HK\$121,700; (c) General Expense HK\$274,000; and (d) Contingency: HK\$11,962]

- (6) **Evaluation:**

- (i) **Performance indicators:** 1. Rise students' learning motivation; 2. Develop a global and dynamic view among students, better understand of the world; 3. Expose students to realize and apply the technology in real life phenomena etc. (Please refer to Section I for the proposal for details.)

- (ii) **Outcome measurements:** 1. Students' initiative and willingness to learn; 2. Students' view points broadened; 3. Students' performance in process of enquiry learning activities and projects etc. (Please refer to Section I for the proposal for details.)