

## Developing Emergency Mapping Meeting the Surveyor of Tomorrow.

Distinguished President,  
Ladies and Gentleman,

Good morning,

Charles Robert Darwin, the British biologist and the founder of evolution theory, once said :“It is not the strongest of the species that survive, nor the most intelligent, but the one most responsive to change.” So in my view, the motto “Ensuring the Rapid Response to Change-Ensuring the Surveyor of Tomorrow” which Stays firmly rooted in the present while looking ahead to the future and describes the splendid pictures of tomorrow. It happens to coincide with the blue planning of Chinese career of surveying, mapping and geoinformation.

Developing emergency mapping is one of the most important experiences of the Chinese surveying, mapping and geoinformation career. Firstly, I will enumerate several figures. In 1976, a 7.8 magnitude earthquake struck the Tangshan area of China. Half month after the earthquake, we sent airplane to the disaster areas and acquired the black and white aerial photographs from 1:5,000 to 1:10,000. We also achieved high

precise leveling of 5,000 kilometers in one month. On April 20, 2013, a 7.0 magnitude earthquake struck Lushan, Sichuan province. The first emergency command was sent five minutes later which stands for the initiating of emergency mapping commanding system. Seven hours later the UAV (unmanned aerial vehicle) acquired high resolution images in the area successfully. The geoinformation platform started 16 hours later after the earthquake and offered the spot news of the disaster.

China is vulnerable to natural disaster. As defined by the State Council, NASG(National Administration of Surveying and Mapping, Geoinformation) is responsible for public and emergency service of surveying and mapping.

Recently, NASG has established surveying and mapping, geoinformation emergent quick response system, strengthening the construction of the emergent technical equipments, operation platform and human resources on the areas of mapping reference system, mobile mapping, quick acquisition and processing of image data, rapid mapping, and commanding system, enhancing the construction of operating platform and human resource, providing the effective safeguard on disaster control and post-disaster reconstruction.

Firstly we have built thematic database, developed fast mapping system motivated by database, and achieved the aim that we can produce 9 kinds of special maps of any land areas in the nationwide in 2 hours and improved the efficiency of a single mapping from 4-5 hours to 10-20 minutes. Secondly, we have developed UAV system and integrated mobile mapping emergency system used for spot emergency disaster information collecting and surveillance. Thirdly, “MapWorld” is opening, providing images, information of transportation, population, economic situation of the disaster areas, also offering authoritative and credible online service for government emergency mapping. The last but not the least, navigation data are collected which have more POIS (point of interest) and current features to serve emergency mapping.

In 2013, emergency mapping technique and equipments were exhibited in “Chengdu Forum on United Nations Global Geospatial Information Management” which won high attention and praise of many guests from all over the world hoping to communicate in further.

In the next five years, we will continue to improve the emergency mapping system which is running effectively and running in phase, to strength the emergency mapping sharing mechanism

among departments, to intensify the information communication, to form the emergency mapping network and achieve national emergency mapping system which is composed of one national emergency mapping center, one national emergency mapping resource sharing platform, three national emergency mapping security teams and national emergency surveying system including thirty-one national aerial emergency bases.

Ladies and gentlemen,

Paying high attention to professionals is the main reason of the development of surveying and mapping, which is likely you want to acknowledge, I guess. On one hand, we strengthen the construction of professional talent team based on the colleges and universities. The undergraduate education of our college includes three majors. Firstly, Surveying Engineering, which 138 colleges have opened, the graduates of which reaches 7,000-8,000 yearly, the graduate employment rate reaches at 85% above. Secondly, GIS, which 169 colleges have opened, the graduates of which reaches 6,000-7,000 annually, the graduate employment rate reaches at 80% above. Thirdly, Remote Sensing, which 22 colleges have opened, the graduates of which reach 800-900 annually, the graduate employment rate reaches at 90% above. Besides of that, 98 of our colleges also open the major of land resources management, the graduates of which reache

800-900, the graduate employment rate reaches at 80% above. We also have opened the major of navigation engineering in order to strengthen our national strategic emerging industries, to foster talents for the development of Beidou navigation system. On the other hand, we continue to improve system of training skill personnel on the base of manufacture units and vocational colleges. We have 287 academic school opening the geomatics having 14,000-16,000 graduates annually, among which the major of engineering surveying have 9,000-10,000 graduates every year meeting the needs of surveying talents in the process of pushing forward the urbanization.

What is more, our country is prompting the registered surveyor system now. We have 8,000 registered surveyors by passing strict examinations by 2014. The registered surveyor system will beneficial to surveying management, the quality of surveyors, regulating survey behavior, guaranteeing the surveying quality.

Ladies and gentlemen,

Socrates, the philosopher of ancient Greece, once said that, “I am not just Athens citizen, I am also the citizen of the world.” The

Chinese government always attaches significant importance to the international cooperation. The Chinese surveying and mapping, geoinformation career is not beneficial from the emphasis of the Chinese government, but also the international cooperation. As the biggest developing country in the world, China would like prompting extensive and deeply cooperation among countries and regional areas and creating bright future for human society.