附件 2

The 3rd China-Mongolia Geospatial Industry Forum

Topic: Geospatial Applications and Collaborations between China and Mongolia

Date: 22 June 2022 14:00 – 17:00PM(Beijing Time)

Location: Zoom

Language: English

Hosts:

China Association for Geospatial Industry and Sciences (CAGIS)

Mongolian Geo-Spatial Association (MGA)

Academic Exchange Center of China Satellite Navigation Office (CSNO-AEC)

Organizer:

International Exchange & Cooperation Committee of CAGIS

HD Map Service Committee of CAGIS

Belt and Road" BeiDou Application International Training Center (BAITC)

Public Lab Mongolia, NGO

NavInfo Co., Ltd

Schedule:

1. Opening speeches

- Welcome remarks by Dr. Li Weisen, President of CAGIS

- Welcome remarks by Dr. B. Bayartungalag, President of MGA

- Welcome remarks by Ms. Hao Weina, Director of CSNO-AEC

2. MoU Signing

- Online MoU Signing Ceremony between CAGIS and MGA

3. Presentations

(1)Title: Introduction of MGA

Speaker: Mrs. Otgonjargal Terbish

Affiliation: CEO of MGA

Time: 15 min presentation + 5 min Q&A

(2)Title: The Key Technology and Application of 3D Real Scene in China

Speaker: Prof. Yan Qin

Affiliation: Director, Chinese Academy of Surveying and Mapping (CASM)

Time: 15 min presentation + 5 min Q&A

Abstract: As a real, three-dimensional, and temporal virtual digital space reflecting the production, living and ecological space of human beings, 3D Real Scene is an important new type of national infrastructure, providing a unified spatial basis for economic and social development and informatization of various departments. In August 2021, China' s Ministry of Natural Resources published the Technical Outline of 3D Real Scene China. Since then, the construction of 3D Real Scene China has been promoted throughout the country. This presentation will share with you the overall design, basic concepts, key technologies, pilot activities and results as well as future work of 3D Real Scene China.

(3)Title: Development of the BeiDou Navigation Satellite System (BDS)

Speaker: Dr. Shen Jun

Time: 20 min presentation + 5 min Q&A

Affiliation: Chief Scientist, Beijing UniStrong Science & Technology Co., Ltd.

Abstract: An introduction of the BeiDou Navigation Satellite System (BDS), its applications and the BDS international collaborations.

(4)Title: Green Belt and Road for Scientific Innovations

Speaker: Dr. Wang Meng

Affiliation: Chinese Academy of Sciences, World Young Scientist Summit

Time: 15 min presentation + 5 min Q&A

Abstract: Today, we are still facing the recovery During A Pandemic and the emerging market cities have undoubtedly felt the brunt of the COVID-19 crisis. Green belt and road will play a strong role to ensure the Belt and Road initiative brings long-term, planet-friendly growth. The technology, especially the earth science related technology should be adopted for the implement of sustainable development goals. At present, space technology including remote sensing can be widely used in agriculture, climate change, disaster warning, mineral resources exploration and other aspects. The United Nations has established several international excellence innovation centers to support the use of space technology in the SDGS, and the scientific and technological cooperation between research institutions, NGOs, governments and industry, especial from young generations will provide more lasting support for the green Belt and Road initiative.

(5)Title: Introduction of NavInfo AD Map Production

Speaker: Mr. Liu Riheng

Affiliation: Product Manager, NavInfo

Time: 15 min presentation + 5 min Q&A

Abstract: NavInfo is the market leader in navigation map, navigation software development, dynamic traffic information,

location big data and customized connected vehicle services to both passenger and commercial vehicles. Now, NavInfo is ushering in the new era of automotive industry with a comprehensive technology development strategy and laying the foundation to become one of the most trustworthy smart mobility solution providers in the China market and beyond. The presentation introduces Navinfo HD map products that support all-level autonomous driving and the data production automatic tool chain and pipeline of NavInfo HD maps.

(6)Title: Open Source Mapping (OSM) Activities in Mongolia

Speaker: Ms. L. Byambatsetseg

Affiliation: Public Lab Mongolia NGO

Time: 15 min presentation + 5 min Q&A

Abstract: We use the OpenStreetMap platform to implement our annual "Mapathon" program to promote the use, creation, and awareness of geospatial and open data in Mongolia. Through our program, more than 280 volunteer mappers contributed 4.5 million units of data and information to 70 projects we have created in approximately 35 locations across the country.

(7)Title: China-Mongolian Smart Agricultural Collaborative Innovation

Speaker: Dr. Li Fei

Affiliation: Perking University ; Deyang Institute of Smart Agriculture

Time: 15 min presentation + 5 min Q&A

Abstract: Since 2019, we have carried out research on the integration of key technologies for smart agriculture and demonstration of the China-Mongolia Collaborative

Innovation Park with Mongolian agriculture-related institutes including the Mongolian University of Life Sciences. One model, scheme and system for Mongolia has been designed in the aspects of integrated grassland and grain crop monitoring, wild livestock location information perception in alpine regions, and anti-low temperature Beidou monitoring equipment, etc., and realized the deep integration and innovation of smart agriculture. At the same time, it provides an overseas verification example for Chinese smart agriculture technology innovation.

(8)Title: Mongolian Open Data Cube for Remote Sensing Application

Speaker: Mr. M. Odbayar

Affiliation: Divisions of Remote Sensing, Institute of Research Information for Meteorology, Hydrology and Environment

Time: 15 min presentation + 5 min Q&A

Abstract: An efficient way of storing large volumes of Analysis Ready Data with easy spatial and temporal access. Originally pioneered by Digital Earth Australia in 2013, with the Australian Data Cube. Recent years have seen several Data Cubes deployed or in development, in places such as Switzerland, Columbia, Vietnam and Uganda. The Mongolian Data Cube is hosted on physical hardware, making it (as far as we know) unique amongst data cubes.

(9)Title: Hybrid Satellite-Aerial-Terrestrial Monitoring for Animal Husbandry Lifecycle Management for China and Mongolia

Speaker: Prof. Du Wala & Dr. Jiang Hao

Affiliation: Chinese Academy of Agriculture Sciences & NavInfo

Time: 15 min presentation + 5 min Q&A

Abstract: To meet the major demand for the modernization of the animal husbandry industry in the Mongolian Plateau, and gather the scientific research achievements of the intelligent animal husbandry industry in China. Starting from disaster prevention and reduction of the prairie, based on the space-air-ground collaborative monitoring system, to dynamically perceive the environmental elements of the prairie resources and elements of livestock and poultry in the whole life cycle, and study and solve the key technical problems in the field of animal husbandry in China and Mongolia such as risk management of important natural disasters, the balance between grass and livestock, high-precision monitoring of animal husbandry, and intelligent perception and control application of health in the life cycle. To make the application demonstration by selecting grasslands in China and Mongolia and help with the intelligent development of the animal husbandry industry in the Mongolian Plateau.