ASIA
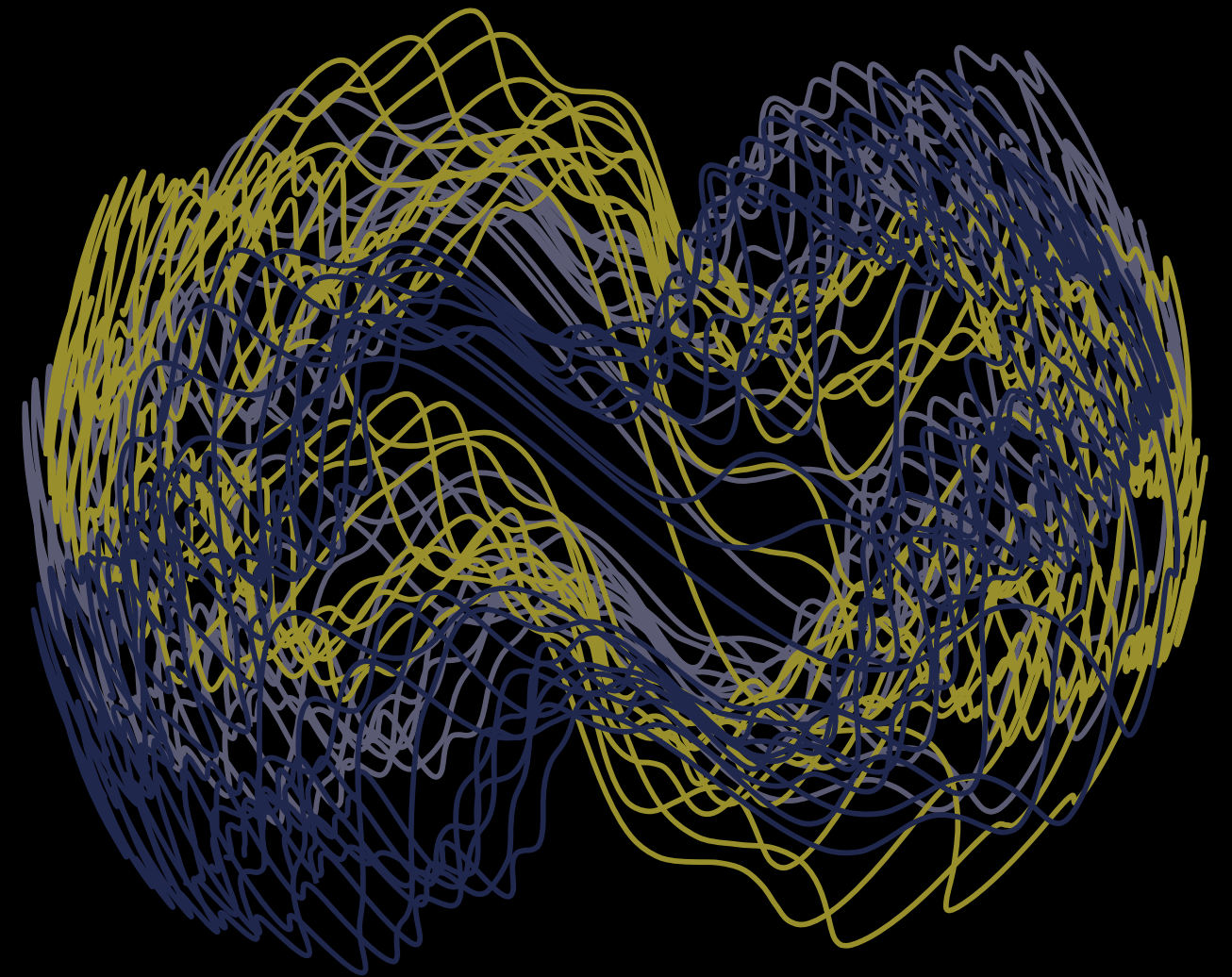Aero Survey
Co. LTD

All
Solutions
For
Geospectral
Information

ASIA

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ASIA Aero Survey Co. LTD

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ASIA AERO SURVEY

Since the Asia Aero Survey Co., Ltd was established in 1995, it has steadily grown through its numerous achievements in the digital mapping and GIS service field. Especially, have a competitive advantage in Aerial Photography and Survey, spatial information construction, Remote Sensing basis of Hyperspectral and LiDAR , Engineering design data and GIS system development.
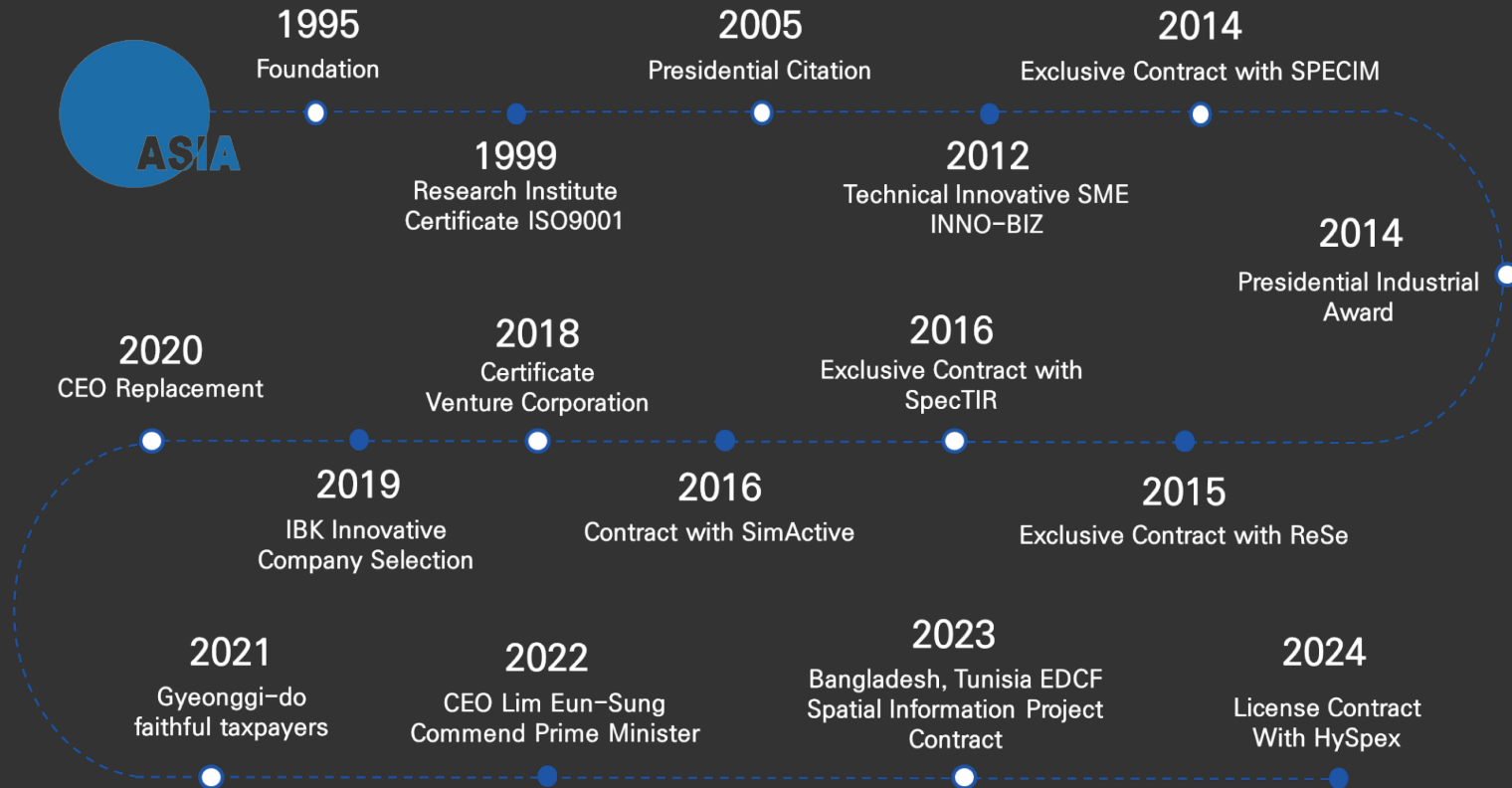
For the past 30 years, Asia Aero Survey has been very successful in providing the national base map and control points survey to the National Geographic Information Institute. Based on our advanced technology, we will provide high-quality services for all kinds of mapping and GIS development with professional staff and innovative technology.

We will continue to do our best to create a customer value, and to gain the trust of our customers in the domestic and global map service.

ASIA Aero Survey Co. LTD

Vision

With loving of human and nature, has-fostered men to be great and developed the new technology. We contribute to the national development and serve for the happiness of human society.

History

Year	Event
1995	Foundation
1999	Research Institute Certificate ISO9001
2005	Presidential Citation
2012	Technical Innovative SME INNO–BIZ
2014	Exclusive Contract with SPECIM
2014	Presidential Industrial Award
2016	Exclusive Contract with SpecTIR
2018	Certificate Venture Corporation
2020	CEO Replacement
2015	Exclusive Contract with ReSe
2016	Contract with SimActive
2019	IBK Innovative Company Selection
2021	Gyeonggi-do faithful taxpayers
2022	CEO Lim Eun-Sung Commend Prime Minister
2023	Bangladesh, Tunisia EDCF Spatial Information Project Contract
2024	License Contract With HySpex

Certification and Award

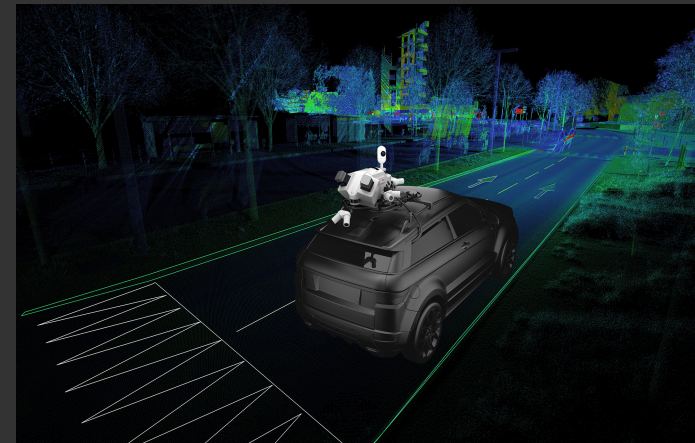| Names	Cases
Spatial Image Plotting Patent	12
Digital Map Production Patent	19
Image Processing Patent	9
Map Production Patent	4
Underground Survey Patent	2
Geodetic Survey Patent	9
Aerial photogrammetry Patent	5
Hyperspectral Patent	11
UAV Survey Patent	4
Program Registration	2
Total	77

Business

Fileld Survey & Mapping

Underground Facility

Airborne Data(Hyperspectral, LiDAR)

Global Service Solutions

Mobile Mapping System

Unmanned Aerial Vehicle

Topographic & Base Map Production

R & D Project

Data Acquisition Service & Equipment
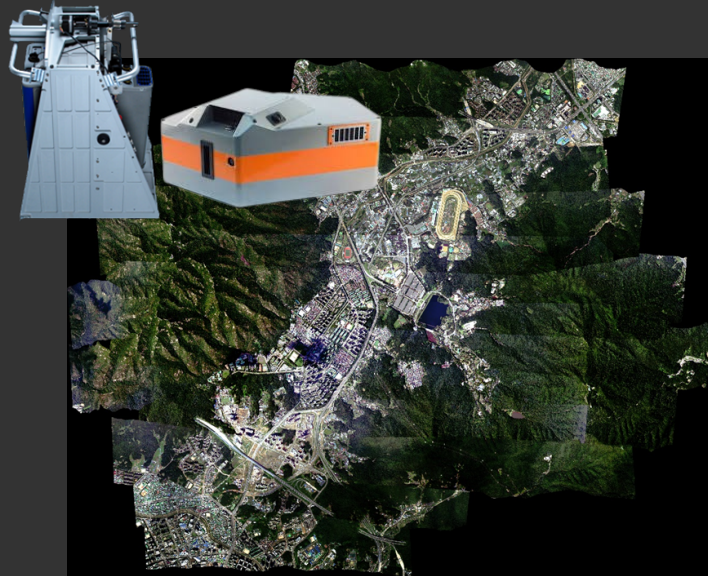
✈ ASIA Air Service
Aircraft · UAV(Fixed, Rotor Wing)
Hyperspectral · LiDAR · Thermal Infrared · Orthoimage
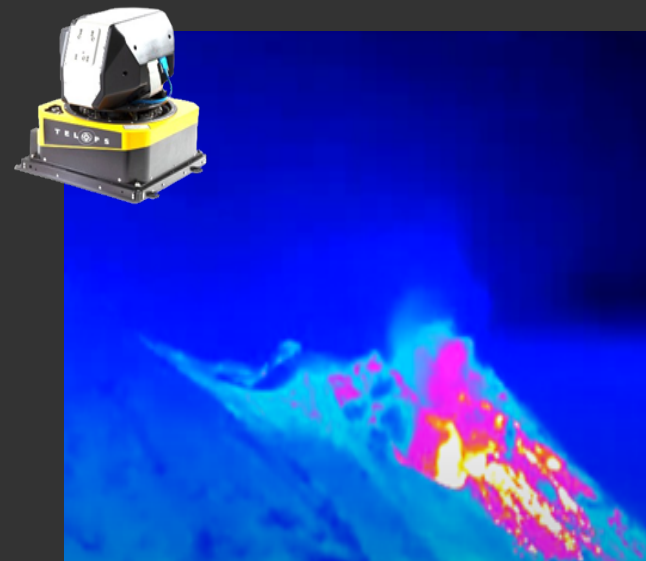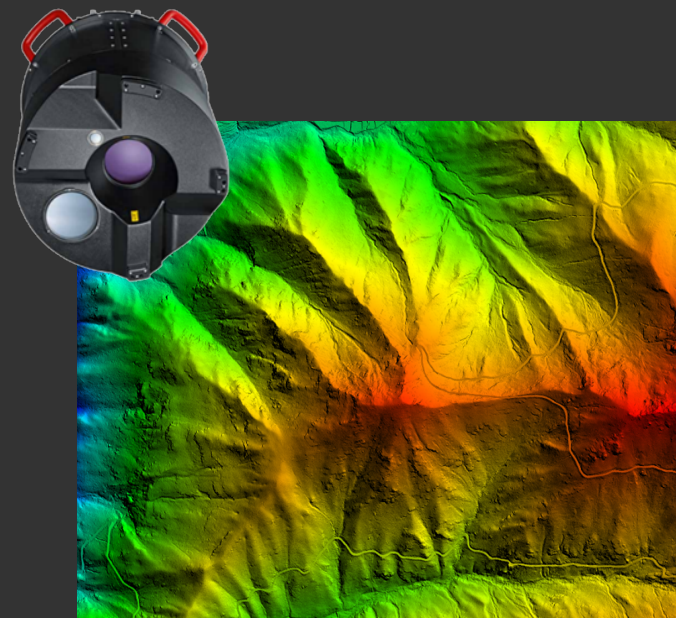
Airbron Solutions

Fixed wing & Rotor wing

Hyperspectral(VNIR-SWIR)
350 - 2500nm

Hyperspectral(LWIR/Thermal)
3000 - 11800 nm
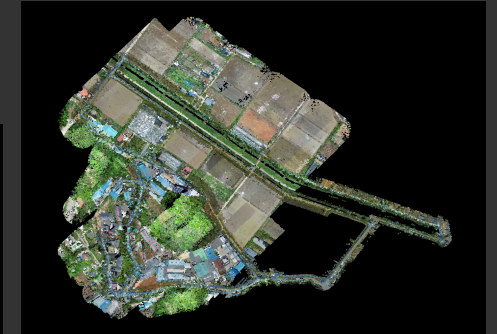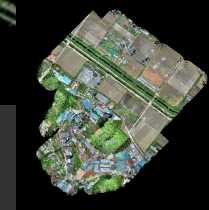
Ortho-image Production

LiDAR(Point Cloud)

🚗 ASIA MMS Service
Mobile Mapping System
High-precision coordinate accuracy, high-speed scan, precise accuracy

Road Management System

UAV + MMS Data Fusion

🔍 ASIA Ground Service
Field, Industrial, UAV and Laboratory Hyperspectral
Acquire and support Hyper-high resolution images, support analytical solutions

VNIR(400 - 1000nm)   SWIR(1000 - 2500nm)   LWIR(2700 - 12300nm)

Field / Ground / LAB Hyperspectral

Snapshot
Hyperspectral

Industrial
Hyperspectral
(Conveyor belt)

Sampling Data
(Data Verification)

UAV Solution
(Hyperspectral,
Methane)

🗺 ASIA Survey Service
Supporting ground and underground surveying solutions and conducting field surveys

Total Station

GPS / GNSS System

A solution using spatial information
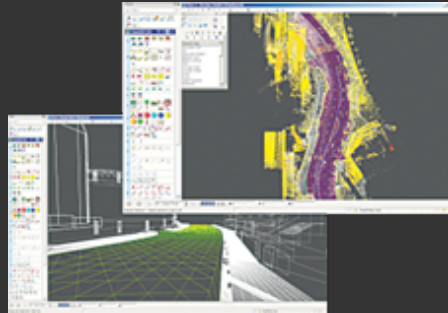
Hyperspectral Solutions

3D Auto Urban Modelling

- Making Real-DSM using Aerial Photo
- Urban Modelling in Mesh up Method
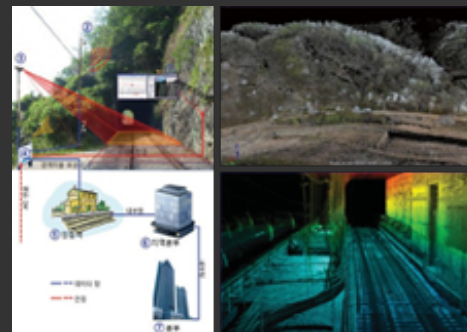- Restoring Cultural Assets

GIS Integration Solution

- Urban Facilities Management System
- Web GIS / Mobile GIS
- Underground Piping Management System
- Underground Communication, Electric Line
- Management System

Infrastructure Management

- Safety Management System Based on USN
- Railroad, Road and Underground Facility Management System
- Field Investigation and Renewal System Based on C/S

Agriculture

- Classification Crop and Analyzing Harmful Insects
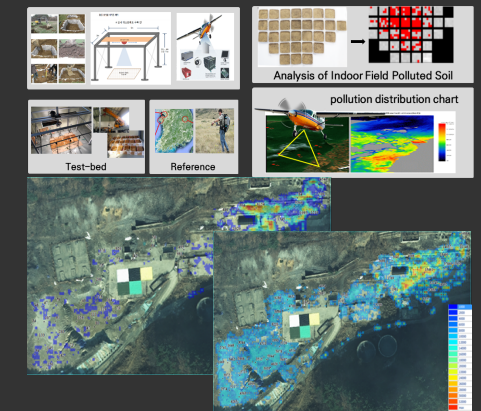- Productivity prediction and fruit detection

Forest

- Land Cover Mapping, Classification Tree Species, Analyzing Biomass

Pollutant Source Detection

- A detection model based on the concentration of heavy metals is produced and a monitoring plan for pollutants is proposed
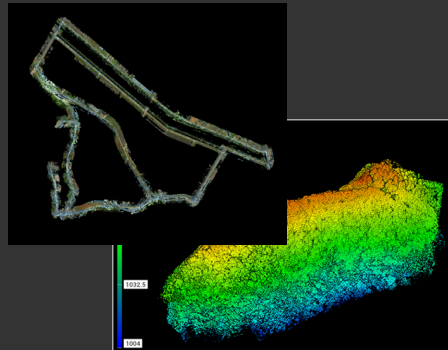
Overseas Markets

- Spatial Data Infrastructure Master Plan and Consulting
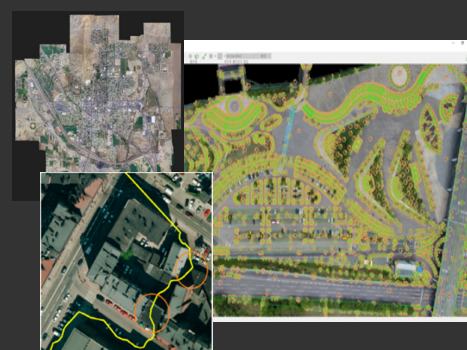- Installing Precision Ground Control Point andManufacturing Topographic Map

MMS and Aerial Data Fusion

- High-precision 3D Location Information Acquisition with 120,000 Points Per Second
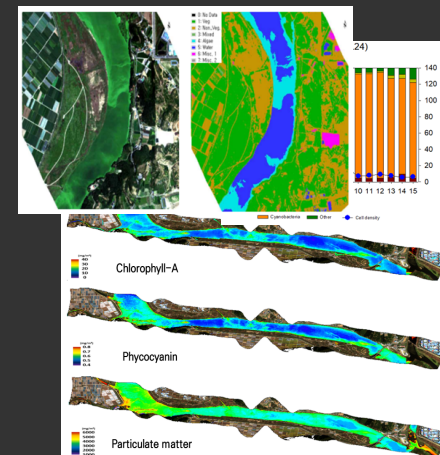- Manual and Auto Classification(Ground, Man-made features, vegetation)

Ortho-image Production

- Image production that removes displacement of objects due to camera posture or terrain ups and downs
- Create a digital topographic map and apply a high-resolution image and coordinate system

Water Resource

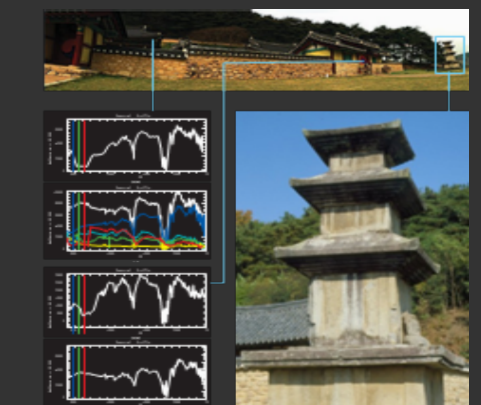- Monitoring Water Quality and Analyzing Algae Bloom

National Defense

- Gas Detection and Target Recognition
- Identify and identify hidden structures

Cultural Heritage

- Monitoring Weathered and Old Cultural Assets
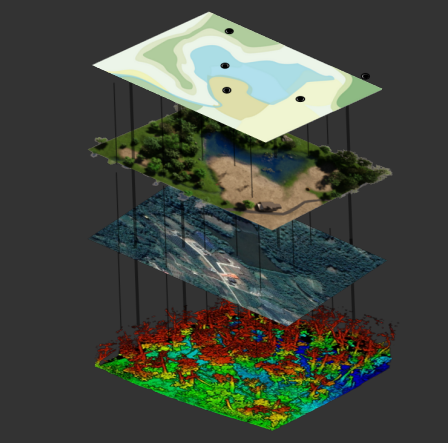- Detection and restoration of cultural property components

UAV Mapping

- Acquire effective ultra-high resolution images using drones and collect a variety of data by linking with multiple sensors
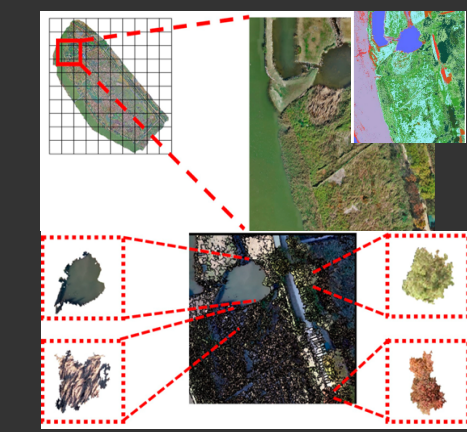
Spatial Data Analysis

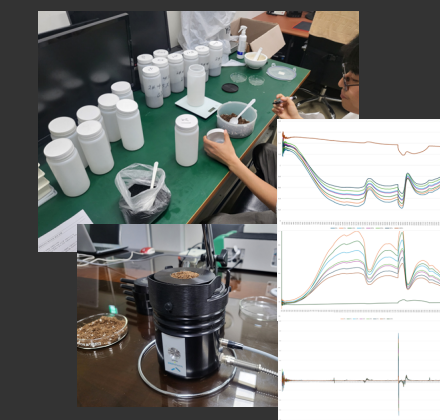- Data modelling using superposition analysis and basic data between images

AI Raw Data Generation

- Data generation and analysis for spatial big data analysis
- Image Analysis with Deep Learning Process
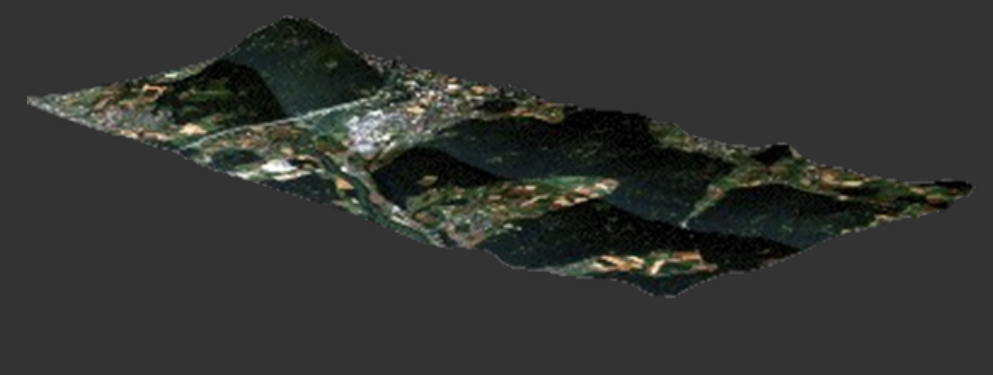
Soil Carbon

- Measurement of carbon in soil
- Providing calculation formulas such as ph and EC through soil experiments

Multidimensional data fusion of Hyperspectral, LiDAR

- High-efficiency data production through data fusion using hyperspectral and lidar
- Provide high-performance data analysis results and present high explanatory power through each data fusion

ASIA AREO SURVEY

ASIA AERO SURVEY · All Solutions for Geospectral Information

Vision of AAS

" AAS is a company with the best remote sensing technology "

Data Acquisition and Solutions

All solutions from overseas business

Research and development

Research and development

Data Acquisition

It provides all solutions such as aviation and ground, and provides a number of solutions such as creating basic data that is effective for analysis such as AI, machine learning, such as ortho-images, Hyperspectral, LiDAR, Thermal and Gas detection.

Hyperspectral / LiDAR / Thermal/ Greenhouse Gas detection / AI

Overseas Business

Several countries (Morocco, Thailand, Colombia, Rwanda, Ethiopia, Tunisia, Uzbekistan, Bangladesh) have experience in overseas business and overall experience in overseas business from basic services to master plans.

EDCF / Consulting / Master Plan / Service / Integrated System Construction / Field Survey

R & D

It supports peak technology using important technologies for future development, such as continuous technological development and growth through numerous research projects, and uses them for corporate and national development through research.

New Technologies / Patents / Coding / Equipment Development / Programming / Big Data / Analysis

System Integrator

AAS is building a number of high-resolution data such as hyperspectral and lidar that have been accumulated for many years, and through this, DB management, program development, and big data analysis are carried out. Through this, we want to become a more advanced AAS.

SI / Software / Neural Network / 3V / DB / Development / Data server

ASIA Aero Survey Co. LTD