



Company Introduction

2018.11

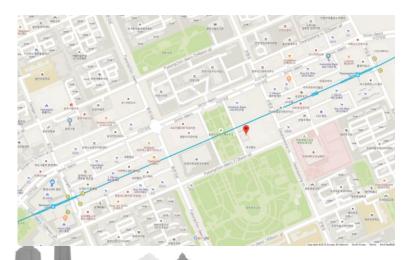
Company



Status

Company Name	CNBIT
Address	Unit 911, Anyang Creative Industry Promotion Agency, 25, Simin-daero 248beon-gil, Dongan-gu, Anyang- si, Gyeonggi-do, 14067, Rep. of KOREA
CEO	Frank Lee
Foundation	31 May 2018
Website	www.cnbit.co.kr
Phone & Fax	T +82-010-4631-7235 / F 031-383-2331

Location



Business Areas

Spatial data collection and database construction

- Gather spatial information from a wide range of surveying equipment such as earth, air, and indoors.
- Extracts 2D and 3D data through Point Cloud
- 3D 4D data processing
- Point cloud data fusion

Orthographic and 3D modeling using drone

- Orthographic image production through VTOL (Vertical landing and landing type fixed wing drones)
- 3D modeling with high resolution orthoimage

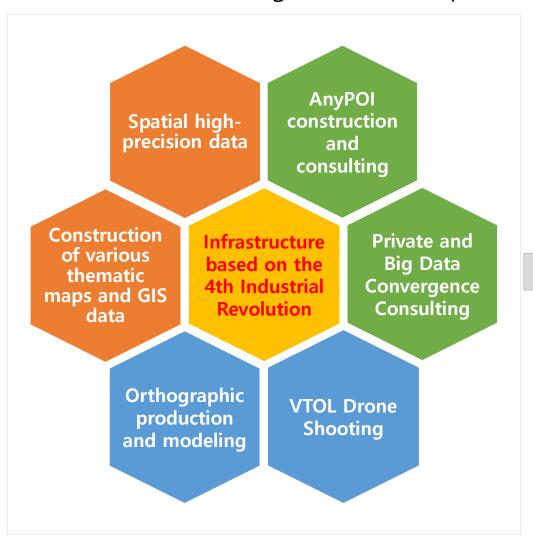
Big Data Analysis and Consulting

- Construct and provide AnyPOI
- Public data-based research Big Data Utilization
- Providing public and private large data fusion services
- Big data analysis result visualization
- Big data analysis systematized

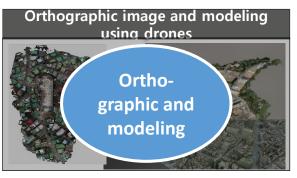
Vision

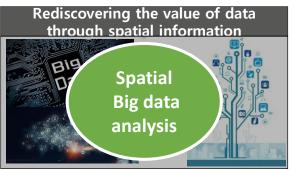


"The trend of Increasing utilization to spatial information and big data."









Introduction of Products

- > nebula-DSLR
- > nebula-LP
- > nebula-AP
- Wingtra One
- > TIMMS
- > ORBIT



Collection



Processing



Service

Data collecting device



Applanix AP-20E / Nikon D850 / 10.5mm Lens

nebula-DSLR

- Panoramic image collecting device mounted on vehicle
- DSLR electronic shutter mode
 (Improved durability, 5 million times shuttering test)
- Coordinate value collection with INS (Coordinate accuracy improved within 10cm)
- Simultaneous control of firmware & DSLR PC control mode
- Image and log file is paired and saved together
- Controlling by Wifi
- Automatic data transmission through 5G network





Collection







Service

Data collecting device

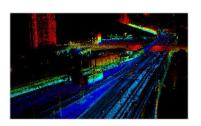


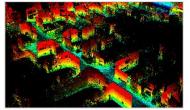


Applanix AP-20E / Quanergy M8 / Velodyne HDL-32E

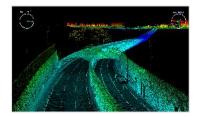
nebula-LP

- High precision mobile mapping collection device mounted on vehicle
- FOG type high precision inertial navigation system and LiDAR sensor coupled tightly
- Built-in module for synchronization and data collection
- Controlled by Wifi
- Light weight and low power
- The possibility of Integration and nebula-DSLR











Collection



Processing



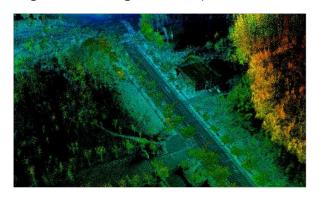
Service

Data collecting device



nebula-AP

- The device for High precision mobile mapping acquisition mounted drone.
- Possibility to collect local data that can not be accessed by vehicles.
- Perfect combination FOG-type high precision inertial navigation device with LiDAR sensor.
- Built-in operation module for synchronization and data acquisition.
- Control via Wifi.
- Lightweight (within 5Kg) and low power.





Collection



Processing



Service

Data collecting device



Wingtra One

- Performs professional aerial survey combining high resolution and accuracy
- Supporting Vertical Take-Off and Landing (VTOL)
- Maximum flight duration up to 55 minutes
- Operates with flight plan only, no navigator required
- Gurantees robustness and safety





Collection





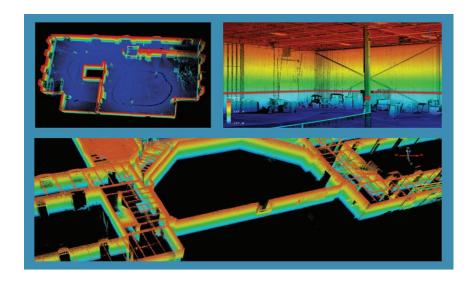
Service

Data collecting device



TIMMS

- High-precision mobile mapping device for INDOOR usage.
- Apply high precision IMU guaranteeing an accurate outcome with 3cm without helping GPS.
- Interlocking data collection between LiDAR and Camera.
- Generating close to real-world model data.





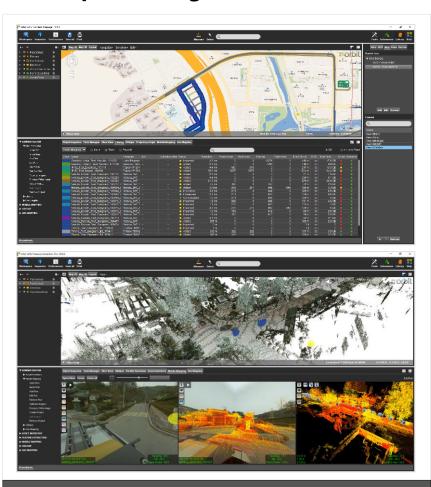
Collection





Service

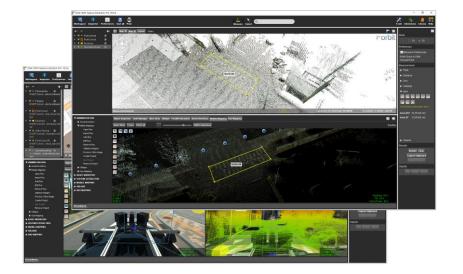
Data processing software



3DM Content Manager & Feature Extraction

3DM Content Manager & Feature Extraction

- Desktop-based data management, editing, and extraction solutions
- 3D point cloud data and image management
- · Supporting mobile mapping project sharing
- Supporting templates for various collection equipment configurations





수집



가공



서비스

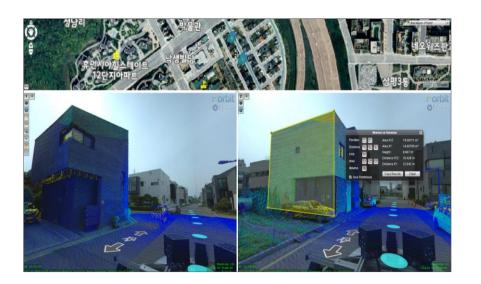
Service Software



3DM Publisher

3DM Publisher

- Server-based data management and editing solutions
- Supporting 3D point cloud data and image-based service
- Supporting Web and mobile device
- Supporting Flash or HTML5





- BigData(Any-POI)
- > Building spatial information
- > Orthographic and 3D modeling

Bigdata (AnyPOI)



As-is



Field image acquisition

+ Collection of user registration information

To-be

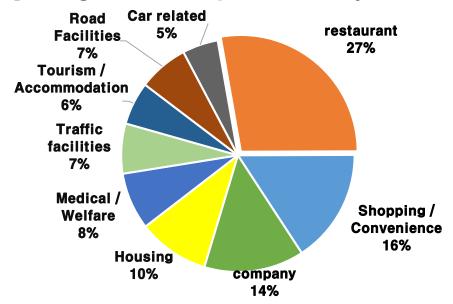


Creation the new POI through public and private(card, telecom) big data.

Bigdata (Any-POI)



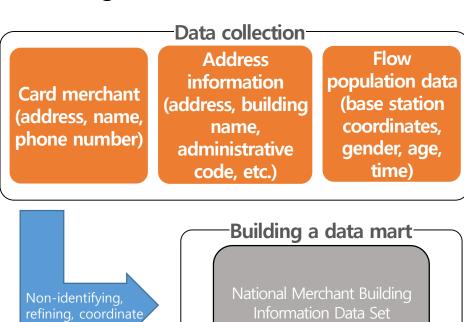
Navigation user pattern analysis

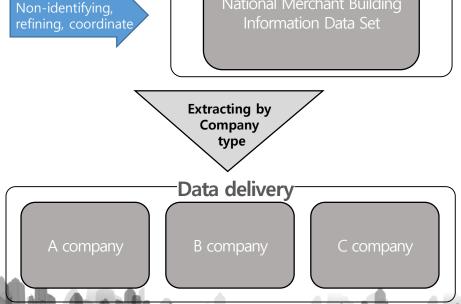


Approximately, 40% of navigation researches are concentrated on the business with high card consumption and on the place has a high floating population.

It can be esay to create a new POI if a data mart is constructed by merging new address data, credit card merchant information, and mobile phone's flowing population.

Building a data mart



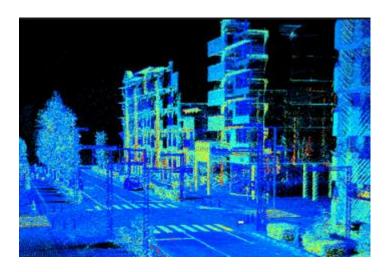


Spatial information



Various business projects supported by 3D point cloud data get form MMS and Dron.





Drones in 3D modeling and mapping

Prof. em. Dr. Armin Gruen

c/o Chair of Information Architecture, ETH Zurich

Institute of Theoretical Physics, ETH Zurich agruen@geod.baug.ethz.ch













Spatial information



Connectivity by sector



Drone courier



Construction supervision



Disaster and safety applications



Applying landscape and location analysis





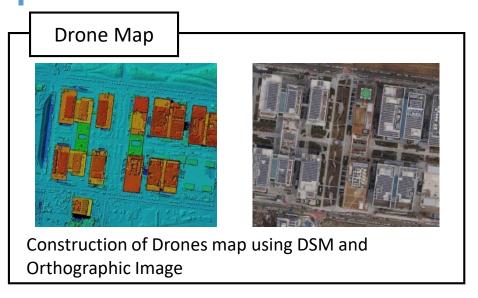
Applied autonomous driving technology

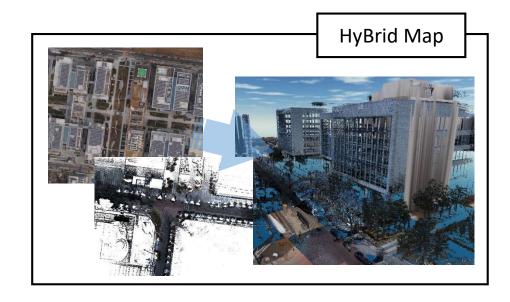
고속도로 달리는 자율주행차령

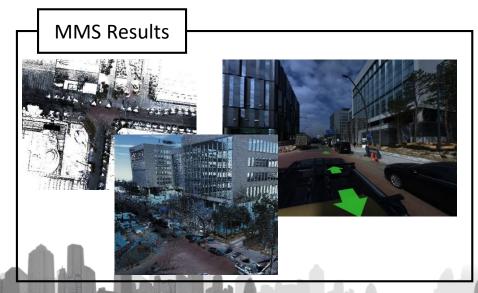
Spatial information

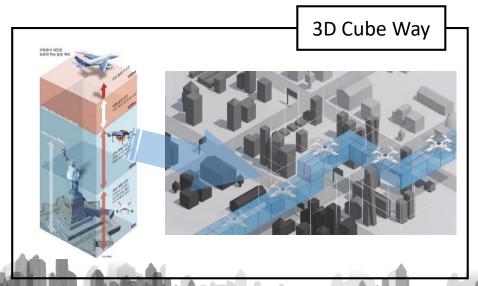


Each outcome







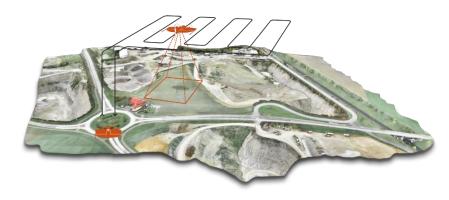


Orthographic Image



Data Collection (WINGTRA)





VTOL / Sony RX1RII / 35mm Lens

Orthophoto production



1: 1,000 Numerical maps and overlaps (accuracy verification)

Orthographic Image



Create 3D Object



Orthophoto 250Piece / Pix4d / Context Capture

3D Print

- Detailed representation using 3D printer
- Can be used in various fields such as architecture, civil engineering
- Various types of products can be produced



Production using 3D printer



Ponit Cloud & Big data Information Tchnology

씨엔비정보기술 / 대표 / 이종욱

Email: julee@cnbit.co.kr Mobile: +82-10-4631-7235

Address: 경기도 안양시 동안구 시민대로248번길 25

안양창조산업진흥원 911호

Ponit Cloud & Big data Information Tchnology

CNBIT / President / Frank lee

Email: frank@cnbit.co.kr Mobile: +82-10-4631-7235

Address: Unit 911, Anyang Creative Industry Promotion Agency, 25, Simin-daero 248beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do,

14067, Rep. of KOREA