



PIESAT

E-Agriculture Solution of PIE-Landscape Based on Intelligent Planting Decision-making Support

Beijing Piesat Information Technology Co.,Ltd.

北京航天宏图信息技术股份有限公司

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1 Company Introduction

Satellite Application Service Provider



Core technology : **RS** and **Navigation**

Core business : **Software development, consulting and design, data service, etc.**

Architecture of PIE 5.0 : 1 Core + 6 Packages + Cloud Applications



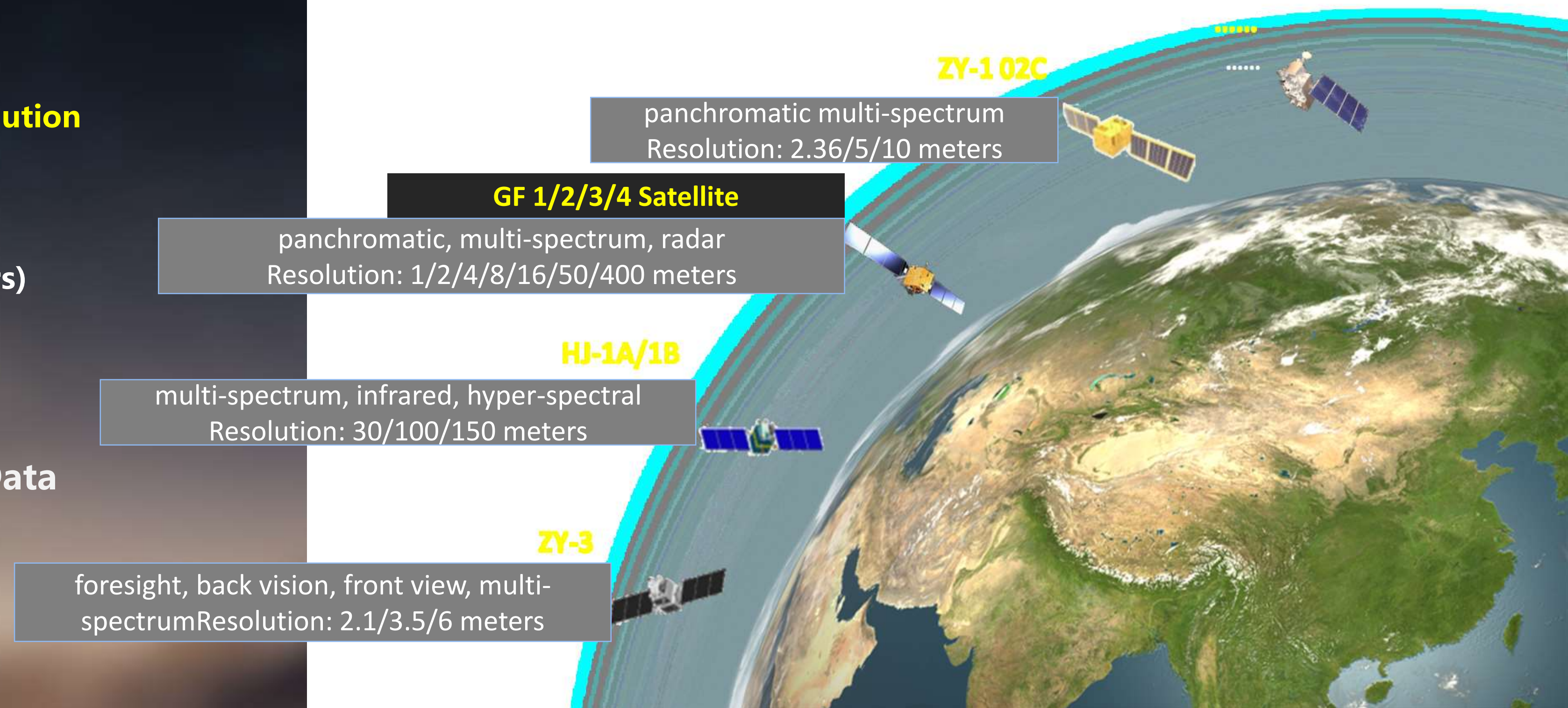
Data Resources

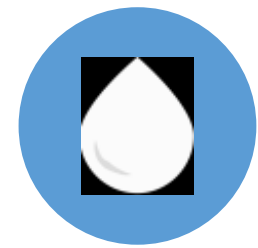
Land Satellite

- **Data repository of Landsat**
Owned ortho-image databases of **high resolution** (sub-meter , 2 meters) and **moderate resolution** (16 meters) cover all over the mainland China (9,600,000 square kilometers)
- **Strategic Partner**
China Centre for Resources Satellite Data and Application,
China Centre of TH-Satellite.

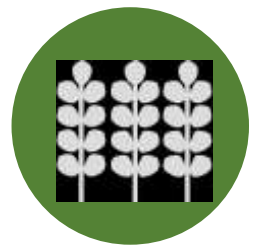
Meteorological Satellite

Ocean Satellite Data





Water
Conservation



Agriculture



Forestry



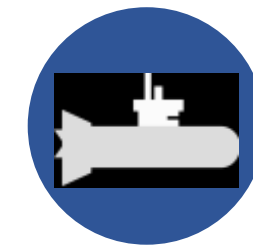
Land



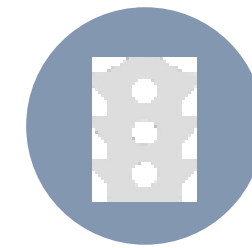
Disaster
Reduction



Environmental
Protection



Ocean



Traffic



Earthquake



Data Resource

PIE-Landscape

1 Multi-source data acquisition

- Image data
- Meteorological data
- Agronomic module data
-

3 Whole industrial chain big data mining and analysis

- Deep learning
- Evaluation & prediction
- Decision Support
-

2 High efficiency and precision image interpretation capability

- Information extraction
- Data fusion
- Image processing
-

4 Gridded precision meteorological forecast

- Meteorological disasters monitoring
- Hourly precision forecast
- Model construction
-



风·景

让每块田地成为更美的风景

开启风景

Planting decision-support for pear during the whole growth stage



Location : Daxing, Beijing

Crop : Pear garden

Area: 100+ ha



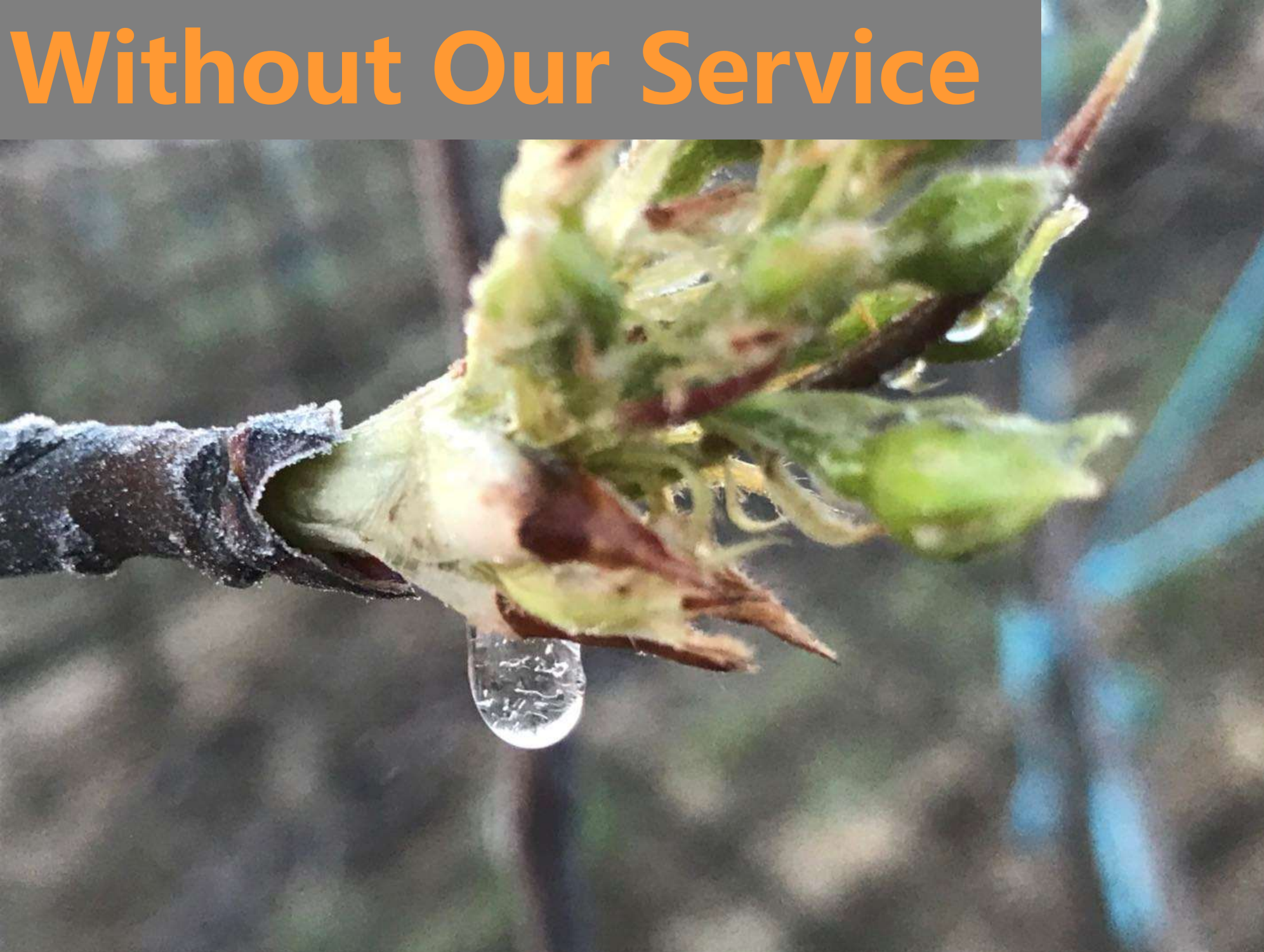
Metal Buckets



更	当日温差	最高湿度	最低湿度	风速(级)	寒潮
	12.00	75.71	11.39	2-4	是
	10.10	96.40	8.50	1-3	是
	12.20	76.03	11.39	2-4	是
	10.10	96.4	8.5	1-3	是
指预报日期零点至第二日零点					

**the day before the cold spell
lower buds are not blooming
early precision weather forecast
Everything is Ready**

Without Our Service

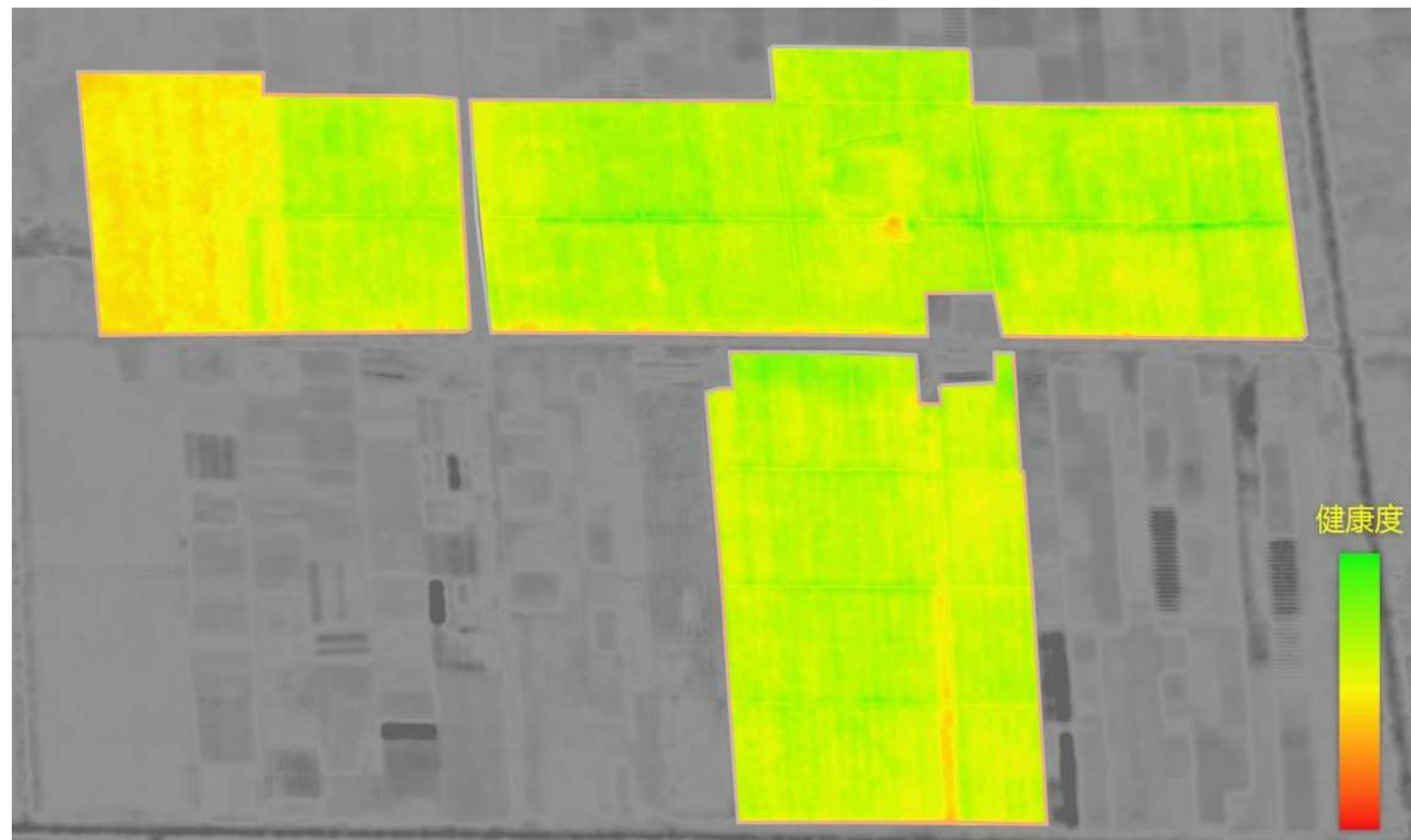


With Our Service

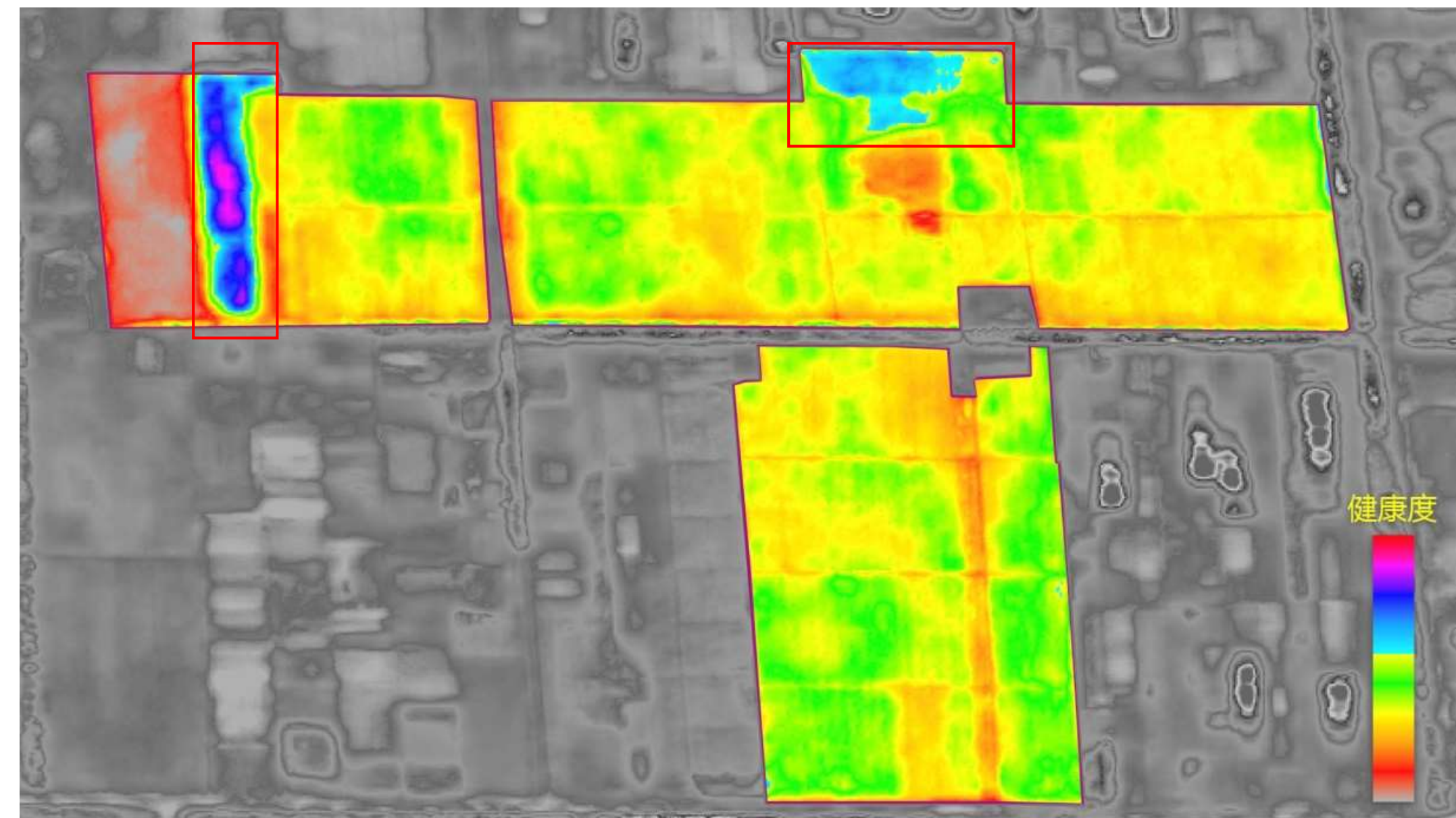


Growth monitoring for pear

NDVI image in March, 2018



NDVI image in April, 2018



- ◆ Problem points: weeds overgrowth
- ◆ Support for weeding, fruit thinning



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Thank you & Questions

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