



#### Content

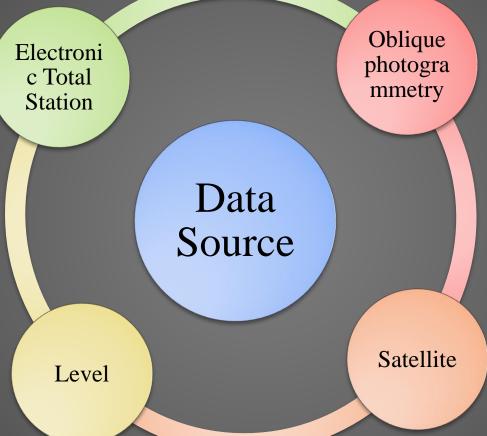
- > Support multi-source data
- > Oblique Photogrammetry
- > Image processing using AI
- > Data Collection using Mobile
- > Visualization of Point Cloud



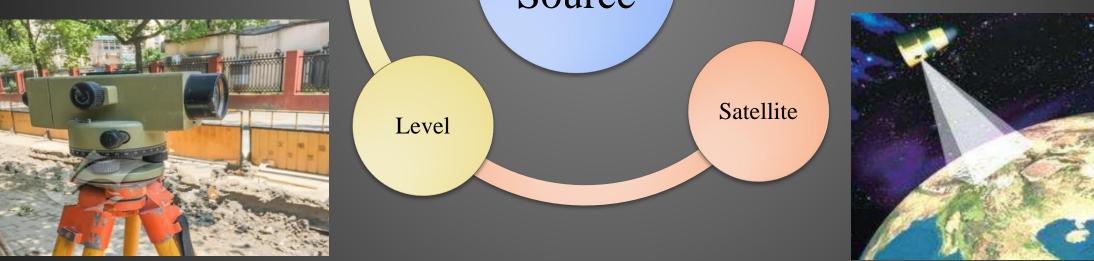


# Support multi-source data









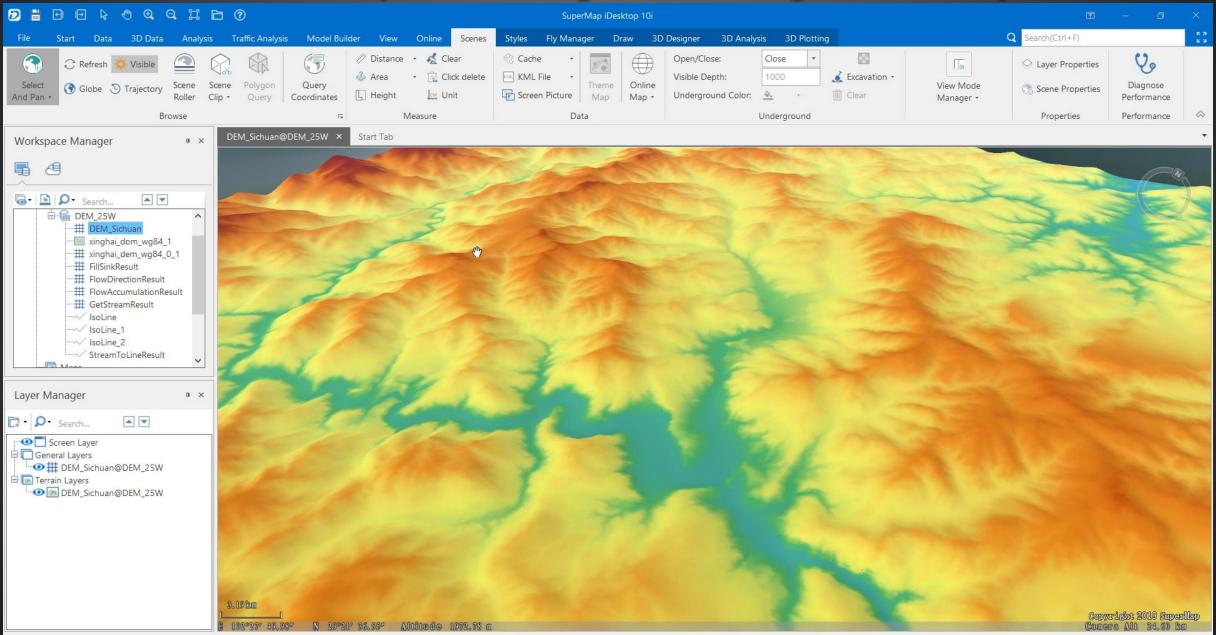
#### **Data Processing Flow**







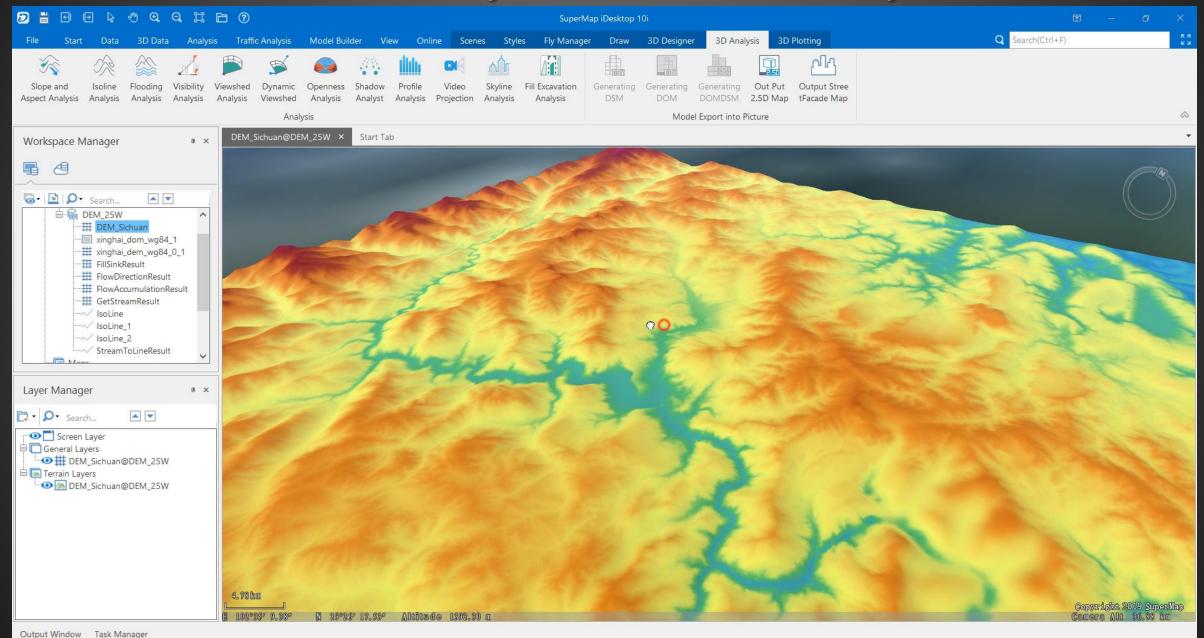
#### DEM Analysis - Slope and aspect analysis SuperMap



Output Window Task Manager

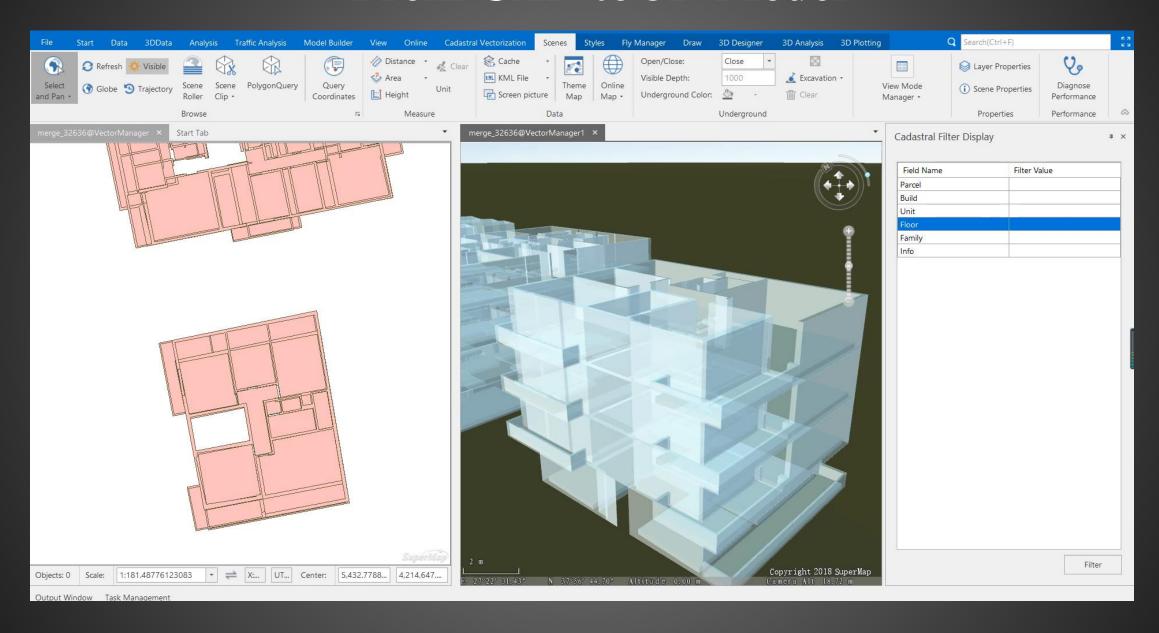
#### **DEM Analysis - Isoline Analysis**





#### From CAD to 3D Model







#### **New Generation of Survey**

#### Traditional survey

- Vector: DLG, DEM
- Image: DOM, DRG

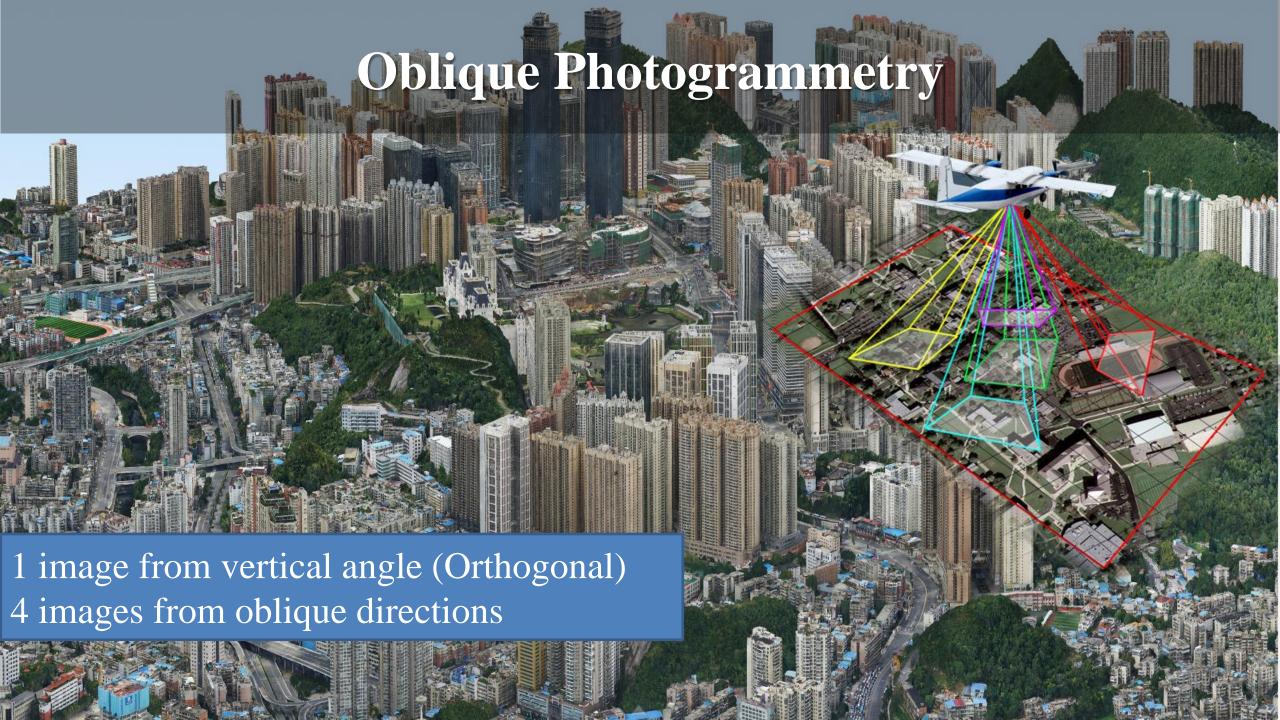
#### New Survey

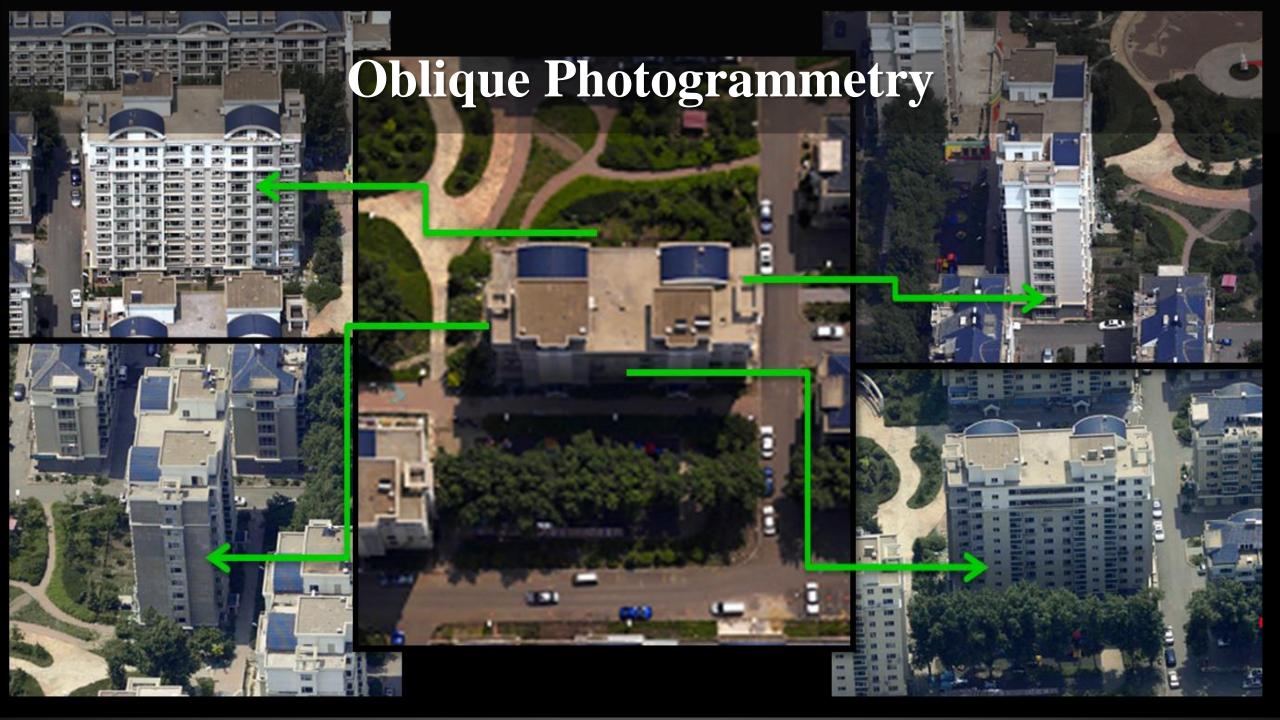
- Photogrammetry/Point cloud (Outdoor)
- BIM (Indoor)
- Pipelines (Underground)
- AI
- •





## Oblique Photogrammetry







# From Flight Platform Data Collection to Automated Modeling





#### Support Mainstream modeling software

01

02

03

04

**05** 

**StreetFactory** 

ContextCapture

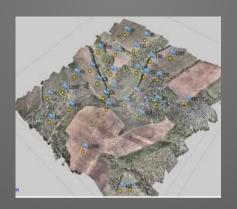
**PhotoScan** 

Alitzure

Pix4D

















## Advantages of Oblique Photogrammetry Modeling

High Efficiency



High

Realism

High Accuracy

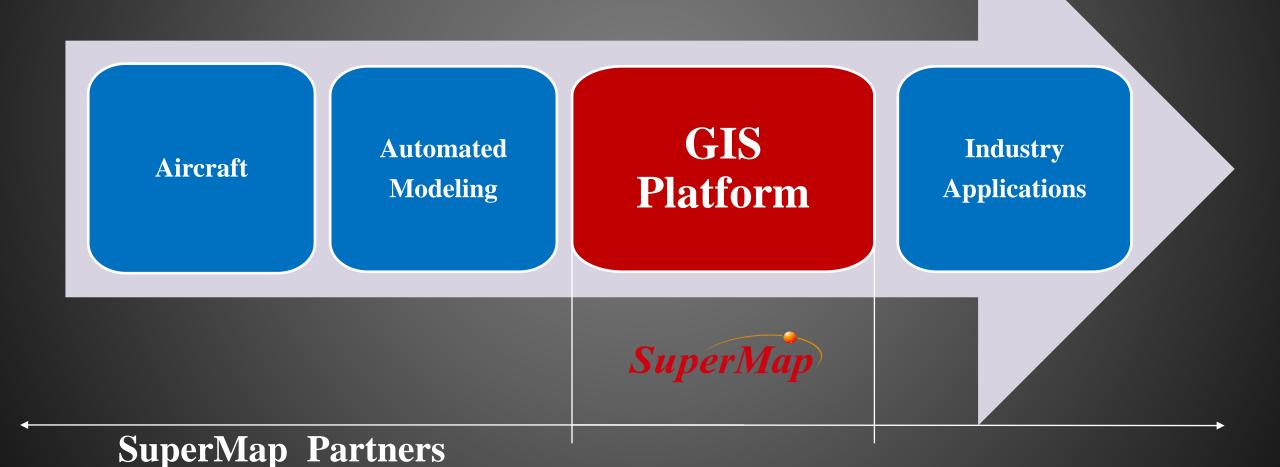


Low Production Cost

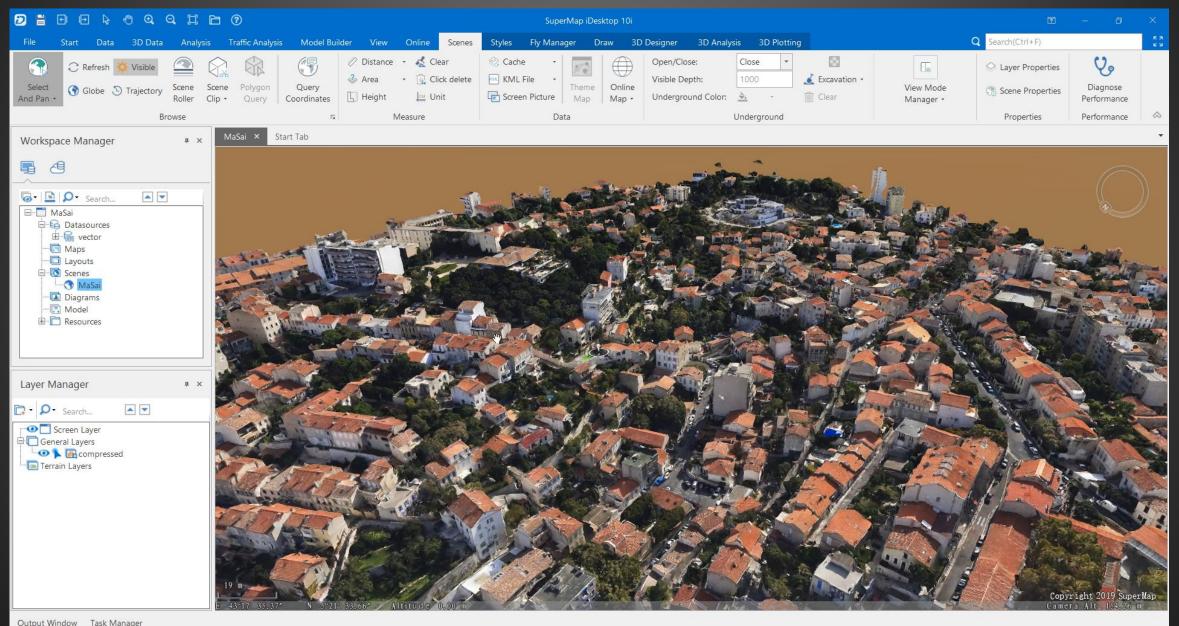


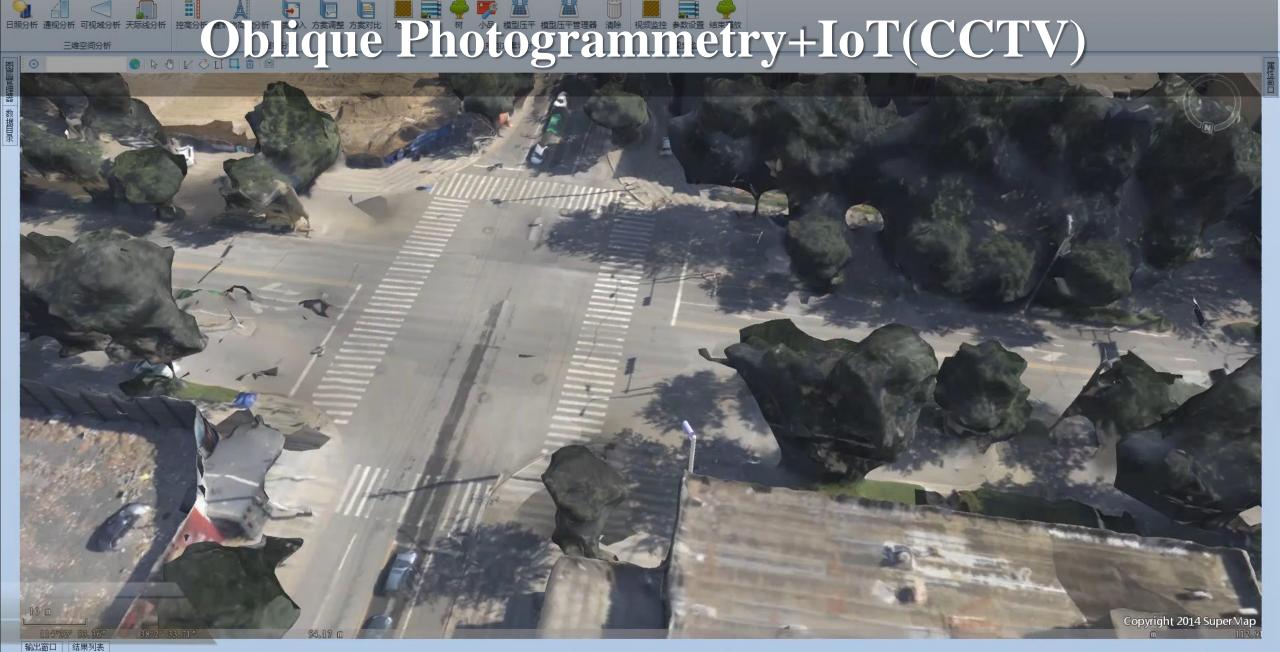


#### Industrial Chain of Oblique Photogrammetry



### Oblique photogrammetry data in SuperMaprerMa

























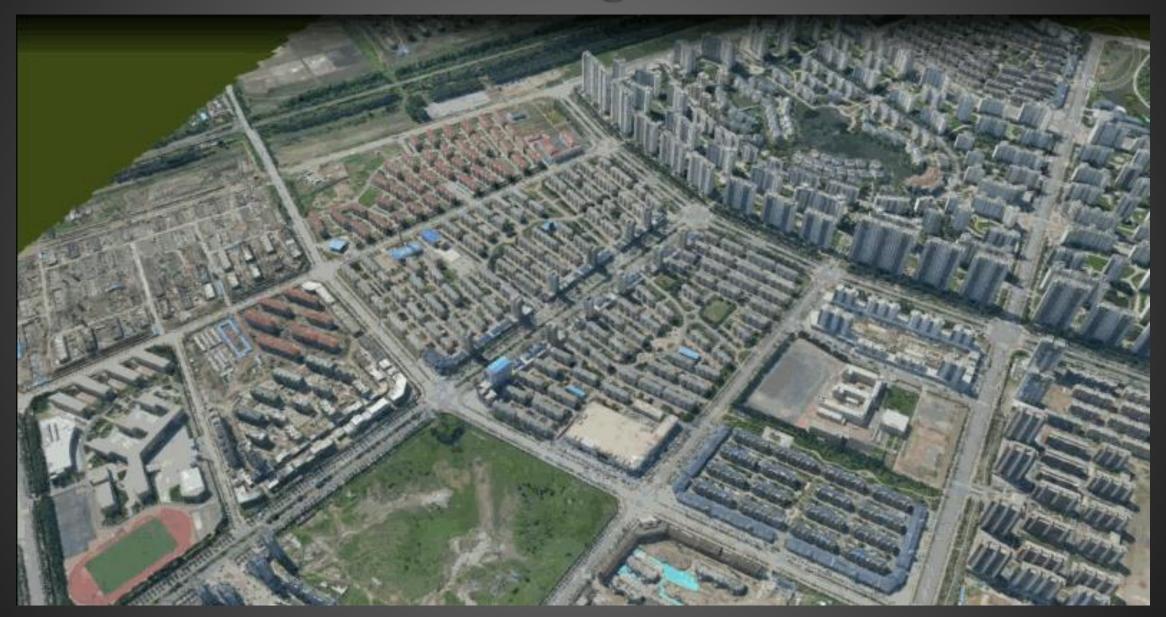


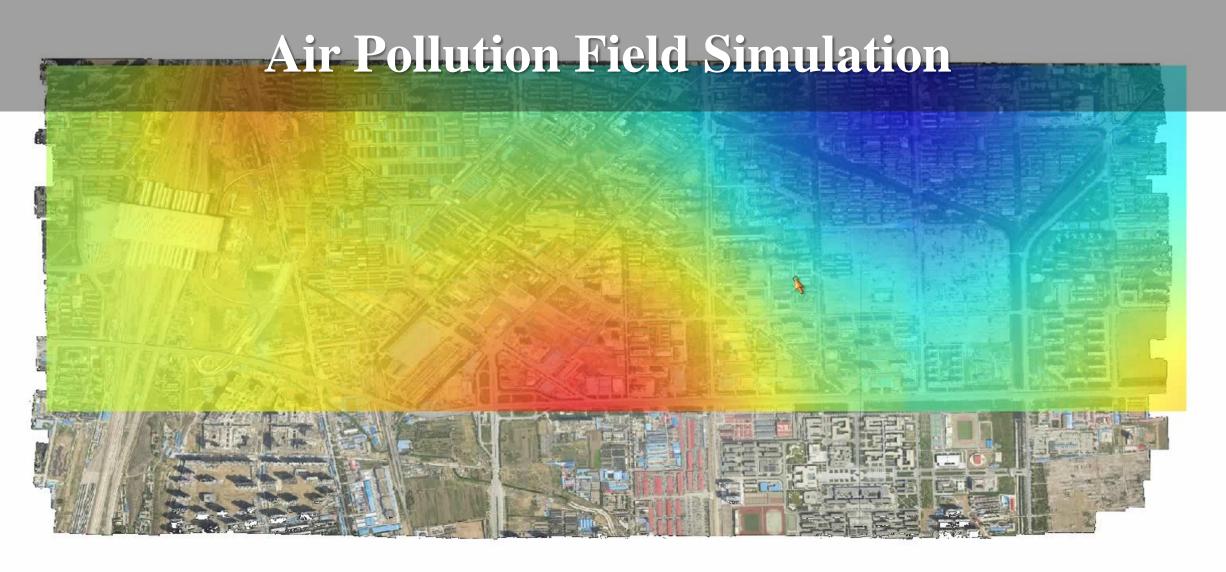






### Urban Flooding Simulation









### **Urban Planning**

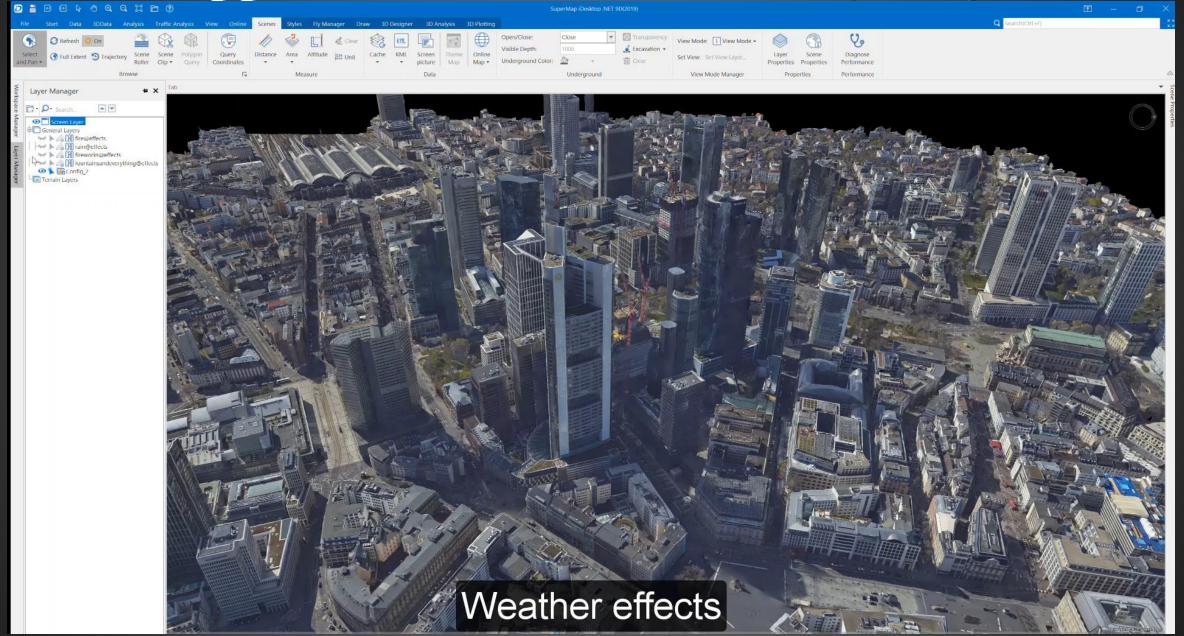


#### **Application - Fountain Effect**



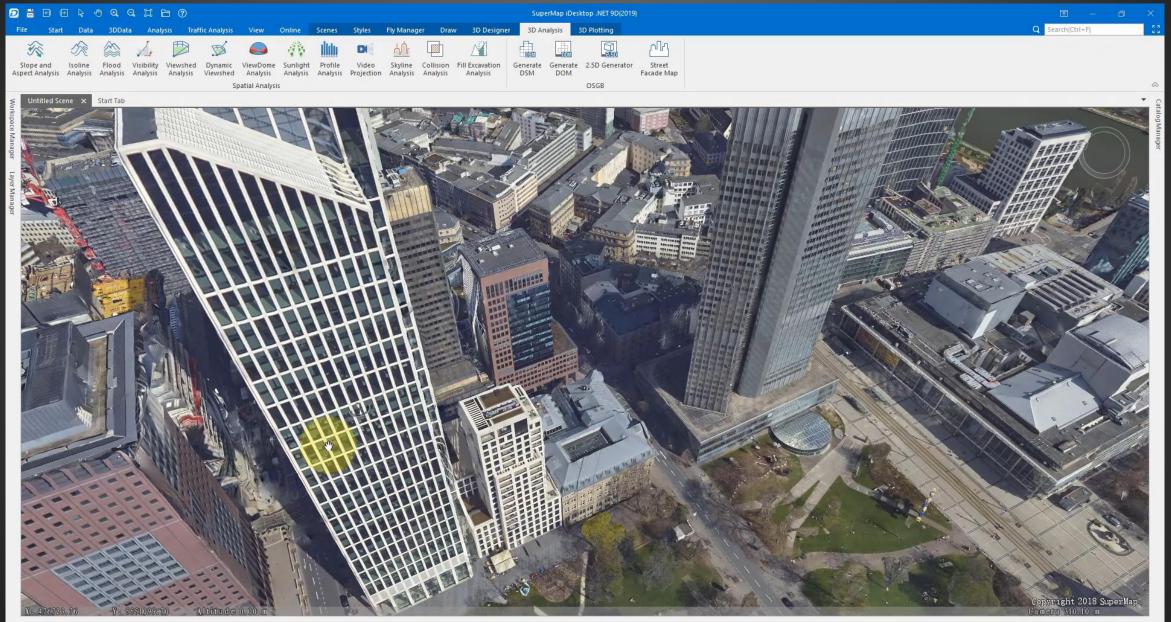
Application - Weather Effect (Rain)





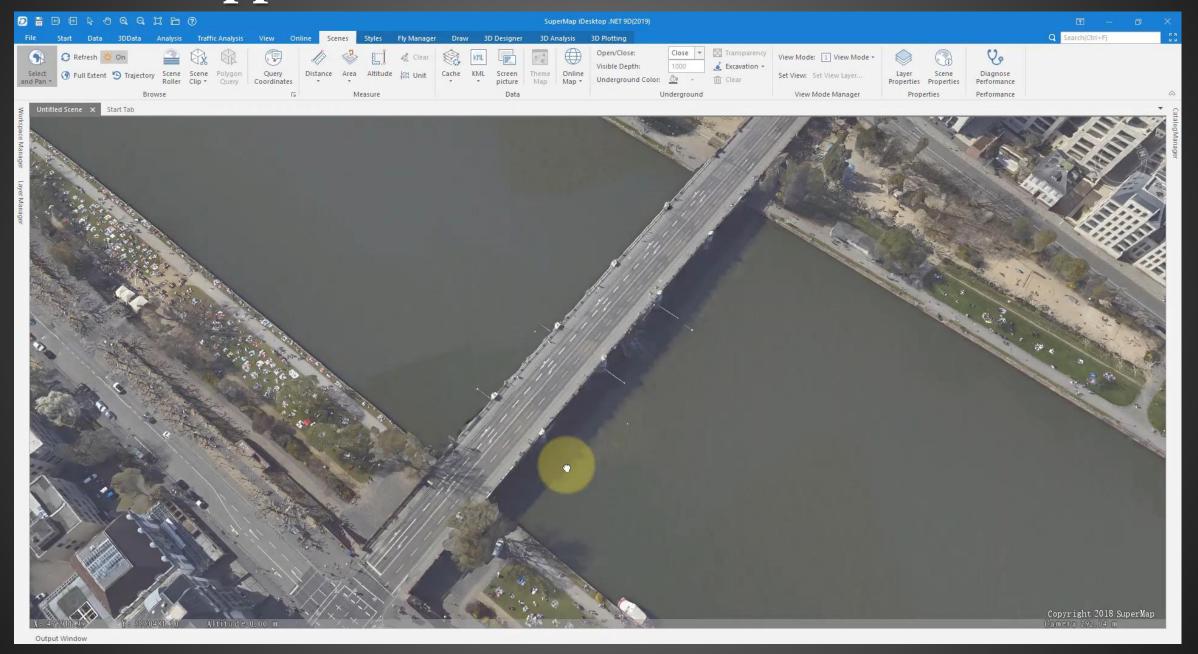
#### Application - Measure the Area





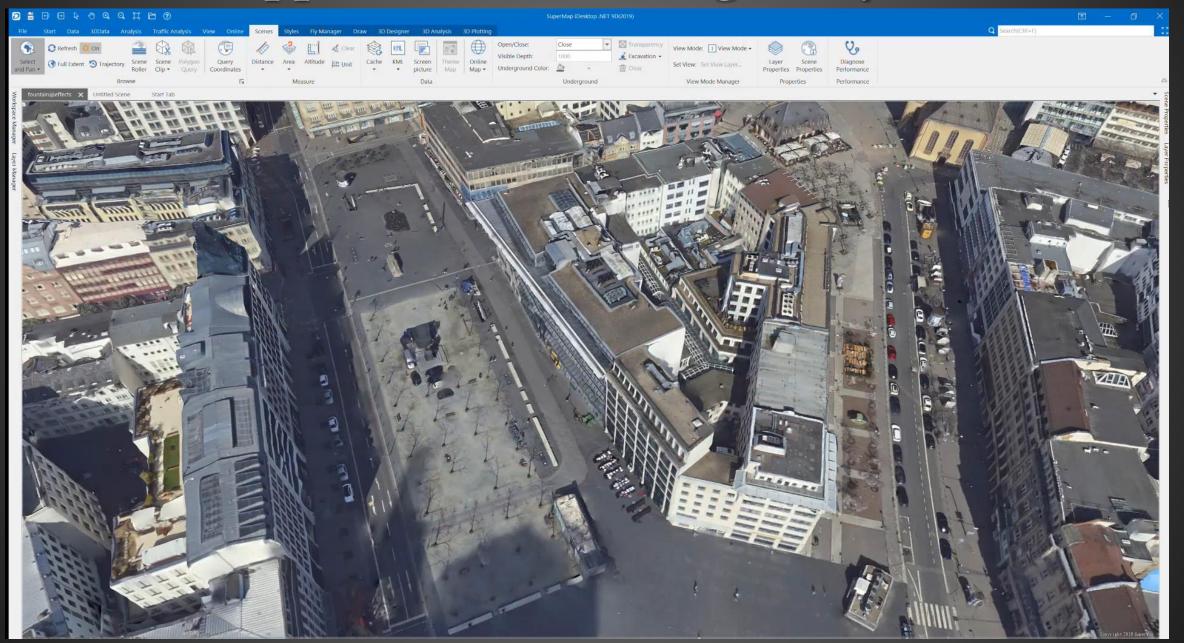
#### **Application - Measure the Distance**





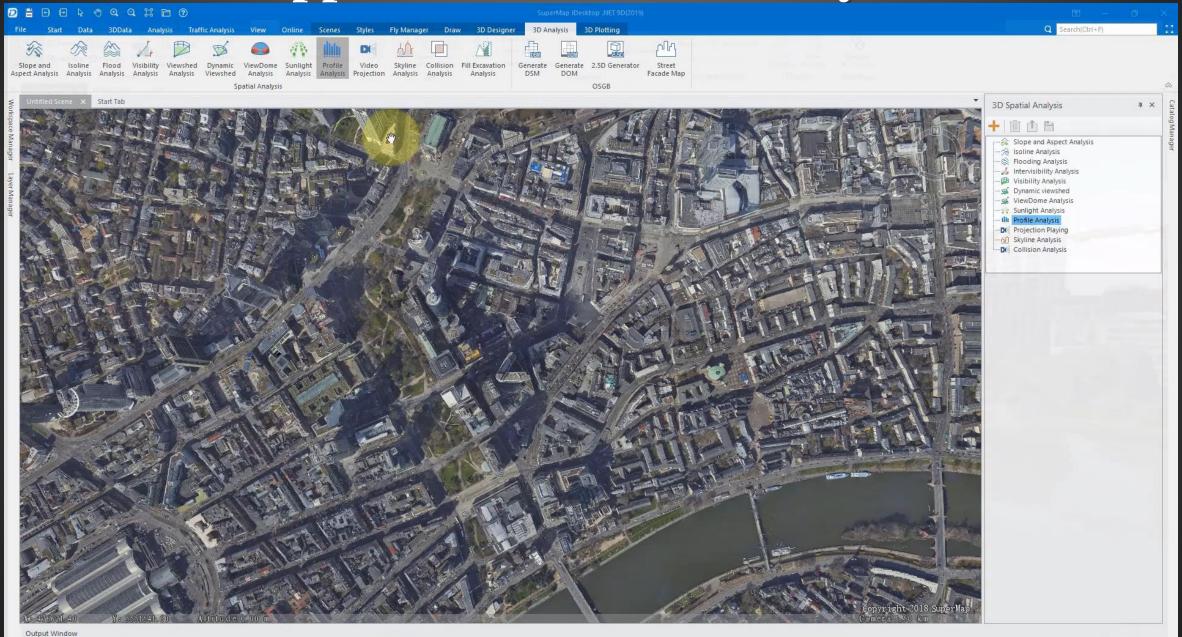
#### **Application - Flooding Analysis**





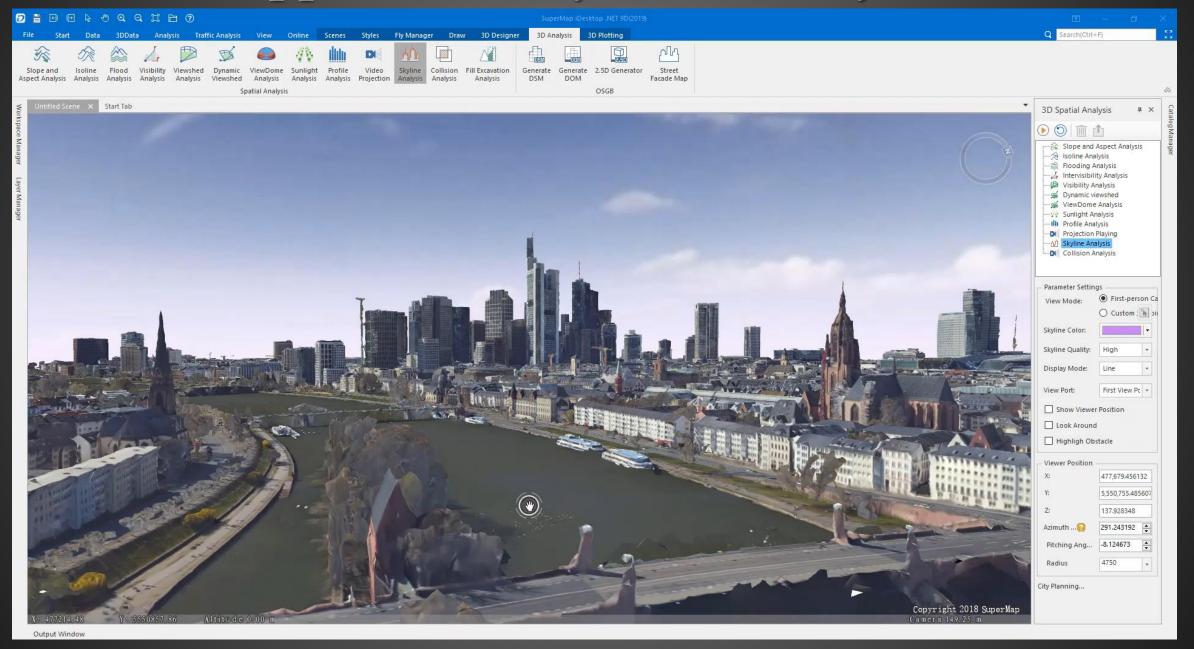
Application - Profile Analysis



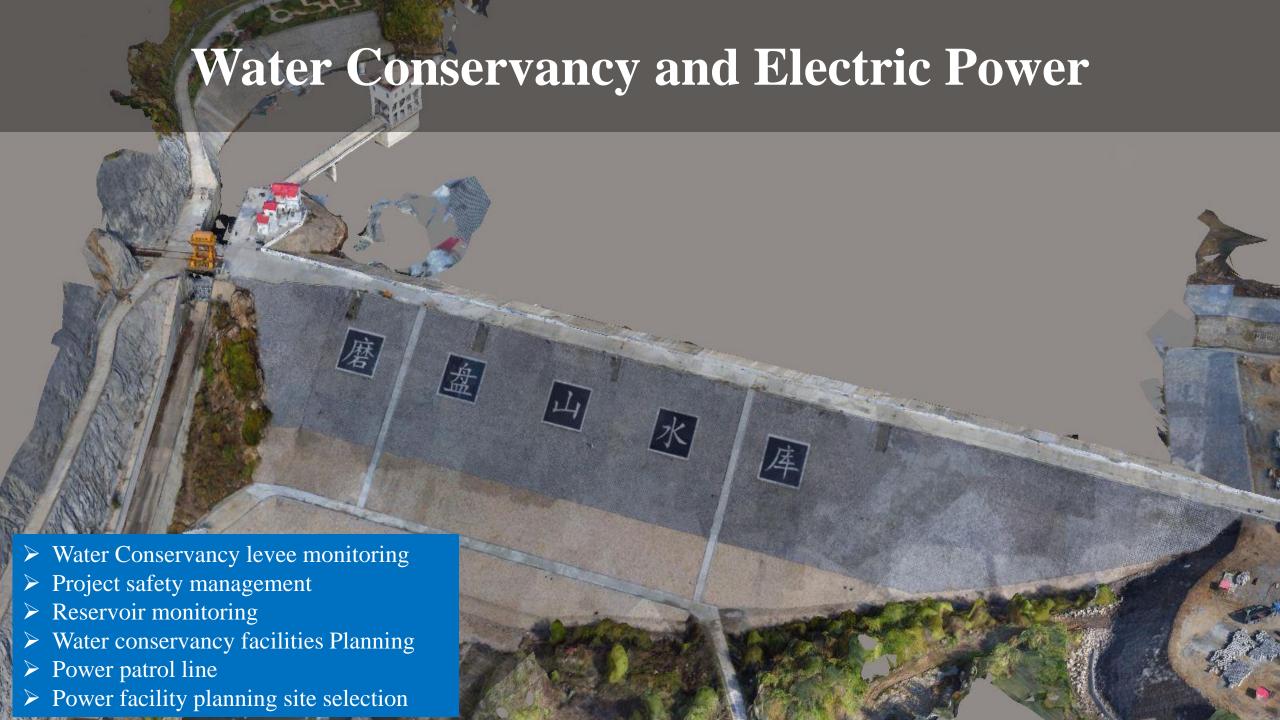


#### **Application - Sykeline Analysis**















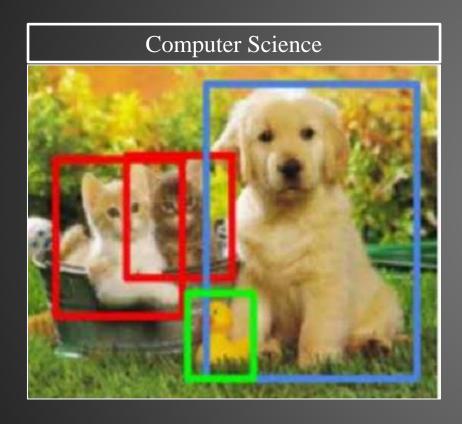
# Image processing using AI



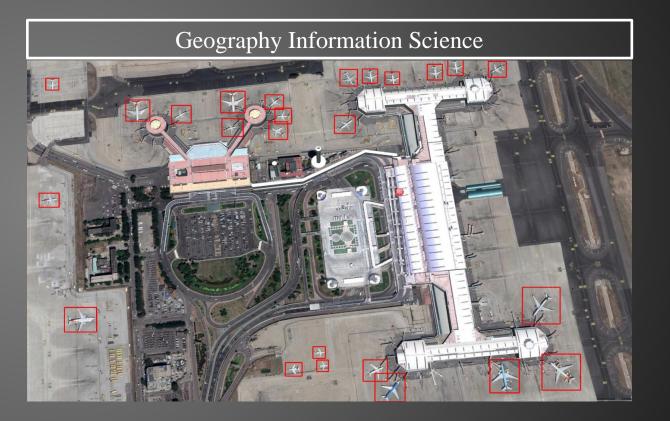




#### New Technology: AI GIS



Find Cats in Pictures



Find the Plane in the Image



#### Application: Object Detection





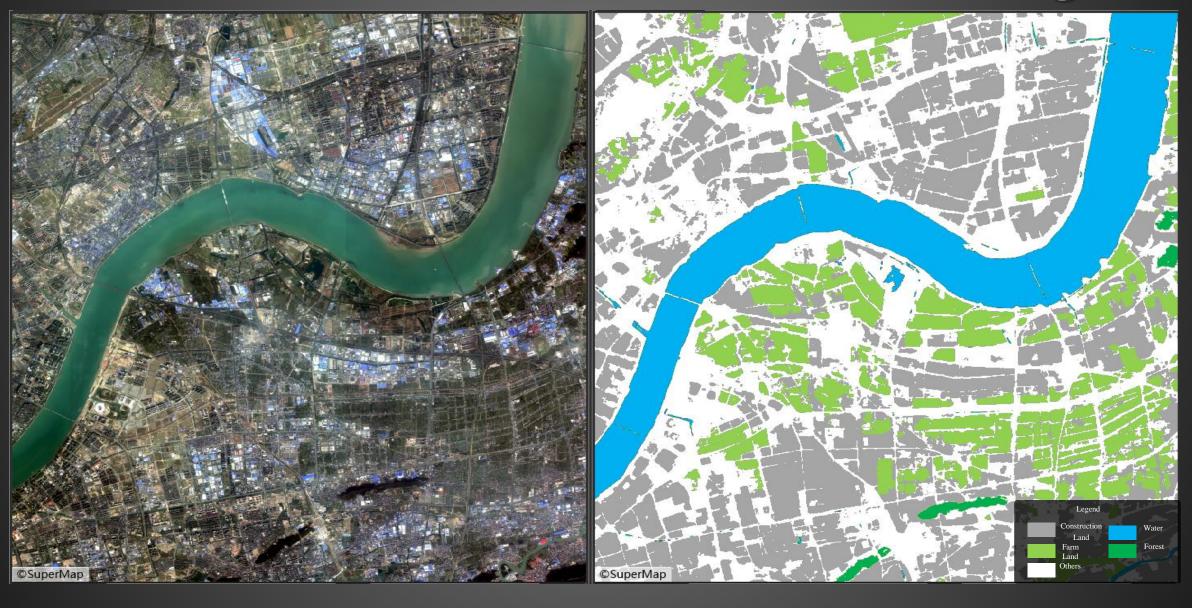


### Binary Classification: Extracting Building Footprint from Image





### Land Use Classification from Satellite Image





### Comparative Analysis of Urban Architecture







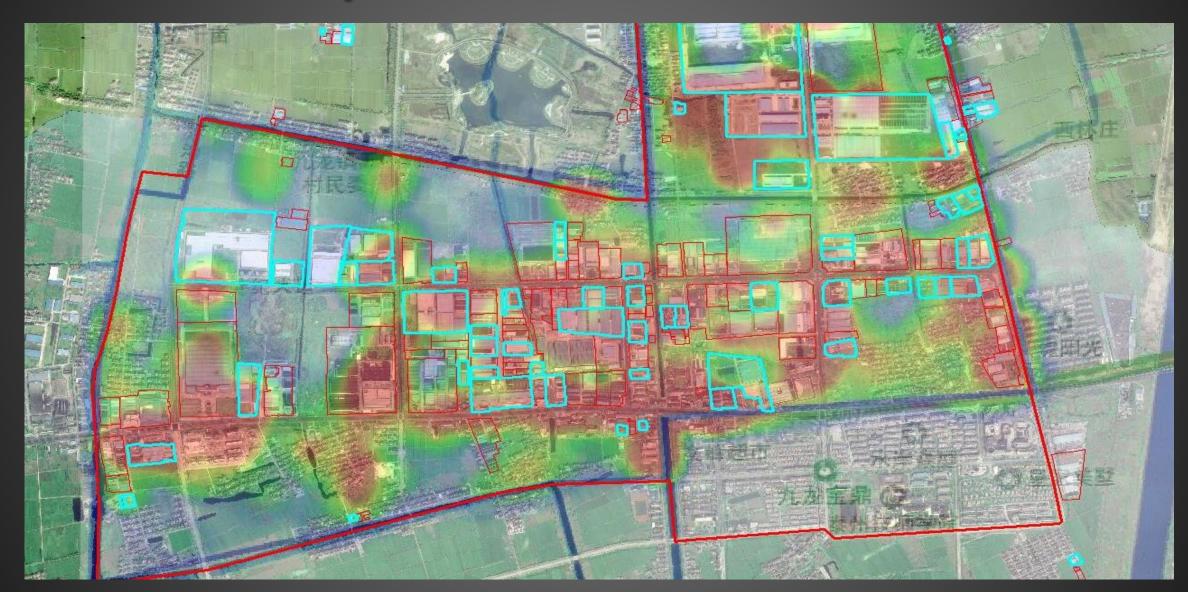








### Identify Inefficient Industrial Land



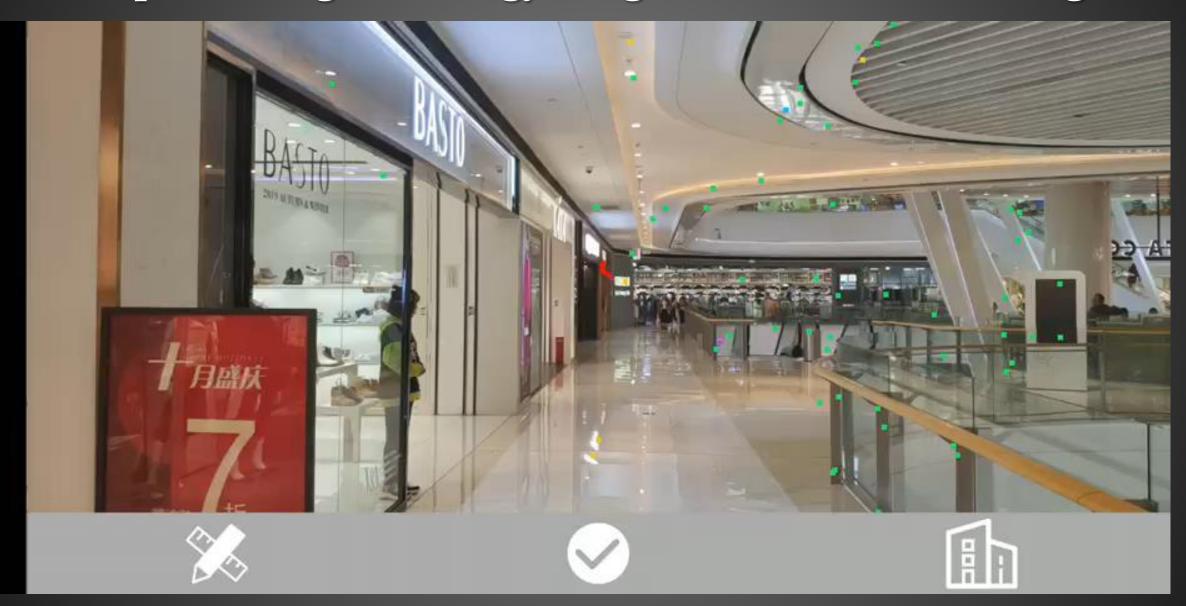




### Data Collection using Mobile



#### Indoor positioning technology integrated with inertial navigation



AR + Al Mapping







AI Based Attribute
Data Collecting
(Illegal Parking)

车辆号码: 正在识别...

车辆类型: 正在识别...

车辆颜色: 正在识别...

确认





# AI Based Attribute Data Collecting (Posters)

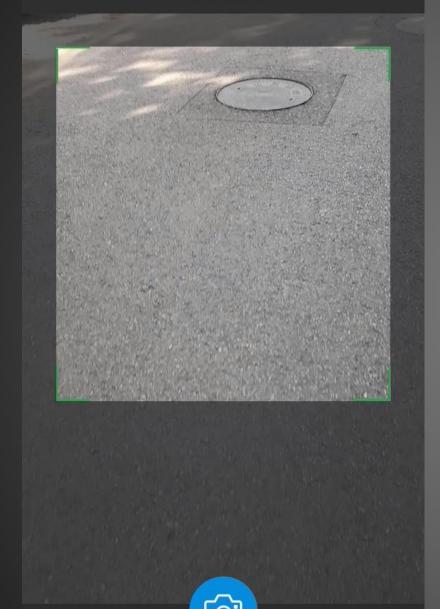
识别类别:

位置描述:

相似案卷:

**\*** 



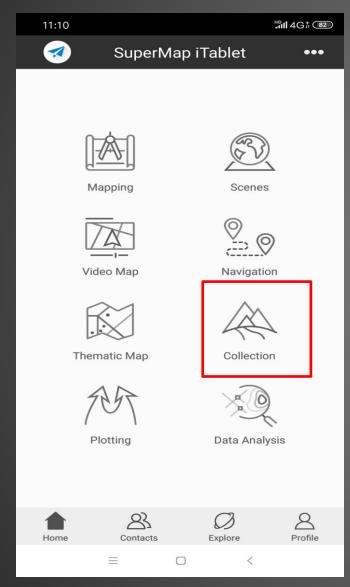


## AI Based Attribute Data Collecting (Manhole Covers)



### SuperMap iTablet







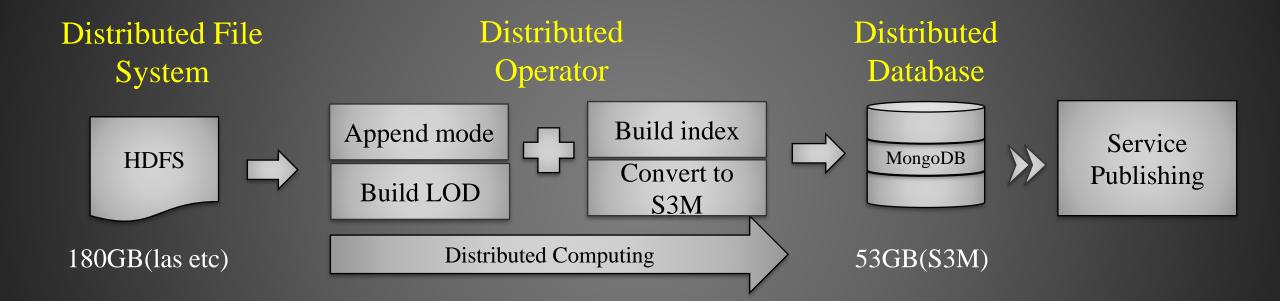




### Visualization of Point Cloud Data

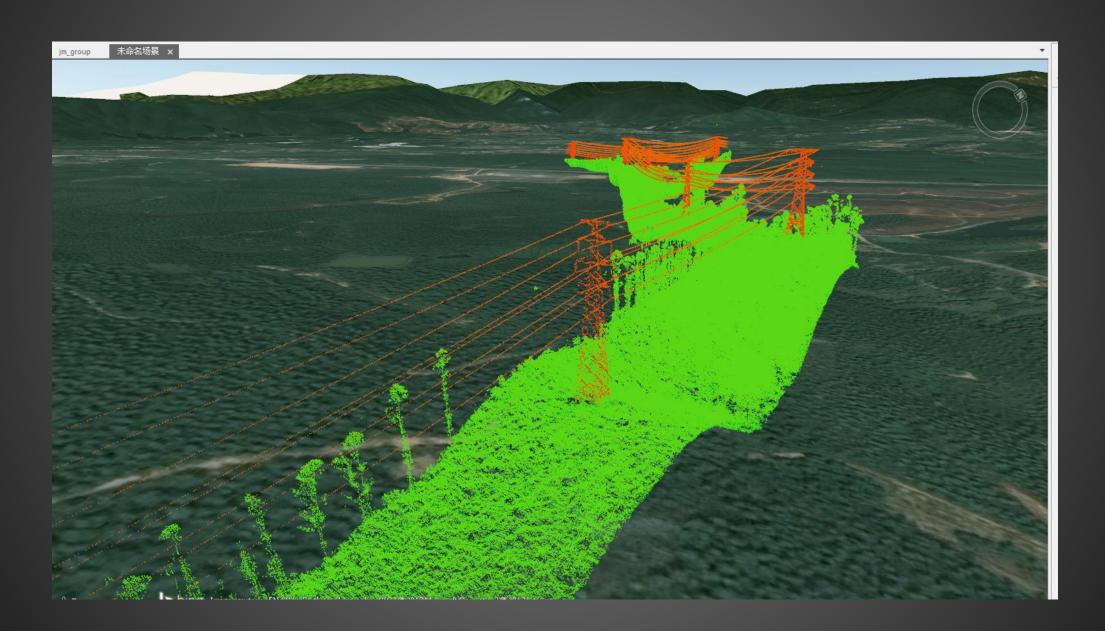






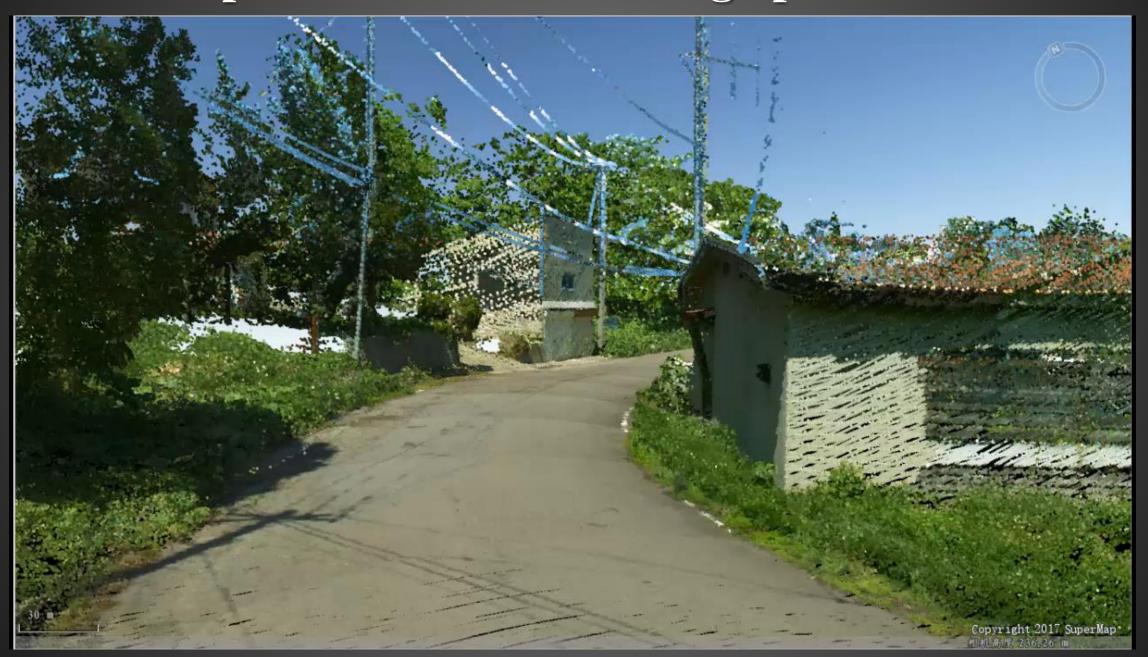
#### Set the color for Point cloud cache





#### Load point cloud data with high performance SuperMap







### **Applications of EDL mode Drawing**

