



Land Survey Solution Powered by Azure & Telescope®



AEC Industry: Land Survey Solution Powered by Azure & Telescope®

Affine's Land Survey using Azure & Telescope® is easily adaptable and deployable for AEC industry allowing Construction and surveying professionals to detailed and accurate land surveys



CHALLENGES

The traditional methods of land surveying involve manual field work, which is both time-consuming and costly. Additionally, the tedious process of classifying geographical features makes the project even more challenging.

IDEAL SOLUTION

With Land Survey consulting Solution customer can quickly identify and classify geographical features like trees, cars, roads, buildings, etc. without the need for conventional surveying methods.

DESIRED OUTCOMES

The output of this POC will be available in form of annotated images with prediction of the given area segmented into different geographical classes. This Proof-of-Concept implementation can be expanded to your production environment.



AFFINE

COMMAND THE NEW

Land Survey Solution Powered by Azure & Telescope®



40% reduction in survey cost



Identified geographical features to provide accurate input for area assessment



Accelerate topography workflows/land surveys

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7-WEEK POC AGENDA

- **EDA:** Identification of classes to be predicted via Remote Sensing Tool, Data Understanding and Quality Assessment
- **Image Pre-processing:** Image Augmentation & Annotation
- **AI Model Development:** CV Model Development - Model Training, Model Testing & Validation
- **Backend Development:** APIs creation, API integration with UI/UX
- **Architecture Configuration:** Azure Blob Storage, Azure Function, Azure SQL configuration
- **Front End Development:** UI Development for Satellite Image Segmentation Tool
- **Deployment:** Model and Application Deployment on Azure Infra



Azure ML
Service



Azure VM



Blob Storage



Azure
Cosmos DB



Azure
Functions



Azure App
Service



Azure Files



Want to know more?



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