

## Slope Disaster Management Technology

### Slope Measures Investigation and Analysis

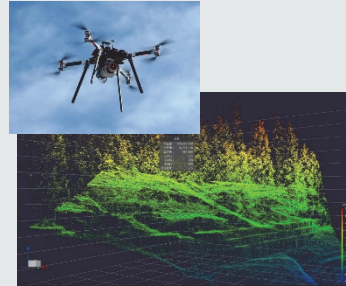
We use our ample experience and professional knowledge as a geological consultant for construction works to investigate and analyze slopes for their deformation including slope failure, rockfalls and landslides and propose appropriate slope stabilization methods to prevent such deformation.

#### ◆ Geological reconnaissance



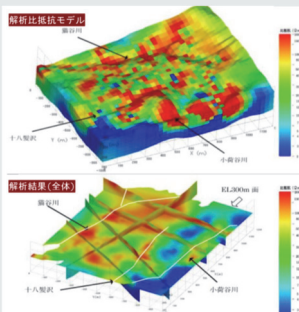
Engineers with geological knowledge study the site to elucidate the geological condition of the site.

#### ◆ Topographic survey with UAV



A 3-D representation of the ground surface is generated by processing numerous aerial photographs and LiDAR data taken from an unmanned aerial vehicle (UAV).

#### ◆ High density electric sounding



Many electrodes are inserted into the ground to measure underground resistivity. The obtained resistivity values are used for the creation of a geological profile, which elucidates the geological condition of the site.

#### ◆ Boring survey



A continuous geological core sample collected in this survey is used to elucidate the geological condition of the site in detail. The drilled borehole is used for measuring underground displacement and groundwater level.

## Landslide Prevention Works

We have implemented many landslide prevention works and accumulated experience in such works since the 1960's. The landslide prevention works that we have implemented include those requiring advanced technological capacity.

#### ◆ Steel pipe piling



Steel pipe piling is a landslide prevention work of driving steel pipes into the ground to the depth of a few scores of meters. The largest steel pipe piling we have implemented is driving 550 mm-diameter pipes to the depth of 46.5 m.

#### ◆ Large well



A Large well enables efficient drainage of groundwater in a deep layer. While ordinary Large wells are 20 m to 50 m-deep, the deepest Large well we have constructed is 109 m-deep.

