

# Application of CORS for Cadastre

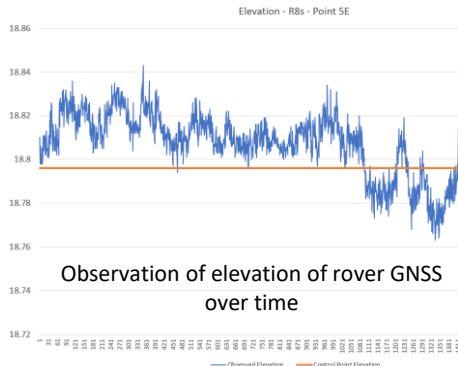
Aruna Technology/Royal University of Agriculture/General Dept. of Cadastre and Geography/Prov. Dept. of Land Mgmnt, Urban Planning, Construction & Cadastre

## About us

Established in 1997, Aruna is a leading company in aerial and land survey and spatial information. Collaborating with private and government partners, Aruna provides integrated solutions for forestry, protected area management, agriculture, and topographic surveys. They combine local expertise with advanced tools like satellite imagery, aerial photography, GPS receivers, and GIS software, while focusing on developing the capacity of their counterparts for future sustainability.

## How we use Khmer GEONET

Supporting our project partners, we used Khmer GEONET for cadastral mapping. Before using Khmer GEONET, it was a rover GNSS instrument needed to connect to a base station which had to be set up at each working area. Using base station, the baseline is limited by radio range and it is time consuming and complicated to operate. By using Khmer GEONET, cadastral mapping staff can switch on their instrument and begin working immediately with confidence.



### Without Khmer GEONET

- Takes time to setup a base station
- Base station has limited range
- Coordinates are not consistent
- Need more field staff to operate the base station
- Base station is not always available

### With Khmer GEONET

- Rover GNSS can connect and go
- Uptime is very good
- Coordinates are consistent
- Complete more work in 1 day
- Use less human resources
- More confidence in outputs

## From here forward

This pilot project successfully demonstrated the benefits of Khmer GEONET for cadastral survey. As of July 2024, more than 200 surveyors use the system every week for cadastral mapping and other tasks. Since the network is limited in coverage, we look forward to the expansion of the network to cover the whole country.