

## **LAB 6 GEOREFERENCING**

Registration is generally used to align stations with a project. The purpose of georeferencing is to transform the project data to another coordinate system. Registration requires at least two stations while Georeferencing only one. In lab 5, we used Registration to properly align the point clouds. We can achieve the same results by Georeferencing. In this lab, the coordinates of the three targets at Station 1 is treated as reference coordinates (external coordinate system) for the three targets at Station 2. As a result, the coordinates of Station 2 is transformed into those of Station 1, achieving the same results as Registration.

Here is a summary of the process:

1. Open the file TargetReg.ppf. Manually record the coordinates of Target 1 through 3 at Station 1 on a piece of paper.
2. Use the coordinates recorded in Step 1 to georeference Station 2, following the steps discussed in the class.
3. Compare the results with Lab 5.
4. Submit a lab report following the format provided.

### **Lab 6 Report Format**

This is a group report. Each team only needs to submit one copy. The format of the report is as follows;

1. Title page including: a) title of the lab; b) course name and lab number; c) team members; and d) date.
2. Objectives
3. Theoretical background of Georeferencing
4. Georeferencing procedures
5. Results and discussion
6. Conclusion