How-To: Avenza Maps

1. Installation and Setup of Avenza Maps

- Download the app: Download and install the Avenza Maps app from the App Store (iOS) or Google Play Store (Android).
- Registration: Optionally, you can create an account with Avenza to sync your data. This is **not** required for our purposes.

2. Importing a Layer into Avenza Maps

- Open Avenza Maps and navigate to "Layers" at the bottom.
- Tap the '+' symbol at the top right and select "Import Layers".
- Select the file (in our case "03.kmz"), and it will be imported into Avenza Maps (or via QR code).
- The layer should now be displayed on your base map.

You should now see the individual stations and can navigate to them. **Now you need to make sure to create a new layer for your measurements and declare it as the "active layer"**:

- Set as active layer

    - Open the "Base Map"
    - Tap the layer symbol at the bottom right
    - Then select "Set as active layer" from the three dots next to the layer "name-of-your-own-layer"

Now, when you add points, they will be added to your own layer. At the end of the exercise, you can easily export your points.

3. Path Tracking with Avenza Maps

Start tracking:

- Make sure your GPS is enabled.
- **Ensure that your newly created layer is the active layer!!**
- Tap the measurement symbol at the bottom left and select "Measure GPS tracks".
- Then you can start a track. Keep it active until the exercise is finished :)
- The app will now start tracking your location and recording the path on the map.
- Make sure to always stay on the designated path (e.g., always on the right side of the path).
- The recorded path will be displayed as a line on the map.

Stop tracking:

Once you have completed the loop, tap the track symbol again and select "Stop Tracking". The path will now be saved as a completed element.

4. Measuring Points

Insert point:

- **Ensure that your newly created layer is the active layer!!**
- During the loop, tap the pin button at the bottom right to save a new point on the map. **Make sure your position is at your current location!!!**
- Your position will automatically be marked as a point.
- Naming points:

  – After inserting the point, you can name it, e.g., A, B, etc.
  – Add a description (coverage): Write a number between 1 and 10 (nothing else!), which roughly reflects the coverage above you. For example, if you are standing in a forest under many trees, 8 or 9 would be a realistic value. In open sky, probably a 1 or 2.
  – Save the point and then move to the next one!

5. Exporting Data

Export the path:

- Open the list of saved tracks (under 'My Maps' > Track symbol).
- Select the tracked path and tap the three dots (⬚) next to the track name.
- Select 'Export' and export the path as GPX (GPX is sufficient for import into QGIS).

Export the points:

- Open the list of saved points (under 'My Maps' > Point symbol).
- Select all the points you saved during the exercise (NOT the ones we provided!).
- Export the points as CSV so that you can find them again!

Now follow the instructions in ex03.pdf