Fieldwork on Urban Expansion and Sustainable Development of Kwu Tung: 
(1) Manual for Creating Layers with Collector for ArcGIS
A. Prepare a Polygon Layer

1. Sign in to https://developers.arcgis.com/

2. Choose **New Layer**.
e-Learning in Geography Series (17): Using mobile GIS, GPS and external data collection sensors for data collection and on-site mapping in geography fieldwork (Case Study 2- Urban expansion and sustainable development of Kwu Tung) (Refreshed)

3. Choose **Create an Empty Layer**.

4. Fill in the information of the layer (i.e. steps 1-3 below), and then press **Geometry**.
   For the field **Title**, use “Landuse_polygons_name (e.g. Landuse_polygons_ChanTaiMan)”

5. Choose **Polygons**, and then press **Fields**.
Fill in the Name and Alias of the fields 1 and 2, and then choose Add Field. Choose Settings when done.

Share the layer to My Organization, and then choose Create Layer.
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B. Prepare a Point Layer

8. Choose **New Layer**.

9. Fill in the information of the layer (i.e. steps 1-3 below), and then choose **Geometry**. For the **Title**, input “Landuse_points_name (e.g. Landuse_points_ChanTaiMan)”

10. Choose **Points**, and then press **Fields**.
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11. Fill in the **Name** and **Alias** of the fields 1 and 2, and then choose **Add Field**. Choose **Settings** when done.

12. Share the layer to **My Organization**, and then choose **Create Layer**.
C. Prepare a Line Layer

13. Fill in the information of the layer (i.e. steps 1-3 below), and then press **Geometry**.
   For the **Title**, input “Landuse_lines_name (e.g. Landuse_lines_ChanTaiMan)”

14. Fill in the **Name** and **Alias** of the fields 1 and 2, and then choose **Add Field**. Choose **Settings** when done.
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15. Share the layer to My Organization, and then choose Create Layer.

D. Group Layers

17. After entering the page of **Layers**, choose the **polygon** layer – “Landuse_polygons_ChanTaiMan”

18. **Press Open in Map Viewer.**

19. Choose **Add**, and then **Search for Layers**. Choose the created point and line layers.
20. Press **Save** to save all layers.