

介紹 GIS 及 相關IT資源

CUHK EduVenture System



CUHK
香港中文大學

CLST 學習科學
與科技中心
Centre for Learning Sciences and Technologies

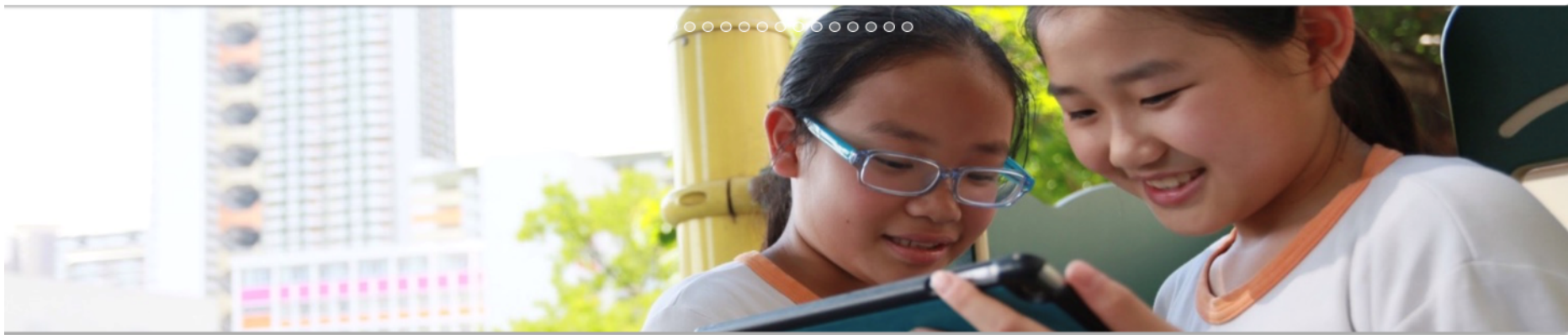
EduVenture®

電郵
忘記密碼

密碼

登入

首頁 開發團隊 系統學與教 ▾ EduVenture 網誌 聯絡資料



EduVenture® Composer

由於網絡技術問題，近日連接到EduVenture伺服器曾出現斷線或無法編輯等問題，我們已盡力及已完成收復工作。EduVenture系統已正常運作。但伺服器早前的問題可能導致2016年11月至12月其間的題目選項出現不完整，而需要重新輸入選項。主要受影響題型為MC裡的選，表格及概念圖的內容；（*題目本身不受影響）。在未來會致力更新系統，令服務更穩定可靠；這次為各位帶來不便，我們十分抱歉。若有任何疑問或需要技術支援，請電郵至clst@fed.cuhk.edu.hk

EduVenture®戶外教材設計比賽 得獎作品

各得獎作品現已於 EduVenture® X應用內開放供所有用戶下載。

Centre for Learning Sciences and Technologies (CLST)
The Chinese University of Hong Kong



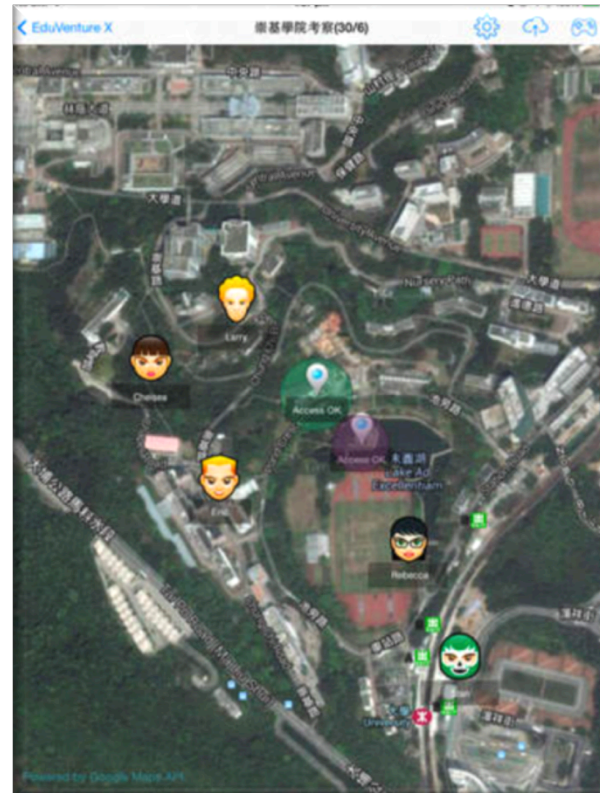
<http://ev-cuhk.net/>

CUHK EduVenture System

The Centre for Learning Sciences and Technologies (CLST), The Chinese University of Hong Kong (CUHK) launched the **EduVenture®** learning system, which has been well received by students and teachers. CLST has recently developed **EduVenture® VR (Virtual Reality)**, a sub-system of EduVenture®.

[忘記密碼](#)[首頁](#)[開發團隊](#)[系統學與教 ▾](#)[EduVenture 網誌](#)[聯絡資料](#)

CUHK EduVenture System



CUHK EduVenture System

EduVenture® Composer



Teacher

EduVenture® eXplorer



下載 iPad 版

下載 iPhone 版

Student

EduVenture® Retriever



需要登入才能使用這功能

**Student
+
Teacher**

CUHK EduVenture System

iPad



iPhone



CUHK EduVenture System

No SIM

3:08 pm

100%

EduVenture X

Materials in this device

All Materials(Internet)

From everyone


From my school

Created date

Updated date

Views

Local




崇基學院考察(30/6)

EduVenture 共享社群

Eric Luk Views:42

Local




香港的圍村文化

EduVenture 共享社群

Eric Luk Views:14

Local




香港百年古蹟探索之旅

EduVenture 共享社群

Jack Ng Views:86


Local



台南井仔腳瓦盤鹽田

EduVenture 共享社群


Jack Ng Views:42



台南七股鹽田

EduVenture 共享社群


Jack Ng Views:47



粉嶺一日遊

屯門天主教中學

TMCSS Teac... Views:6




南生圍的資訊設計(I...

金巴崙長老會耀道中學

Views:10

Local



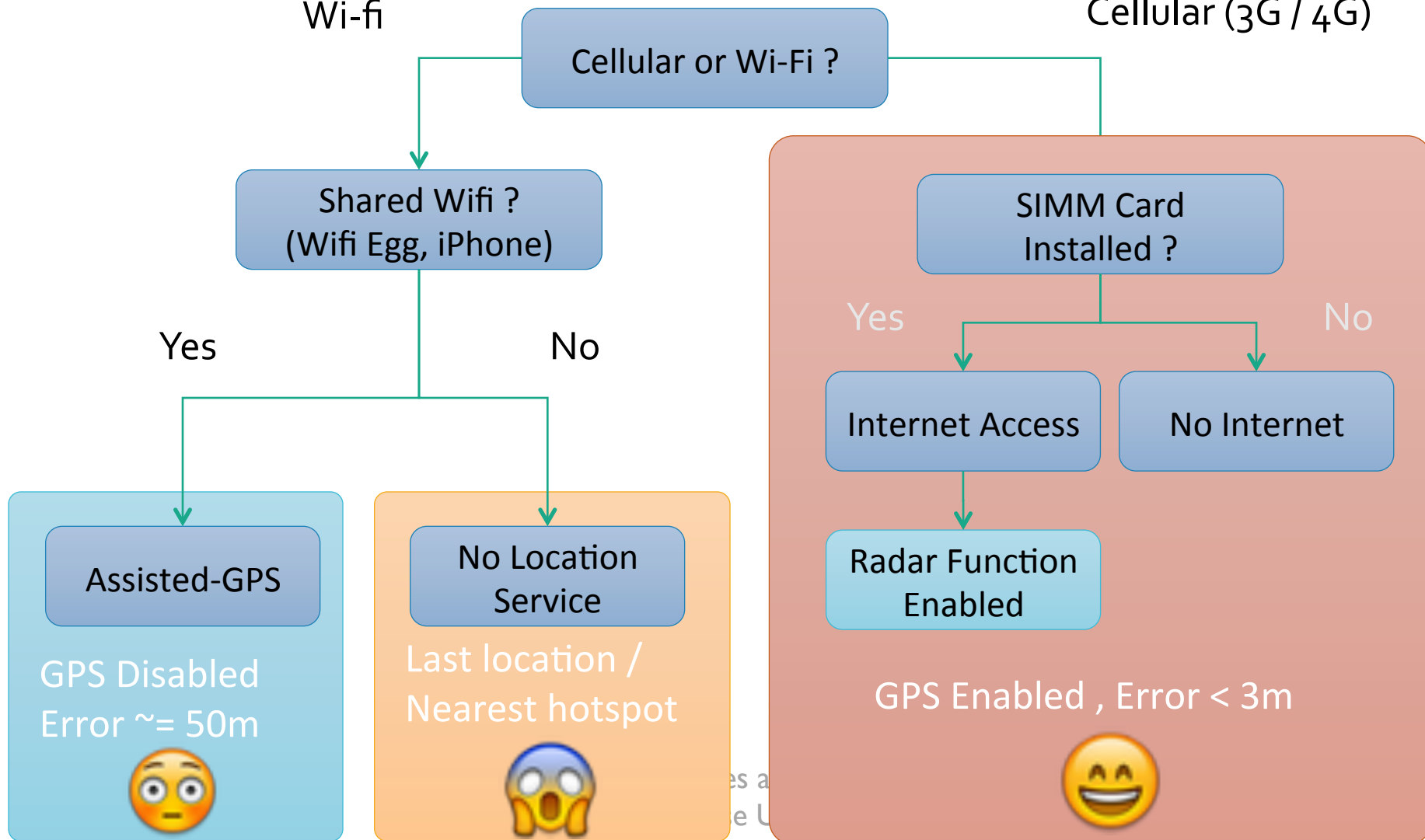
藍地 – 鄉村遇上城市

屯門天主教中學

TMCSS Teac... Views:77

CUHK EduVenture System

Wi-fi Cellular (3G / 4G)



CUHK EduVenture System

Composer

- Create locales
- Define maps
- Create Hotspot
- Create Questions
- Save and view on iOS
- Account management

EduVenture® Composer



Teacher

CUHK EduVenture System

The Portal: <http://ev-cuhk.net>

CUHK 香港中文大學

CAITE 資訊科技教育促進中心

EduVenture®

電郵 密碼 登入

忘記密碼

首頁 開發團隊 系統學與教 聯絡資料

EduVenture® Composer

需要登入才能使用這功能

EduVenture® eXplorer

下載 iPad 版 下載 iPhone 版

EduVenture® Retriever

需要登入才能使用這功能

EduVenture® Composer 是創建戶外學習教材的平台，操作

EduVenture® eXplorer 是一款在iPad或iPhone上運行的應用程式 (App)，在沒有連接互聯網時仍可使用。學生在將指

EduVenture® Retriever 是檢視及管理學生戶外學習成果的

CUHK EduVenture System

Create a New Map

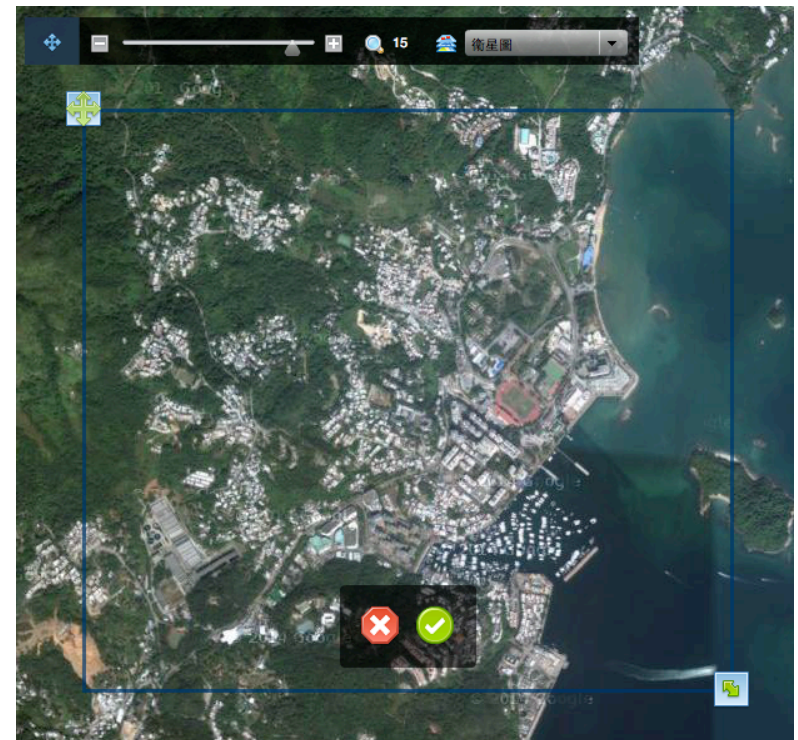
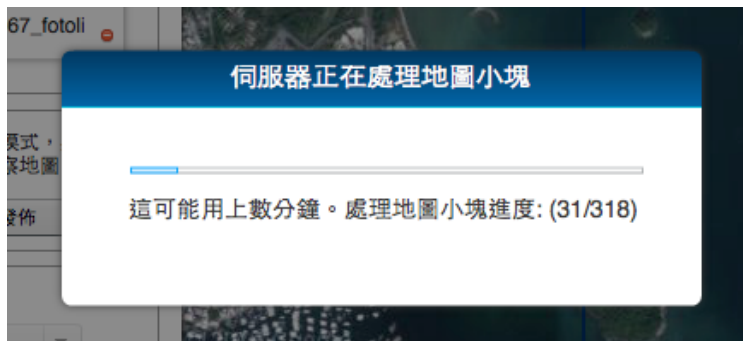
1. The Name
2. A good picture to represent the region
3. KLA + Subject
4. Ready to publish or not
5. Private / Public

The screenshot shows the '創建新考察' (Create New Map) form. It includes fields for '考察名稱' (Map Name) with the value '西貢話當年', '考察描述' (Map Description), '考察用語言' (Map Language) set to '繁體中文', '是否共享' (Share) set to '限本校使用', and '代表顏色' (Representative Color) set to blue. There is a section for '考察封面圖片(必須上載)' (Map Cover Image) with an '上傳本機檔案' (Upload Local File) button and a note '圖片: 未有檔案'. Below this, there are icons for '未確定' (Undetermined) and a '轉為不發佈' (Turn off publishing) button. At the bottom, there are dropdowns for '學習領域(KLA)' (Learning Area) and '學科' (Subject), both currently showing '請選擇' (Please select). The form has a red 'X' button and a green checkmark button at the bottom.

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Define the Region

1. Do it within zoom level **15-16**
2. Include **MORE** not LESS
3. Wait for 1-2 minutes



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Create and Put down a Hotspot



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Hotspot Settings

1. A proper name
2. Radius (A tree – Football field)
3. Larger instead of smaller
4. Give it a color

The screenshot shows the '編輯熱點' (Edit Hotspot) interface. It includes a title bar, a name input field with '新熱點' (New Hotspot), a '已定好位置' (Location Set) section with map and compass icons, a '顏色' (Color) selection box, a '半徑' (Radius) slider, a '熱點類別' (Hotspot Category) dropdown set to '正常顯示' (Normal Display), and a '熱點內容' (Hotspot Content) section with up/down arrows and a plus icon. A message box states: '未有任何熱點內容，請按「加」號創建新的內容' (No hotspot content, please click the '+' icon to create new content). A green checkmark button is at the bottom.

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Hotspot Component

1. 12 Types of Component
2. Unlimited
3. Try to keep them < 15
4. Combinations are possible



CUHK EduVenture System

Simple Description(Text + One Picture)

編輯內容



圖文描述

內容名稱

分類 沒分類 ▼

難度 ★☆☆☆☆

描述圖片



圖片: klc02.jpg

文字描述(可用HTML語法)

Sai Kung Town (Chinese: 西貢市) or simply Sai Kung (Chinese: 西貢) is a town on Sai Kung Peninsula, facing the Sai Kung Hoi (Inner Port Shelter),



CUHK EduVenture System

Voice Over

編輯內容

 聲音導航
內容名稱

分類
難度     

聲音描述

選擇加入聲音方式
 
聲音: 未有檔案

文字描述(可用HTML語法)



CUHK EduVenture System

Photo taking

編輯內容

 拍照題

內容名稱

分類

難度     

拍攝題描述

Please take a photo of the temple






CUHK EduVenture System

School LOCALE Management Explained


	LOCALE NOT Published	LOCALE Published	LOCALE NOT Shared (Private) + Published	LOCALE Shared (Public) + Published
Composer (Teacher Account of the Same School)	Yes	Yes	Yes	Yes
iPad of my school (with school key entered)	No	Yes	Yes	Yes
iPad of other schools	No	depends on share setting	No	Yes

介紹 GIS 及資訊科技相關資源

ArcGIS (indoor)

 esri

[ArcGIS](#) [Industries](#) [About](#) [Support](#)



[Sign In](#)

About ArcGIS

Overview

What's New

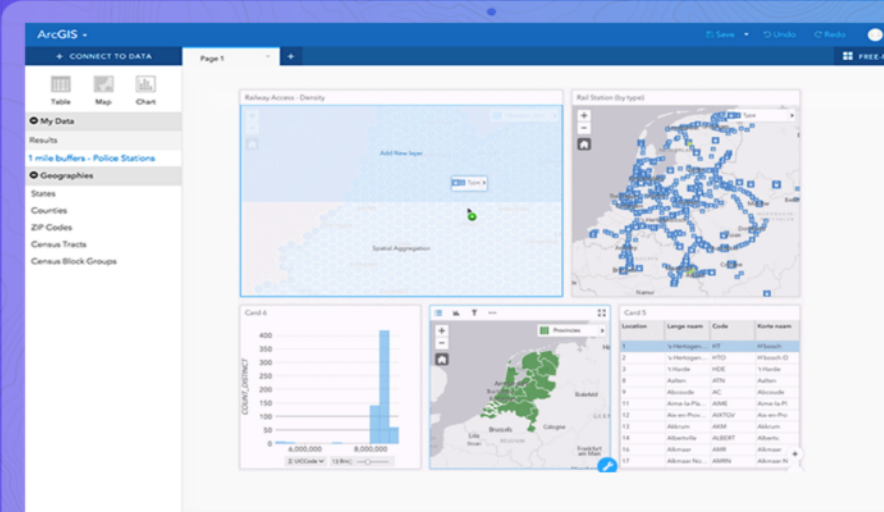
Trial

Work Smarter With ArcGIS

The Mapping & Analytics Platform

ArcGIS provides contextual tools for mapping and spatial reasoning so you can explore data and share location-based insights.

ArcGIS creates deeper understanding, allowing you to quickly see where things are happening and how information is connected.



The screenshot displays the ArcGIS web application interface. On the left, a sidebar shows a 'CONNECT TO DATA' section with options for Table, Map, and Chart. Below this, a 'My Data' section lists various data sources like '1 mile buffers - Police Stations', 'Geographies', 'States', 'Counties', 'ZIP Codes', 'Census Tracts', and 'Census Block Groups'. The main area features four panels: 'Railway Access - Density' (a map of the UK with a density overlay), 'Rail Station (By type)' (a map of the UK with station locations), 'Card 4' (a bar chart showing 'COUNT' vs 'COUNT' with a scale from 0 to 400), and 'Card 5' (a table with columns 'Location', 'Larger name', 'Code', and 'Route name'). The table lists various locations and their corresponding codes and route names.

Location	Larger name	Code	Route name
1	Y-Harrogate	HTD	HTD
2	Y-Harrogate	HTD	HTD
3	Y-Harrogate	HTD	HTD
4	Y-Harrogate	HTD	HTD
5	Y-Harrogate	HTD	HTD
6	Y-Harrogate	HTD	HTD
7	Y-Harrogate	HTD	HTD
8	Y-Harrogate	HTD	HTD
9	Y-Harrogate	HTD	HTD
10	Y-Harrogate	HTD	HTD
11	Y-Harrogate	HTD	HTD
12	Y-Harrogate	HTD	HTD
13	Y-Harrogate	HTD	HTD
14	Y-Harrogate	HTD	HTD
15	Y-Harrogate	HTD	HTD
16	Y-Harrogate	HTD	HTD
17	Y-Harrogate	HTD	HTD

<http://www.esri.com/arcgis/about-arcgis>

介紹 GIS 及資訊科技相關資源

ArcGIS (indoor)

- Map overlay
- Geostatistics, demonstration examples:
 - traffic patterns in an urban environment
 - weather patterns over the Pacific Ocean
 - finding Pattern for Investigation
- Adding the dimension of time
- Discussion on how to use Geostatistics and Map overlay to construct IBL questions for students

TASK 1: Map Overlay

[首頁](#) [圖庫](#) [繪圖](#) [場景](#) [群組](#)



登入

登入到 Map in Learning (MiL)
Program by Esri China (HK)

esri

使用者名稱

密碼

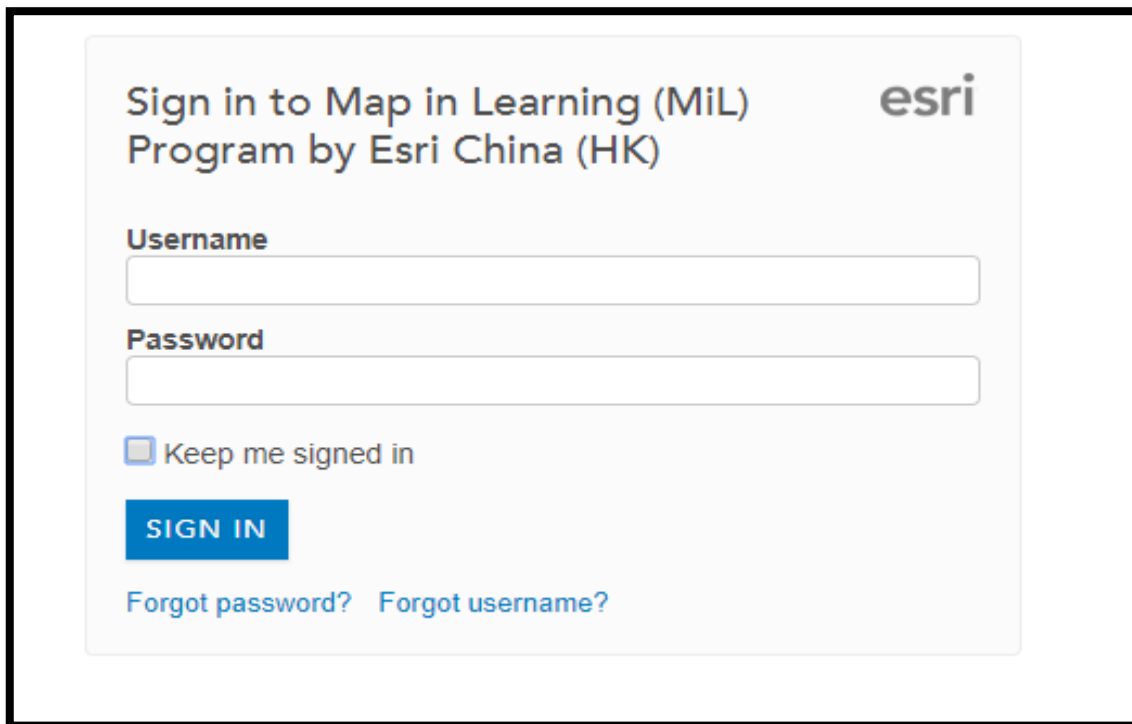
☐ 保留我的登入狀態

登入

[忘記密碼?](#) [忘記使用者名稱?](#)

Step 1: Login to ArcGIS Online

- Go to esrihknil.maps.arcgis.com
- Enter Username and Password
- Click **SIGN IN**



Sign in to Map in Learning (MiL)
Program by Esri China (HK)

esri

Username

Password

☐ Keep me signed in

SIGN IN

[Forgot password?](#) [Forgot username?](#)



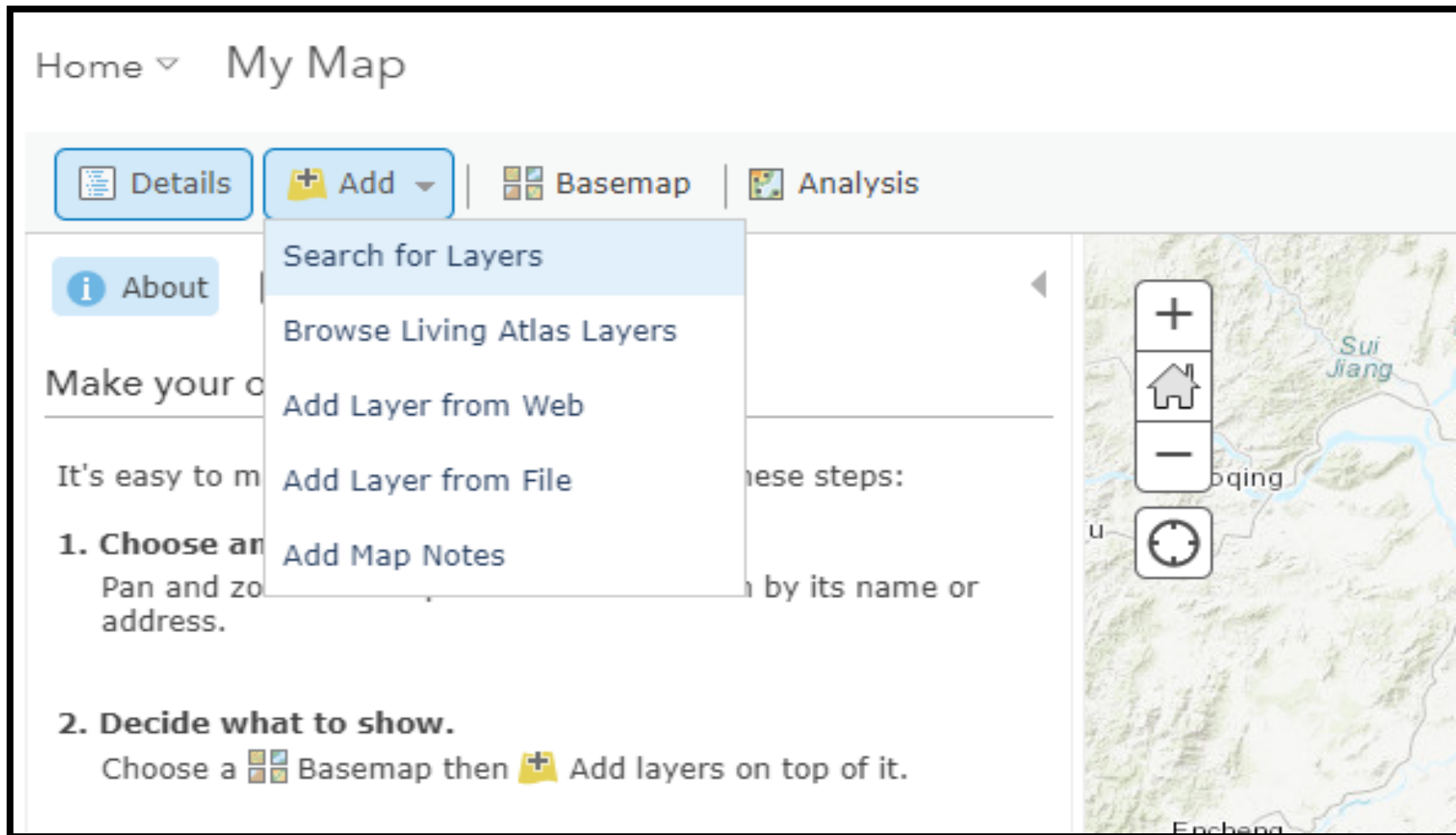
Step 2: Launch Map Viewer

- Click **Map** on the top banner



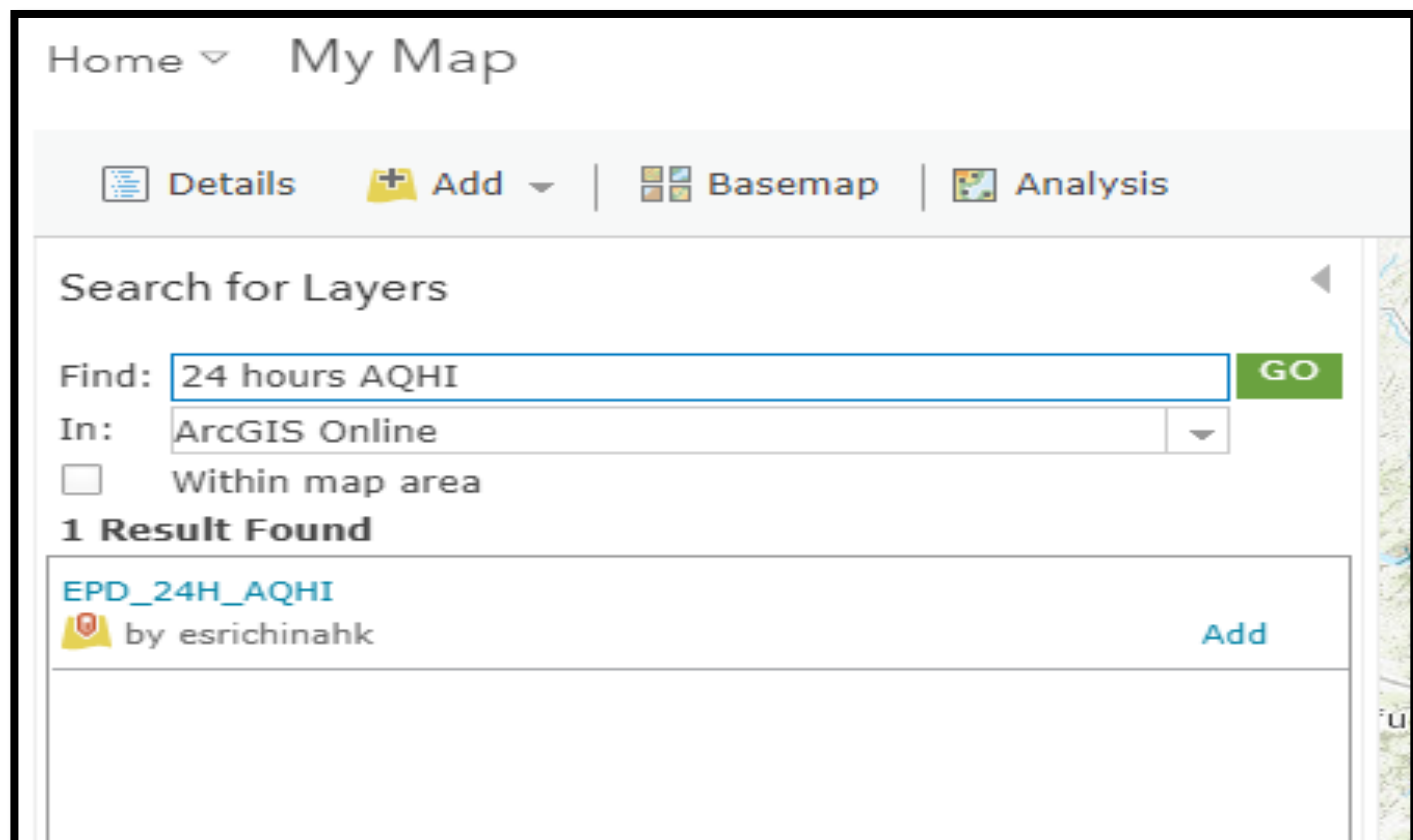
Step 3: Search for Data

- Click Add -> Search for Layers







Step 3: Search for Data


- Type in following keywords
 - 24 hours AQHI
- Select ArcGIS Online in second dropdown
- Click Go
- Click Add



Home ▾ My Map

 Details  Add ▾ |  Basemap |  Analysis


Search for Layers

Find: 

In: ▾

☐ Within map area

1 Result Found

EPD_24H_AQHI  by esrichinahk	Add
---------------------------------------------------------------------------------------------------------------------------	---------------------

Step 3: Search for Data

- Repeat previous steps with following keyword
 - **Hong Kong 18 Districts**
- Select the first item
- Click **Done Adding Layers** to complete



Step 4: Save the map

- Click Save on the upper of map



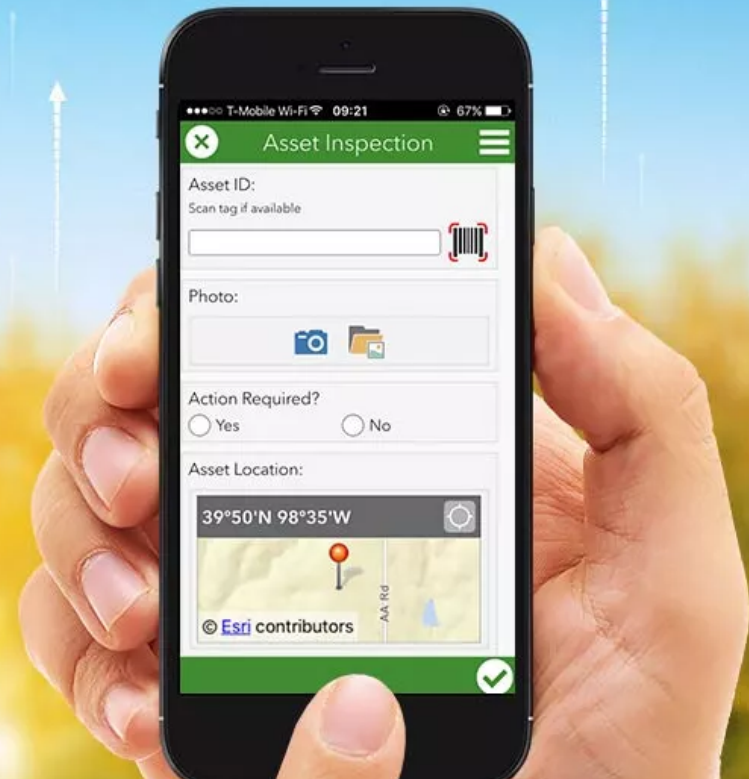
TASK 2: Get Started with Survey123 for ArcGIS Guideline

Survey123 for ArcGIS ▾ Help

Sign In

Survey123 for ArcGIS

Smarter Forms, Smarter Field Work



Get Started with Survey123 for ArcGIS Guideline

Task :

微氣候：環境與溫度的關係 with Survey123 for ArcGIS

Objective

- To better understand 環境與溫度的關係
- Collect essential information in the field with Survey123 for ArcGIS
- Basic **data analysis** with your data

微氣候：環境與溫度的關係 with Survey123 for ArcGIS

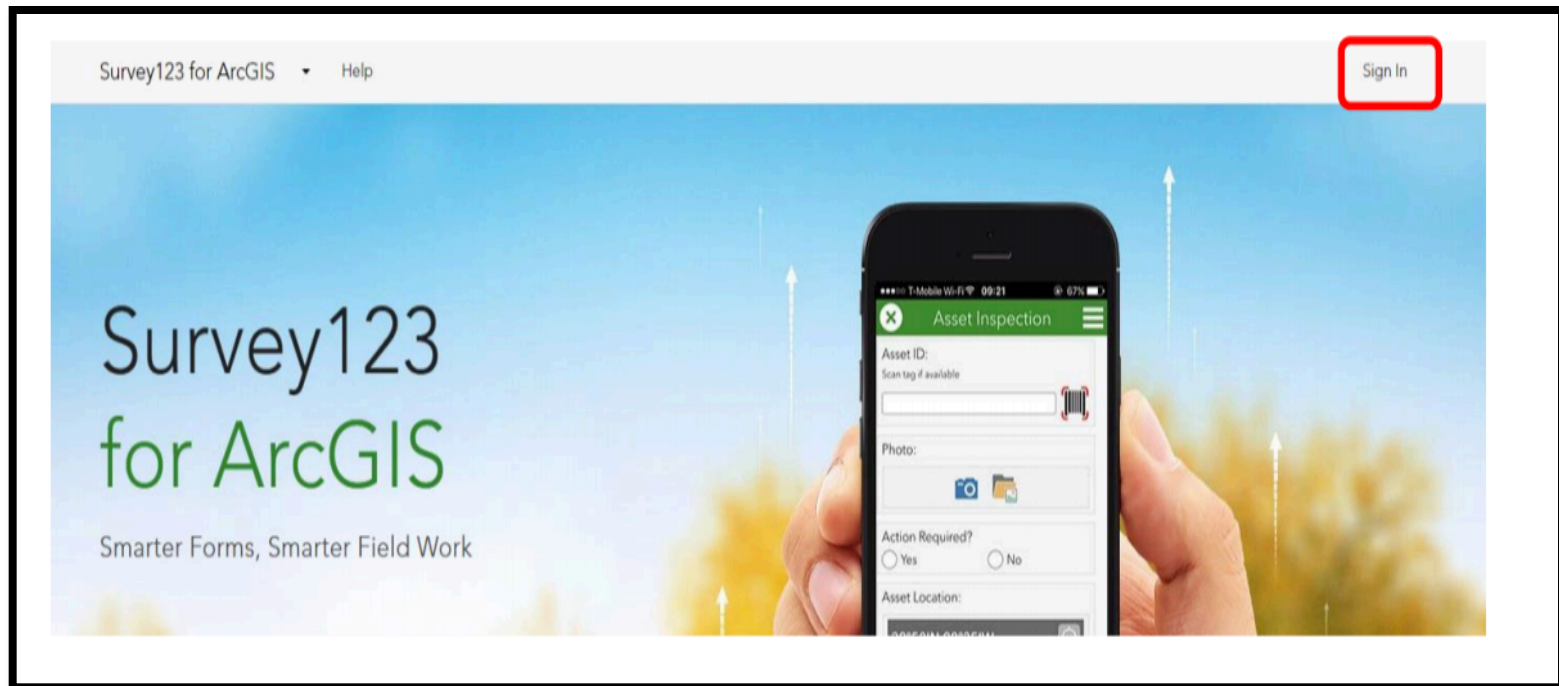


- <https://survey123.arcgis.com/share/2efb5017b1344586b30b9d925181202e>

Get Started with Survey123 for ArcGIS Guideline

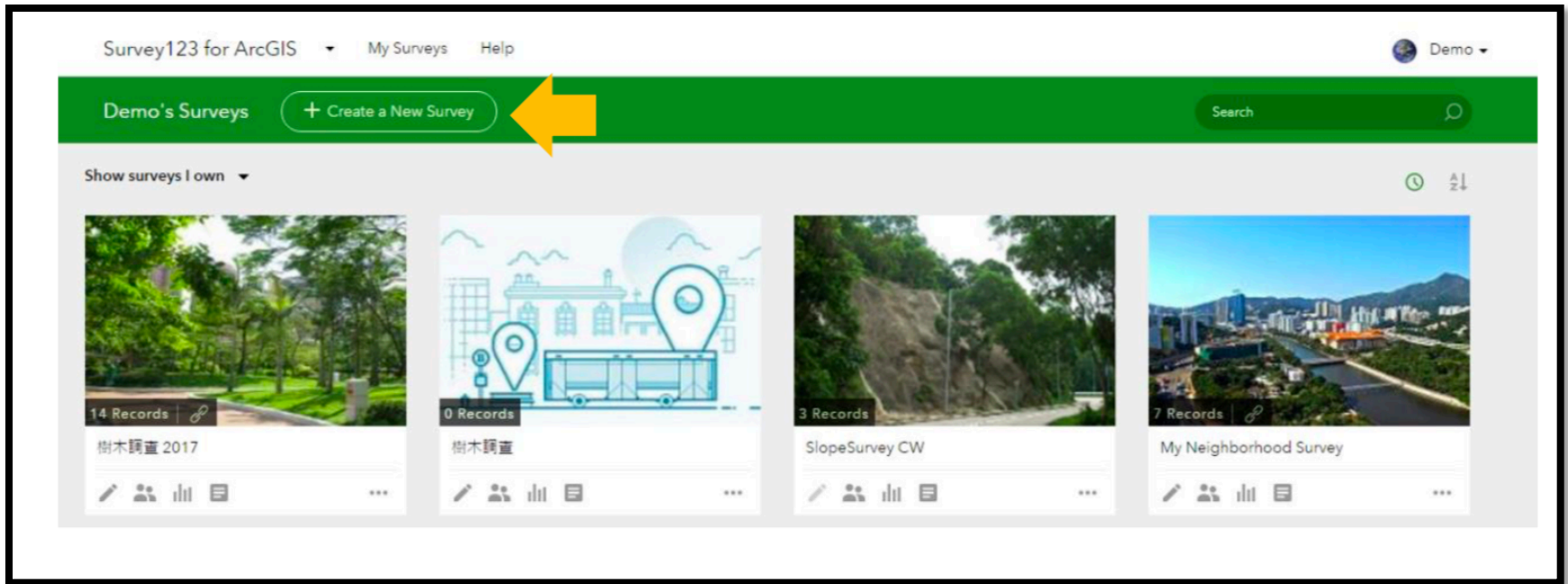
Preparing Your Survey

1. Browse to <http://survey123.arcgis.com> , and sign in with your ArcGIS organizational account.



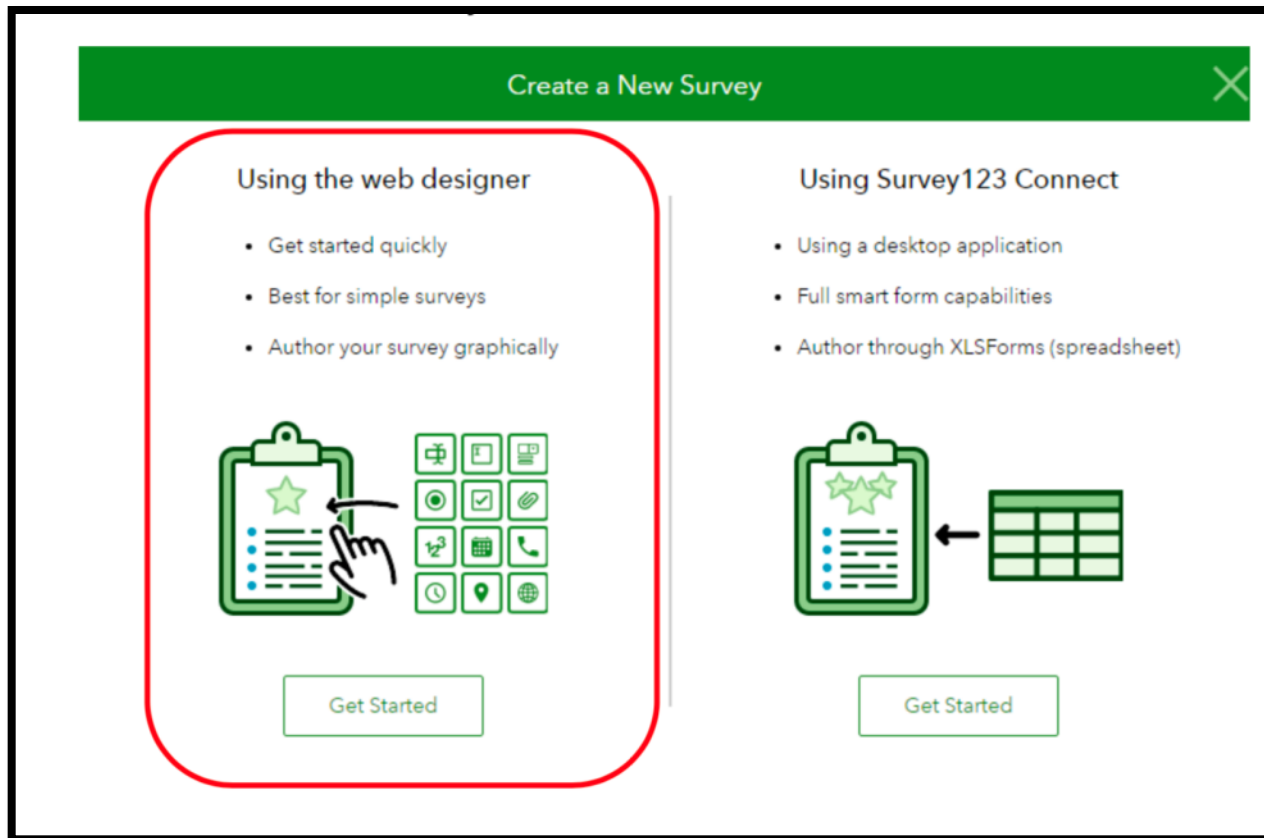
Get Started with Survey123 for ArcGIS Guideline

2. Click Create New Survey



Get Started with Survey123 for ArcGIS Guideline

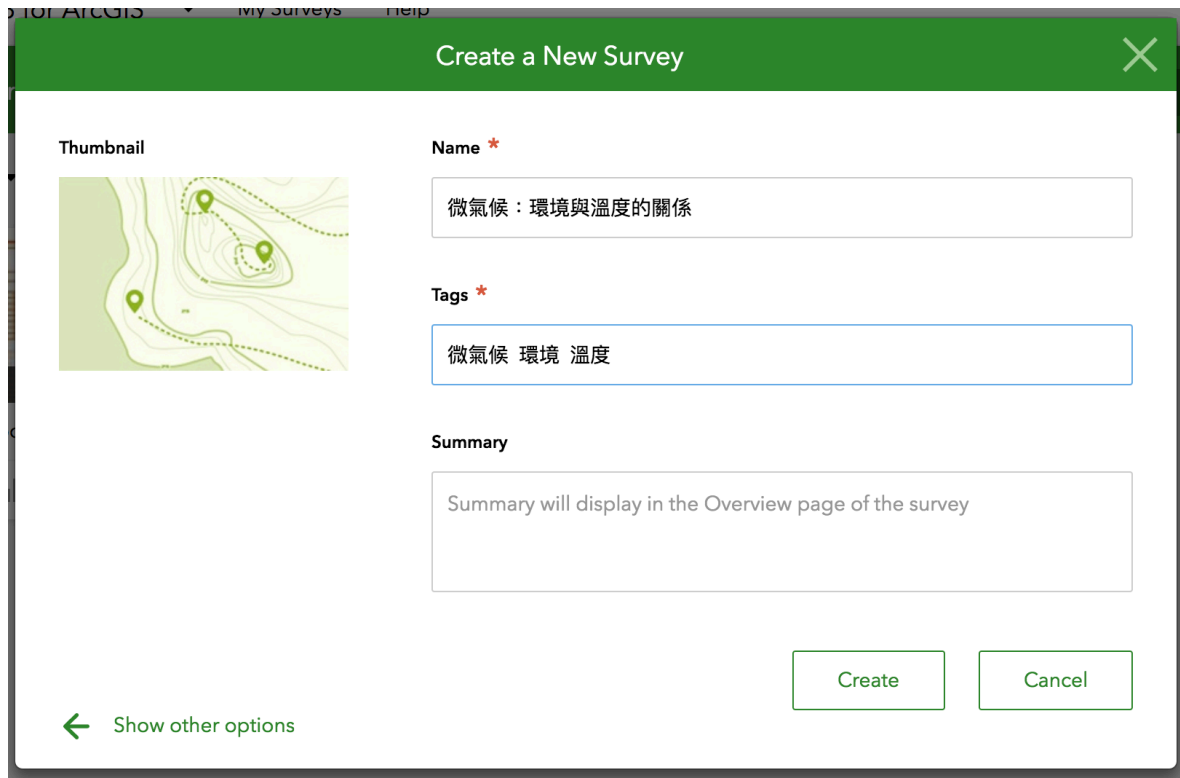
3. Click From Survey123 Web



Get Started with Survey123 for ArcGIS Guideline

4. Create a **form** and **name** 微氣候：環境與溫度的關係, enter **tags** CLST (a minimum of one tag is required) and a **description**.

You can also upload a picture as a **Thumbnail** of your survey by clicking the photo on the left. Once finish, click **Create**.



Create a New Survey

Thumbnail

Name *

微氣候：環境與溫度的關係

Tags *

微氣候 環境 溫度

Summary

Summary will display in the Overview page of the survey

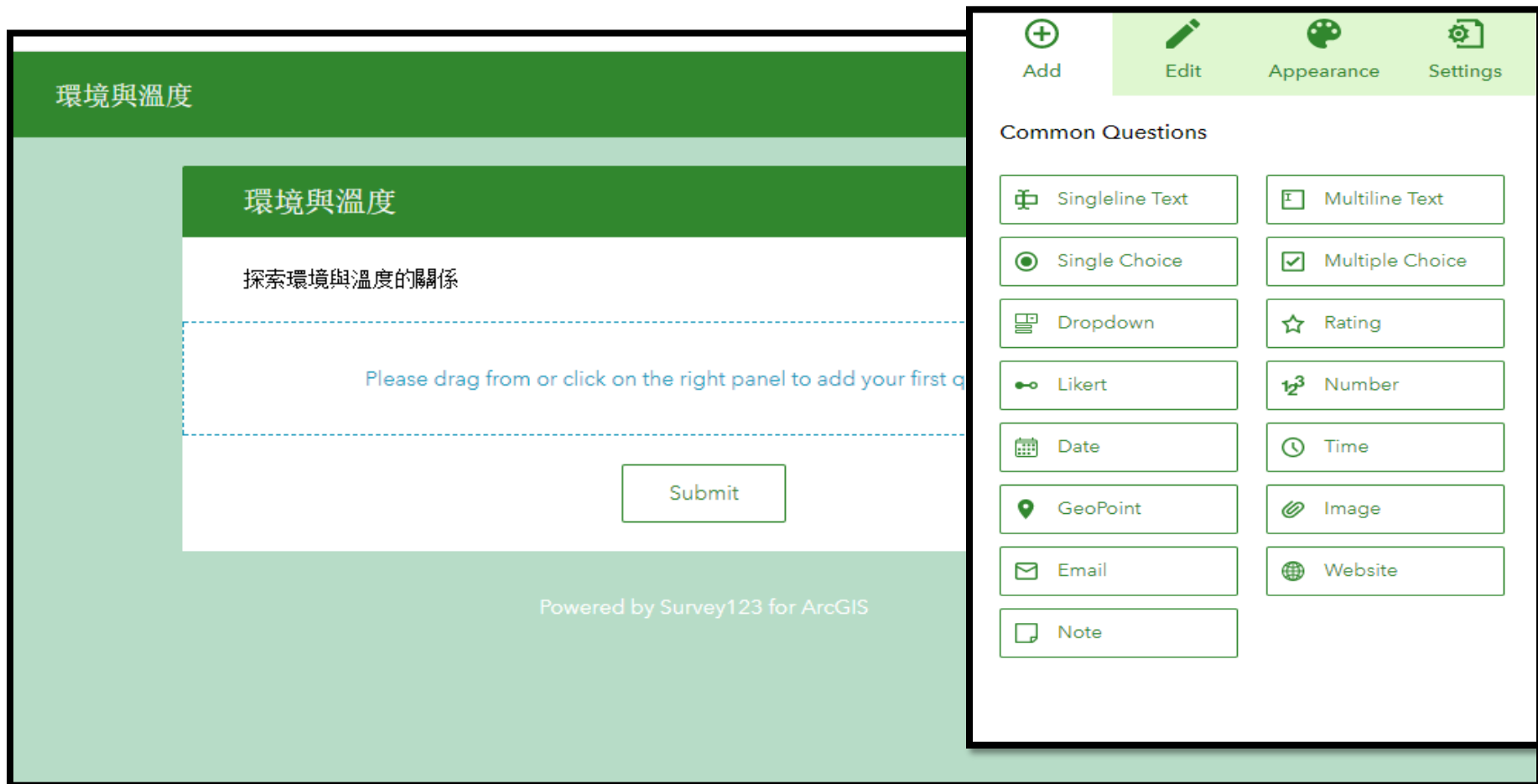
Create Cancel

← Show other options



Get Started with Survey123 for ArcGIS Guideline

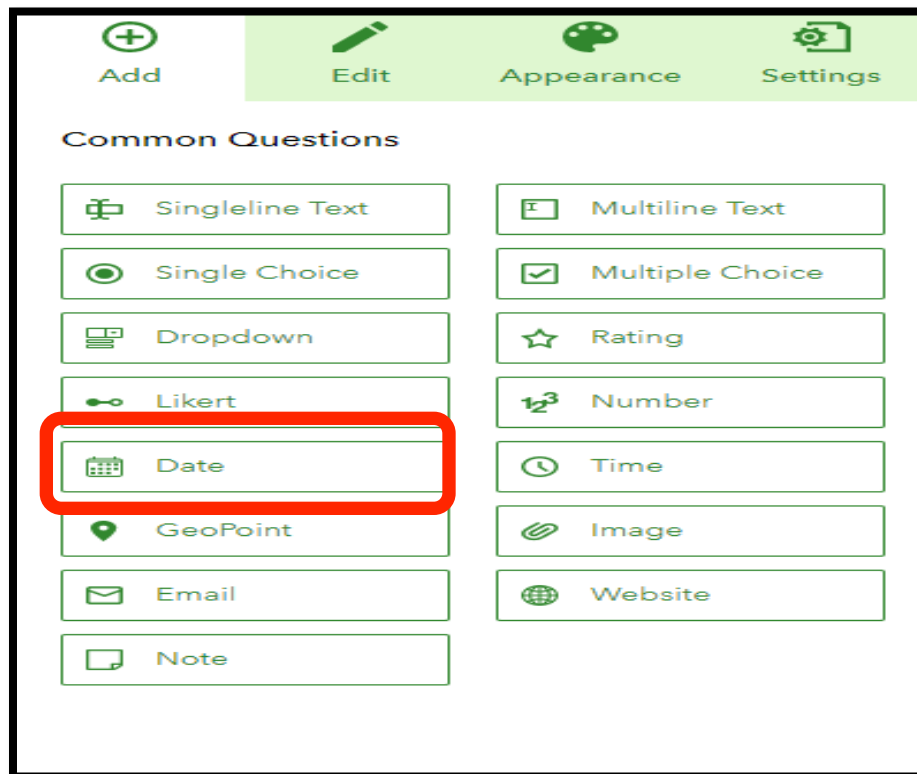
5. The Survey123 website displays an empty survey, with list of available **questions type** on the right.

The screenshot displays the Survey123 web interface. On the left, a survey form titled "環境與溫度" (Environment and Temperature) is shown. The form has a header with the title, a subtitle "探索環境與溫度的關係" (Explore the relationship between environment and temperature), a large dashed box for the survey content, and a "Submit" button at the bottom. A footer note says "Powered by Survey123 for ArcGIS". On the right, a panel titled "Common Questions" lists various question types in a grid. The panel has a green header with icons for "Add", "Edit", "Appearance", and "Settings". The question types listed are: Singleline Text, Multiline Text, Single Choice, Multiple Choice, Dropdown, Rating, Likert, Number, Date, Time, GeoPoint, Image, Email, and Website. Each type is represented by a small icon and a text label.

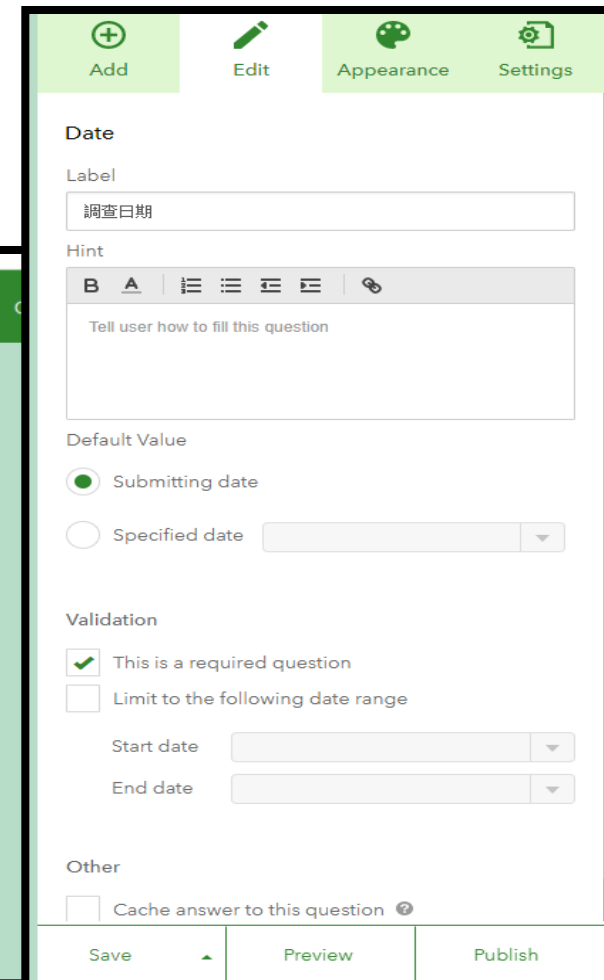
Suggested Questions to Be Surveyed

Question 1: Date of Survey

- For the first question, you want to know the **date** of data collection. Click the Date button from the question list and drag it to the form.



- Click the newly placed question to open the **Edit panel**, where you can enter a **suitable label** for the collection date.
- Now enter the following information:
 - Label: 考察日期
 - Default Value: Select Submitting date
 - Validation: Select “This is a required question”



Question 2: Short Answer (Name)

The student can enter the 天氣情況.

- Click the Add button on the right panel and **select Singleline Text**.
- Similar with the steps above in Question 1, click on the question box to **edit the information** of the question.

度

環境與溫度

探索環境與溫度的關係

調查日期 *

10/26/17 ▼

天氣情況 *

Data

Add Edit Appearance Settings

Singleline Text

Label

天氣情況

Hint

B A [List Icons]

Tell user how to fill this question

Default Value

Predefined answer for this question

Validation

☒ This is a required question

☐ Set Min./Max. characters count

Min. [Text Box]

Max. [Text Box]

Other

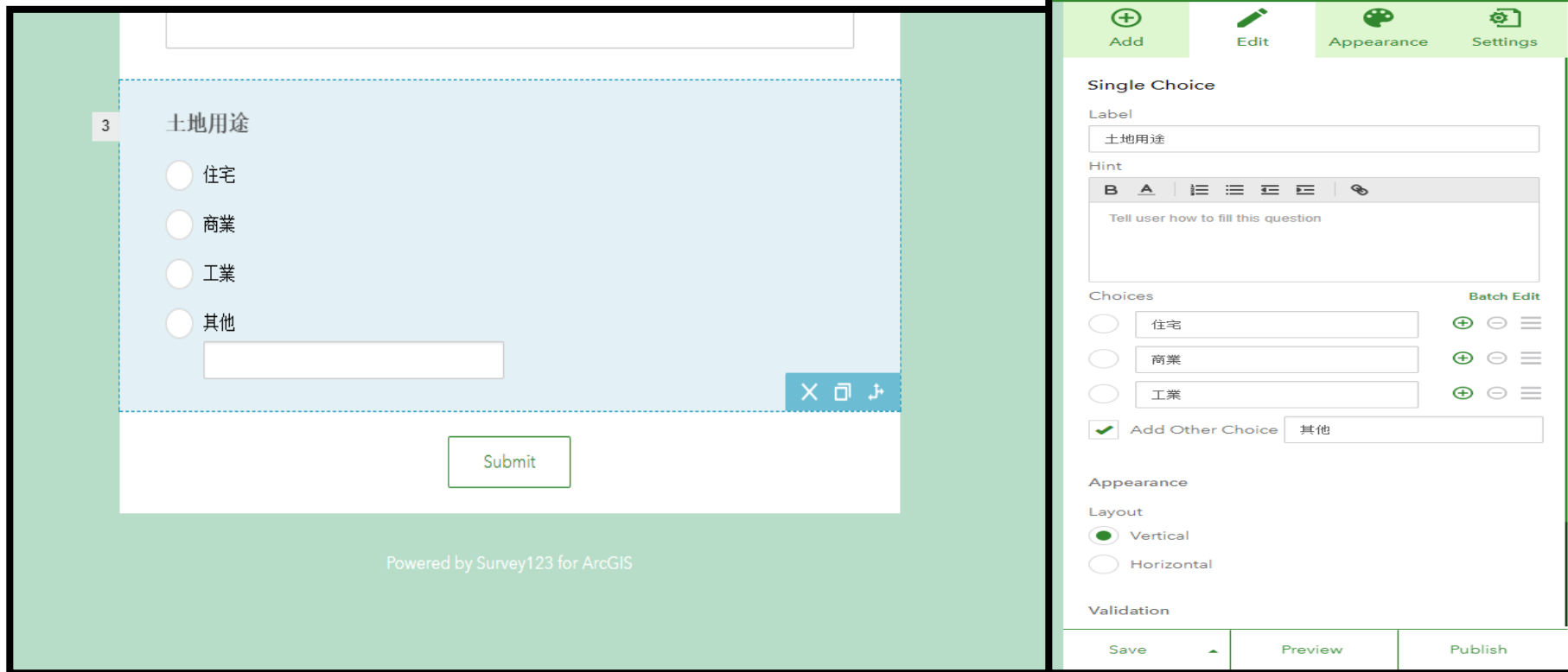
☐ Cache answer to this question ?

Saved Preview Publish

Question 3: Multiple Choice (Type of Shop)

The student is able to select the 土地利用.

- Select **Single Choice** from the Add panel.
- Click on the question box to edit the information of the question and add the **choices** that fit for your study area.'
- 住宅 商業 工業 其他



3 土地利用

☐ 住宅

☐ 商業

☐ 工業

☐ 其他

Submit

Powered by Survey123 for ArcGIS

Single Choice

Label
土地利用

Hint
Tell user how to fill this question

Choices

		Batch Edit
<input type="radio"/>	住宅	<input type="button" value="+"/> <input type="button" value="-"/> <input type="button" value="≡"/>
<input type="radio"/>	商業	<input type="button" value="+"/> <input type="button" value="-"/> <input type="button" value="≡"/>
<input type="radio"/>	工業	<input type="button" value="+"/> <input type="button" value="-"/> <input type="button" value="≡"/>

☒ Add Other Choice 其他

Appearance

Layout

☒ Vertical

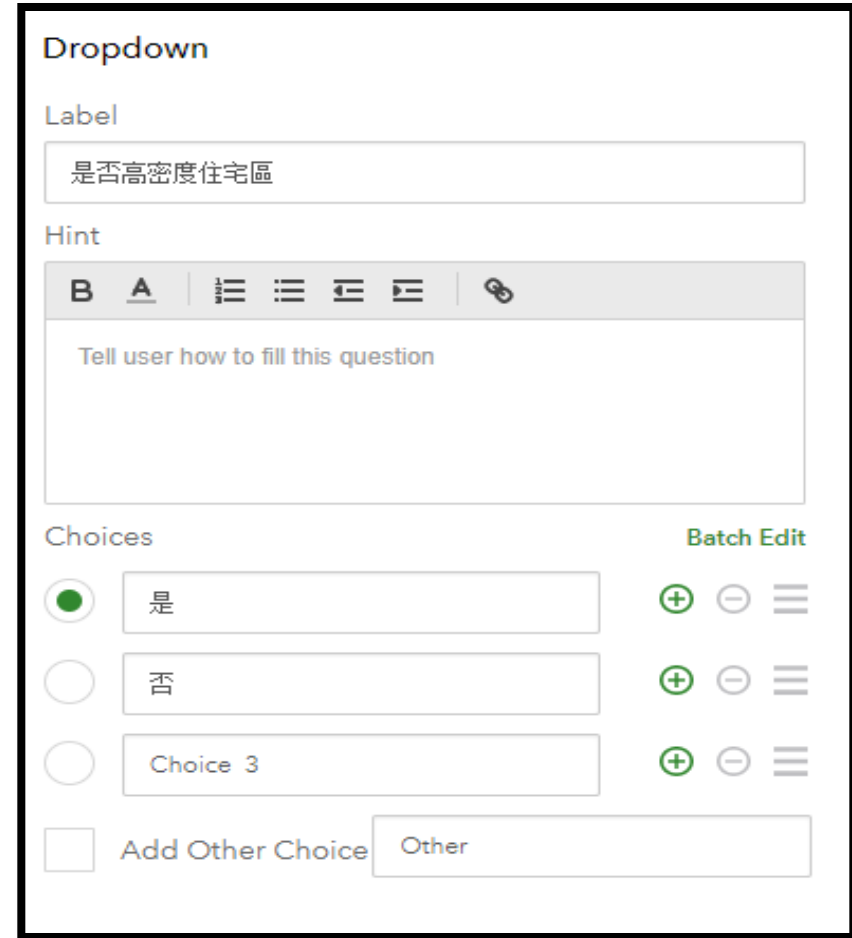
☐ Horizontal

Validation

Save Preview Publish

Question 4: Drop Down Menu

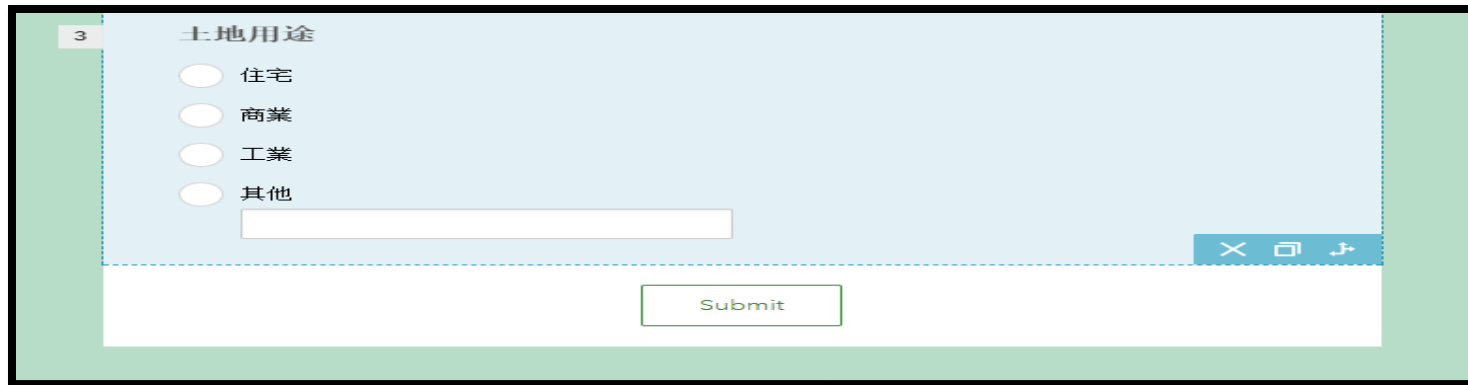
- 是否高密度住宅區？
- Now, select **Dropdown** from the Add panel.
- If you want to set the **default answer** to your question, click the green button next to your answer box (Pointed with the Red arrow)
- If you wish to add / remove **additional option**, click the “+” or “-” for each row.



The screenshot shows the 'Dropdown' configuration panel in Esri Survey123. It includes a 'Label' field with the text '是否高密度住宅區', a 'Hint' field with the text 'Tell user how to fill this question', and a 'Choices' section. The 'Choices' section has a 'Batch Edit' link and three rows of choices: '是' (selected with a green radio button), '否', and 'Choice 3'. Each choice has a green '+' button, a grey '-' button, and a grey menu icon. At the bottom, there is an 'Add Other Choice' checkbox and an 'Other' text input field.

Question 4A : if ... then ...


- In Survey123 for ArcGIS, it **supports responsive question** based on your answer.
- Then, click the question box for Question 4 and click the **Set Rule** button on the lower right corner of the box.





Then the **Set Rule** pop-up will appear. Now under the **IF** dropdown, select “住宅”. Then in the SHOW dropdown, select “是否高密度住宅區”.




Question 5: GeoPoint


Add


Edit


Appearance


Settings

GeoPoint


Label


考察地點


Hint


B


A











Tell user how to fill this question

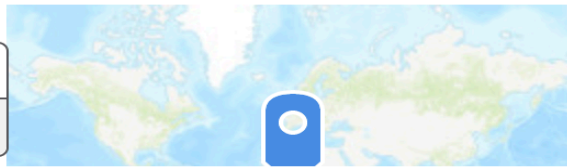
Default Map

Topographic

Home Location

+

-



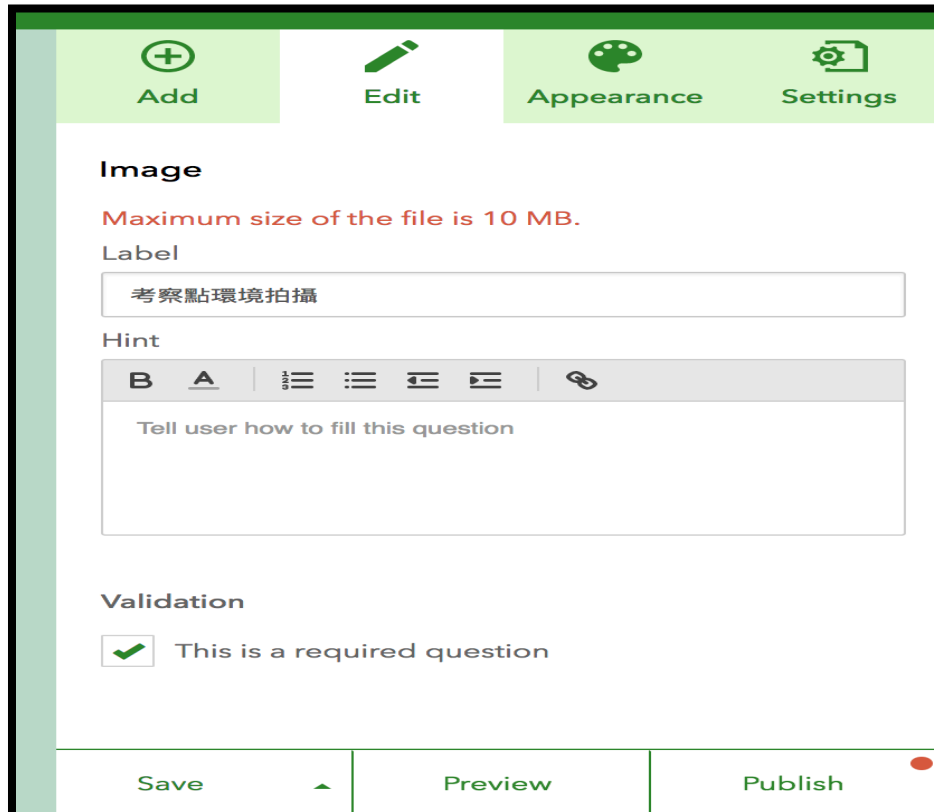
Save

Preview

Publish

Question 6: Photo Answer

- You can provide an option for the student to **upload a photo** that less than 10MB for a survey record. Click Image from the
- Add panel and fill in the information about the question.

A screenshot of the Esri Survey123 interface for configuring a question. The top navigation bar has four tabs: "Add" (selected), "Edit", "Appearance", and "Settings". The main content area is titled "Image" and includes a red warning message: "Maximum size of the file is 10 MB." Below this, there are fields for "Label" (containing the Chinese text "考察點環境拍攝") and "Hint" (containing the text "Tell user how to fill this question" with a rich text editor toolbar above it). A "Validation" section at the bottom has a checked checkbox and the text "This is a required question". At the very bottom, there are three buttons: "Save", "Preview", and "Publish".

Image

Maximum size of the file is 10 MB.

Label

考察點環境拍攝

Hint

Tell user how to fill this question

Validation

☒ This is a required question

Save Preview Publish



Question 7: Long Answer (有關該區微氣候的特徵)

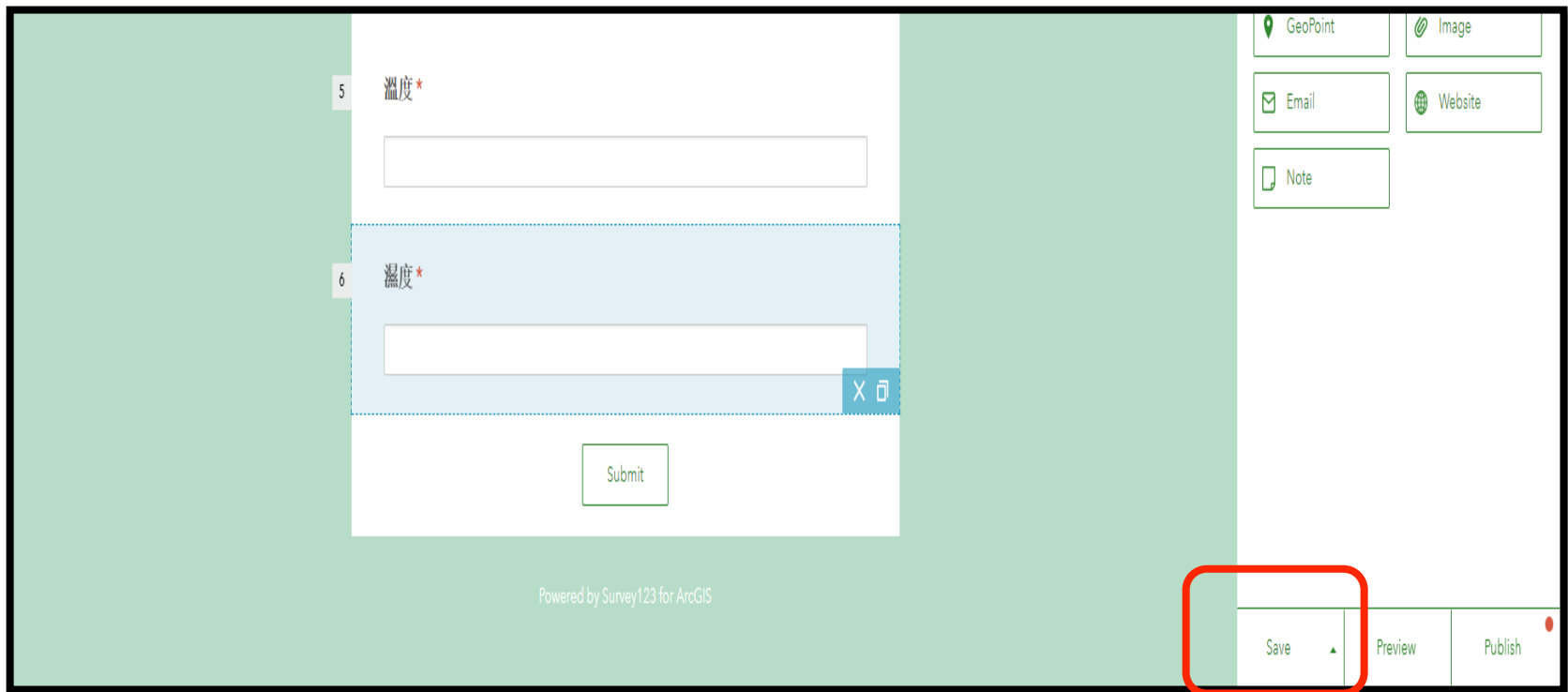
- In the last question, you can ask the students to write a few key points or sentences about 該區微氣候的特徵
- Please select **Multiline Text** and insert it into the survey.
- Optional item: you can set the **minimum and maximum** characters count in the edit panel on the right.



The screenshot shows the 'Multiline Text' question configuration panel. At the top, there are four tabs: 'Add' (with a plus icon), 'Edit' (with a pencil icon), 'Appearance' (with a palette icon), and 'Settings' (with a gear icon). The 'Edit' tab is active. Below the tabs, the question title 'Multiline Text' is displayed. The 'Label' field contains the text '有關該區微氣候的特徵'. The 'Hint' field contains the text 'Tell user how to fill this question'. The 'Default Value' field contains the text 'Predefined answer for this question'. The 'Validation' section has a checked checkbox and the text 'This is a required question'. At the bottom, there are three buttons: 'Save', 'Preview', and 'Publish'.

Save the Project : Survey123 for ArcGIS Guideline

Save your project by clicking the **SAVE** button on lower right.

A screenshot of the Survey123 for ArcGIS web interface. The main area is a light green map. Overlaid on the map is a survey form with two questions, both labeled "溫度*" (Temperature*). Question 5 has a text input field. Question 6 has a text input field and a blue "X" icon to its right. Below the questions is a green "Submit" button. On the right side of the map, there is a panel with several buttons: "GeoPoint", "Image", "Email", "Website", and "Note". At the bottom right of the map, there is a red rectangular box highlighting the "Save" button, which is next to "Preview" and "Publish" buttons. The text "Powered by Survey123 for ArcGIS" is visible at the bottom center of the map area.

Save the Project : Survey123 for ArcGIS Guideline

- You can preview the whole survey by clicking the **Preview** button.
- By clicking the button on the right, you can preview your survey in a desktop **computer, a smartphone or tablet**.
- Click “X” to close the Preview window.
- if you are satisfy with the question and layout, you can click **Publish** to send it to ArcGIS Online.



Share the Project : Survey123 for ArcGIS Guideline

- Share to Group
- Share via web link

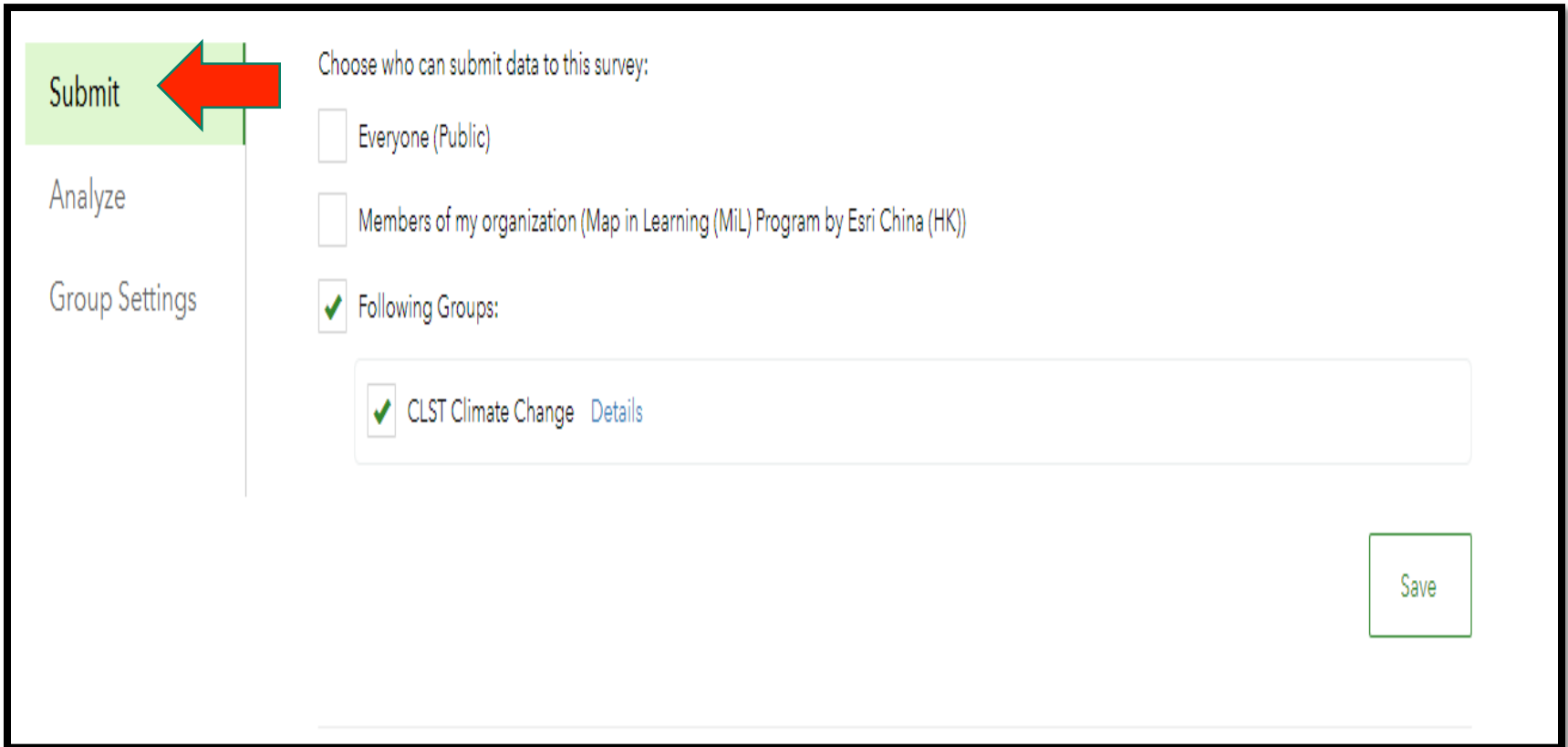
Share the Project : Survey123 for ArcGIS Guideline

Share to Group

In cases you wish to assign students into different groups, for doing group project or class management, you can use the **Group function** in ArcGIS Online to share specific content to a group of students.

To share the survey to specific group in Survey123 for ArcGIS. First, click the thumbnail of your survey project in **My Surveys** section, and then click **Collaborate** in the upper right banner. “**Submit**” item will be as default to show. Then select Following Groups, and select the Group you want to share in the box below. Click **Save** when finish.

Share the Project : Survey123 for ArcGIS Guideline

A screenshot of the Survey123 web interface for sharing a survey. On the left is a vertical menu with three items: "Submit" (highlighted in green with a red arrow pointing to it), "Analyze", and "Group Settings". The main area is titled "Choose who can submit data to this survey:". It contains three radio button options: "Everyone (Public)", "Members of my organization (Map in Learning (MIL) Program by Esri China (HK))", and "Following Groups:". The "Following Groups:" option is selected, indicated by a green checkmark. Below this, a list of groups is shown in a rounded rectangle, with the first group "CLST Climate Change" selected (green checkmark) and a "Details" link next to it. A "Save" button is located in the bottom right corner of the main area.

Submit

Analyze

Group Settings

Choose who can submit data to this survey:

☐ Everyone (Public)

☐ Members of my organization (Map in Learning (MIL) Program by Esri China (HK))

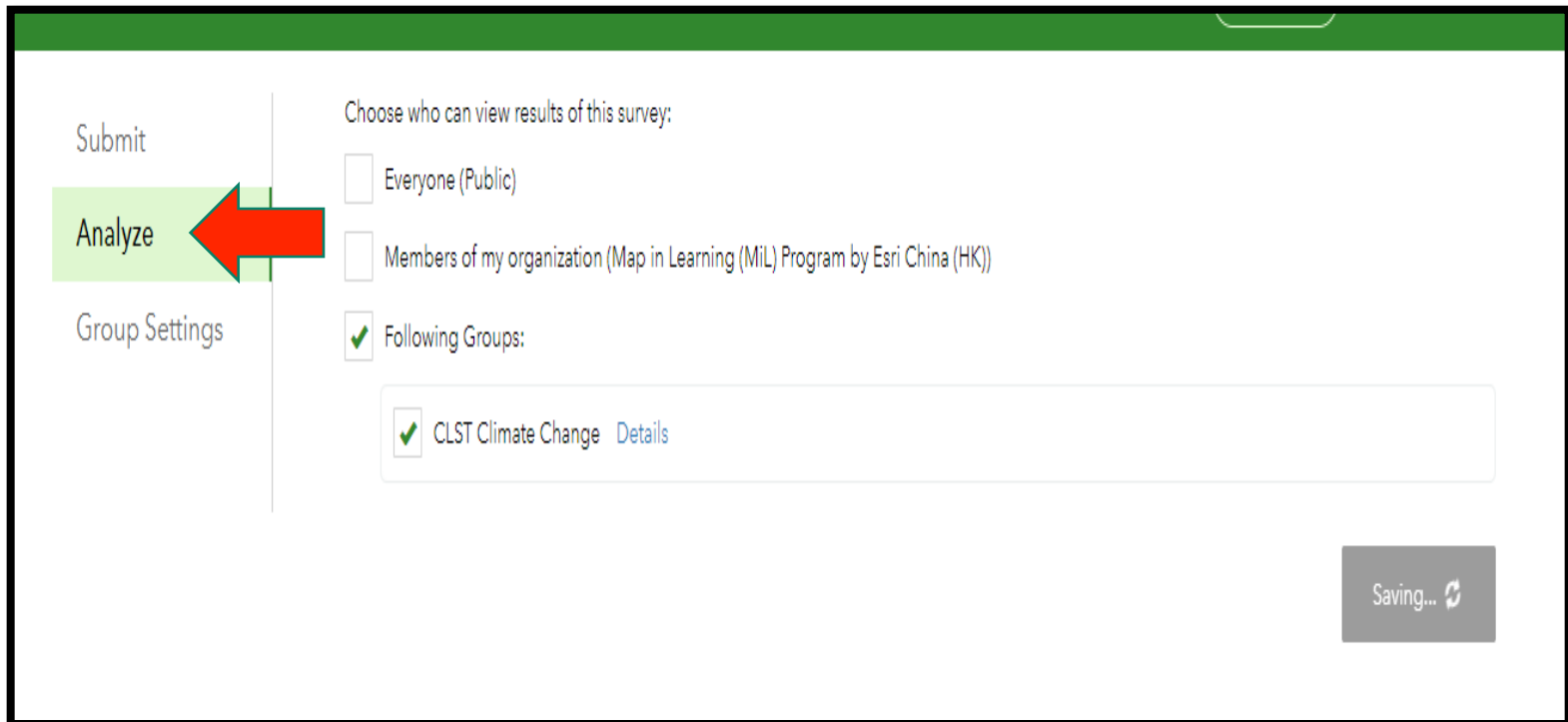
☒ Following Groups:

☒ CLST Climate Change [Details](#)

Save

Share the Project : Survey123 for ArcGIS Guideline

- To open the **analyze function** to specific group in Survey123 for ArcGIS (details will be covered in later part of this manual)
- In **the Collaborate** section, select **Analyze**, then select Following Groups, and select the Group you want to share in the box below. Click Save when finish.

A screenshot of the Survey123 web interface. On the left, there is a vertical menu with three options: "Submit", "Analyze", and "Group Settings". The "Analyze" option is highlighted with a green background, and a large red arrow points to it from the right. To the right of the menu, the text "Choose who can view results of this survey:" is displayed. Below this text are three radio button options: "Everyone (Public)", "Members of my organization (Map in Learning (MIL) Program by Esri China (HK))", and "Following Groups:". The "Following Groups:" option is selected, indicated by a green checkmark. Below this, there is a list of groups. The first group, "CLST Climate Change", is selected with a green checkmark and has a blue "Details" link next to it. At the bottom right of the interface, there is a grey button labeled "Saving..." with a circular arrow icon.

Share the Project : Survey123 for ArcGIS Guideline .

- Share via web link In the lower part of the Collaborate section, you can find the **web link/QR code** for accessing the survey.
- Note: ArcGIS Online account's log-in to the survey is required if your survey **is limited to your school only**.
- The link for each survey is generated dynamically, please do not copy the link from the screen capture below as your share link.

Survey link:

<https://survey123.arcgis.com/share/f609ce1c70f44f6293c1a49635d0967d>



- ☒ Open the survey in browser directly
- ☐ Ask the user how to open the survey, in browser or in the Survey123 field app
- ☐ Open the survey in the Survey123 field app directly. ([Learn more about this option](#))