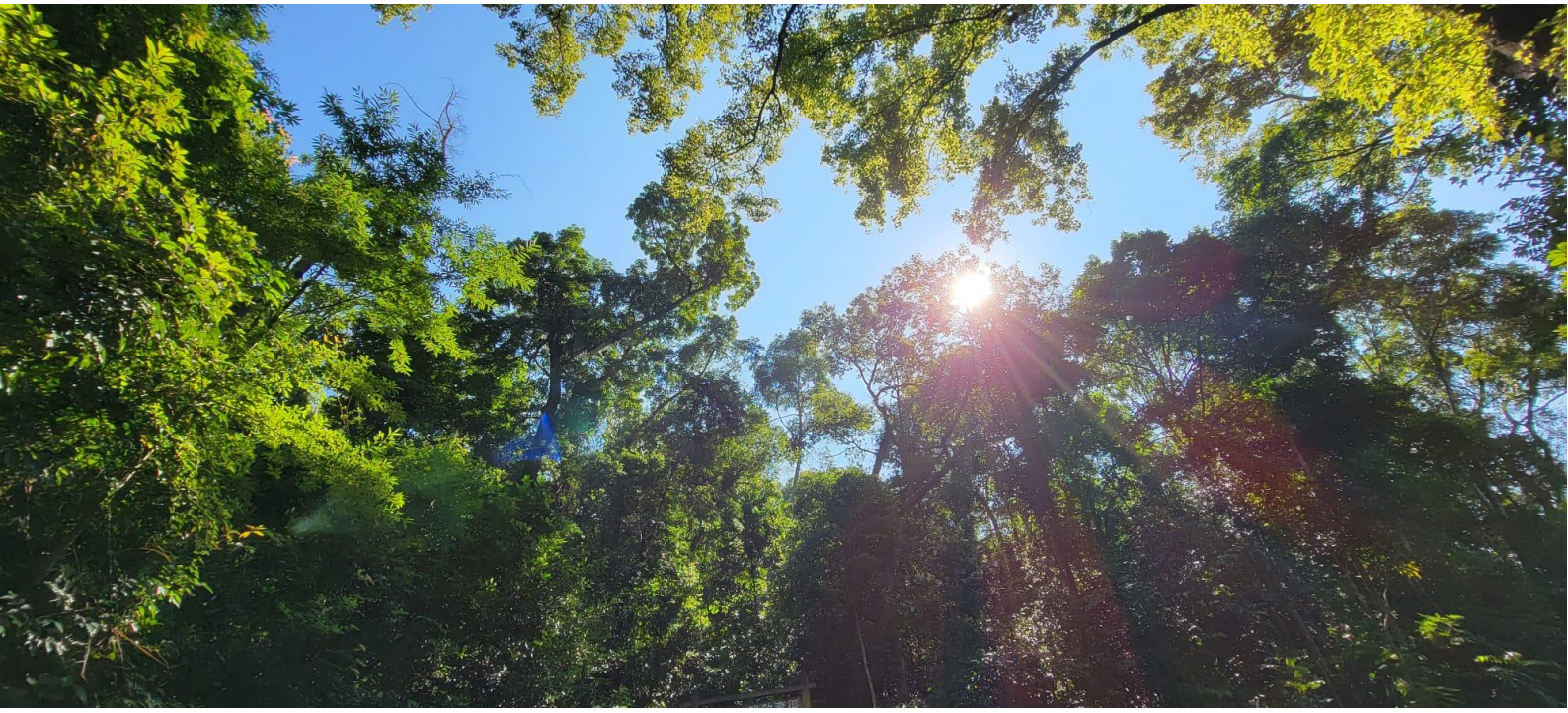
Manual on using EduVenture® VR to develop virtual field trip teaching materials in geography



香港中文大學 學習科學與科技中心

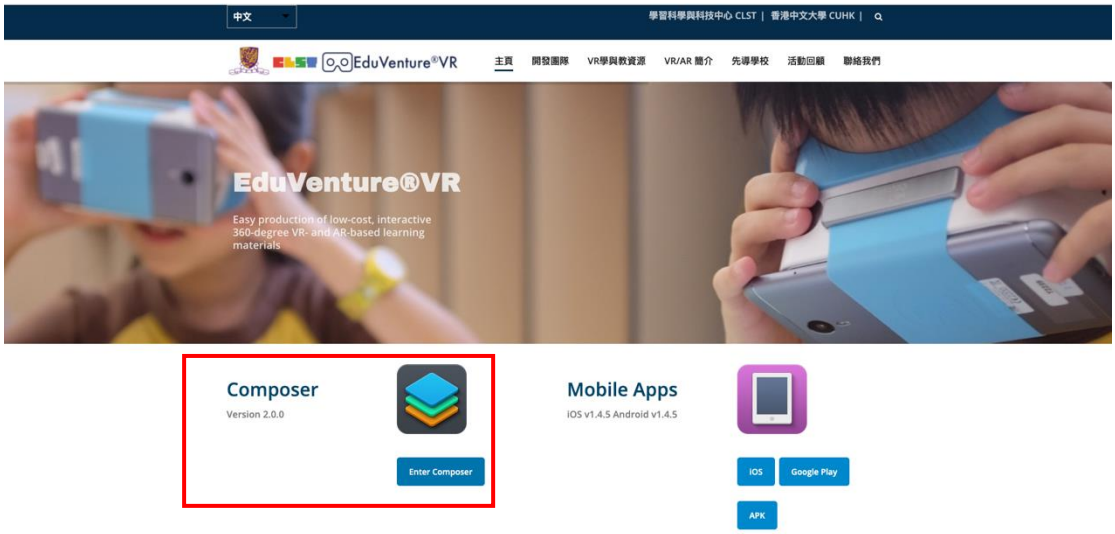
Curriculum Development Institute, Education Bureau

e-Learning in Geography Series (22):

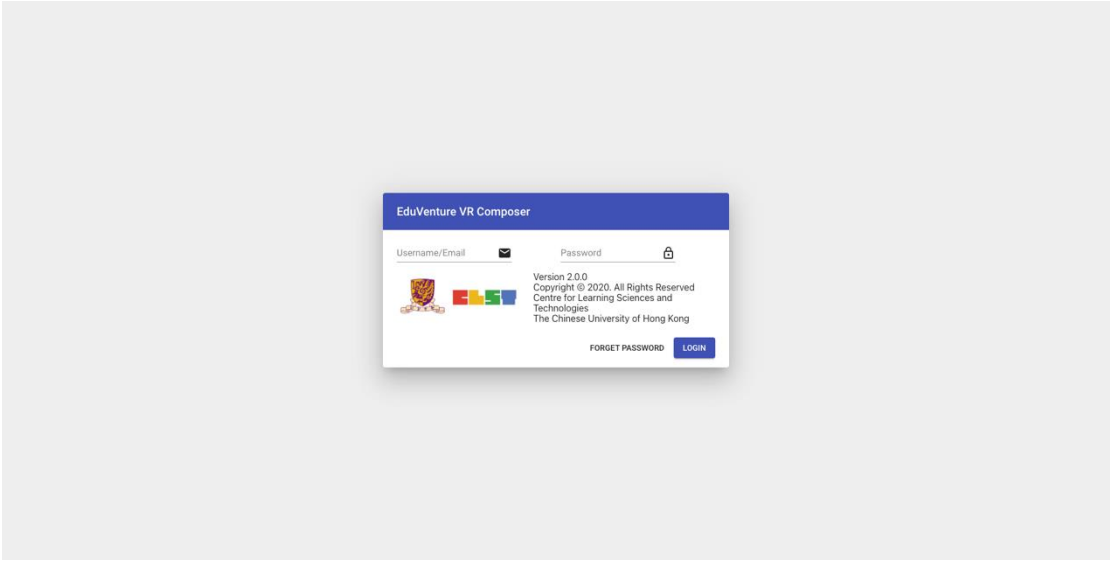
Workshops on using information technology to develop geography virtual fieldwork materials on forests (Refreshed)

1. Enter EduVenture® VR Website http://vr.ev-cuhk.net/zh/

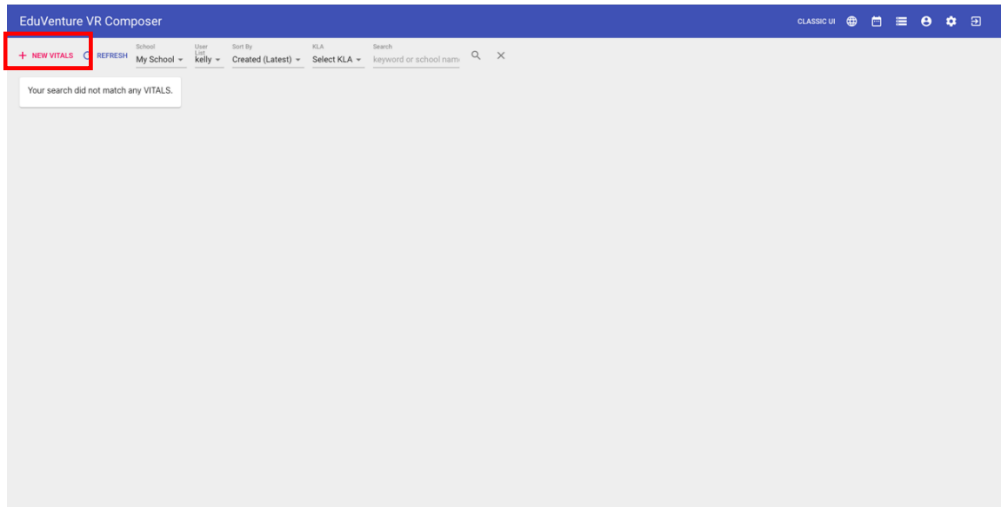
2. Click “Enter Composer”



3. Login to EduVenture® VR Composer

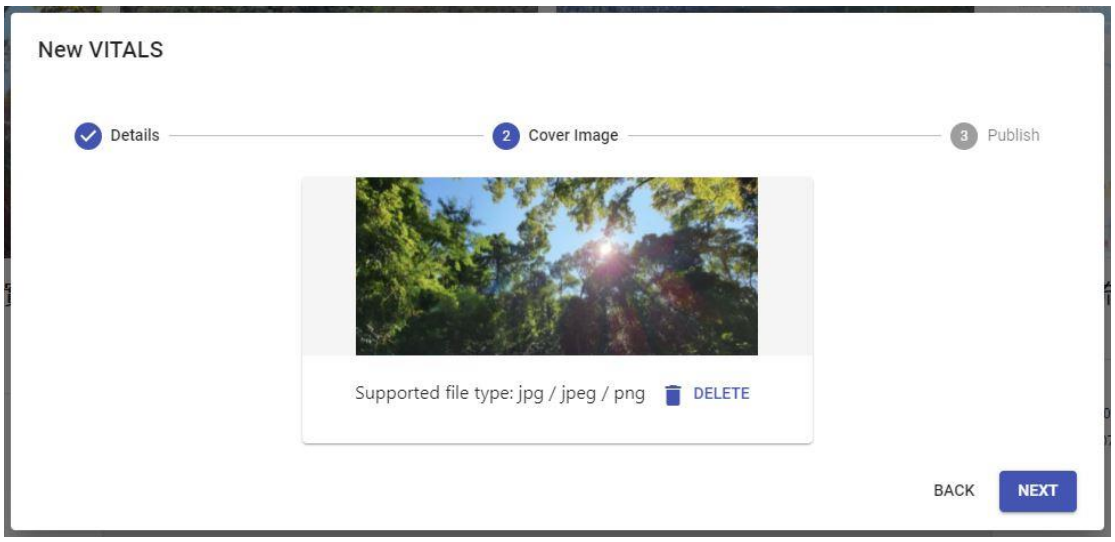


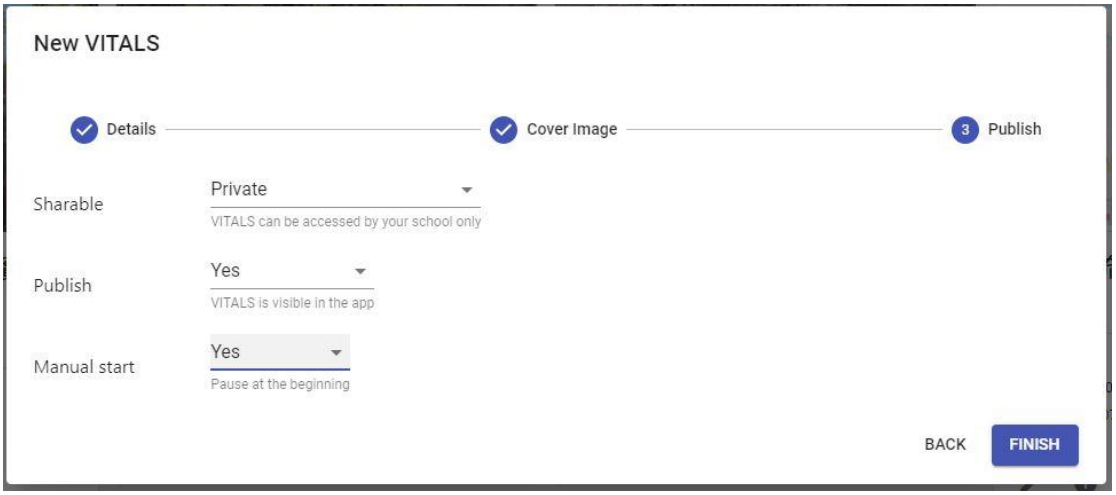
4. Click “New Vitals”



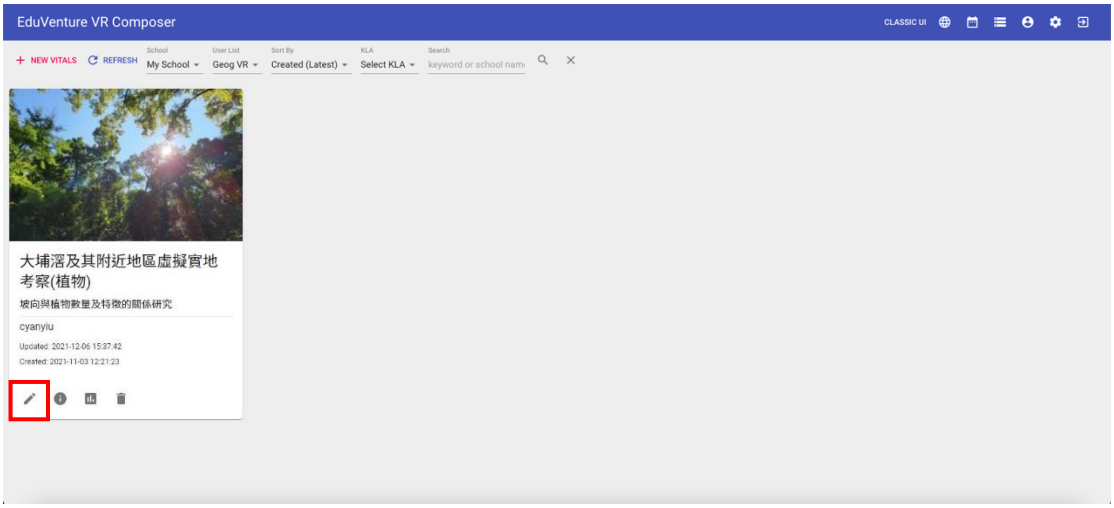
5. Enter the information of the new VITALS:
   Name: Tai Po Kau and vicinity VR Field Trip (Plants)
   Description: The relationship between the slope aspect and the number of plants and characteristics
   KLA: P.S.H.E.

6. Insert a cover photo

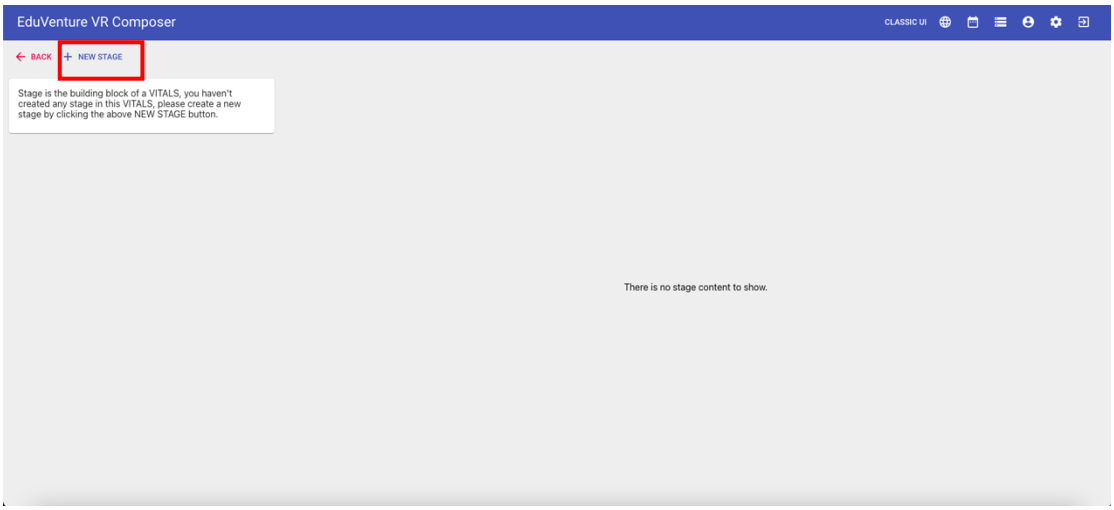


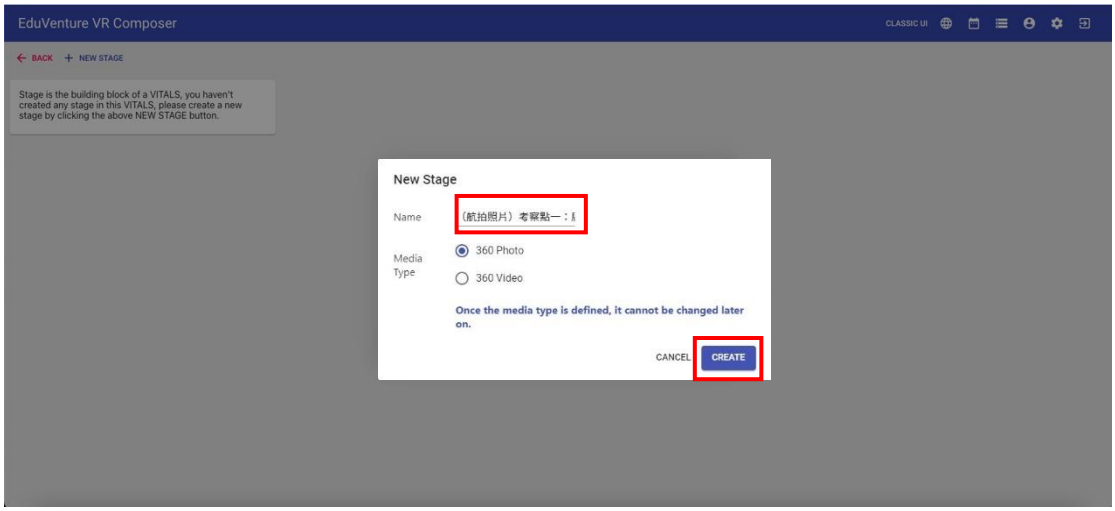


7. Click “Edit”

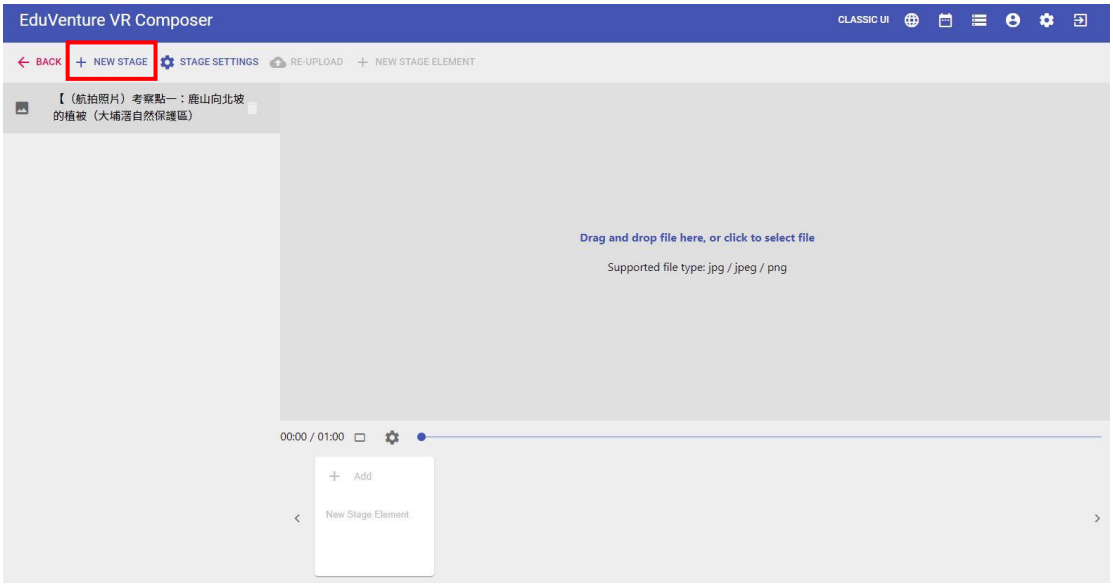


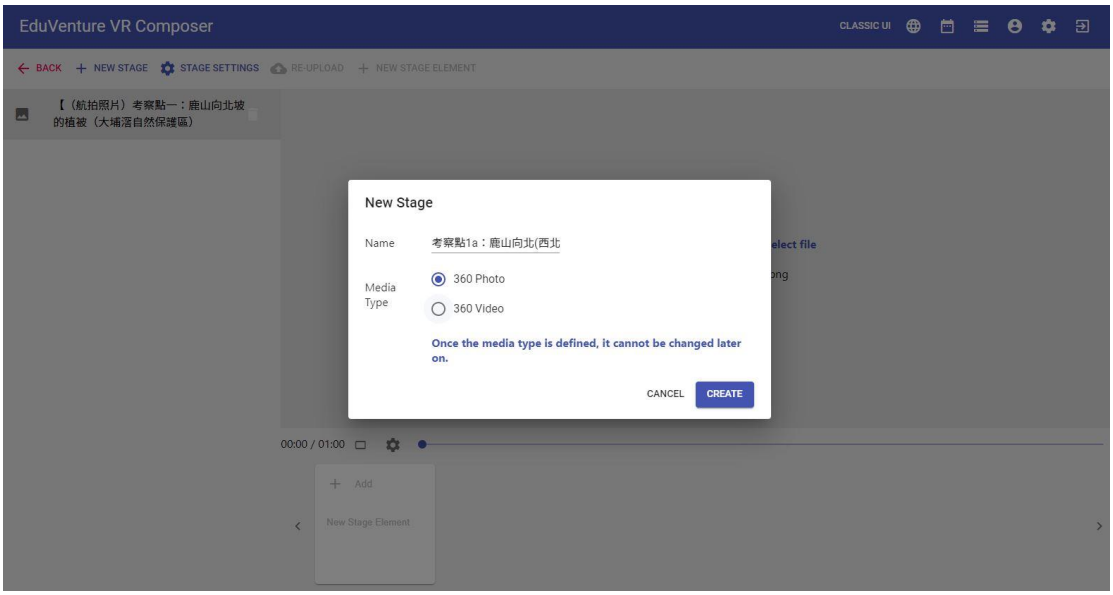
8. Create a new stage and type its name【(Aerial photos) Field site 1a：Plants in a north-facing slope (North-West) in Luk Shan (Inside the Tai Po Kau Nature Reserve)】. Choose “360 Photo” for media type, and press “Create”



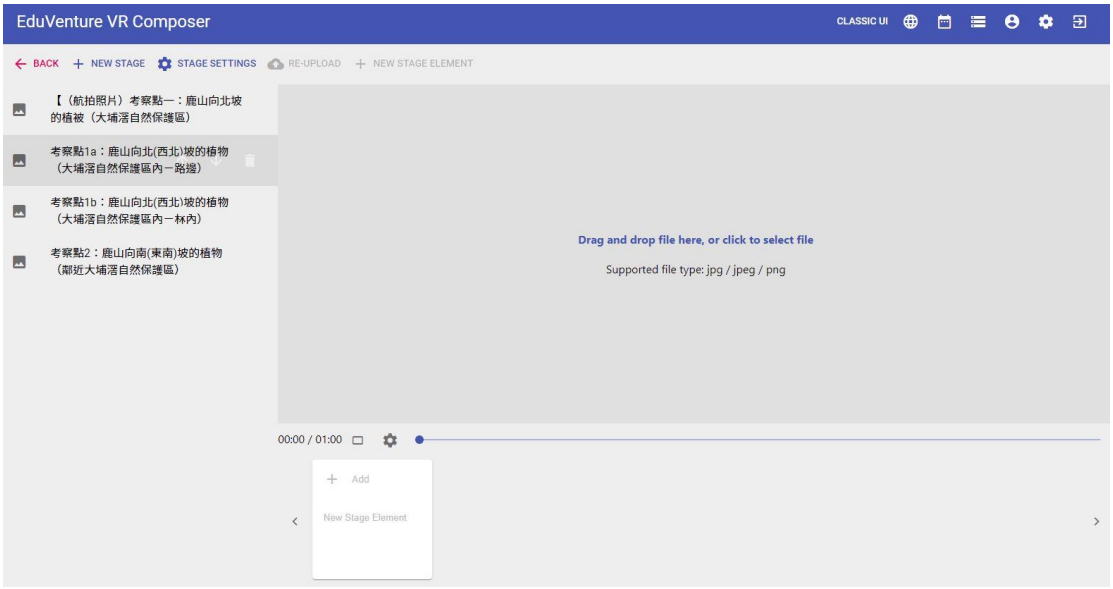


9. Create another new stage again and type its name【Field site 1a：Plants in a north-facing slope (North-West) in Luk Shan (Tai Po Kau Nature Reserve – Road side)】. Choose “360 Photo” for media type, and press “Create”

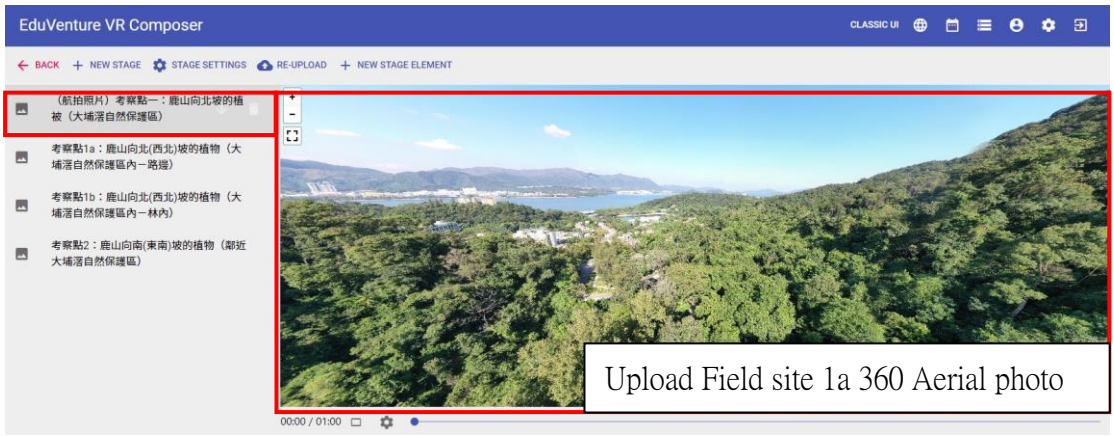




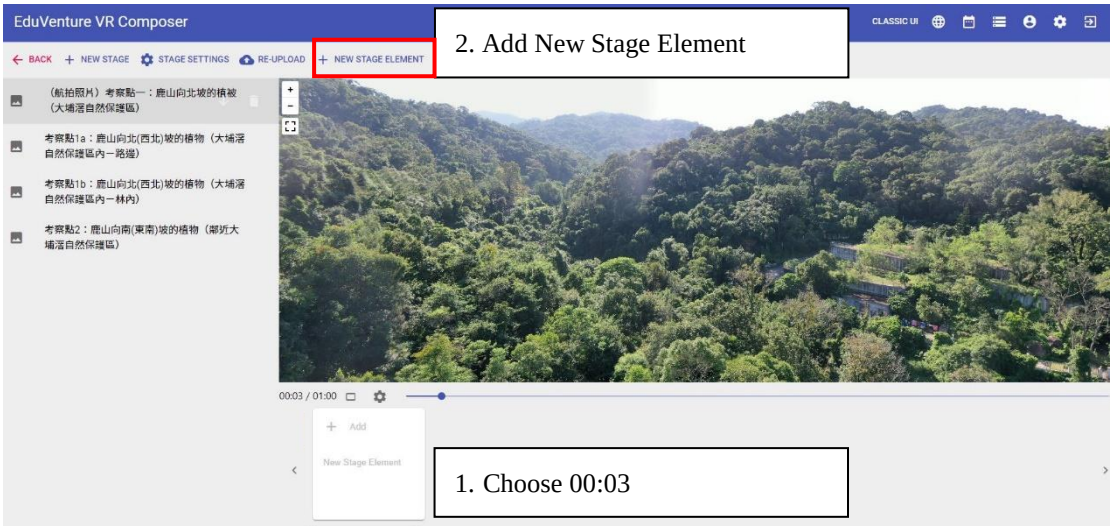
10. Repeat the above steps to create stages for【Field site 1b：Plants in a north-facing slope (North-West) in Luk Shan (Tai Po Kau Nature Reserve – Inside a woodland)】,【Field site 2：Plants in a south-facing slope (South-East) in Luk Shan (adjacent to Tai Po Kau Nature Reserve)】



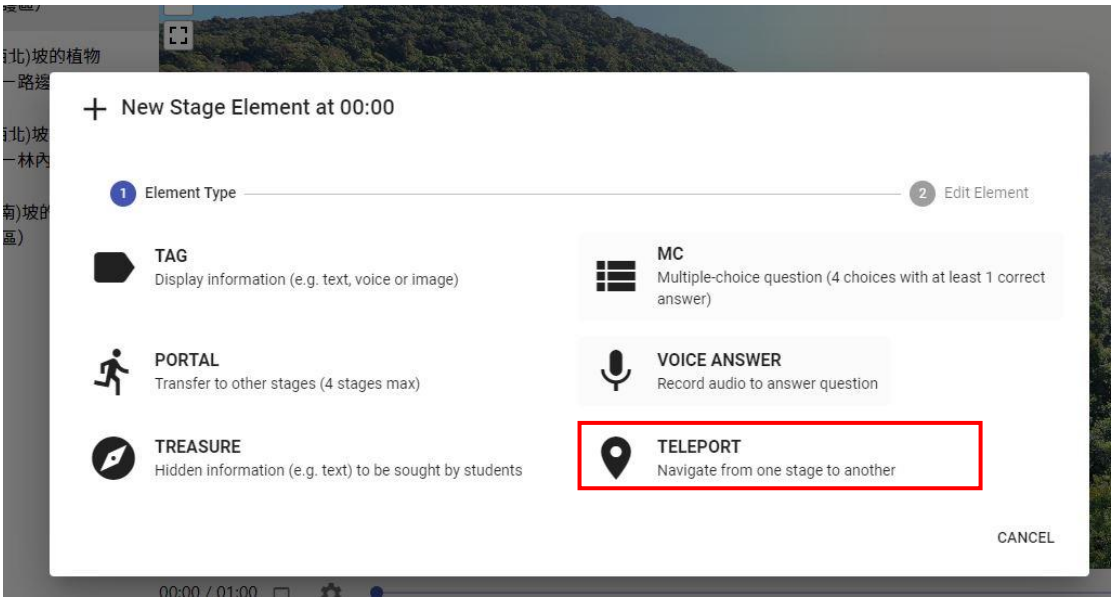
11. Choose【(Aerial photos) Field site 1a：Plants in a north-facing slope (North-West) in Luk Shan (Inside the Tai Po Kau Nature Reserve)】
Upload the 360 aerial photo of Field site 1a, and repeat the above steps for all field sites.


EduVenture VR Composer
CLASSIC UI
BACK
NEW STAGE
STAGE SETTINGS
RE-UPLOAD
NEW STAGE ELEMENT
（航拍照片）考察點一：鹿山向北坡的植被（大埔溪自然保護區）
考察點1a：鹿山向北(西北)坡的植物（大埔溪自然保護區內－路線）
考察點1b：鹿山向北(西北)坡的植物（大埔溪自然保護區內－林內）
考察點2：鹿山向南(東南)坡的植物（鄰近大埔溪自然保護區）
00:00 / 01:00
Upload Field site 1a 360 Aerial photo

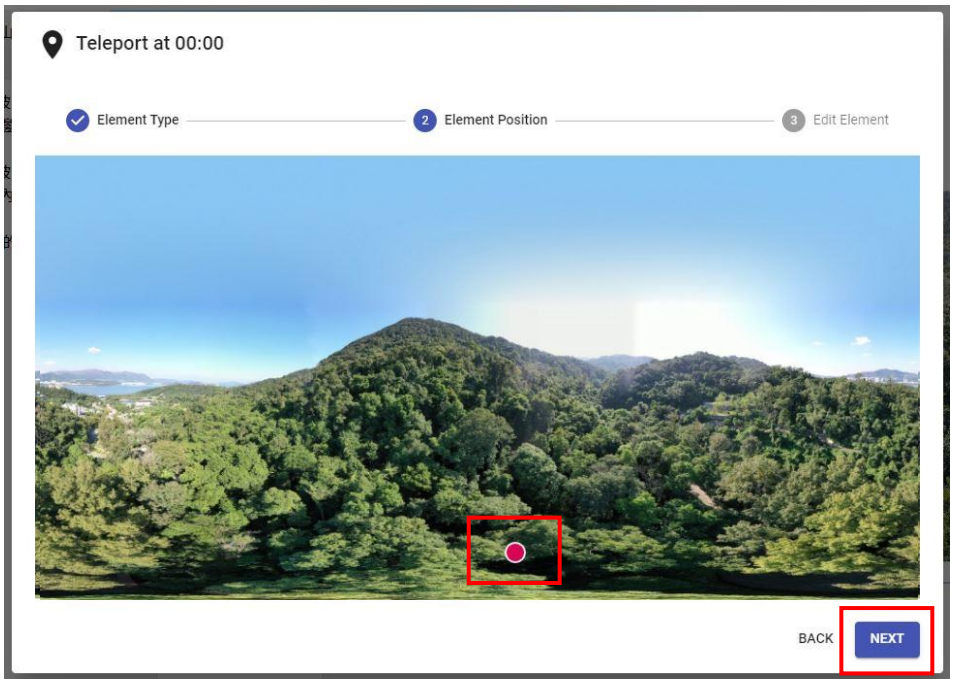
12. Choose【(Aerial photos) Field site 1a：Plants in a north-facing slope (North-West) in Luk Shan (Inside the Tai Po Kau Nature Reserve)】
Add New Stage Element at 00:03.



13. Choose “TELEPORT”



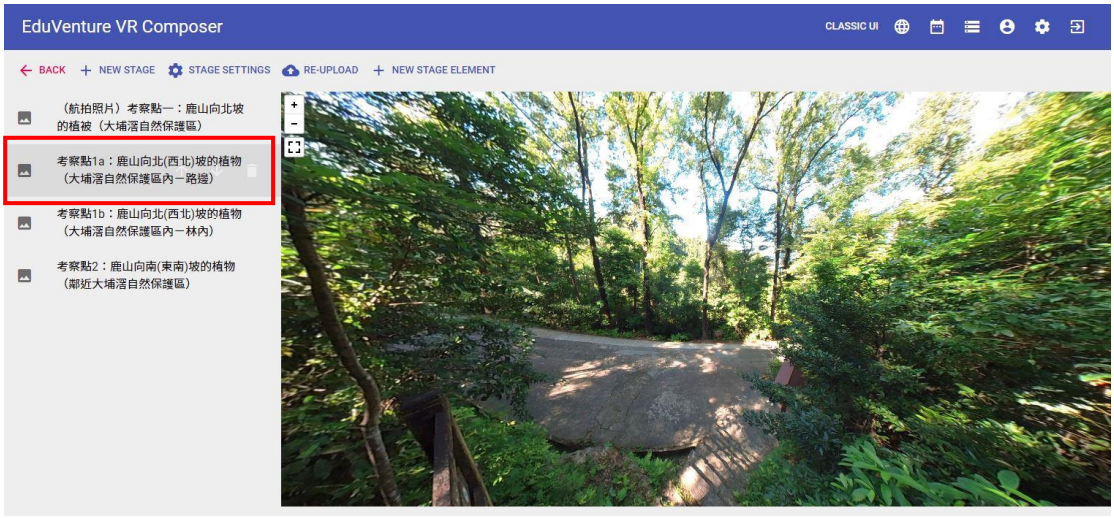
14. Locate the tag with a red dot, and then press “NEXT”



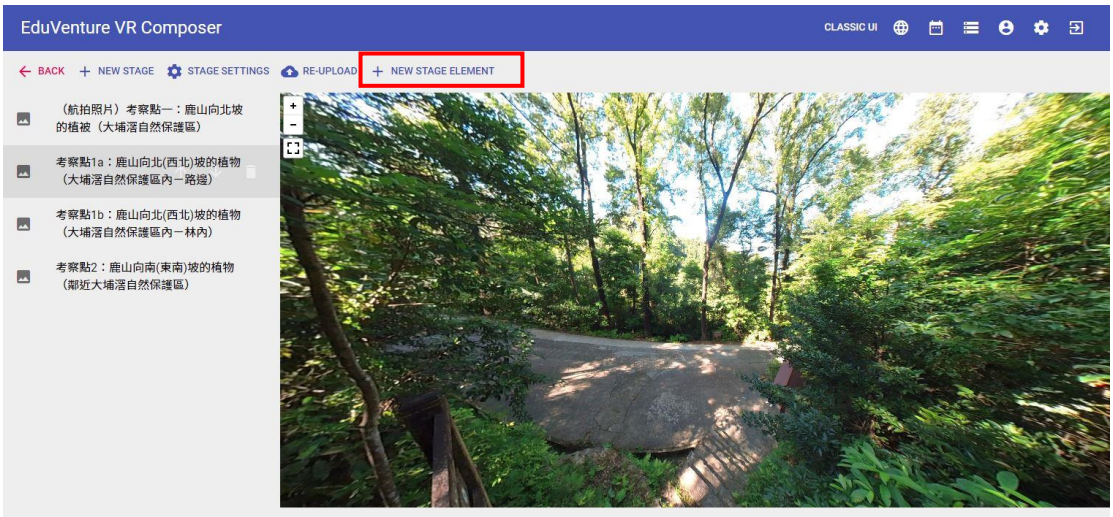
15. Choose “SELECT STAGE”

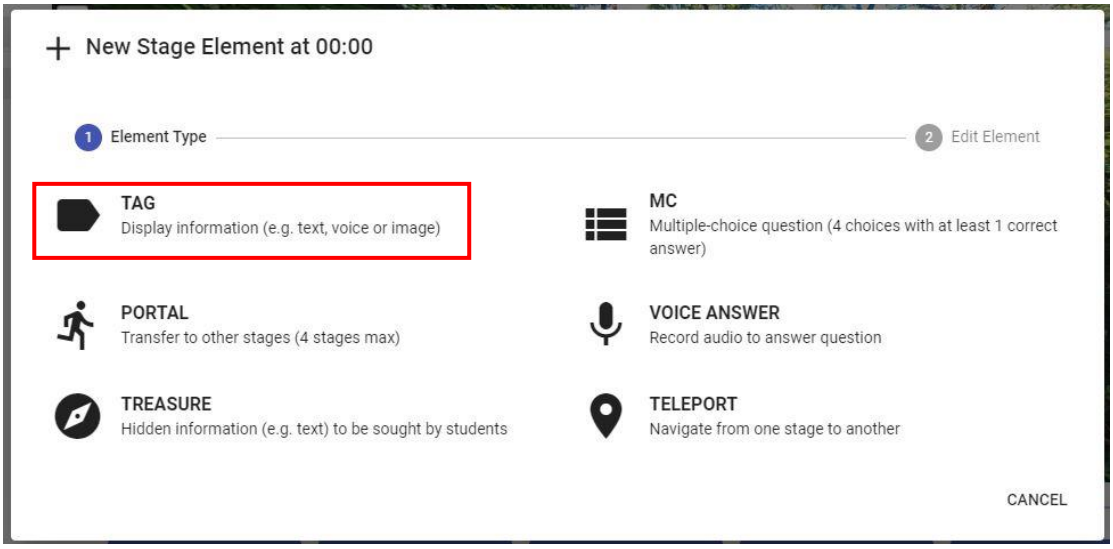
16. Choose the next destination【Field site 1a：Plants in a north-facing slope (North-West) in Luk Shan (Tai Po Kau Nature Reserve – Road side)】, and press “FINISH”.

17. Go to【Field site 1a：Plants in a north-facing slope (North-West) in Luk Shan (Tai Po Kau Nature Reserve – Road side)】

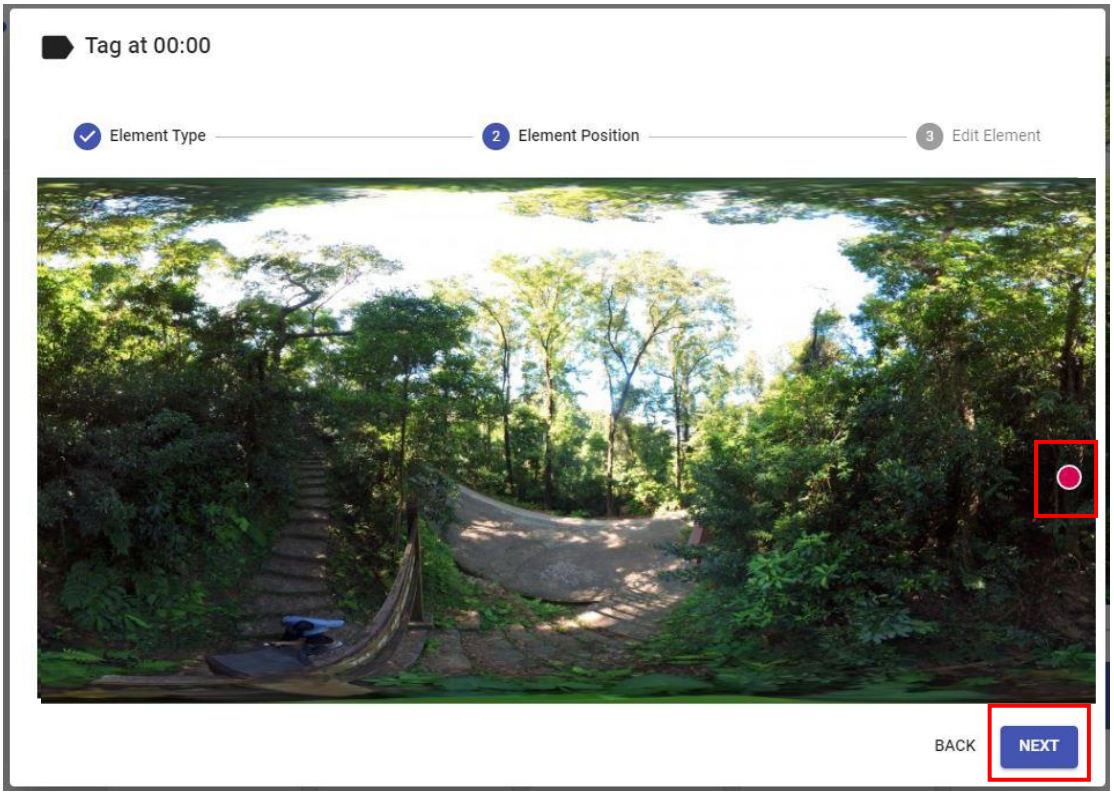


18. Add a new stage element and choose “TAG”

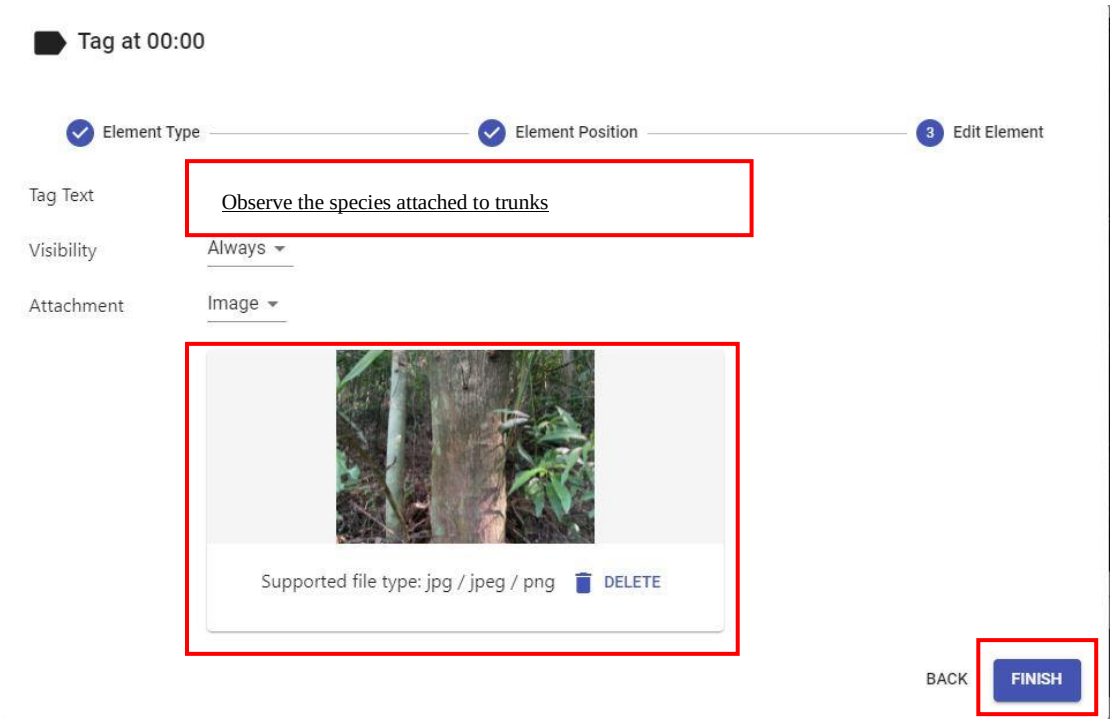




19. Locate the tag with a red dot, and then press “NEXT”



20. Input【Observe the species attached to trunks】, attach a photo in attachment, press “FINISH”.



21. The icon means a successful data input.

22. Repeat step 18-21 to input the data at Field site 1a.
Field site 1a：Plants in a north-facing slope (North-West) in Luk Shan (Tai Po Kau Nature Reserve – Road side)

23. Input the data below at Field site 1a: 【Crown width and shape】, 【Observe the tree height (m) 】, 【Observe the species attached to trunks】, 【Observe the circumference】, 【Observe the plant shape】, 【Observe the buttress roots】, 【Observe the light intensity】, 【Observe the particulate matter PM2.5】, 【Observe the data (Wind speed, Temperature, Air pressure, Altitude, CO2)】, 【Observe the data (Soil temperature, Soil moisture)】, 【Observe the soil nitrates】, 【Observe the soil calcium】, 【Observe the soil electrical conductivity】, 【Observe the soil pH value】

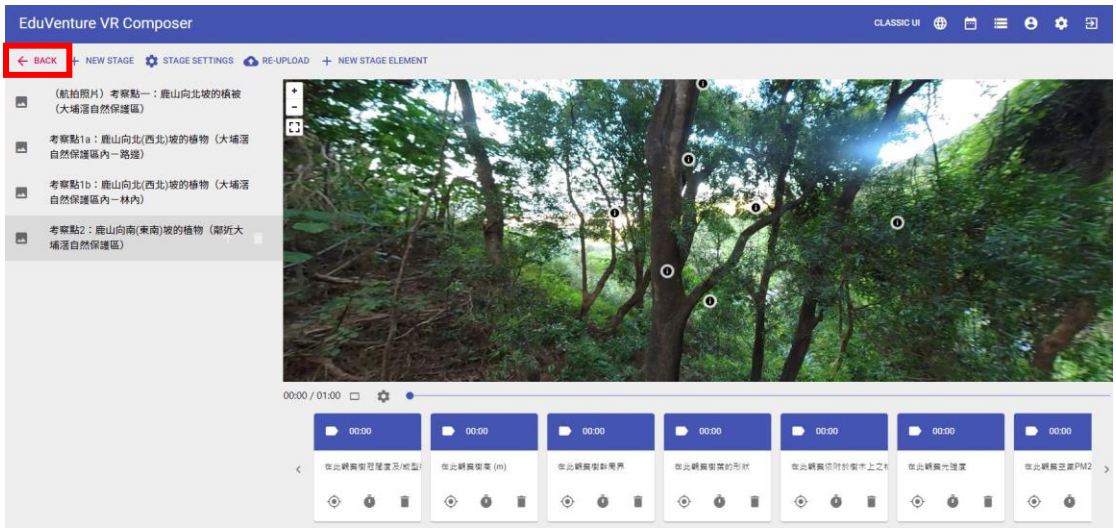
24. Repeat step 17-21 to input the data at Field site 1b.
Field site 1b：Plants in a north-facing slope (North-West) in Luk Shan (Tai Po Kau Nature Reserve – Inside a woodland)
Input the data below at Field site 1b:【Crown width and shape】, 【Observe the Tree Height (m) 】, 【Observe the species attach to trunks】, 【Observe the circumference】, 【Observe the plant shape】, 【Observe the buttress roots】, 【Observe the light intensity】, 【Observe the particulate matter PM2.5】, 【Observe the data (Wind speed, Temperature, Air pressure, Altitude, CO2)】, 【Observe the data (Soil temperature, soil moisture)】, 【Observe the soil Nitrates】, 【Observe the soil Calcium】, 【Observe the soil electrical conductivity】, 【Observe the soil pH value】

25. Repeat step 17－21 and add the data at Field site 2.

Field site 2：Plants in a south-facing slope (South-East) in Luk Shan (adjacent to Tai Po Kau Nature Reserve)

Suggestion of adding the below data at field site 2: 【Crown width and shape】, 【Observe the Tree Height (m) 】,【Observe the data (Wind speed, Temperature, Air pressure, Altitude, CO2)】, 【Observe the plant shape】,【Observe the species attached to trunks】,【Observe the circumference】,【Observe the Soil】,【Observe the Light intensity】, 【Observe the Particulate matter PM2.5】

26. To share this teaching kit to students, click “BACK”



27. Choose “View/Edit Details”

28. Choose “Public” and share the link

29. Download the teaching kit:

29.1 Download EduVenture VR App

EduVenture VR

29.2 Download EduVenture VR App at the following links

iOS	Android
https://apps.apple.com/hk/app/eduventure-vr/id1481552336	https://play.google.com/store/apps/details?id=cuhk.clst.evvr&hl=zh_HK&gl=US

29.3 Using a tablet or mobile phone, download Tai Po Kau and vicinity VR Field Trip (Plants) teaching kit from EduVenture VR App.

EduVenture VR teaching kit：Tai Po Kau and vicinity VR Field Trip (Plants)
Link: eduventure.vr://?6c6f63610f093a30=657676725a554646
(Note: This link is only applicable to tablets/mobile phones)

*To download the VR tour, please scan the QR code after installing EduVenture VR application