

ArcGIS Drone2Map®



Windows
PC

INSTALLATION PROGRAM

*Step-by-Step Guide to Install ArcGIS Drone2Map
on Your Windows PC*



- ✓ System Requirements
- ✓ Download & Licensing
- ✓ Installation Steps
- ✓ Configure & Verify
- ✓ Ready to Map



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ArcGIS Drone2Map

Installation Manual

Updated teacher version for lab setup and classroom readiness

Advanced Drone Pilot Course | June 25, 2026

Item	Current Guidance
Audience	Teachers, pathway specialists, and lab support staff installing ArcGIS Drone2Map for student use.
Source Reviewed	ArcGIS Drone2Map Installation Manual 04-20-2026 and current Esri documentation reviewed June 25, 2026.
Status	The April process is generally usable, but several technical requirements are outdated and should be replaced before teacher use.
Most Important Update	Use current Esri system requirements: Windows 11 or supported Windows Server, .NET Desktop Runtime 10 x64, WebView2 Runtime 132 or later, and updated RAM/GPU guidance.

1. Installation Review Summary

Bottom line: The old installation sequence can still work if the correct installer is downloaded from My Esri and the account is licensed correctly, but teachers should not use the old system requirement values. This updated version replaces those values and clarifies which optional packages are required only for specific workflows.

Area	April Manual	Current Update for Teacher Use
Operating system	Windows 11, Windows 10, Windows Server 2016/2019/2022.	Use Esri's current supported list: Windows 11 Home/Pro/Enterprise 64-bit, Windows Server 2025, Windows Server 2022, or Windows Server 2019 with Desktop Experience. Windows 10 is no longer listed on the current Esri page reviewed.
Minimum CPU/RAM	4 cores and 8 GB RAM minimum.	Current minimum is 6 cores/12 threads. RAM is dataset-based: 32 GB for up to 2,500 images, 64 GB for up to 5,000 images, and 128 GB for up to 10,000 images.

Recommended CPU/RAM	About 12 cores and up to about 48 threads.	Current recommended CPU is 24 cores/48 threads or higher. For optimal performance, RAM should be about double CPU thread count; 24 cores/48 threads means 96 GB RAM minimum for optimal performance.
GPU	NVIDIA CUDA 6.1 or higher recommended.	Current deep-learning dependent features require NVIDIA CUDA compute capability 7.5+ and 8 GB VRAM minimum; recommended is CUDA 8.9+ and 16 GB VRAM.
Software prerequisites	.NET 8 or .NET 6 examples and WebView2 117.	Current Esri requirement is Microsoft .NET Desktop Runtime 10.0.0 or later patch release, Windows x64 installer, plus Microsoft Edge WebView2 Runtime 132 or later.
Imagery limits	75 MP individual image and Standard/Advanced license project limits.	Current Esri guidance says imagery over 105 MP is not supported. Professional or Professional Plus user types have no project imagery size limit; otherwise combined project imagery is limited to 300 gigapixels.
Optional packages	Coordinate Systems Data treated as required.	Coordinate Systems Data is optional but strongly recommended for datum/vertical transformations. Other optional packages include Deep Learning Libraries, DJI Camera Support, and ArcGIS Raster Data.

2. Teacher Readiness Checklist

Check	Teacher/Lab Action	Pass Condition
Account	Confirm each teacher/student has an ArcGIS Online or ArcGIS Enterprise account.	User can sign in successfully.
License	Confirm Drone2Map or Reality Mapping license is provisioned.	Drone2Map opens after sign-in without license error.
User type and role	Confirm user is Creator, Professional, or Professional Plus with Publisher role as required by Esri.	User can open Drone2Map and publish/share when needed.
Hardware	Compare each lab computer to current minimum/recommended	Computer meets minimum for class datasets; teacher workstation preferably meets recommended specs.

	requirements.	
Prerequisites	Install .NET Desktop Runtime 10 x64 and WebView2 Runtime 132+ before Drone2Map if missing.	Installer completes without runtime prerequisite error.
Storage	Use local internal drive or SSD for projects.	Students do not process directly from OneDrive, Google Drive, USB, or slow network storage.
Optional packages	Install Coordinate Systems Data when accuracy/transformations matter; install other optional packages only when needed.	Required workflow tools are available inside Drone2Map.

3. Current System Requirements

Use these requirements as the teacher-facing minimum check before lab deployment. Esri may revise requirements with each release, so pathway specialists should recheck My Esri and the Esri system requirements page before a large lab installation.

Supported Operating Systems

- Windows 11 Home, Pro, and Enterprise 64-bit.
- Windows Server 2025 Standard and Datacenter 64-bit.
- Windows Server 2022 Standard and Datacenter 64-bit.
- Windows Server 2019 Standard and Datacenter 64-bit.
- Windows Server installations require Desktop Experience.
- The operating system must also still be supported by Microsoft.

Supported Imagery and GPS Requirements

- Supported imagery includes JPEG .jpg/.jpeg and TIFF .tif/.tiff.
- TIFF support includes monochromatic TIFF and multiband TIFF for RGB, infrared, or thermal imagery when formatted as one layer with no pyramids and no multipage TIFF.
- Individual images over 105 megapixels are not supported.
- Drone2Map requires GPS/camera location data for each photo. JPG images normally store this in EXIF. TIFF workflows may require a GPS text or CSV file.
- Professional or Professional Plus user types have no project imagery size limit. Otherwise, combined project imagery is limited to 300 gigapixels.

Hardware Requirements

Component	Minimum	Recommended
CPU	6 cores, 12 threads.	24 cores, 48 threads or higher.
RAM	32 GB up to 2,500 images; 64 GB up to 5,000 images; 128 GB up to 10,000 images.	Same dataset scale, but optimal performance requires RAM about double the number of CPU threads.
GPU	4 GB VRAM for display. Deep-learning dependent features require NVIDIA CUDA compute capability 7.5+ with 8 GB VRAM.	Dedicated NVIDIA GPU with CUDA compute capability 8.9+ and 16 GB VRAM.
GPU driver	NVIDIA driver version 570 or later for supported NVIDIA workflows.	Keep current manufacturer driver installed.
Graphics API	DirectX 12, feature level 12.0, Shader Model 6.0. OpenGL 4.3 is also listed.	Use DirectX unless troubleshooting driver issues.
Storage	Internal hard drive.	Solid-state drive. Avoid cloud-sync and slow removable/network storage during processing.
Screen	1024 x 768 minimum.	Higher resolution preferred for classroom projection and multitasking.

Software Prerequisites

Requirement	Current Esri Requirement	Teacher Note
Microsoft .NET Desktop Runtime	.NET Desktop Runtime 10.0.0 or later patch release, Windows x64 installer.	Installing .NET 9 or another later major version does not satisfy this specific requirement.
Microsoft Edge WebView2 Runtime	WebView2 Runtime version 132 or later.	For a per-machine Drone2Map install, use a per-machine WebView2 install by running the WebView2 installer as administrator.

4. Obtaining an ArcGIS Login for Teachers

Authorize ArcGIS user licenses.

1. To use any ArcGIS application, including Drone2Map, each user must have an ArcGIS Account.

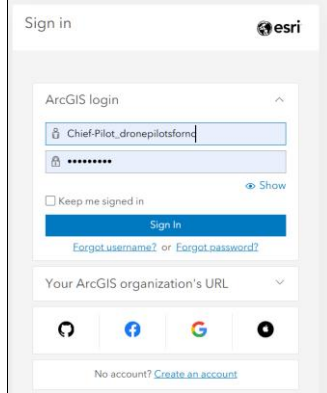
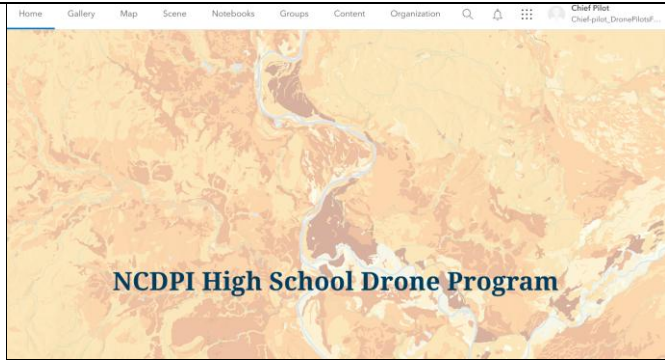
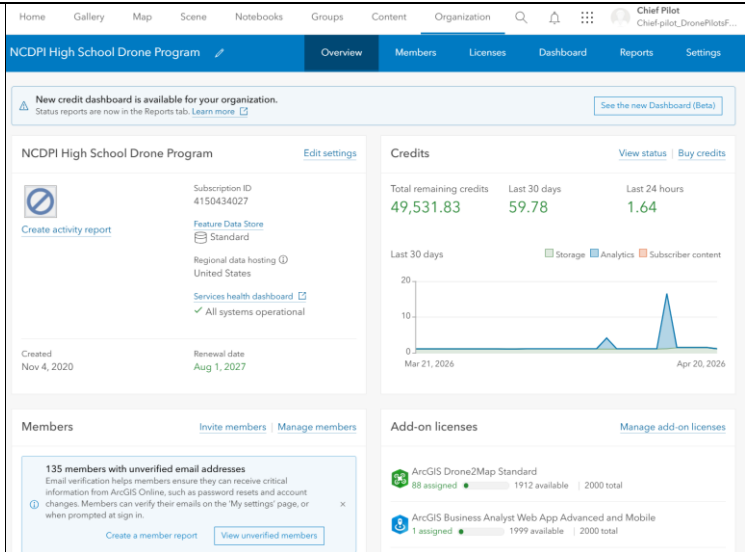
2. Esri gives limited ArcGIS licenses (2D only) to a secondary educational entity at no charge. 3D features can be purchased for an additional license cost.
3. Your CTE specialist in charge of your drone programs can obtain a free ArcGIS subscription for all its CTE programs.
4. Each user must have their own ArcGIS login with a Drone2Map license provided.
5. Email your pathway person assigned to drones to obtain a username and password for your ArcGIS account
6. Teachers will need to have this access to use and run the Drone2Map applications.

Example of a username could be formatted like this:

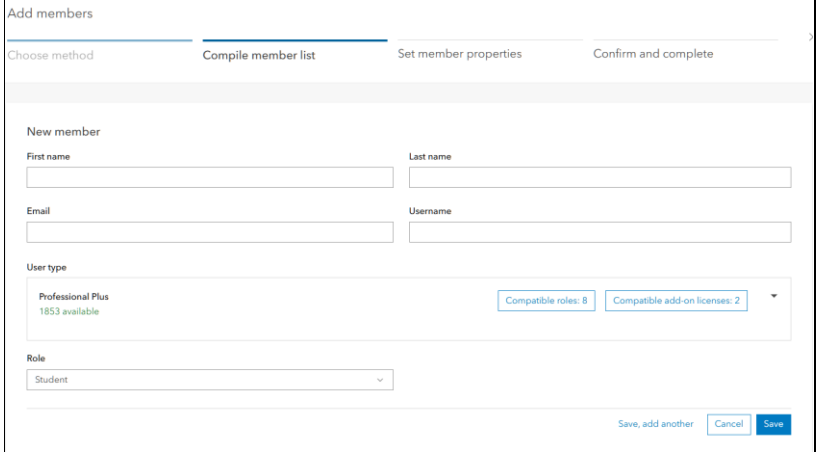
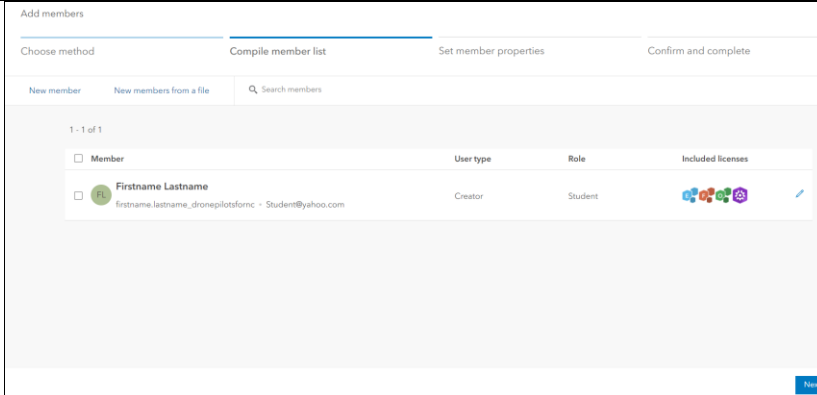
username format: **name.lastname_DronePilotsForUS**

5. Authorize Students to use ArcGIS applications.

Step	Instruction	Visual Aide
1	The teacher will log in to ArcGIS using their provided username and password.	<i>If you forgot your password, you can ask to have it reset.</i>
2	To use any ArcGIS application, including Drone2Map, each user must have an ArcGIS Account in the CTE account that manages this program	<i>(Note: anyone can get a free ArcGIS account, but only those who are using the official CTE account will have access to their applications.</i>
3	Go to https://www.arcgis.com/ and click Sign In	 The image shows the ArcGIS Online login page. It features the ArcGIS logo at the top, followed by the text 'ArcGIS Online' and 'Powered by Esri'. Below this is a brief description: 'Connect people, locations, and data using interactive maps. Work with smart, data-driven styles and intuitive analysis tools. Share your insights with the world or specific groups.' At the bottom, there is a 'Sign in' button.

Step	Instruction	Visual Aide
4	The login screen will appear Enter your Username and password assign to you.	
5	Enter your ArcGIS credentials, and click Sign In. The state High School Drone Program Homepage will display.	
6	At the top of the screen, click on the Organization tab, and the main invitation page will display	

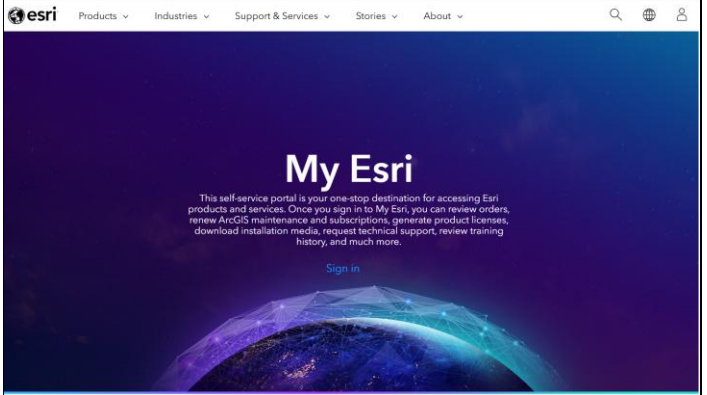
Step	Instruction	Visual Aide
7	Select Members tab	
8	To add students, click on the Invite members tab Click on the Add members without sending invitation tab and click Next <i>You will set up each username and a temp password that will be changed the first time they log in. Use the PII approved name</i>	
9	<i>Note: you can add all members at the same time by using the Add members without sending invitation and then use a CSV file using the supplied format when you select that option. Since we will be using the student information we create generically across all applications, make sure the student assigned to this user profile aligns with the same generic email already assigned to them.</i>	
10	You can add an individual member by clicking either the “New Member” tab or add multiple new members by clicking on the “New Members from file” tab.	

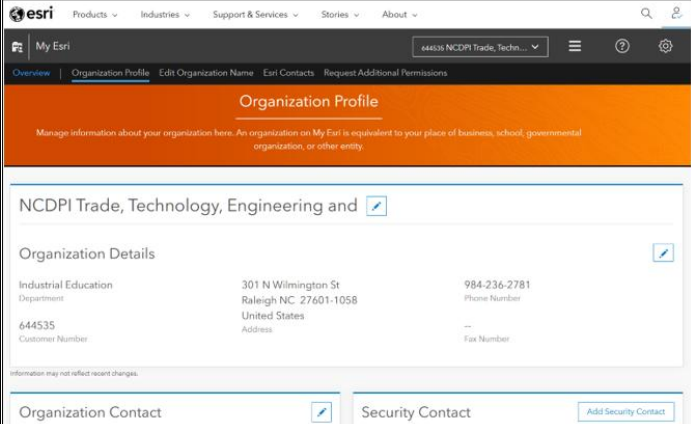
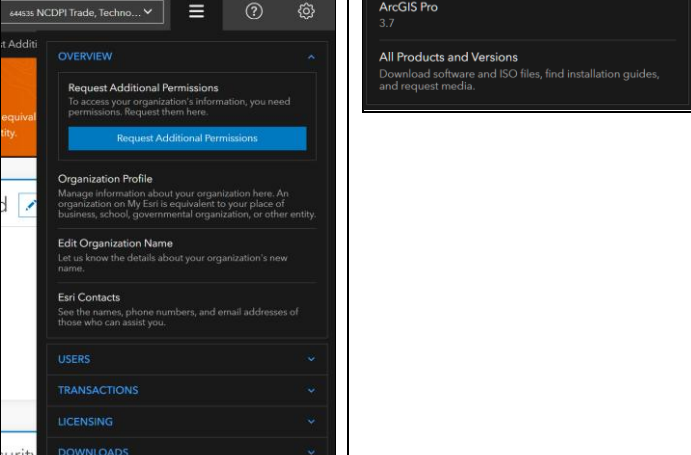
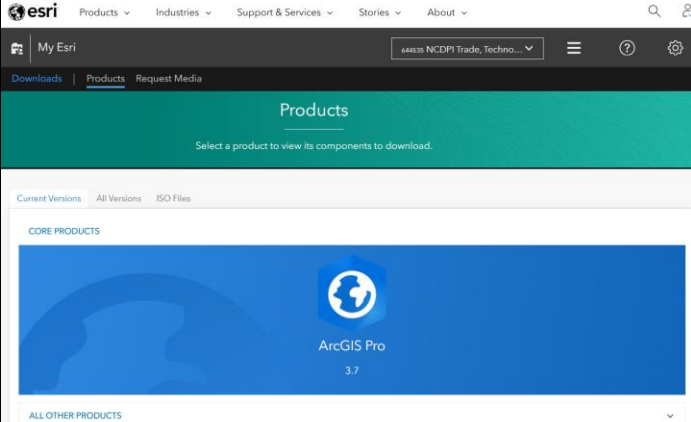
Step	Instruction	Visual Aide
11	To add one member at a time, A form will appear that needs to be completed. - For individual additions, enter the student's first name, last name, and Email Address. - Edit the default Username to the format Firstname.lastname_DronePilotsForUS - Verify or change User type to: GIS Professional Advanced - Verify or change role to: Student Click Next	 <i>If you choose to add multiple names you can create a .csv file and include all at one time and then drop or drag it to the box provided as long as you follow the proper column formatting requirements</i>
12	The newly created user will appear on the screen. Click Next to complete the student enrollment	

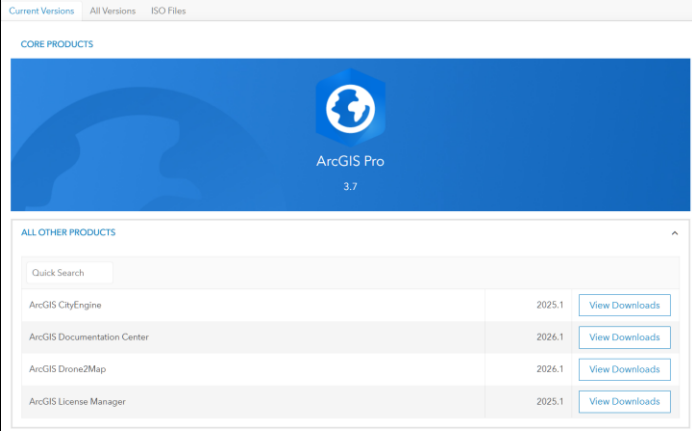
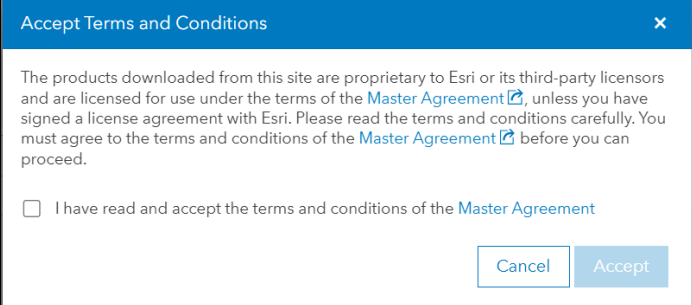
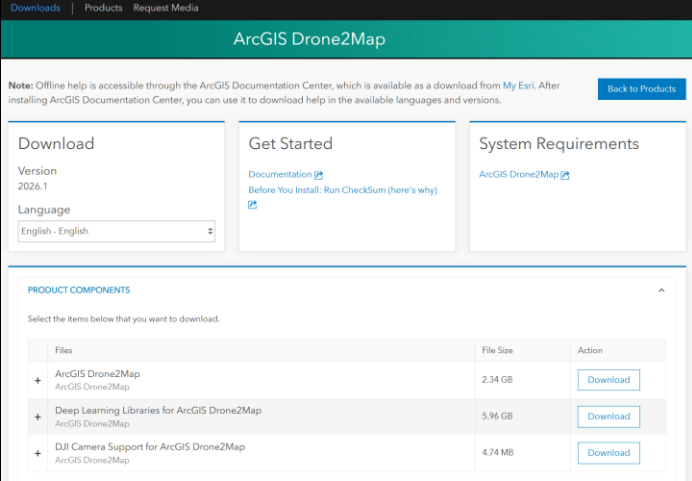
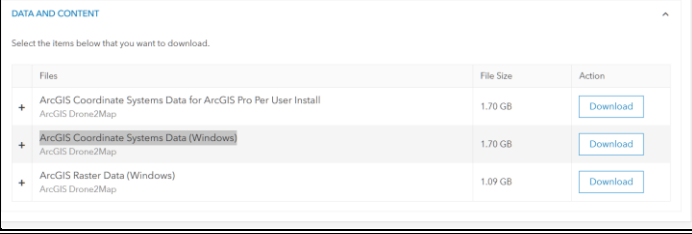
Step	Instruction	Visual Aide
13	The student will receive an email sent to the email address entered during account creation for verification purposes. Once complete, they should be able to use the Drone2map App.	<i>Note: These usernames and email addresses should be the generic email address created as part of the overall PII procedures, and only the teacher will receive these notifications in their generic teacher account.</i>

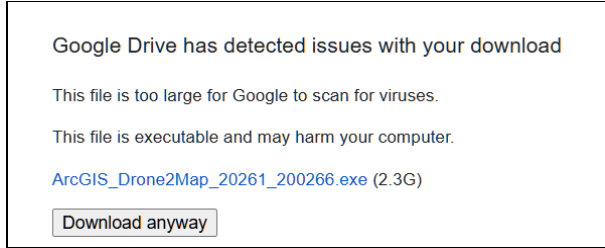
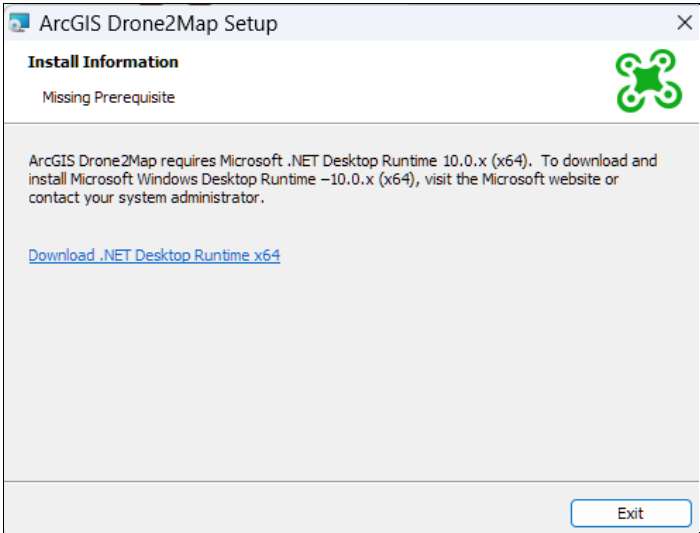
6. Install Drone2Map

Download the Esri Drone2Map application

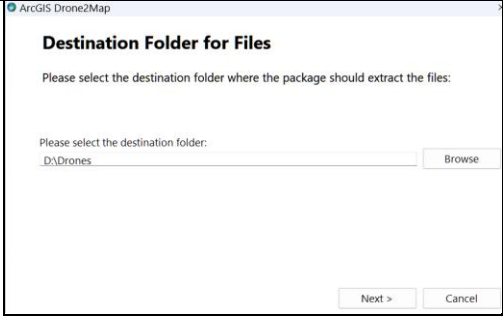
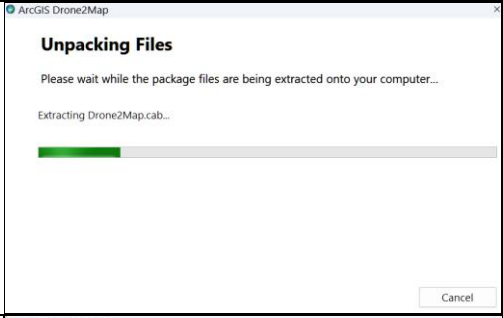
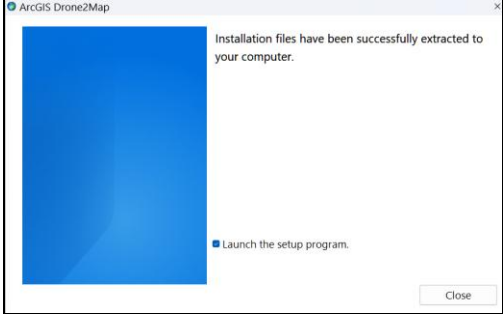
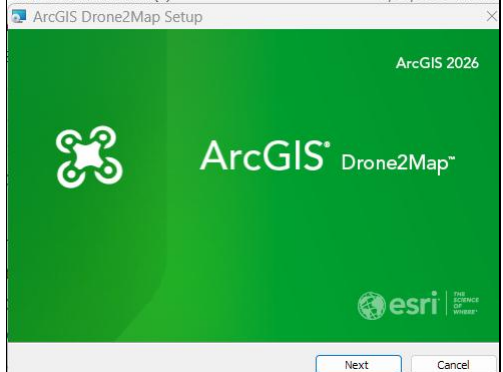
Step	Instruction	Visual Aide
1	The latest Drone2Map applications and downloads must be downloaded by the Pathway specialist or state representative who oversees this program. The person in charge of the Esri account (<i>This is not the teacher but the one who oversees the entire Esri program</i>) will log into the My Esri account using their login information previously obtained from either Esri directly (if new program) or from the program area specialist who oversees the program. https://www.esri.com/en-us/my-esri-login	

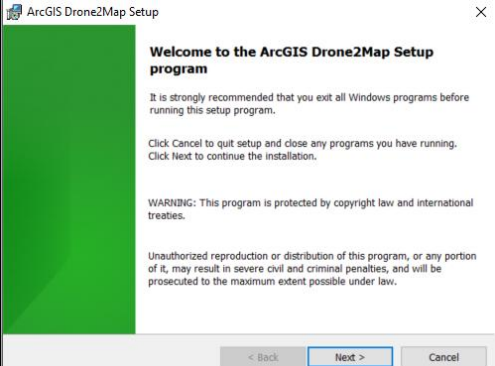
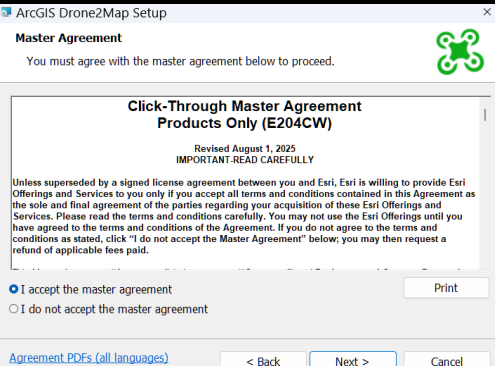
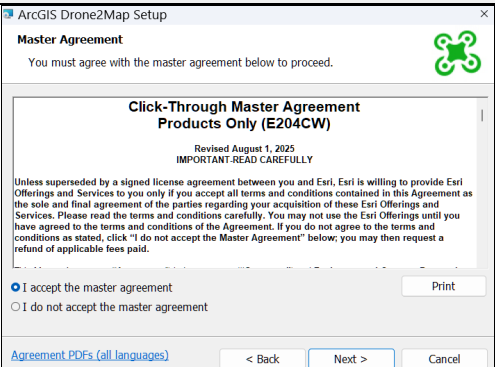
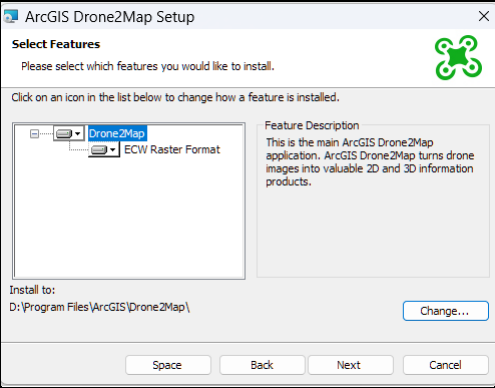
Step	Instruction	Visual Aide
2	The organization Profile page will display	
3	• The organization Profile page will display: • Select the three bars  at the top right, and this menu will display. Then, click on the downloads as shown here and click on the “All Products and Versions”	
4	The Products page will display	

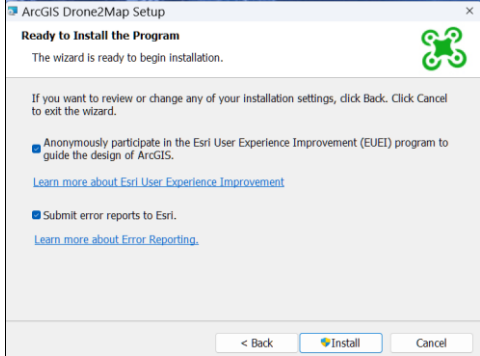
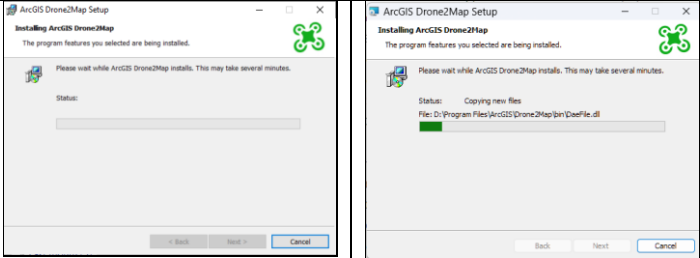
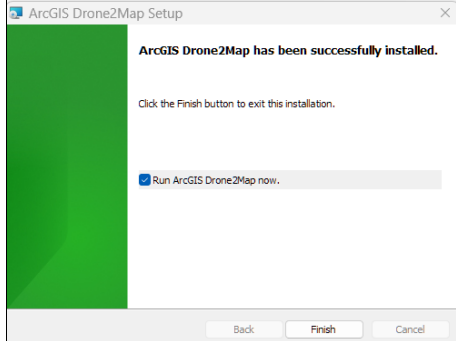
Step	Instruction	Visual Aide
5	Select “All Other Products”	
6	Look for “ArcGIS Drone2Map” Click on the “View Downloads” This page will display: Check the box and the click “Accept”	
7	Find ArcGIS Drone2Map and select “Download”	
8	The file will begin downloading into your download folder on your PC. At this time, the latest file to download was <i>ArcGIS_Drone2Map_20261_200266</i>	
9	Scroll down to the DATA AND CONTENT section, and you will find ArcGIS Coordinate Systems Data . Select the download and store as before.	
10	The file will begin downloading into your download folder on your PC. At this time, the latest file to download was <i>ArcGIS_Coordinate_Systems_Data_Windows_121_200093</i>	

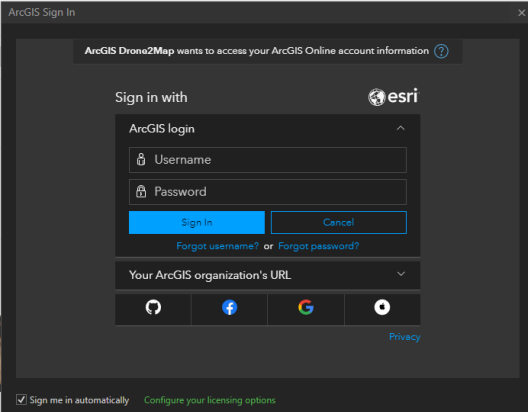
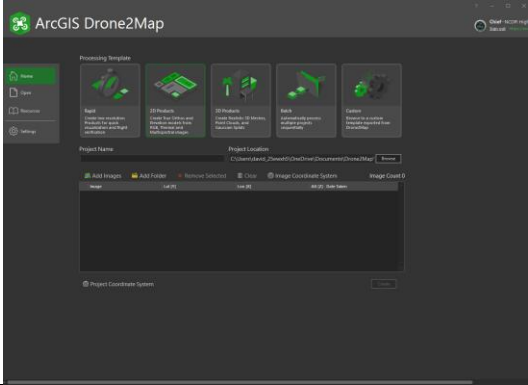
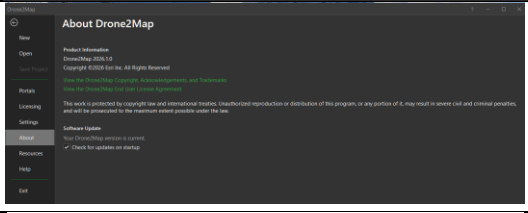
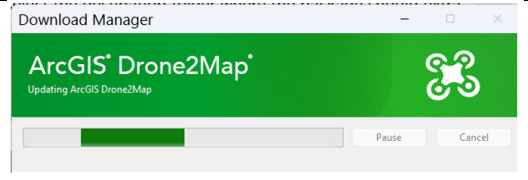
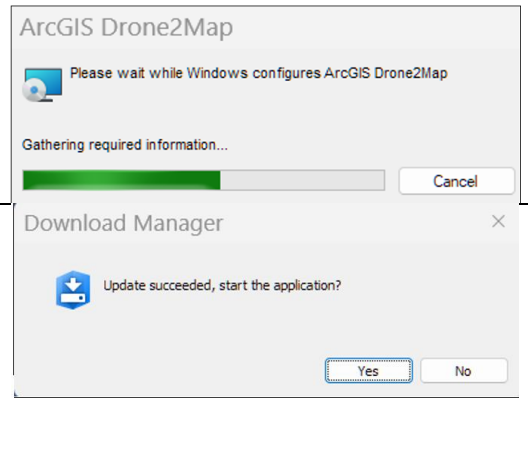
Step	Instruction	Visual Aide
11	Once the file is downloaded to your PC, you will need to share it with those in your organization who need to have it installed. The best method is to download it to a shared drive, such as Google Drive, so others can use it during the installation process.	
12	Once the latest download is available on the Blue Rudge Mountain Drone Google Share Drive. Click these links to download the Drone2Map Installation.	1. ArcGIS Drone2Map_20261_200266 2. ArcGIS Coordinate Systems Data Windows 121_200093 You may receive this warning but download anyway 
13	If your computer does not have the Microsoft .NET Desktop Runtime (x64) 10.0.x, you need to do so. If you do not have this installed prior to installing Drone2Map, you will receive an error message stating the application requires Microsoft .NET Desktop Runtime (x64) 10.0x. It will then instruct you to download this and install it from the Microsoft ft website. <i>If this occurs, follow the instructions to download and install, and then rerun the Drone2Map installation program.</i>	3. dotnet-sdk-6.0.418-win-x64 

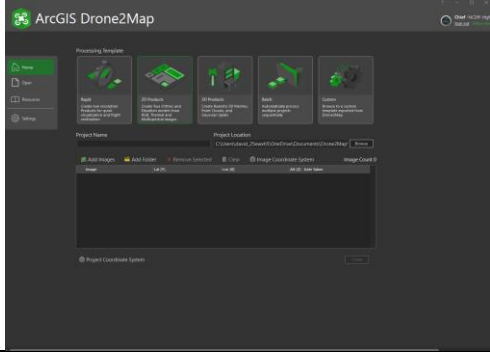
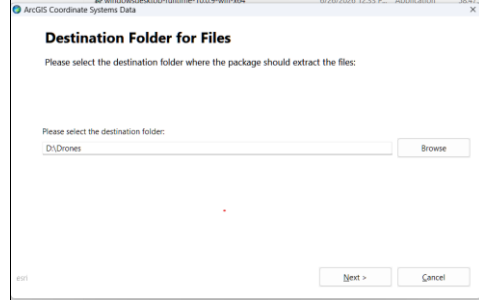
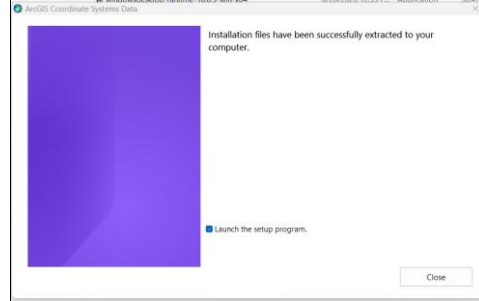
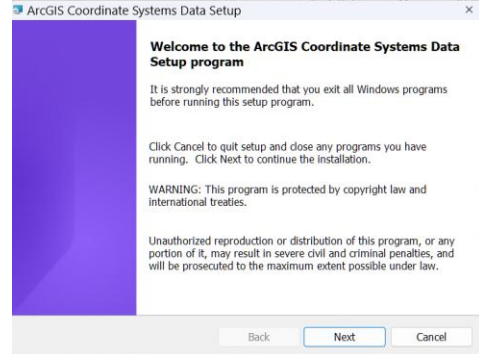
Install the Esri Drone2Map application

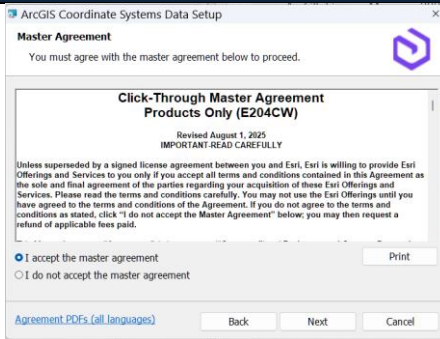
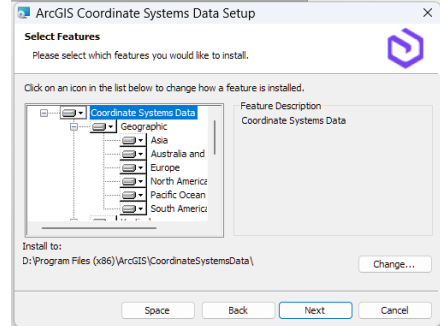
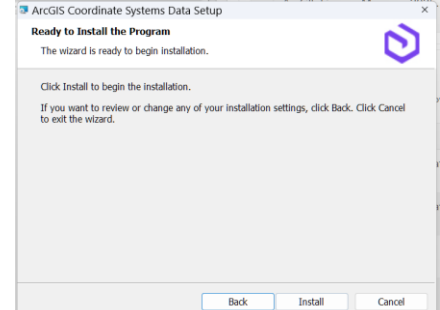
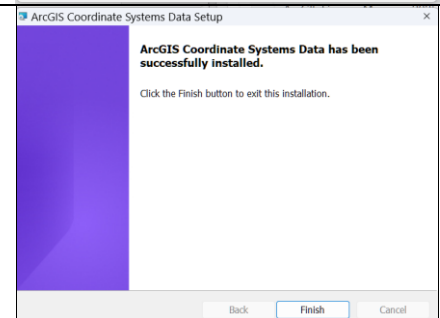
Step	Instruction	Visual Aide
1	Go to your Download folder or the designated location for downloads and double-click the file “ArcGIS Drone2Map”xxxx xxxxx.exe”.	
2	On startup of the installation, you will be asked to specify the location you desire the program to be installed. You can select a specific location or use the default provided. Then click Next to proceed with the installation.	
3	The screen will display the installation progress.	
4	Once the installation is complete, the display will show the “ <i>Launch the setup program</i> ” option. Ensure it is checked, a then click “Close” to proceed.	
5	The ArcGIS Drone2Map Setup screen will appear. Click Next to begin the program installation.	

Step	Instruction	Visual Aide
6	The "Welcome to the ArcGIS Drone2Map Setup Program" screen will appear. Click "Next" option to begin the process	
7	The Master agreement form will display, Select "I accept the master agreement" and then the "Next>" option is enabled. Select that tab to continue.	
8	The next screen will ask if you want to be the only user or allow others. Leave the default of "Anyone who uses this computer (all users)" and then click the "Next>" tab to	
9	Your screen will display this: The Destination folder option will be displayed. Leave this as the default unless you have a dedicated location or drive you to want this application to be installed. For most PC, the default location works best. Click "Next>" to continue.	

Step	Instruction	Visual Aide
10	The following screen will display. Just click “ Install ” to begin	
11	The installation will begin. This is a big program that may take some time to complete. Be patient. (You may be asked if you want to allow this app to make changes to your PC. Just select “yes” and the installation will start then.) .	
12	Once Esri Drone2Map has completed installation, you will see this display. Leave the “ Run ArcGIS Drone2Map now ” selected and click the “ Finish ” tab.	
14	The ArcGIS Drone2Map initialization will display.	

Step	Instruction	Visual Aide
15	If asked to sign in, use your ArcGIS Login. Use the username provided in the email you received from the Pathway specialist or the CTE program area specialist, and the password you selected when completing your online setup.	 The image shows the 'ArcGIS Sign In' dialog box. It has a title bar 'ArcGIS Sign In' and a subtitle 'ArcGIS Drone2Map wants to access your ArcGIS Online account information'. Below this, it says 'Sign in with' and 'esri'. There are input fields for 'Username' and 'Password', a 'Sign In' button, and a 'Cancel' button. Below the buttons, it says 'Forgot username? or Forgot password?'. At the bottom, there is a dropdown for 'Your ArcGIS organization's URL' and social media icons for GitHub, Facebook, Google, and YouTube. A 'Privacy' link is at the bottom right. At the very bottom, there are checkboxes for 'Sign me in automatically' and 'Configure your licensing options'.
16	The Drone2Map program is now installed, and you are ready to use the application.	 The image shows the main interface of the ArcGIS Drone2Map application. It has a dark theme. On the left is a sidebar with icons for Home, View, Resources, and Settings. The main area is titled 'Processing Templates' and shows several icons for different processing tasks. Below this is a 'Project Name' field and a 'Project Location' field. There are buttons for 'Add Images', 'Add Folder', 'Remove Selected', 'Clear', 'Image Coordinate System', and 'Image Cloud ID'. At the bottom, there is a 'Project Coordinate System' dropdown.
17	Always make sure you have the latest update. <i>If your software is not up to date, you may receive additional instructions to update your application.</i> Click the “Settings” on left and you will see this: <i>You can also click on Settings on the left and then About to check and see if software is up to date. If not, follow the instructions.</i> Follow instruction if updates are needed “The back arrow in the upper left corner” will place you back on the main page.	 The image shows the 'About Drone2Map' dialog box. It has a title bar 'About Drone2Map' and a sidebar with icons for Home, View, Resources, and Settings. The main area shows 'Product Information' for 'Drone2Map 2020.1.0' with copyright information. It also has a 'License' section and a 'Check for updates' button.
		 The image shows the 'Download Manager' dialog box. It has a title bar 'Download Manager' and a green header with the ArcGIS Drone2Map logo. It says 'Updating ArcGIS Drone2Map'. There is a progress bar and buttons for 'Pause' and 'Cancel'.
		 The image shows the 'ArcGIS Drone2Map' configuration dialog box. It has a title bar 'ArcGIS Drone2Map' and a blue header with the ArcGIS Drone2Map logo. It says 'Please wait while Windows configures ArcGIS Drone2Map'. Below this, it says 'Gathering required information...' and has a progress bar and a 'Cancel' button. At the bottom, there is a 'Download Manager' dialog box with a blue header and a message 'Update succeeded, start the application?'. It has 'Yes' and 'No' buttons.

Step	Instruction	Visual Aide
18	Your program is now fully installed.	
19	The final step is to install the ArcGIS Coordinated Systems Data we downloaded previously. Run the Installation file using this link:	<i>ArcGIS_Coordinate_Systems_Data_Windows_121_200093</i>
20	Ensure the application will be located in the same file as before and click “Next”	
21	Follow the similar instruction until you see the following and then click “Close”	
22	Once application is ready to install you will click “”	

Step	Instruction	Visual Aide
23	Accept the agreement and click “Next”	
24	Select the Location you stated the data set and click “Next”	
25	The following screen will appear. Click “Install” to begin	
26	Once completely installed, you will see this screen: click “Finish” and we are done with the installation of Drone2Map	

7. Optional Installation Packages

Package	Install When	What Happens If Missing
ArcGIS Coordinate Systems Data	Recommended when projects need additional geographic datum or vertical transformation options.	Some transformations may not be available, which can affect advanced accuracy workflows.

Deep Learning Libraries	Needed for automated ground control point linking and processing Gaussian splats.	Those functions are disabled.
DJI Camera Support	Needed for specific DJI thermal infrared camera workflows.	Drone2Map may report relative brightness values instead of temperature units for those cameras.
ArcGIS Raster Data	Useful for offline workflows that need a backup global elevation model.	The backup elevation model is not available by default in the Contents pane.

Post-Installation Verification

1. Open Drone2Map from the desktop or Start menu.
2. Sign in with the teacher account.
3. Confirm no license or authorization warning appears.
4. Open Settings or About and check for available software updates.
5. Create or open a small test project to confirm the application reaches the project screen.
6. Confirm the project folder is on a local internal drive or SSD.
7. If optional Coordinate Systems Data was installed, confirm the expected coordinate transformations are available in a project workflow.
8. Repeat sign-in and launch verification on each student workstation before class.

Troubleshooting Guide

Problem	Likely Cause	Fix
Installer will not start or stops early	Missing admin rights, blocked installer, or missing prerequisite.	Run as administrator, unblock trusted installer if needed, install .NET 10 x64 and WebView2 132+ first.
Runtime error mentions .NET	Wrong .NET major version or runtime missing.	Install Microsoft .NET Desktop Runtime 10.0.0 or later patch release using Windows x64 installer.
Sign-in works but Drone2Map will not	License not provisioned or wrong portal/organization.	Have the ArcGIS administrator assign Drone2Map or Reality Mapping

authorize		license and verify user type/role.
Cannot download from My Esri	User is not connected to the organization or lacks download permission.	Use pathway specialist/state representative/organization administrator account.
Processing is slow in class	Computer meets only minimum specs, dataset too large, or project is on slow/cloud storage.	Use smaller training dataset, local SSD, and teacher demonstration computer with recommended specs.
Optional tool is missing	Optional package not installed.	Install the needed optional package from My Esri on that machine.

Teacher Go/No-Go Before Class

- Go: Drone2Map opens on teacher and student computers.
- Go: Teacher and test student accounts can sign in and authorize the application.
- Go: Sample imagery is stored locally and can be selected from Drone2Map.
- Go: The class dataset size matches lab computer capability.
- No-go: Any machine still depends on the old .NET 6, .NET 8, Windows 10, or WebView2 117 guidance from the April manual.
- No-go: Students are expected to process from OneDrive, Google Drive, USB drives, or unverified network storage.

Source List

- Esri ArcGIS Drone2Map system requirements: <https://doc.esri.com/en/arcgis-drone2map/latest/get-started/arcgis-drone2map-system-requirements.html>
- Esri install and authorize named user licenses: <https://doc.esri.com/en/arcgis-drone2map/latest/get-started/install-and-authorize-named-user-licenses.html>
- Esri optional installation packages: <https://doc.esri.com/en/arcgis-drone2map/latest/get-started/optional-installation-packages.html>