

MIKE+

Installation Guide



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1 Introduction

This installation guide covers the installation of MIKE+ and required 3rd party software.

MIKE+ can be deployed in different ways using local SQLite database or a PostgreSQL database server – ranging from a personal installation to a corporate installation.

For PostgreSQL, you have these two options:

1. Personal installation, which allows users to work in a network-independent mode on their desktop. This requires the installation of a database on the local computer.
2. Corporate installation, which allows for an office to have multiple installations (clients) all working against a central database server.

Furthermore, ArcGIS Pro may optionally be also installed, when purchased as part of MIKE+ ArcGIS.

2 Installation Prerequisites

MIKE+ depends on several prerequisites as listed below:

1. If you want to use a local SQLite database, SQLite database with a SpatiaLite extension is required. It is included in the MIKE+ installer and will be installed automatically with MIKE+.
2. If you want to use a PostgreSQL database, a PostgreSQL database server with the PostGIS spatial database extension is required. The installers of PostgreSQL and PostGIS are included in a separate "Prerequisites" sub-folder of the MIKE+ installation. MIKE+ supports the following versions of the two products: PostgreSQL 15.2 and PostGIS 3.3.2. Combinations of later versions may also work, but have not been tested.
3. The DHI License Management application. It may need to be downloaded separately from the MIKE+ installer depending on the type of DHI license you plan to use. Refer to chapter 4 for more information.
4. .NET framework 4.7.2 or higher. Microsoft .NET Desktop Runtime 6.0.5, or a later patch release, is also required for ArcGIS Pro 3.1.

3 MIKE+ Installation/Upgrade

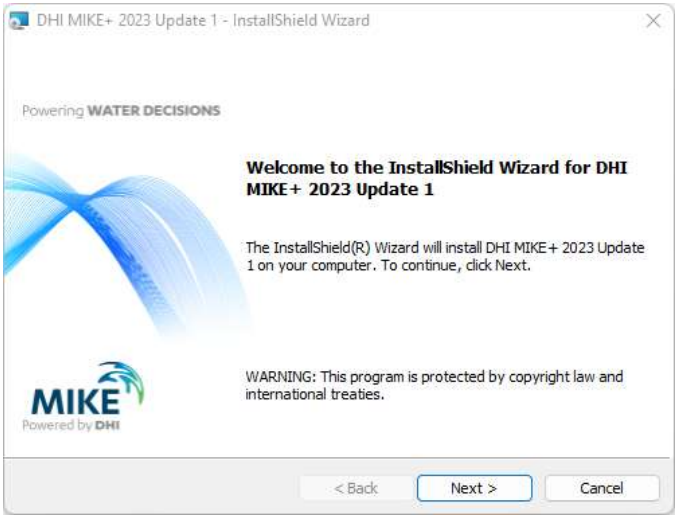
The installation process consists of four parts.

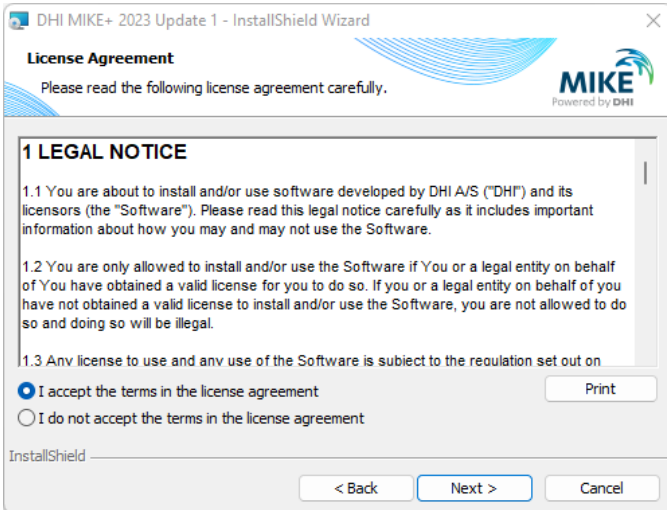
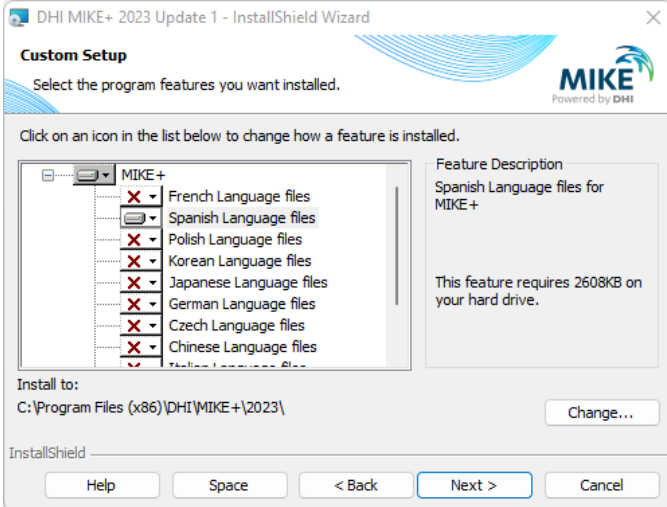
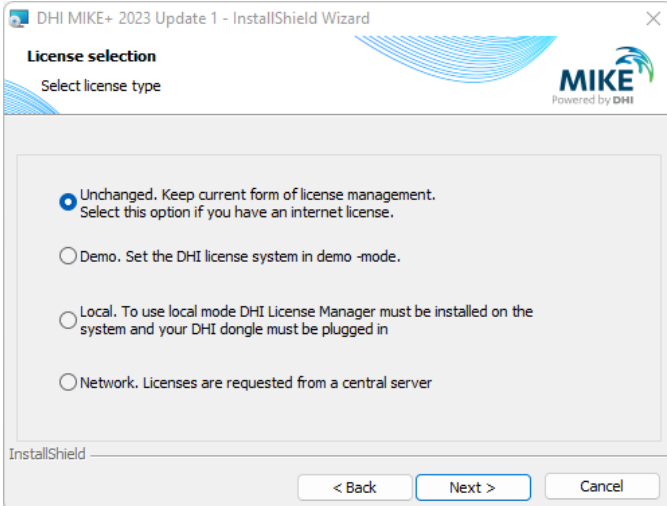
1. Installation of MIKE+.
2. Optional installation of DHI License Management.
3. Optional installation of PostgreSQL and PostGIS.
4. Optional installation of ArcGIS Pro.

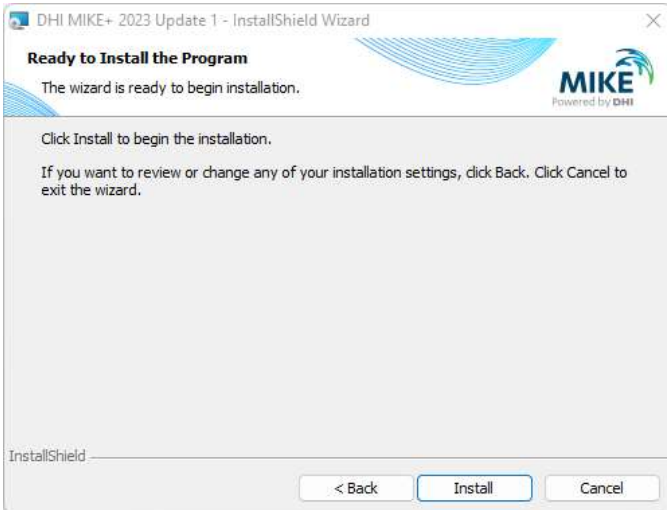
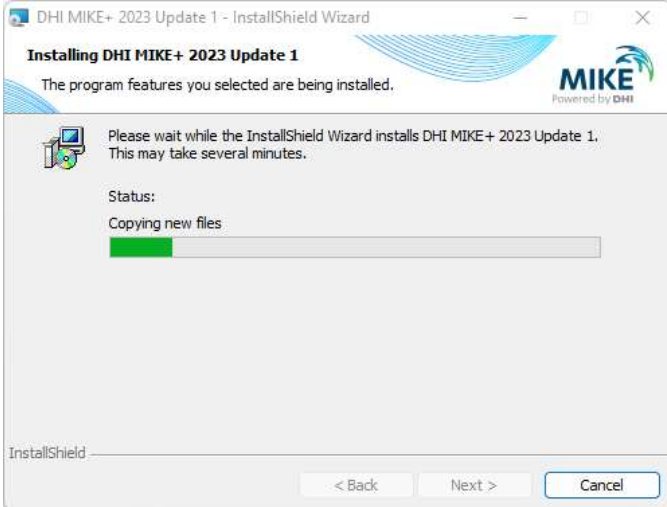
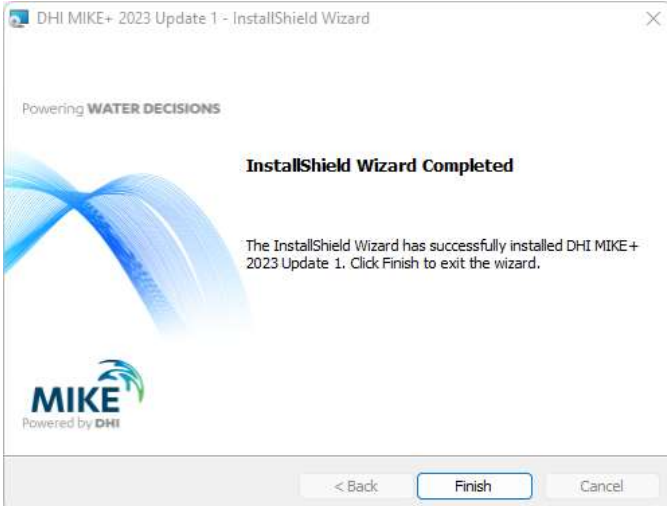
Installation of MIKE+ software is simple and requires no user interactions beyond accepting the license conditions, specifying the installation folder and languages that should be installed besides English, and includes installation of the personal database SQLite with a Spatialite extension.


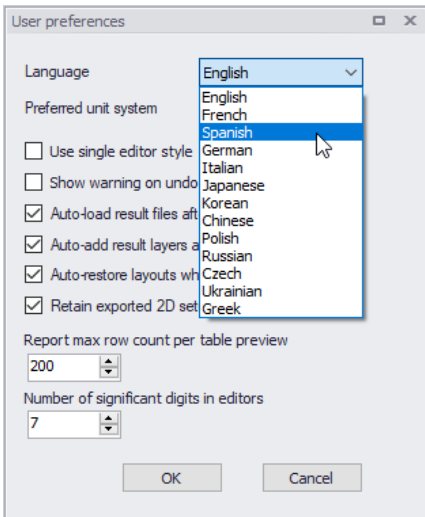
The following table explains how to install MIKE+.

If you need to install or update the DHI License Management, follow the steps described in chapter 4. If you need to install or update the version of PostgreSQL and PostGIS, follow the steps described in APPENDIX A. If you need to install ArcGIS Pro, follow the steps described in APPENDIX D.

Installation step	Screen
<p>Run the <i>setup.exe</i> program file from the installation media/download folder, in the 'MIKE+' folder.</p> <p>Click Next</p>	

Installation step	Screen
<p>Accept the license agreement</p> <p>Click Next</p>	
<p>Select the languages you want to install on the computer (besides English)</p> <p>Click Next</p>	
<p>Select the license type. This may be modified after the installation if required.</p> <p>Click Next</p>	

Installation step	Screen
<p>Click Install</p>	
<p>Wait</p>	
<p>Click Finish</p>	


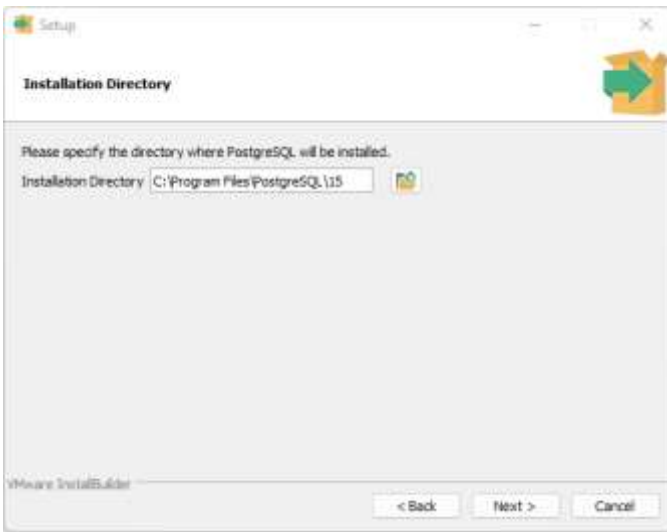
Installation step	Screen
<p>If you have installed another language than English, Open MIKE+ to finish the language configuration.</p>	
<p>Go to the File menu, and select User preferences. Select the desired language, and close MIKE+.</p>	

APPENDIX A: Install PostgreSQL and PostGIS

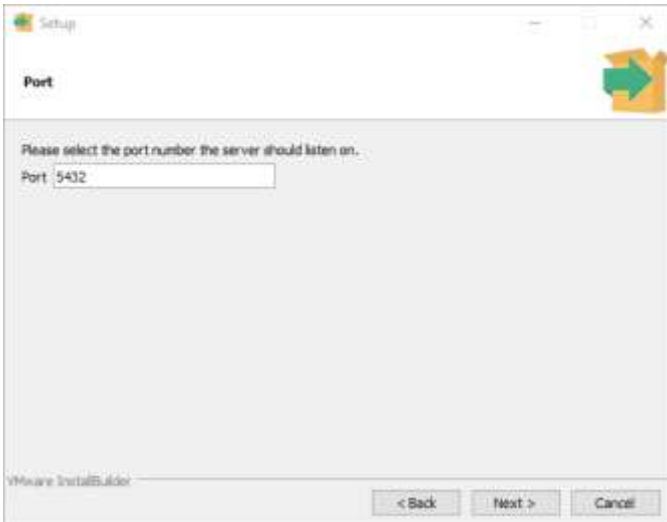
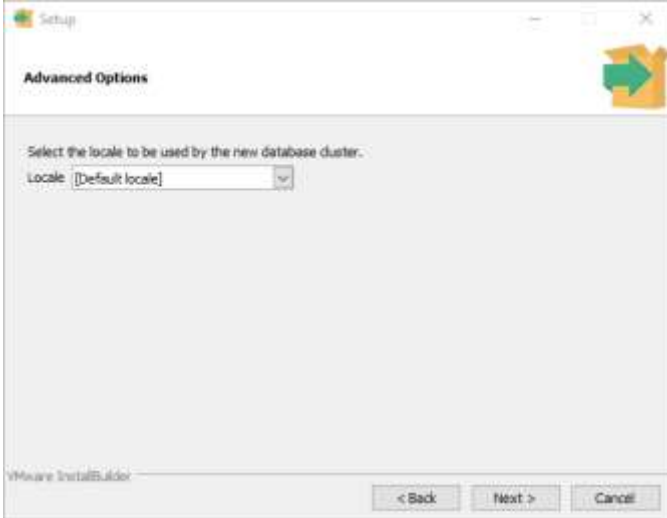
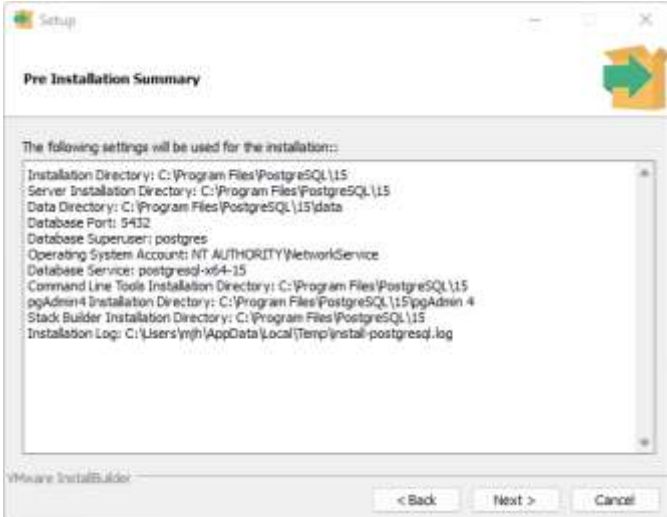
As mentioned in Chapter 2, it is possible to use a PostgreSQL database.

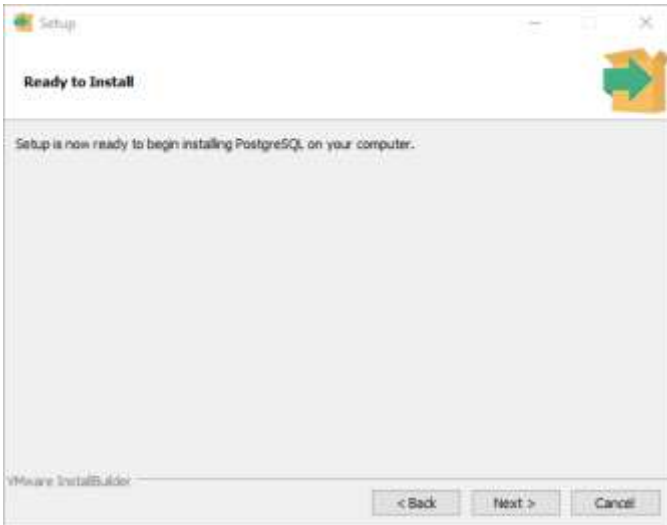
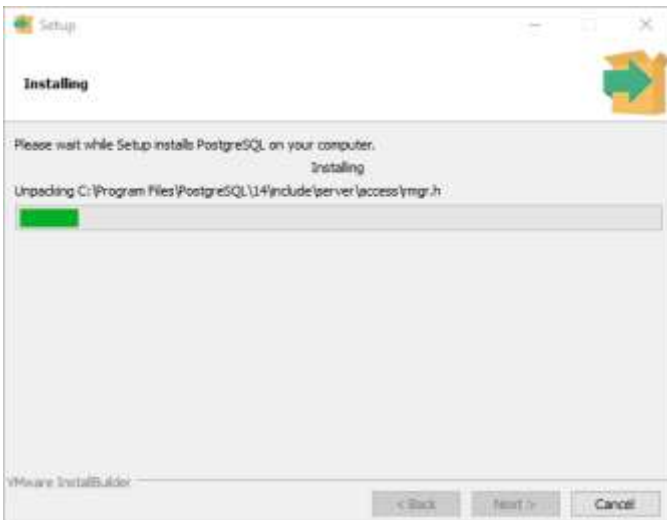
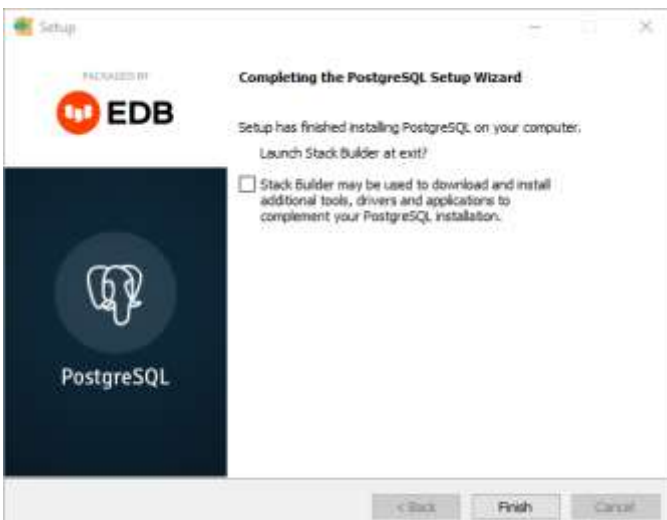
PostgreSQL Installation

The following table explains how to install a PostgreSQL database. The postgresql-xx.x-x-windows-x64.exe installer is located in the “Prerequisites” sub-folder of the MIKE+ installation.

Installation step	Screen
Run the database installation program e.g. postgresql-xx.x-x-windows-x64.exe	
Start of installation Click Next	 <p>The screenshot shows the 'Setup - PostgreSQL' window. It features the EDB logo and the PostgreSQL elephant logo. The text reads 'Welcome to the PostgreSQL Setup Wizard.' At the bottom, there are buttons for '< Back', 'Next >', and 'Cancel'.</p>
Accept the default installation folder Click Next	 <p>The screenshot shows the 'Setup - PostgreSQL' window at the 'Installation Directory' step. It asks the user to specify the directory where PostgreSQL will be installed. The 'Installation Directory' field is pre-filled with 'C:\Program Files\PostgreSQL\15'. At the bottom, there are buttons for '< Back', 'Next >', and 'Cancel'.</p>

Installation step	Screen
<p>Accept the default selected components.</p> <p>Click Next</p>	
<p>Accept the default data folder.</p> <p>Click Next</p>	
<p>Type in a password for the postgres user (the administrator for the database server).</p> <p>Click Next</p>	

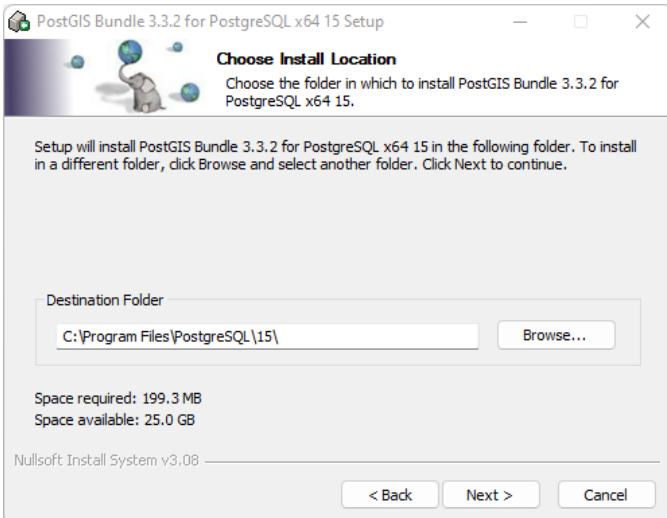
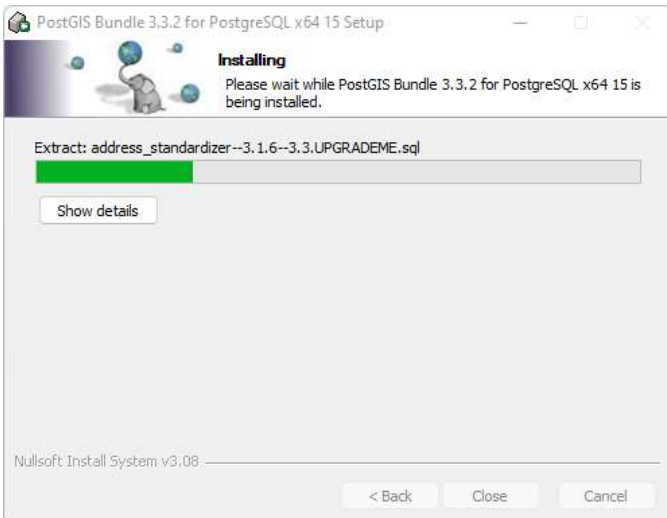
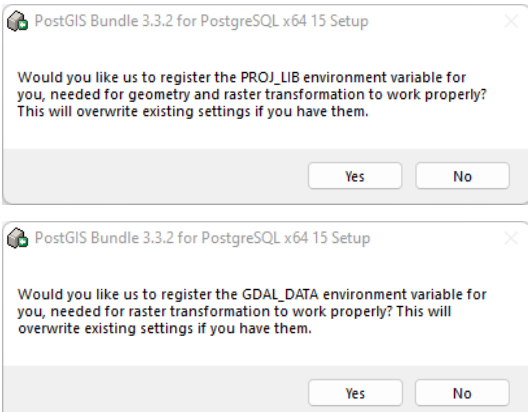
Installation step	Screen
<p>Accept the default port number (5432)</p> <p>Click Next</p>	
<p>Leave the "Locale" as "Default Locale"</p> <p>Click Next</p>	
<p>Verify the installation summary.</p> <p>Click Next</p>	

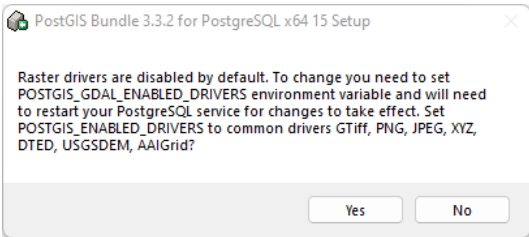
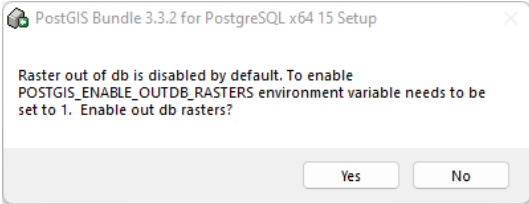
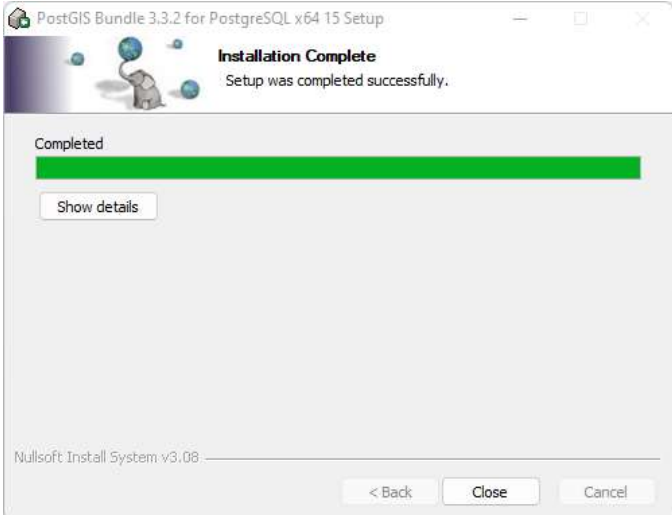
Installation step	Screen
<p>Click Next</p>	
<p>Installing</p>	
<p>The database server installation has finished</p> <p>Click off the “Launch Stack Builder at exit?” option and then click Finish</p>	

PostGIS Installation

The following table explains how to install PostGIS database extension. The postgis-bundle-pg14x64-setup-x.x.x-x.exe installer is located in the “Prerequisites” sub-folder of the MIKE+ installation.

Installation step	Screen
Run the PostGIS installation program (e.g. postgis-bundle-pg14x64-setup-x.x.x-x.exe)	
<p>Start of installation</p> <p>Click I Agree</p>	
<p>Leave “Create spatial database” unchecked.</p> <p>Click Next</p>	

Installation step	Screen
<p>Accept the default folder.</p> <p>Click Next</p>	 <p>The screenshot shows the 'Choose Install Location' dialog box. It asks the user to choose the folder for installation. The 'Destination Folder' is set to 'C:\Program Files\PostgreSQL\15\'. Below the folder field, it indicates 'Space required: 199.3 MB' and 'Space available: 25.0 GB'. At the bottom, there are '< Back', 'Next >', and 'Cancel' buttons.</p>
<p>Installing</p>	 <p>The screenshot shows the 'Installing' dialog box. It displays a progress bar for the extraction of 'address_standardizer--3.1.6--3.3.UPGRADEME.sql'. Below the progress bar is a 'Show details' button. At the bottom, there are '< Back', 'Close', and 'Cancel' buttons.</p>
<p>Click Yes to register the PROJ_LIB and GDAL_DATA environment variables</p>	 <p>The first dialog box asks: 'Would you like us to register the PROJ_LIB environment variable for you, needed for geometry and raster transformation to work properly? This will overwrite existing settings if you have them.' It has 'Yes' and 'No' buttons.</p> <p>The second dialog box asks: 'Would you like us to register the GDAL_DATA environment variable for you, needed for raster transformation to work properly? This will overwrite existing settings if you have them.' It also has 'Yes' and 'No' buttons.</p>

Installation step	Screen
<p>Click Yes</p>	
<p>Click Yes</p>	
<p>The installation has finished Click Close</p>	

APPENDIX B: Advanced PostgreSQL Database management tool

The PostgreSQL database password provided during installation can be stored in the database for easy access in the future. It is an optional configuration.

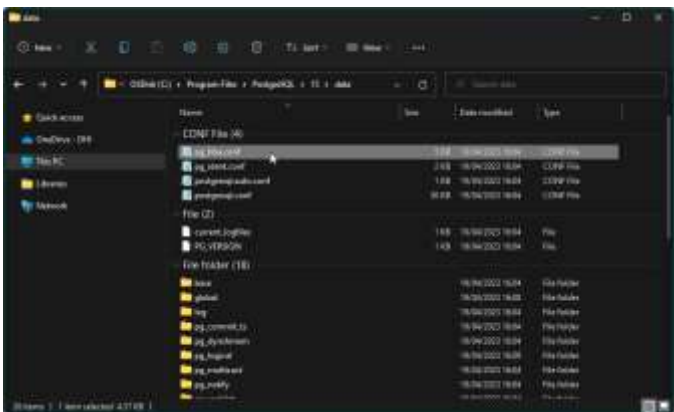
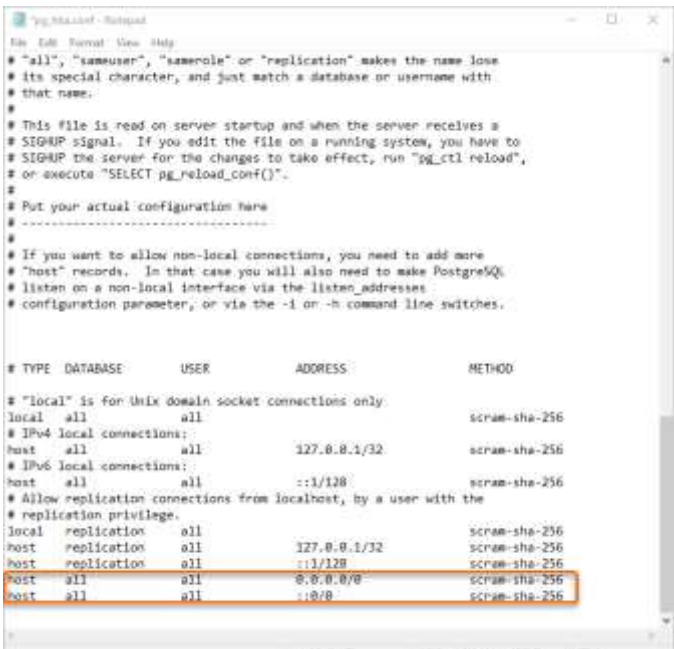
Installation step	Screen
<p>Start the pgAdmin 4 database administration tool from the Windows Start menu</p>	<p>A screenshot of the Windows Start menu search interface. The search bar at the top contains the text 'Type here to search'. Below the search bar, a list of 'All apps' is displayed. The items include 'Phone Link', 'Photos', 'PostGIS Bundle 3 for PostgreSQL v64-15', 'PostgreSQL 15', 'Application Stack Builder', 'Installation notes', 'pgAdmin 4', 'pgAdmin documentation', 'PostgreSQL documentation', 'PostgreSQL release notes', and 'Reload Configuration'. The 'pgAdmin 4' item is highlighted with a mouse cursor.</p>
<p>In the left panel, expand the list of servers</p>	<p>A screenshot of the pgAdmin 4 application window. The 'Servers' tree view on the left is expanded, showing a list of server groups. The main window area displays a 'Welcome' message for pgAdmin, including the logo and a brief description of the tool's features.</p>
<p>It will request a password to connect to the database. If this window doesn't show up, right click the database server and select "Connect Server"</p> <p>Provide the password for the postgres user and tick on the "Save Password" option</p> <p>Click OK</p>	<p>A screenshot of the 'Connect to Server' dialog box in pgAdmin. The dialog has a title bar that says 'Connect to Server'. The main text reads: 'Please enter the password for the user 'postgres' to connect the server - 'PostgreSQL 14''. Below this, there is a 'Password' input field with a masked password '*****'. There is a checked checkbox labeled 'Save Password'. At the bottom right, there are 'Cancel' and 'OK' buttons.</p>

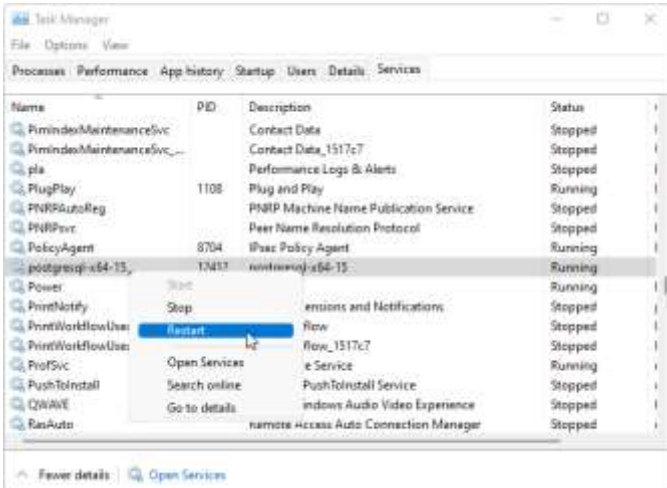
APPENDIX C: Configuring the PostgreSQL Database Server for remote access

IMPORTANT: This is only needed if the database server shall accept connection from remote computers.

The section describes how to configure the PostgreSQL database server for running in corporate mode.

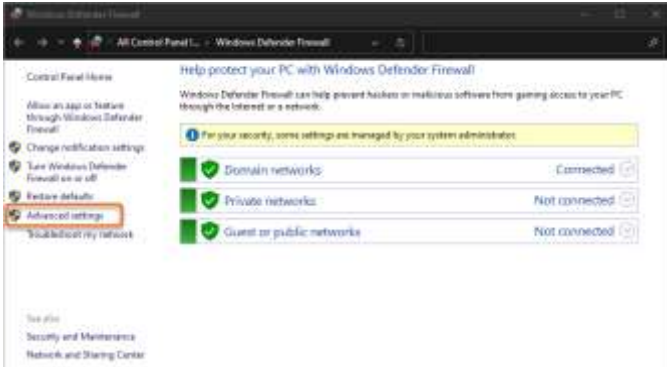
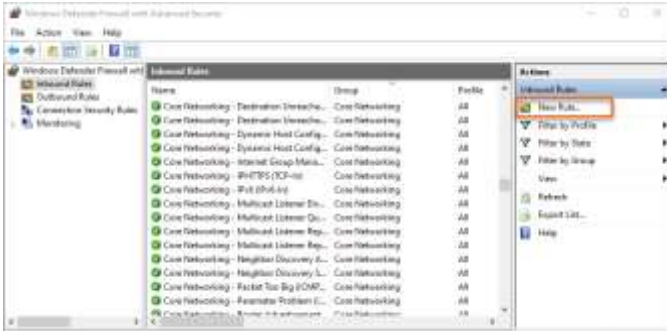
Start by enabling password save as shown in APPENDIX B.

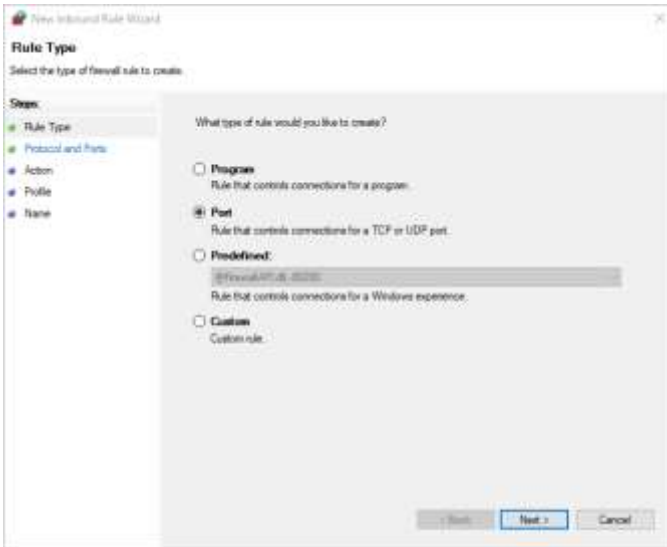
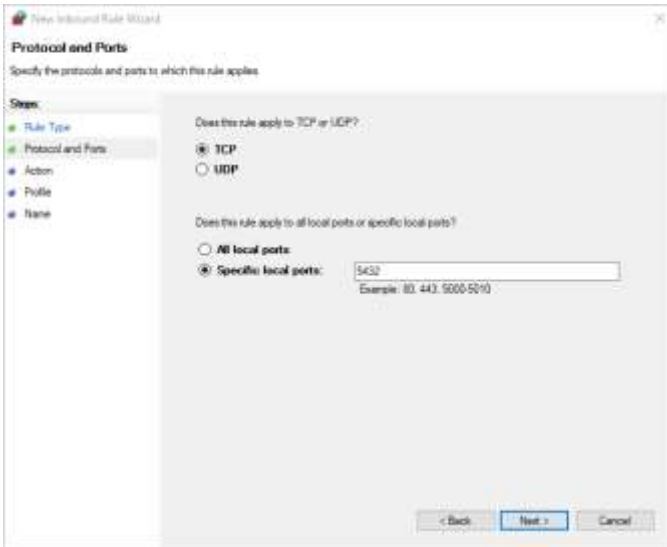
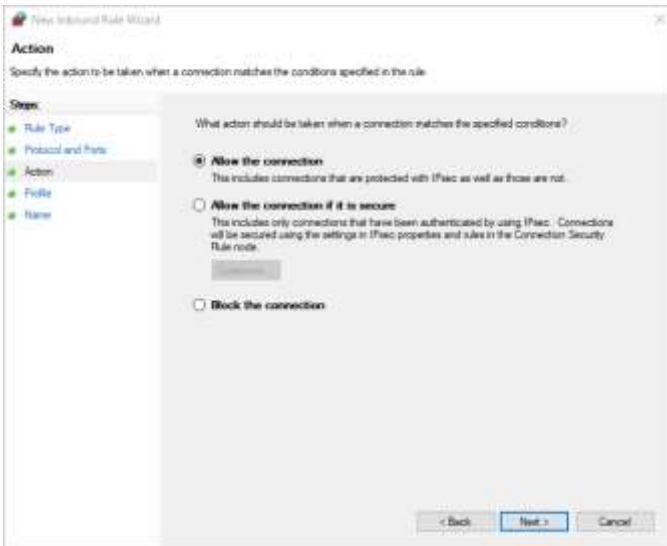
Installation step	Screen
<p>Locate the <code>pg_hba.conf</code> file in the data folder (<code>C:\Program Files\PostgreSQL\15\data</code>) and open it in an editor e.g. Notepad</p>	
<p>Insert new line(s) to open up for all non-local connections to database as shown on the right</p> <p>Open for IPv4:</p> <pre>host all all 0.0.0.0/0 scram-sha-256</pre> <p>Open for IPv6:</p> <pre>host all all ::0/0 scram-sha-256</pre> <p>Adjust spaces!</p> <p>Save the configuration.</p>	

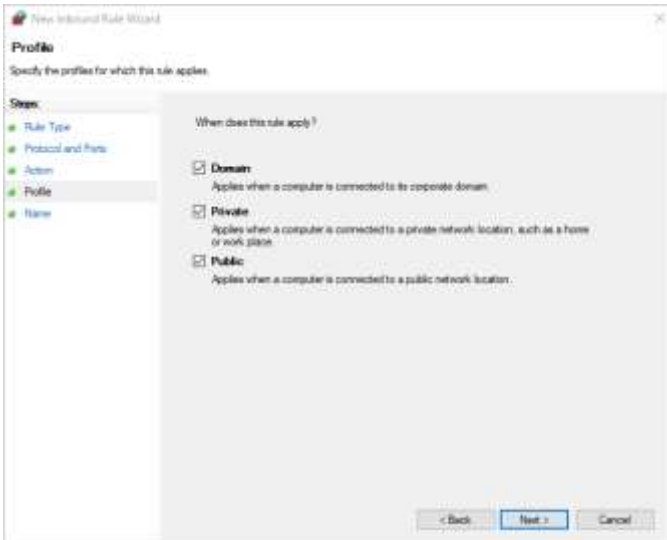
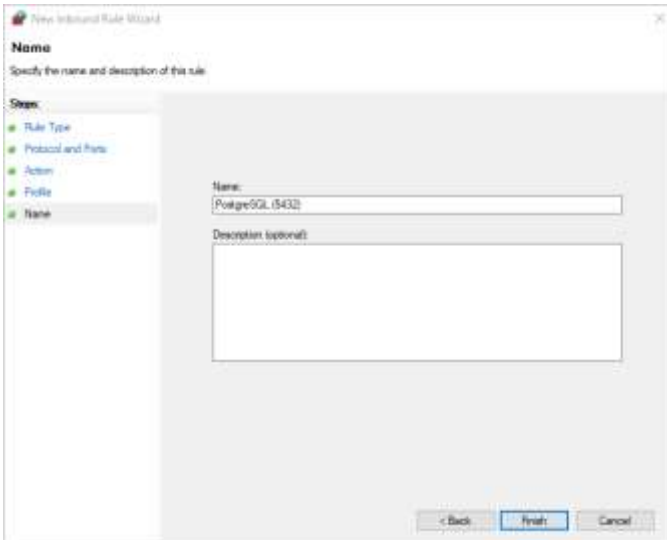
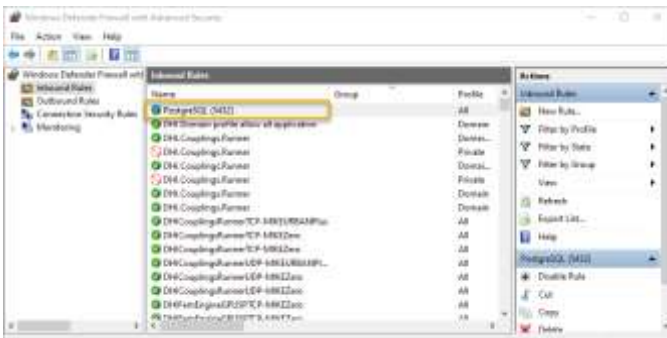
Installation step	Screen
<p>Open the Task Manager</p> <p>Restart the PostgreSQL services to apply the update.</p>	

Configuring the Windows Firewall for remote access to PostgreSQL

The section describes how to configure the Windows firewall for PostgreSQL running in enterprise mode.

Installation step	Screen
<p>Open the Firewall applet in the Windows Control Panel</p> <p>Click Advanced Settings</p>	
<p>Select Inbound Rules</p> <p>Click New Rule in the Actions panel to the right</p>	

Installation step	Screen
<p>Select Port</p> <p>Click Next</p>	 <p>New Inbound Rule Wizard</p> <p>Rule Type Select the type of firewall rule to create.</p> <p>Steps:</p> <ul style="list-style-type: none"> Rule Type Protocol and Ports Action Profile Name <p>What type of rule would you like to create?</p> <p><input type="checkbox"/> Program Rule that controls connections for a program.</p> <p><input checked="" type="checkbox"/> Port Rule that controls connections for a TCP or UDP port.</p> <p><input type="checkbox"/> Predefined: [Firewall Rule: 8080] Rule that controls connections for a Windows experience.</p> <p><input type="checkbox"/> Custom Custom rule.</p> <p>< Back Next > Cancel</p>
<p>Select TCP, Specific local ports and enter 5432 (or the port number specified when installing PostgreSQL)</p> <p>Click Next</p>	 <p>New Inbound Rule Wizard</p> <p>Protocol and Ports Specify the protocols and ports to which this rule applies.</p> <p>Steps:</p> <ul style="list-style-type: none"> Rule Type Protocol and Ports Action Profile Name <p>Does this rule apply to TCP or UDP?</p> <p><input checked="" type="radio"/> TCP <input type="radio"/> UDP</p> <p>Does this rule apply to all local ports or specific local ports?</p> <p><input type="radio"/> All local ports</p> <p><input checked="" type="radio"/> Specific local ports: 5432 Example: 80, 443, 5000-5010</p> <p>< Back Next > Cancel</p>
<p>Select Allow the connection</p> <p>Click Next</p>	 <p>New Inbound Rule Wizard</p> <p>Action Specify the action to be taken when a connection matches the conditions specified in the rule.</p> <p>Steps:</p> <ul style="list-style-type: none"> Rule Type Protocol and Ports Action Profile Name <p>What action should be taken when a connection matches the specified conditions?</p> <p><input checked="" type="radio"/> Allow the connection This includes connections that are protected with IPsec as well as those that are not.</p> <p><input type="radio"/> Allow the connection if it is secure This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node.</p> <p><input type="radio"/> Block the connection</p> <p>< Back Next > Cancel</p>

Installation step	Screen
<p>Click on for all profiles</p> <p>Click Next</p>	 <p>The screenshot shows the 'New Inbound Rule Wizard' dialog box at the 'Profile' step. The left sidebar has 'Profile' selected. The main area asks 'When does this rule apply?' with three checked options: 'Domain', 'Private', and 'Public'. The 'Next >' button is highlighted.</p>
<p>Specify a rule name – e.g. “PostgreSQL (5432)” – and a description</p> <p>Click Finish</p>	 <p>The screenshot shows the 'New Inbound Rule Wizard' dialog box at the 'Name' step. The left sidebar has 'Name' selected. The main area has a 'Name' text box containing 'PostgreSQL (5432)' and a larger 'Description (optional):' text box. The 'Finish' button is highlighted.</p>
<p>The new rule is now added to the list of Inbound rules</p>	 <p>The screenshot shows the 'Windows Firewall with Advanced Security' console. The 'Inbound Rules' list is visible, and the newly created rule 'PostgreSQL (5432)' is highlighted in yellow. The 'Action' pane on the right shows the rule's configuration.</p>


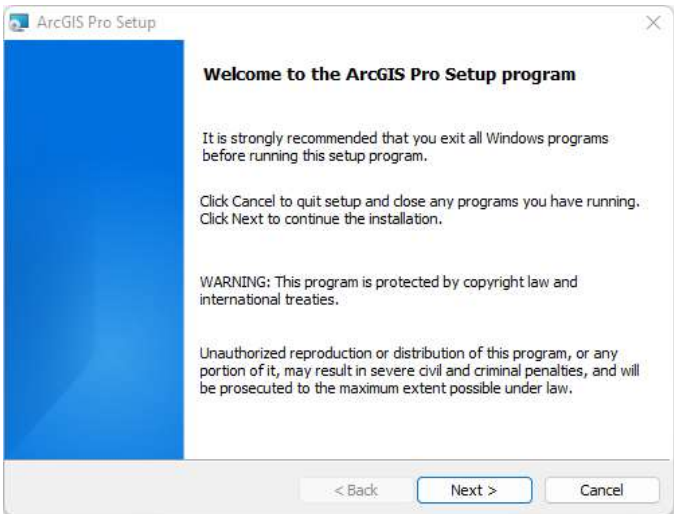
APPENDIX D: Install ArcGIS Pro


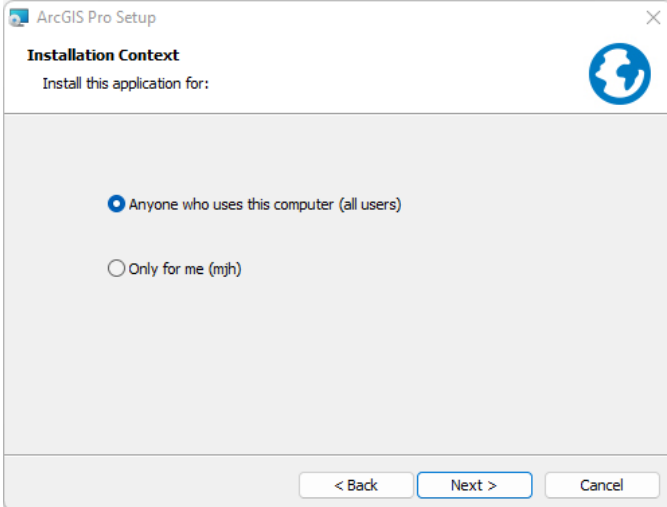
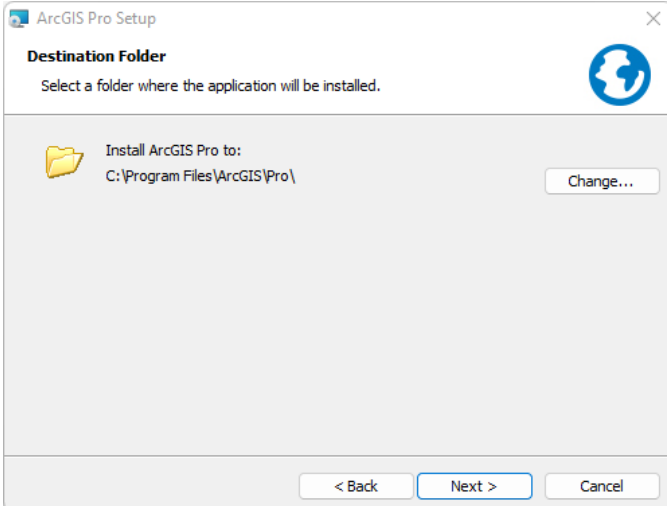
The ArcGIS Pro installation is carried out in two stages:

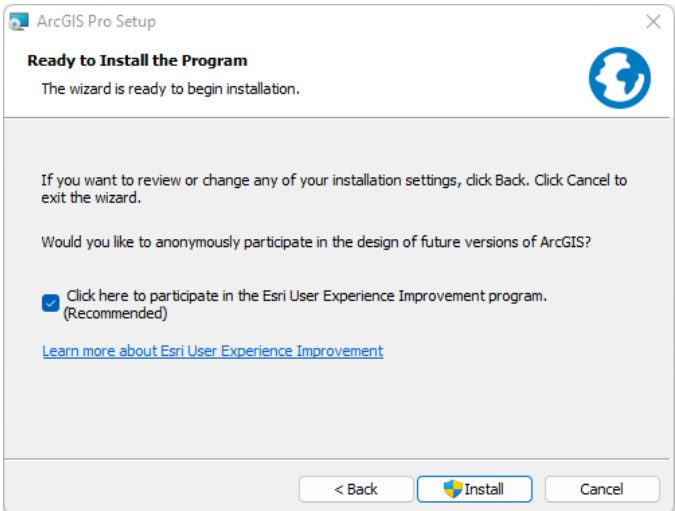
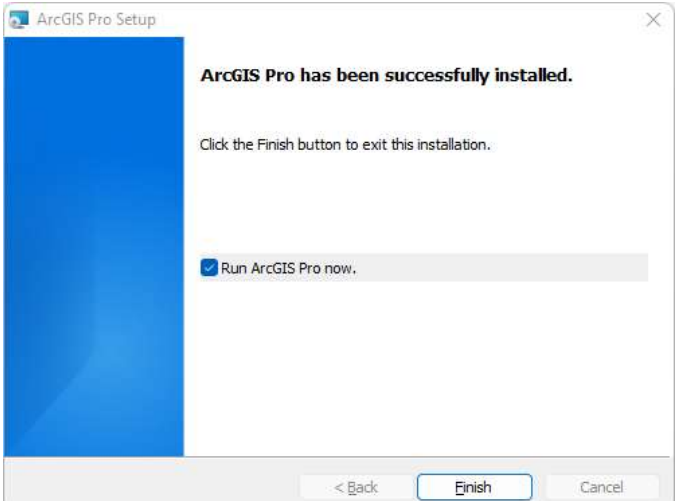
1. Installation of ArcGIS Pro.
2. Authorization of the license as named user (preferred option, applicable to single use as well as concurrent use licenses), or Concurrent license using EFL code or local license.

ArcGIS Pro Installation

The following table explains how to install ArcGIS Pro. The ArcGISPro.msi installer is located in the “Prerequisites” sub-folder of the MIKE+ installation.

Installation step	Screen
<p>Run the <i>ArcGISPro.msi</i> program file from the installation media/download folder, in the ‘ArcGIS Pro’ folder.</p> <p>Click Next</p>	
<p>Click Next</p>	

Installation step	Screen
<p>Select I accept the master agreement</p> <p>Click Next</p>	
<p>Select Anyone who uses this computer (all users)</p> <p>Click Next</p>	
<p>Click Next</p>	

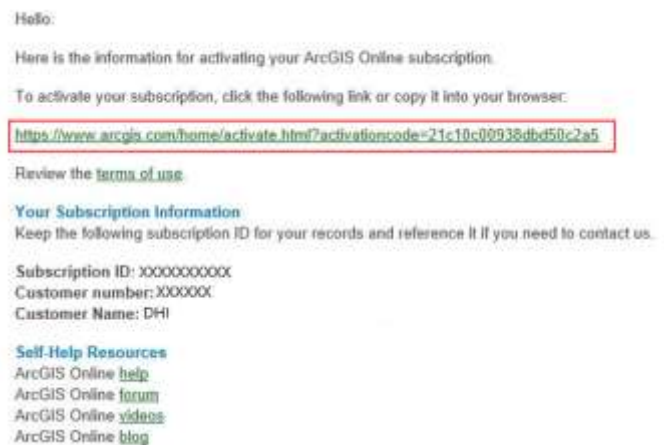

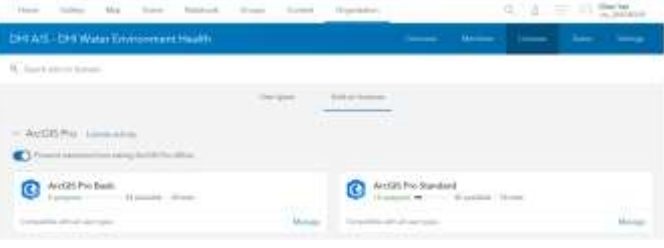
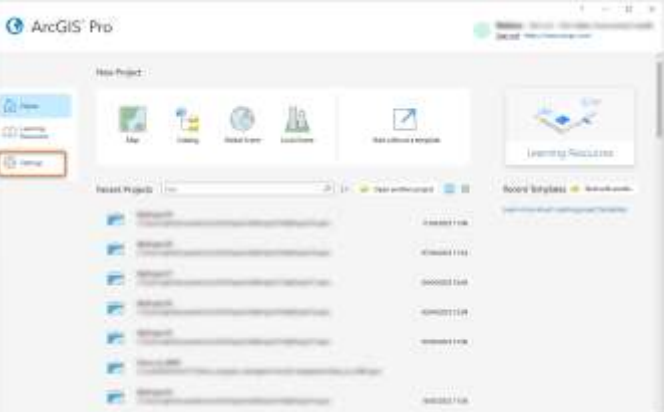
Installation step	Screen
<p>Click Install</p>	
<p>Click Finish</p>	




Authorization with a named user license

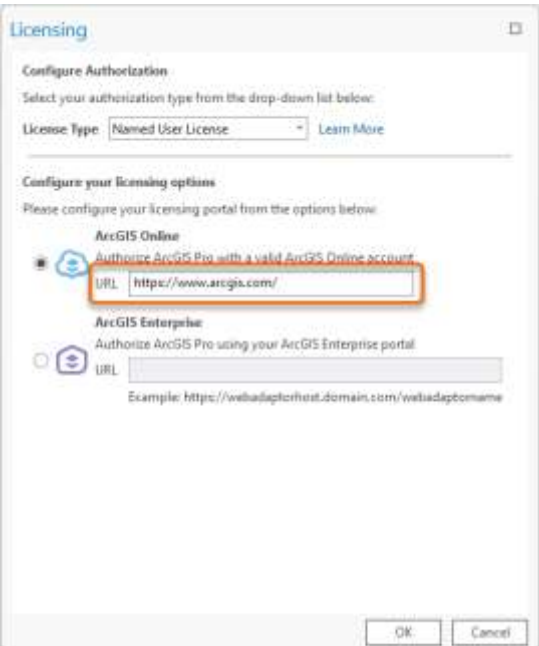
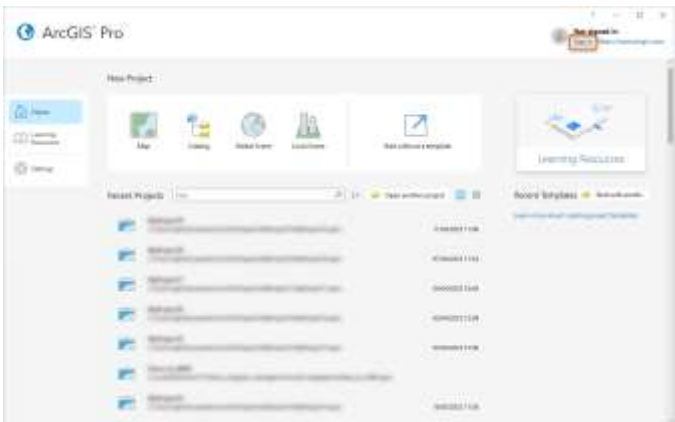

The named license (single use as well as concurrent use) provides an easy procedure for authorization and no physical license server is needed. If you have a named user license of ArcGIS Pro software, please follow these instructions to authorize the product.

To authorize a named user license, you must have received an activation e-mail. The first user in your organization activating the link will be assigned as 'company admin'. The activation link will lead the user to create an online portal where ArcGIS Pro licensing, adding / removing users and sharing projects / maps based on the cloud solution can be done.

To proceed with the authorization, make sure you have the activation e-mail ready and you are connected to the Internet.

Installation step	Screen
<p>Click on the activation link and follow the indications to create the Online portal for your organization</p> <p>To explore the functionality of ArcGIS online, click on ‘Self-Help Resources’</p>	
<p>The first user clicking on the activation mail will be assigned as company admin automatically. The company admin then invites members to join the online portal as well as assigning ArcGIS Pro license. The invitation letter to new member must be activated within 14 days.</p>	
<p>To assign ArcGIS Pro license to existing members, click on the tab 'License' \ 'Manage'.</p> <p>You can follow the video for demonstration basics on ArcGIS online from here.</p>	
<p>Activate your named user license on the local installation of ArcGIS Pro:</p> <p>Start ArcGIS Pro</p> <p>Click Settings</p>	

Installation step	Screen
<p>Click Licensing</p>	
<p>Click Configure your licensing options</p>	
<p>Select the license type 'Named User License'</p>	

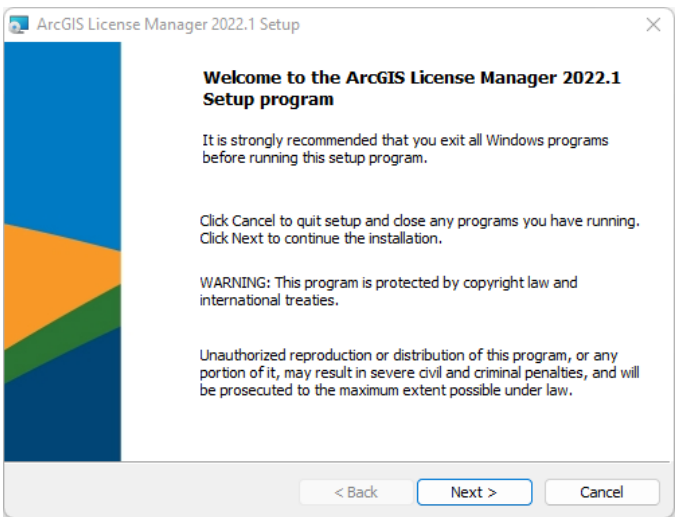

Installation step	Screen
<p>Select the license portal ArcGIS Online, with URL https://www.arcgis.com/</p> <p>Click OK</p>	
<p>Go back to the start page</p> <p>Click Sign in</p>	
<p>Enter your login and password</p> <p>Click Sign in</p>	

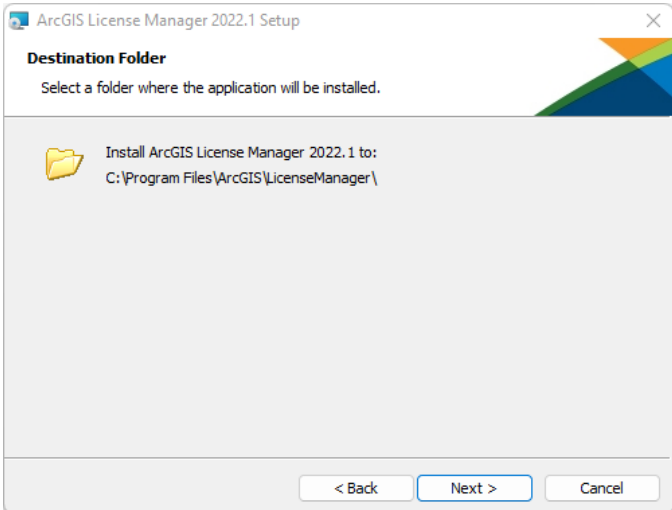
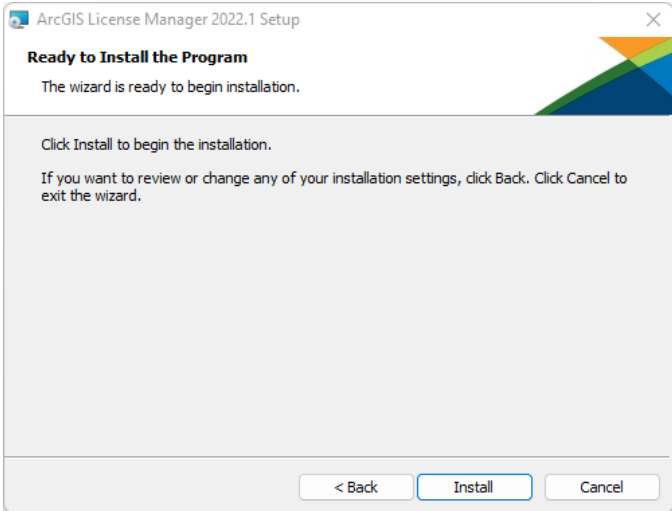
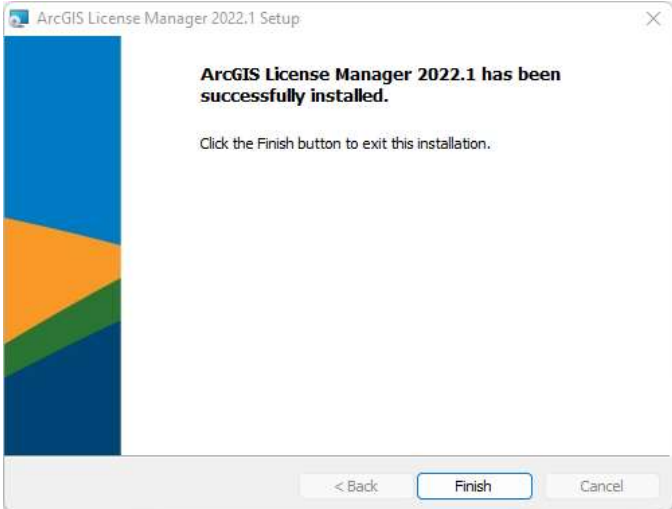
Authorization with a network license server and EFL code

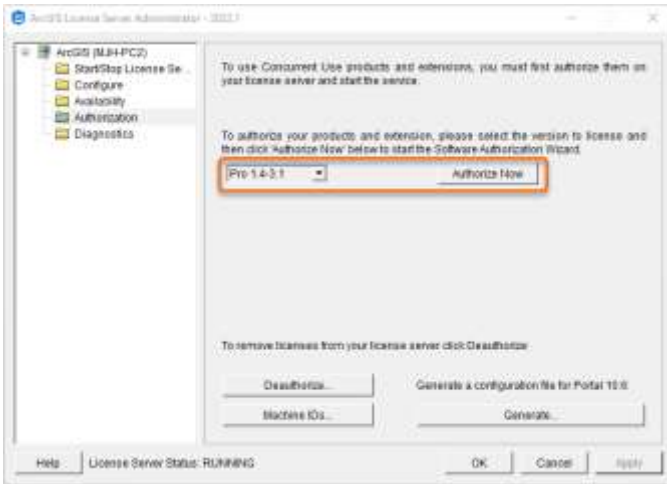
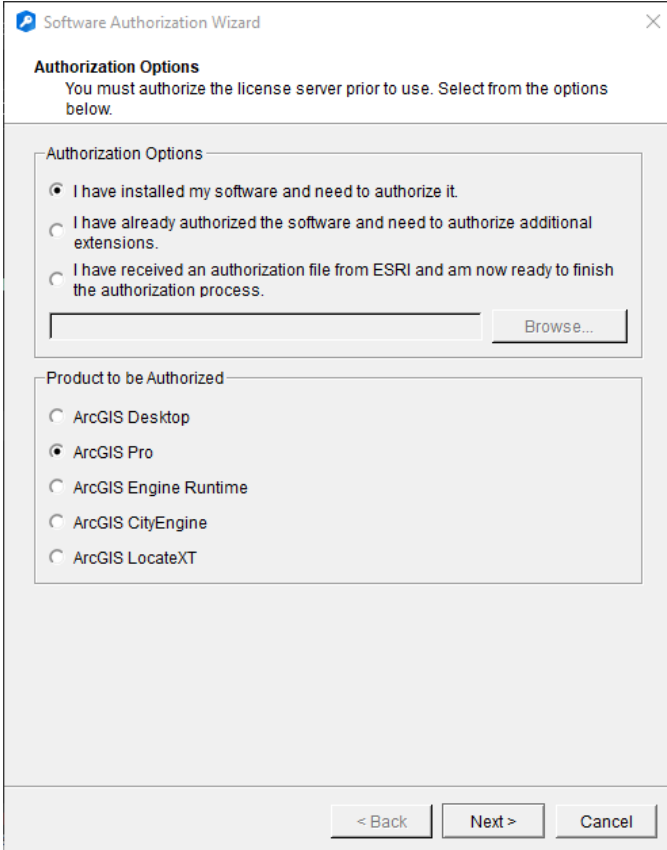
You have received a network license of ArcGIS Pro software with an ELF code (Concurrent use license, with format EFLXXXXXXXXX). Please follow these instructions to authorize the product.

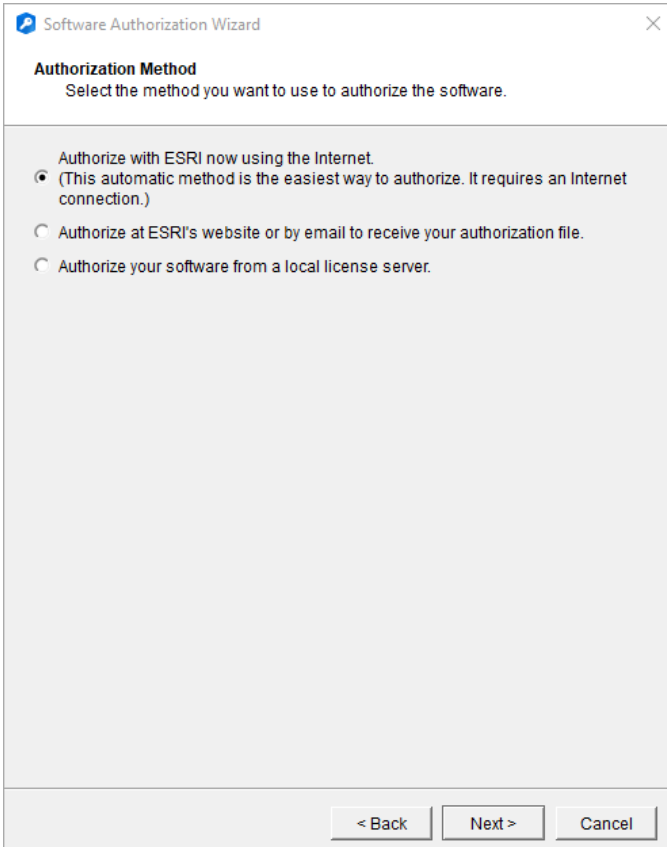
The ArcGIS License Manager in version 2022.1 or higher must be installed in order to make the licenses available. If you wish to use the software on your local PC without making it available in a network, you can install the license manager on the local PC. If you wish to use a setup where you use a local installation of ArcGIS Pro and acquire its license from a license server, you can install it on a server in your local network.

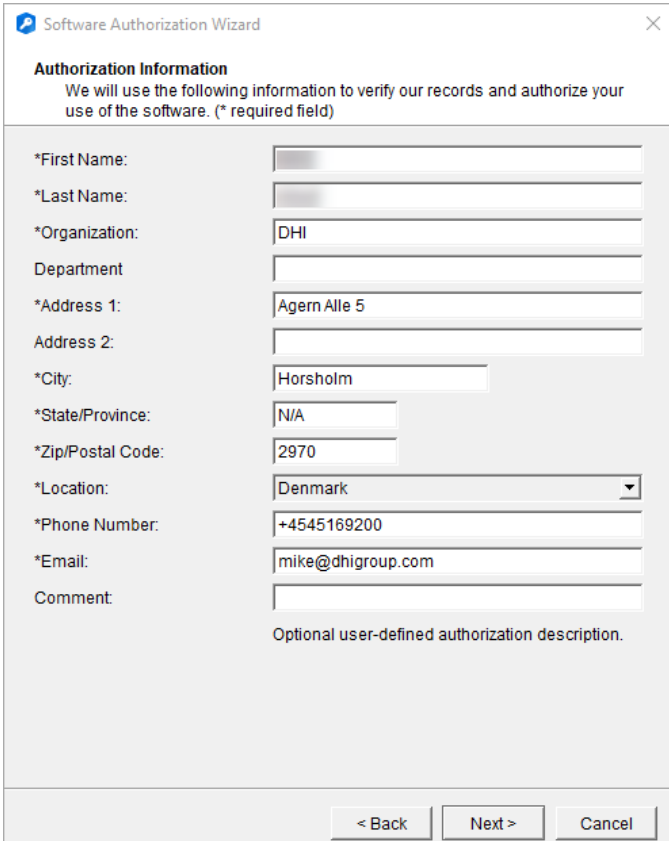
The corresponding installer is located in the “Prerequisites” sub-folder of the MIKE+ installation, under the folder ArcGIS License Manager 20XX.X. If you already have an older version installed, please install the newer version, then the older version will be overwritten. Detailed info can be found here: <https://pro.arcgis.com/en/pro-app/get-started/authorize-arcgis-pro-with-concurrent-use-licenses.htm>

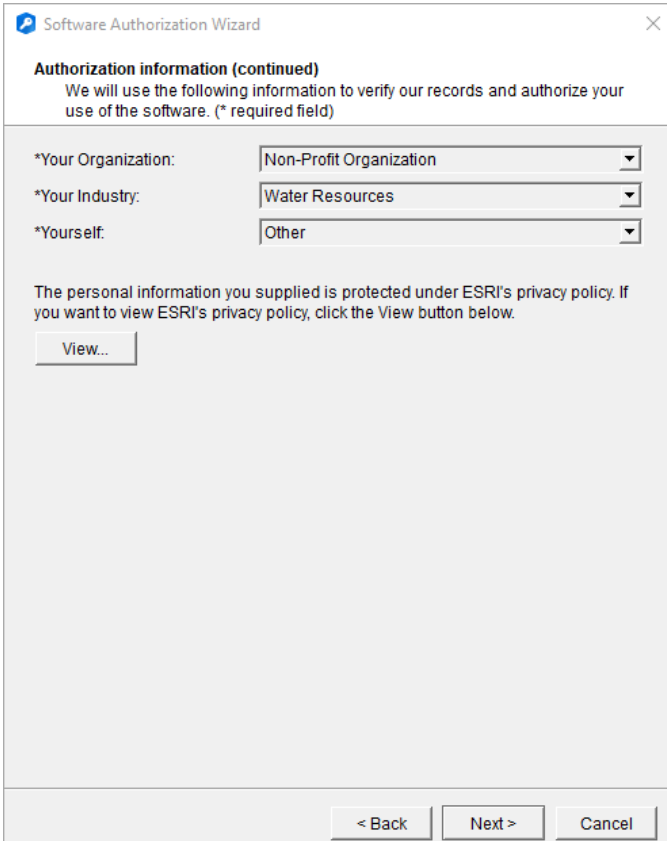
Installation step	Screen
<p>Run the <i>Setup.exe</i> program file from the installation media/download folder, in the ‘ArcGIS License Manager 20XX.X’ folder.</p> <p>Click Next</p>	
<p>Select I accept the master agreement</p> <p>Click Next</p>	

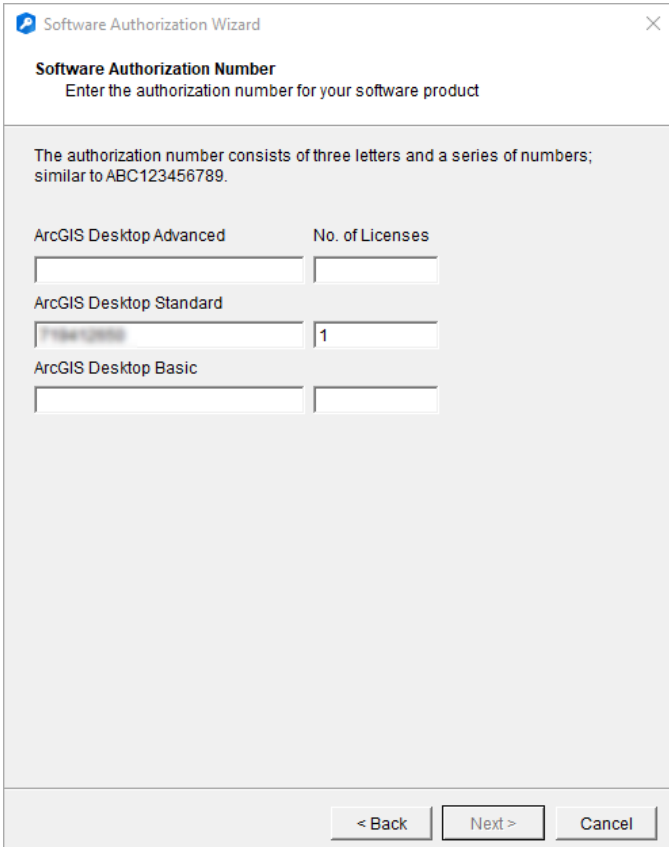
Installation step	Screen
<p>Click Next</p>	
<p>Click Install</p> <p>The process may take several minutes</p>	
<p>Click Finish</p>	

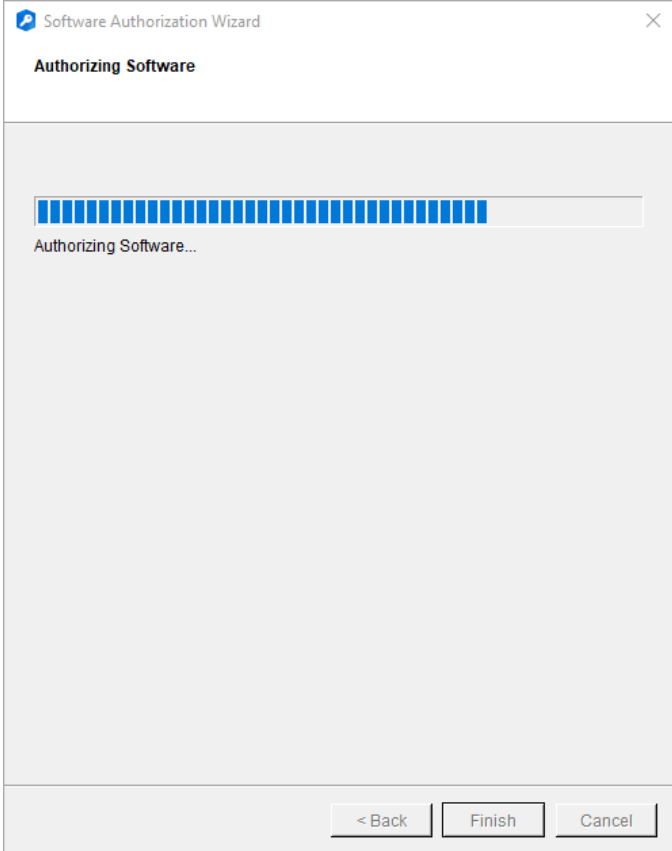
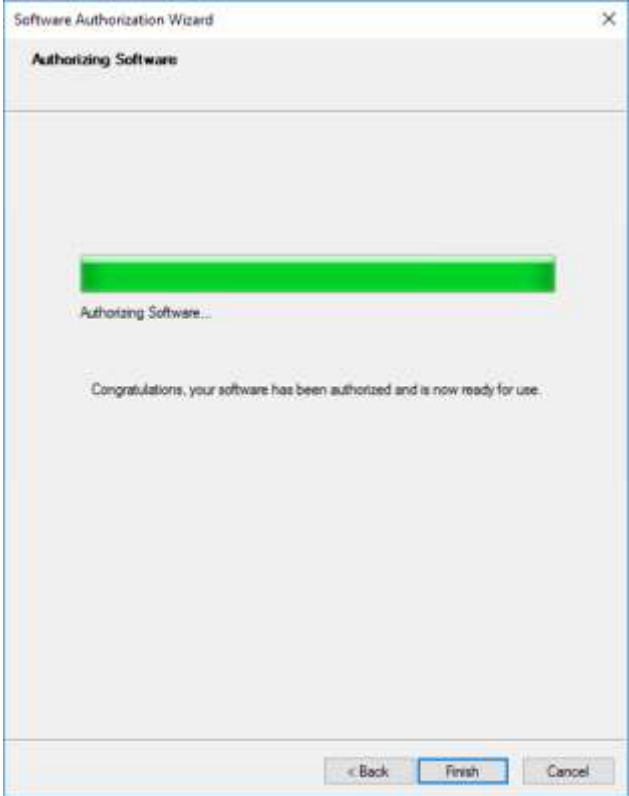
Installation step	Screen
<p>Select the version: Pro X.X-X.X</p> <p>Click Authorize now</p>	 <p>The screenshot shows the 'ArcGIS License Service Administrator' window. On the left is a tree view with 'ArcGIS (MHA-PC2)' expanded, showing sub-items: 'Start/Stop License Se...', 'Configure', 'Availability', 'Authorization', and 'Diagnosits'. The main area contains instructions: 'To use Consumer Use products and extensions, you must first authorize them on your license server and start the service.' Below this, it says 'To authorize your products and extensions, please select the version to license and then click "Authorize Now" below to start the Software Authorization Wizard.' A dropdown menu is set to 'Pro 1.4.3.1' and the 'Authorize Now' button is highlighted with a red rectangle. At the bottom, there are buttons for 'Deauthorize...', 'Generate a configuration file for Portal 10.6', 'Machine IDs...', and 'Generate...'. The status bar at the bottom indicates 'License Server Status: RUNNING'.</p>
<p>Select 'I have installed my software and need to authorize it'</p> <p>Select the product ArcGIS Pro</p> <p>Click Next</p>	 <p>The screenshot shows the 'Software Authorization Wizard' window. The title bar says 'Software Authorization Wizard'. The main heading is 'Authorization Options' with the instruction 'You must authorize the license server prior to use. Select from the options below.' There are three radio button options: <ul style="list-style-type: none"> <input checked="" type="radio"/> I have installed my software and need to authorize it. <input type="radio"/> I have already authorized the software and need to authorize additional extensions. <input type="radio"/> I have received an authorization file from ESRI and am now ready to finish the authorization process. Below these options is a text input field and a 'Browse...' button. Underneath is a section titled 'Product to be Authorized' with five radio button options: <ul style="list-style-type: none"> <input type="radio"/> ArcGIS Desktop <input checked="" type="radio"/> ArcGIS Pro <input type="radio"/> ArcGIS Engine Runtime <input type="radio"/> ArcGIS CityEngine <input type="radio"/> ArcGIS LocateXT At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'.</p>

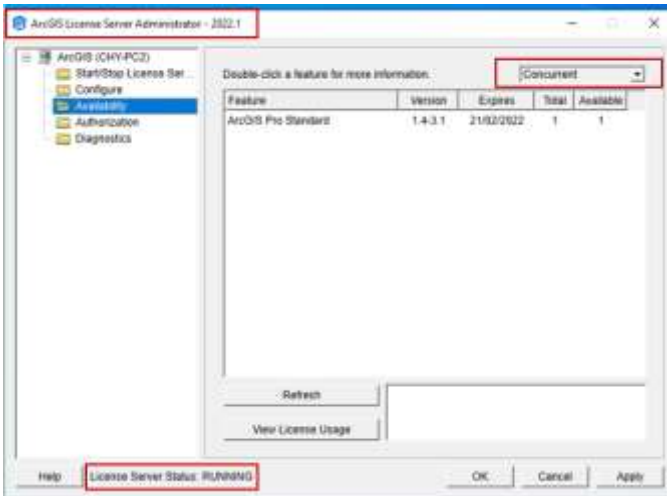
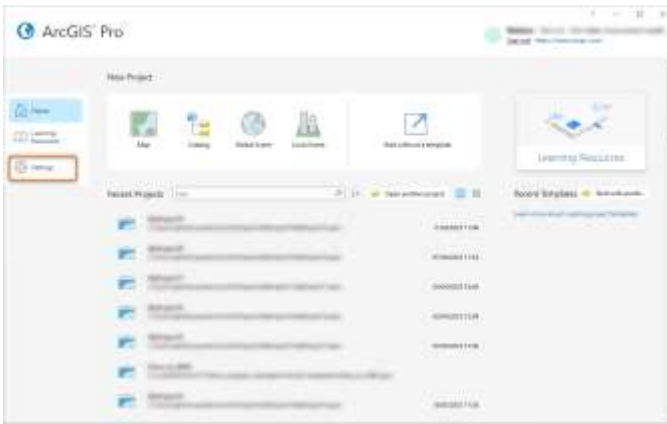
Installation step	Screen
<p>Select this option</p> <p>Click Next</p>	

Installation step	Screen
<p>Fill in the necessary information</p> <p>Click Next</p>	 <p>Software Authorization Wizard</p> <p>Authorization Information We will use the following information to verify our records and authorize your use of the software. (* required field)</p> <p>*First Name: <input type="text"/></p> <p>*Last Name: <input type="text"/></p> <p>*Organization: <input type="text" value="DHI"/></p> <p>Department: <input type="text"/></p> <p>*Address 1: <input type="text" value="Agerm Alle 5"/></p> <p>Address 2: <input type="text"/></p> <p>*City: <input type="text" value="Horsholm"/></p> <p>*State/Province: <input type="text" value="N/A"/></p> <p>*Zip/Postal Code: <input type="text" value="2970"/></p> <p>*Location: <input type="text" value="Denmark"/></p> <p>*Phone Number: <input type="text" value="+4545169200"/></p> <p>*Email: <input type="text" value="mike@dhigroup.com"/></p> <p>Comment: <input type="text"/></p> <p>Optional user-defined authorization description.</p> <p>< Back Next > Cancel</p>

Installation step	Screen
<p>Fill in the necessary information</p> <p>Click Next</p>	

Installation step	Screen
<p>Fill in your ArcGIS Authorization code starting with EFL and select the number of seats you would like to authorize (1 seat per purchased license)</p> <p>If you have already authorized some seats earlier, they cannot be authorized again unless you have de-authorized them</p> <p>Click Next</p>	

Installation step	Screen
<p>The authorization process may take a couple of minutes</p>	
<p>Click Finish</p>	

Installation step	Screen
<p>Select Availability from the menu, and you will see which licenses you have available</p> <p>Click OK</p>	
<p>Start ArcGIS Pro from the computer where you wish to run MIKE+ and configure ArcGIS Pro license</p> <p>Click Settings</p>	
<p>Click Licensing</p>	

Installation step	Screen
<p>Click Configure your licensing options</p>	<p>The screenshot shows the Autodesk software interface. On the left is a navigation pane with 'Licensing' selected. The main window displays 'Autodesk Pro format User License' information. At the bottom, the 'Configure your licensing options' button is highlighted with a red rectangular box.</p>
<p>Select the appropriate settings and specify the license manager's hostname / IP address / Port</p> <p>Click OK</p>	<p>The screenshot shows the 'Licensing' dialog box. Under 'Configure Authorization', 'License Type' is set to 'Concurrent Use License'. Under 'License Level', 'Standard' is selected. Under 'License Manager', 'CH1-PC2' is entered. A table below shows license details with columns for Name, License, Available Seats, and Expiry. A red callout box points to the 'Name' column with the text: 'Name of the computer (as specified in Windows Control Panel > System) on which the license was authorized'. The 'OK' button is highlighted at the bottom right.</p>