



Introduction to GIS with ArcGIS Pro

Getting Started with ArcGIS Pro: Introduction to ArcGIS Pro and Project Structure

Week 1: Session 1

Palash Basak, PhD

About you, the participants

Dhaka University

Jahangirnagar University

Jagannath University

Chittagong University

Khulna University

Bangladesh Agricultural University

and many other educational and professional organizations

About the Facilitator of the Course

Palash Basak, PhD

- Currently working as a Geosolution Consultant in an Australian organization
- Learning and Using ArcGIS products for about 30 years.
- Studied Geography & Environment, Urban and Resource Planning, Sustainable Resource Management
- Worked in home and abroad, in private and public sectors
- Taught in DU, BUET, NSU, University of Newcastle, etc.
- Developed expertise in Enterprise, Web and Cloud GIS.
- In addition to GIS, expanded skills in Remote Sensing, Database Management, Programming, Data Science, etc.



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Course Outline

https://drive.google.com/file/d/13aCvX8uWtfB6Do36KVlcaQiYxyvSdmCE/view?usp=drive_link

Key expectations of the participants

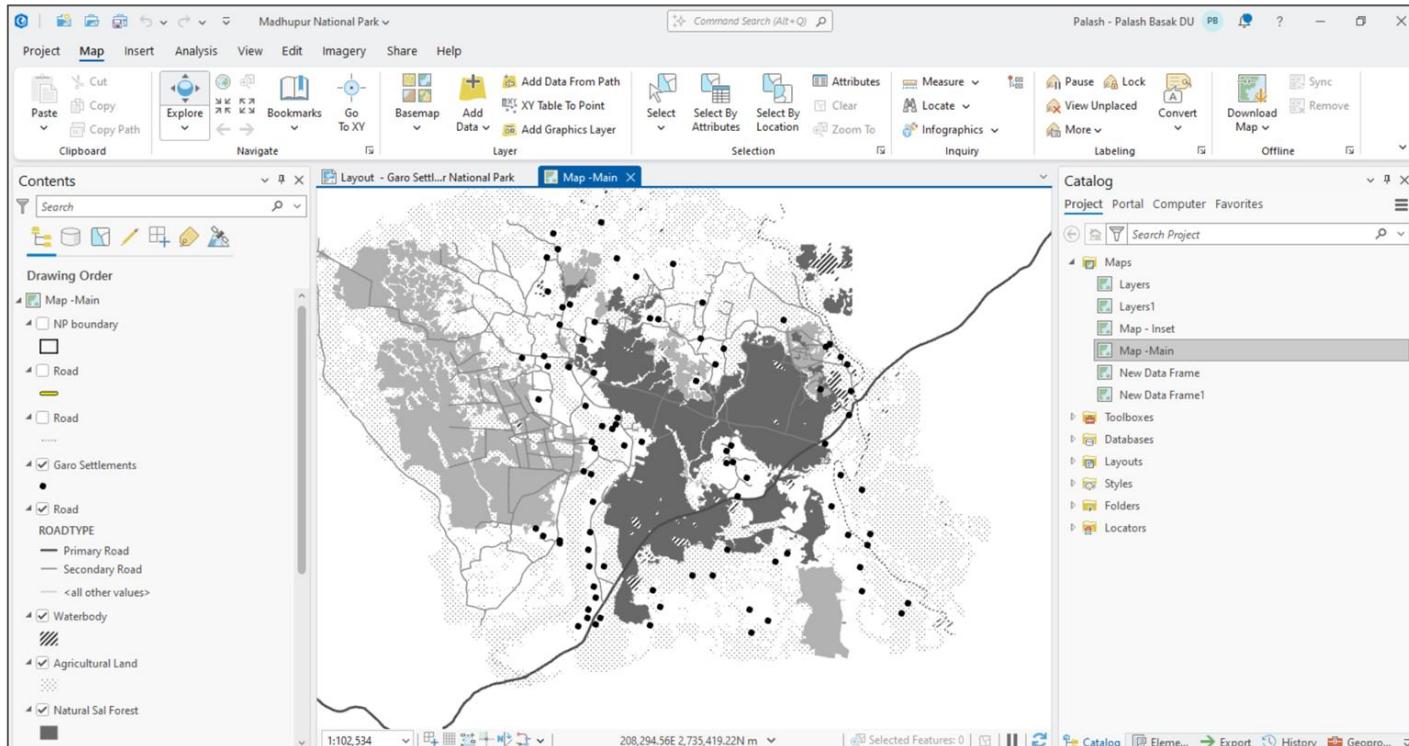
Learning GIS Fundamentals: Many participants expressed a clear desire to acquire foundational knowledge in Geographic Information Systems (GIS), with common phrases like "Learning GIS," "Learn GIS," and "Basic GIS" appearing frequently.

Practical Skills and Application: Participants are keen on gaining practical skills, specifically mentioning "hands-on experience with ArcGIS Pro" and applying GIS knowledge in "data analysis" and "research work."

Professional and Academic Development: The course is seen as a means to enhance skills for "future professional and personal development" and to strengthen "research capacity."

Advanced Knowledge: Some participants, already possessing basic GIS knowledge, are looking to gain "professional level knowledge" from the course.

Introduction to ArcGIS Pro



<https://www.esri.com/en-us/arcgis/products/arcgis-pro/overview>

Introduction to ArcGIS Pro

A full-featured professional desktop GIS application from Esri.

Explore, visualize, and analyze data

Create 2D maps and 3D scenes

Share your work to ArcGIS Online or your ArcGIS Enterprise portal

ArcGIS Product ecosystem



ArcGIS Online

Complete software as a service (SaaS) mapping platform



ArcGIS Pro

The world's leading GIS software



ArcGIS Enterprise

Flexible mapping and data management server software

Get Started with ArcGIS Pro: Setup

Purchase ArcGIS Pro

Download ArcGIS Pro

Install ArcGIS Pro

License ArcGIS Pro

Purchase ArcGIS for Personal Use

<https://esribangladesh.com.bd/arcgis-personal-use>

The screenshot shows the Esri Bangladesh website with the following details:

- Header:** Esri Bangladesh logo, navigation menu with links to Industry solutions, Products, Services and support, About, Contact us, and a search icon.
- Breadcrumbs:** Products / About ArcGIS / ArcGIS for Personal Use
- Section Title:** ArcGIS for Personal Use
- Text:** Maximise your mapping potential
- Call-to-action:** A blue button labeled "Buy now →".
- Image:** A man wearing glasses and a jacket, holding a white mug, standing next to a large map of a landscape. The map includes coordinates (40° N 30° W), elevation data (Δ33.037), and other GIS-related icons like a bar chart and a line graph.

- GIS Professional Advanced user type
- A suite of ready-to-use apps
- The most popular ArcGIS Pro extensions
- 100 credits for data storage, premium data access, and geocoding and analysis
- Unlimited access to self-paced e-learning

Download ArcGIS Pro

<https://pro.arcgis.com/en/pro-app/latest/get-started/download-arcgis-pro.htm>

Download ArcGIS Pro from My Esri (<https://my.esri.com/>)

Download ArcGIS Pro from ArcGIS Online (<https://www.arcgis.com/index.html>)

Install ArcGIS Pro

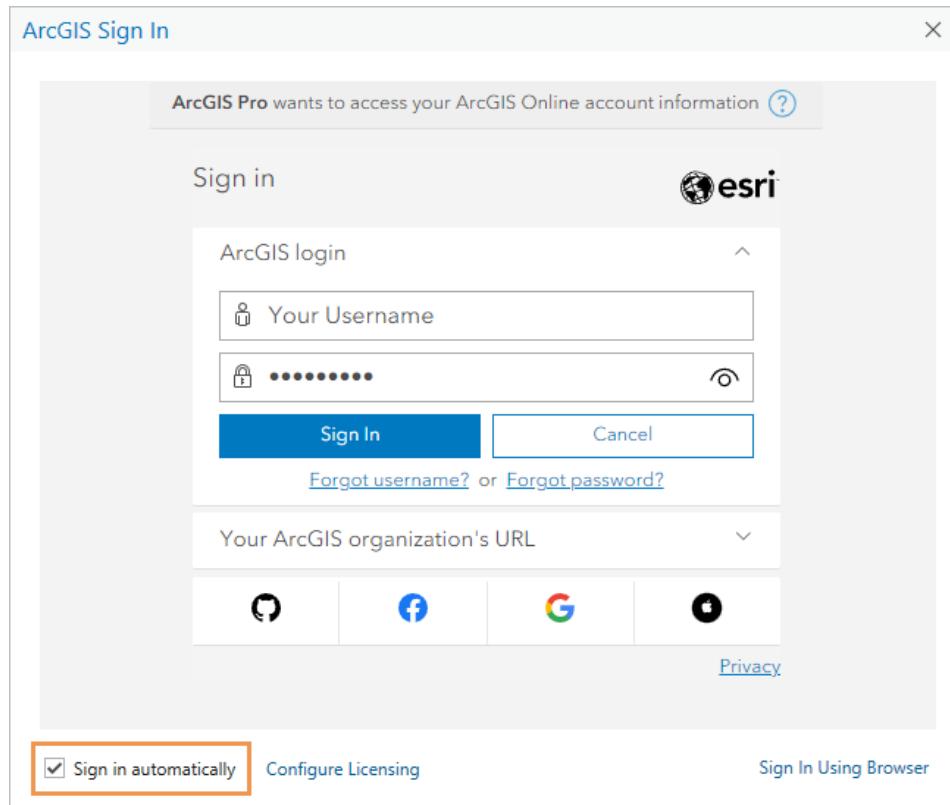
<https://pro.arcgis.com/en/pro-app/latest/get-started/install-and-sign-in-to-arcgis-pro.htm>

License ArcGIS Pro

Named User licensing in ArcGIS Online

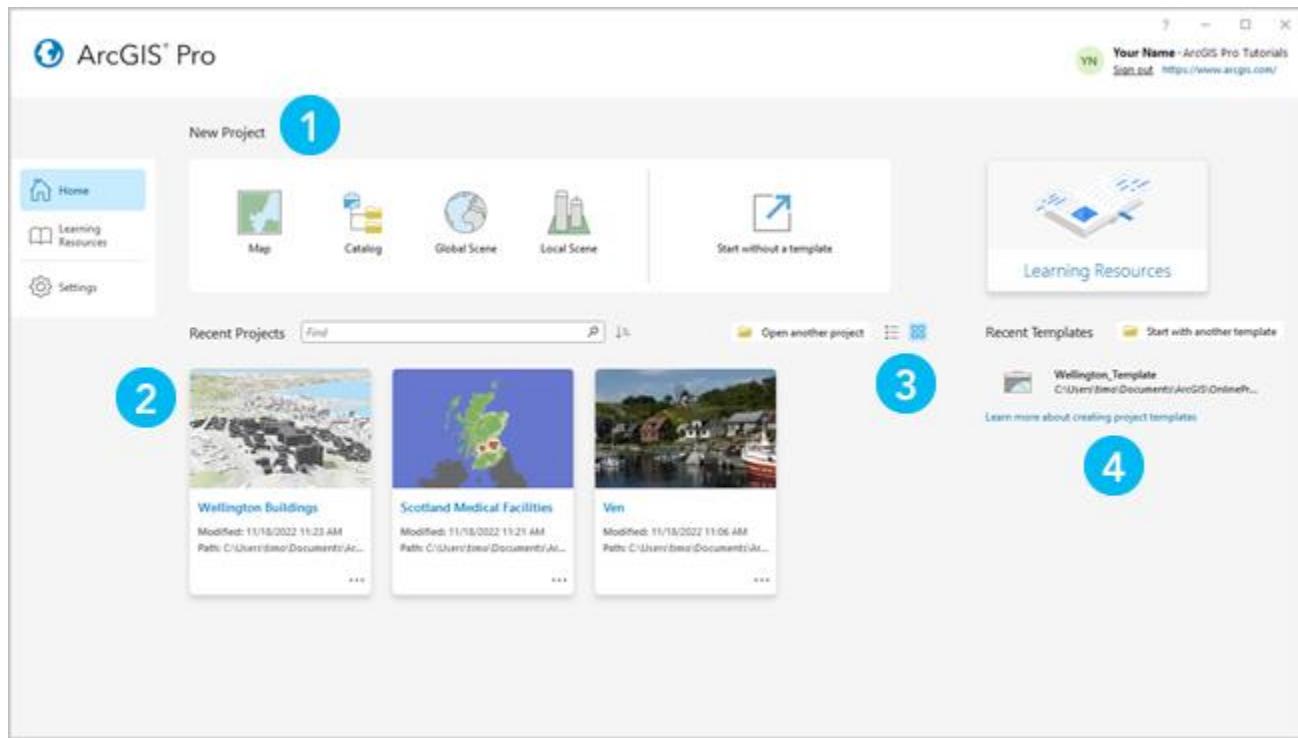
<https://pro.arcgis.com/en/pro-app/latest/get-started/named-user-licenses.htm>

Get Started with ArcGIS Pro: Sign in

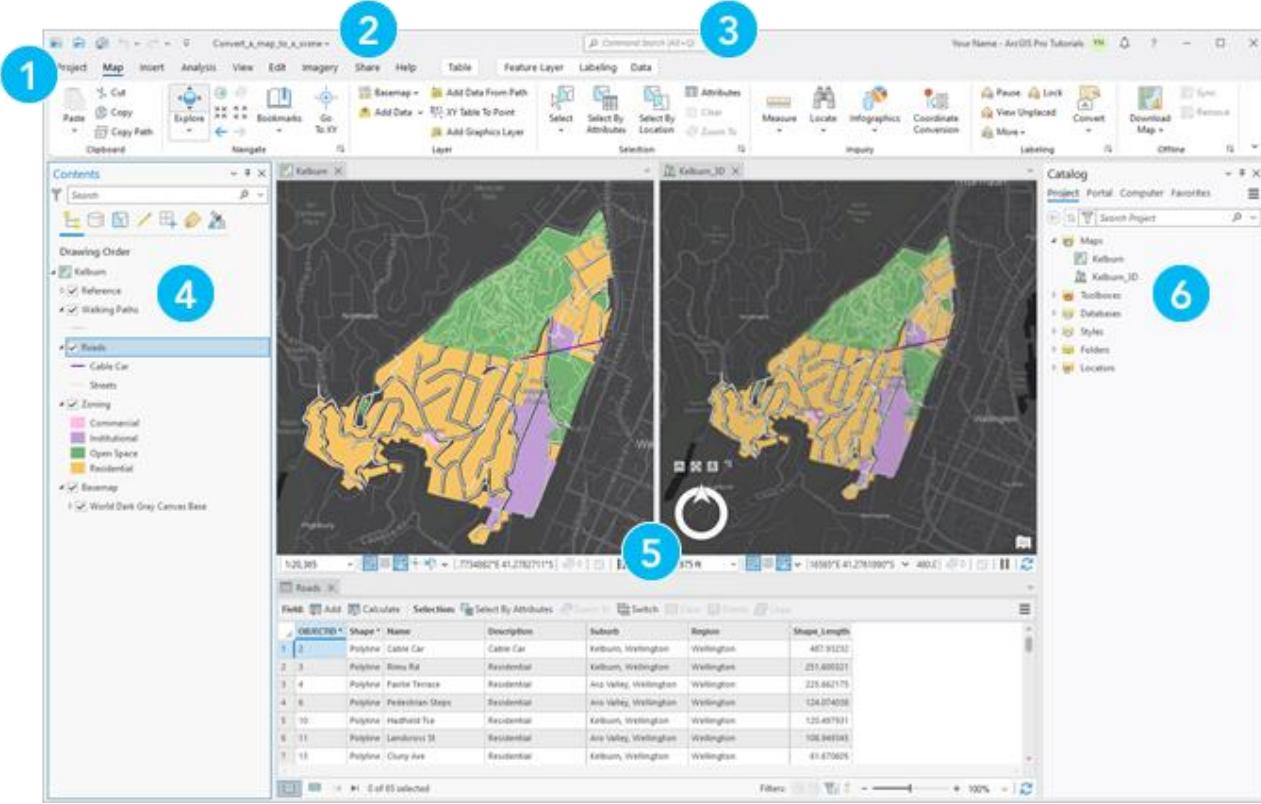


The screenshot shows the user interface after signing in. At the top right, there is a green circular profile icon with the letters "YN" and the text "Your Name - Your Organization". Below this, the "Your Organization" section displays the URL "https://www.arcgis.com/". To the right of the organization name is a green circular button with "YN" that has a "Your Name", "Your Username", and "Sign out" option when clicked. Further down are "Manage Portals" and "Switch Active Portal" buttons.

Start page



ArcGIS Pro user interface



1 Project tab

2 The ribbon

3 The Command
Search box

4 Contents pane

5 Table view

6 Catalog pane

ArcGIS Pro Project

A collection of thematically related items such as **maps**, **layouts**, charts, reports, and presentations.

Includes connections to **folders**, **databases**, **toolboxes**, and servers that contain data and scripts, and connections to other resources, such as **notebooks**, and locators.

ArcGIS Pro Project Structure

Project Location

Project Folder Structure

Default File Geodatabase

Download some data to play with

Bangladesh - Subnational Administrative Boundaries

<https://data.humdata.org/dataset/cod-ab-bgd>