



What's New in ArcGIS Pro

2018 OKSCAUG

Pamela Kersh

Esri

ArcGIS Desktop – The Product

Multiple applications

ArcGIS Pro



ArcMap



ArcCatalog
ArcScene
ArcGlobe

What is the plan for ArcMap?

- ArcMap continues
 - Minor updates \ bug fixes

ArcMap 10.6 released Jan 2018

ArcMap 10.6.1 July 2018

ArcMap release in 2019



Desktop Product Life Cycle



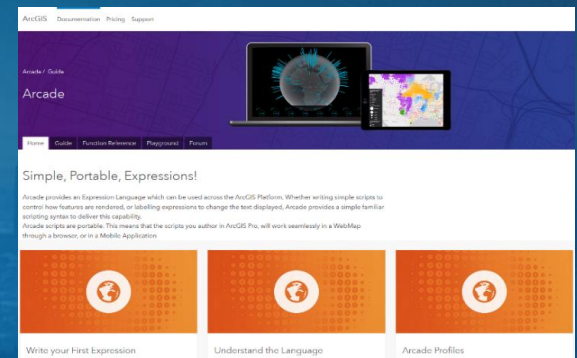
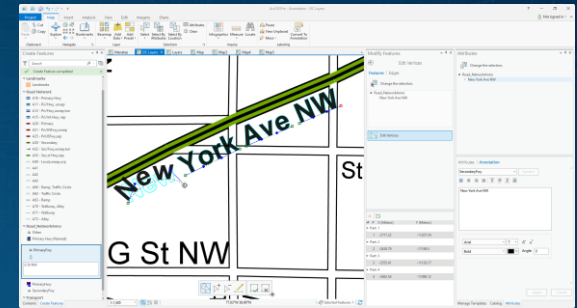
ArcGIS Developer APIs and SDKs

ArcGIS Pro Development Priorities

ArcMap Equivalence

New Innovation

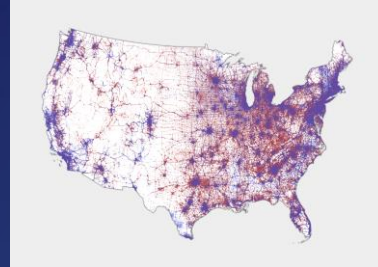
Connected Desktop



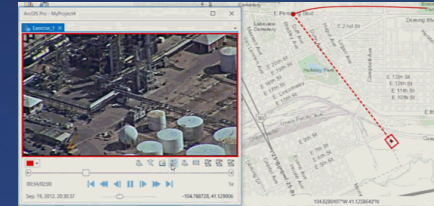
ArcGIS Pro 2.2

Available Now

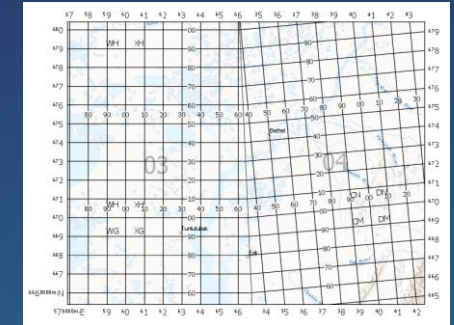
- Edit 3D Scene Layers
- Go To XY tool
- Select Visible Features
- Pause Drawing
- Map Tips
- Outline 3D Objects
- Annotate Selected Features
- Vary Symbology by Attribute
- Vector Tile Pop-ups



Dot Density



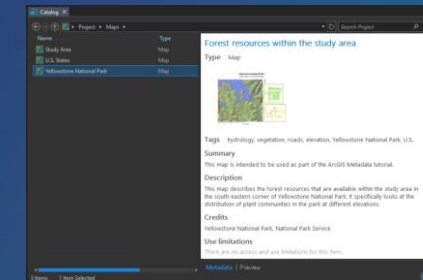
Full Motion Video



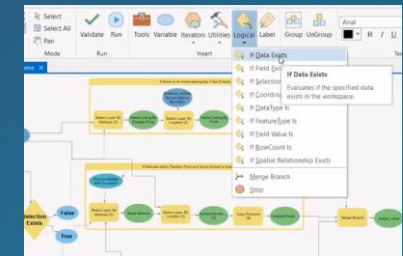
UTM Zone Clipping



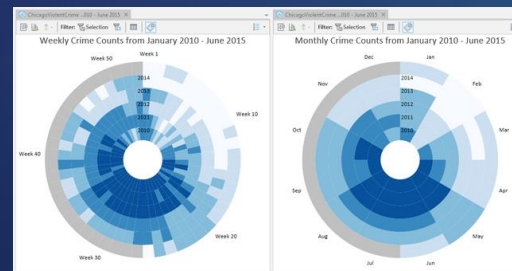
Slice Tool



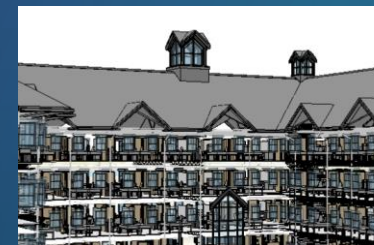
Import/Export Metadata



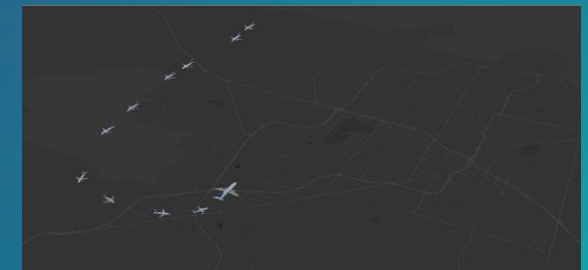
Batch Geoprocessing



Data Clock Chart



Revit File Support



Stream Layer

ArcGIS Pro Roadmap



Release Timeline

Q1



Pro 2.1
Pro 2.1.1
Pro 2.1.2

Q2



Pro 2.2
ArcMap 10.6.1

Q3



Pro 2.2.1

Q1 2019



Pro 2.3
ArcMap 10.7

Why customers are using Pro

- Creating and Sharing content with Online
- Geoprocessing
- Multiple Layouts
- New 3D workflows
- Map Exploration
- Education

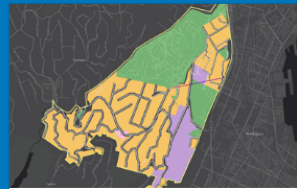


Introducing ArcGIS Pro

Get familiar with the user interface and learn how to use the ribbon, panes, and views.

Estimated time: 25 minutes

[Start the exercise](#)

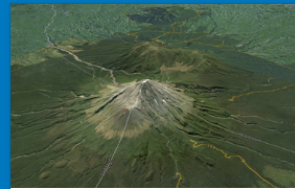


Import an ArcMap document

Create an ArcGIS Pro project and import a map document.

Estimated time: 20 minutes

[Start the exercise](#)

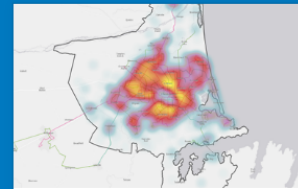


Create points on a map

Locate places of interest on a basemap and add point features to your map.

Estimated time: 30 minutes

[Start the exercise](#)

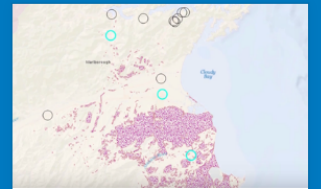


Symbolize map layers

Symbolize bus routes and create a heat map in Christchurch, New Zealand.

Estimated time: 30 minutes

[Start the exercise](#)



Use geoprocessing tools

Analyze and prevent the spread of an invasive grass species.

Estimated time: 45 minutes

[Start the exercise](#)

ArcGIS Pro Roadmap (September 2018)

Near-term

- Attribute Rule enhancements
- Dimensions
- Contingent Values
- Parcel Management
- Building Scene Layer
- Reports
- Offset Printing
- Extract Locations from Text
- Dynamic Feature Binning
- Scatter plot matrix
- Mobile Scene Package
- 3D Interpolation
- Parallel desktop processing using Spark
- Deep Learning for Image Analysis

Mid-term

- Projects in the Enterprise
- Layer blend modes
- Presentations
- Animated Symbols
- Materials
- 3D Effects
- GPS Support
- Voxel Scene layer
- Trend Profile Chart
- Dynamic Feature Clustering
- New Extensions

Long-term

- Physically based rendering
- Geoprocessing in the database
- 3D Mesh as ground
- Terrain Editing

ArcGIS Pro Migration Resources



ArcGIS Pro Migration Resources

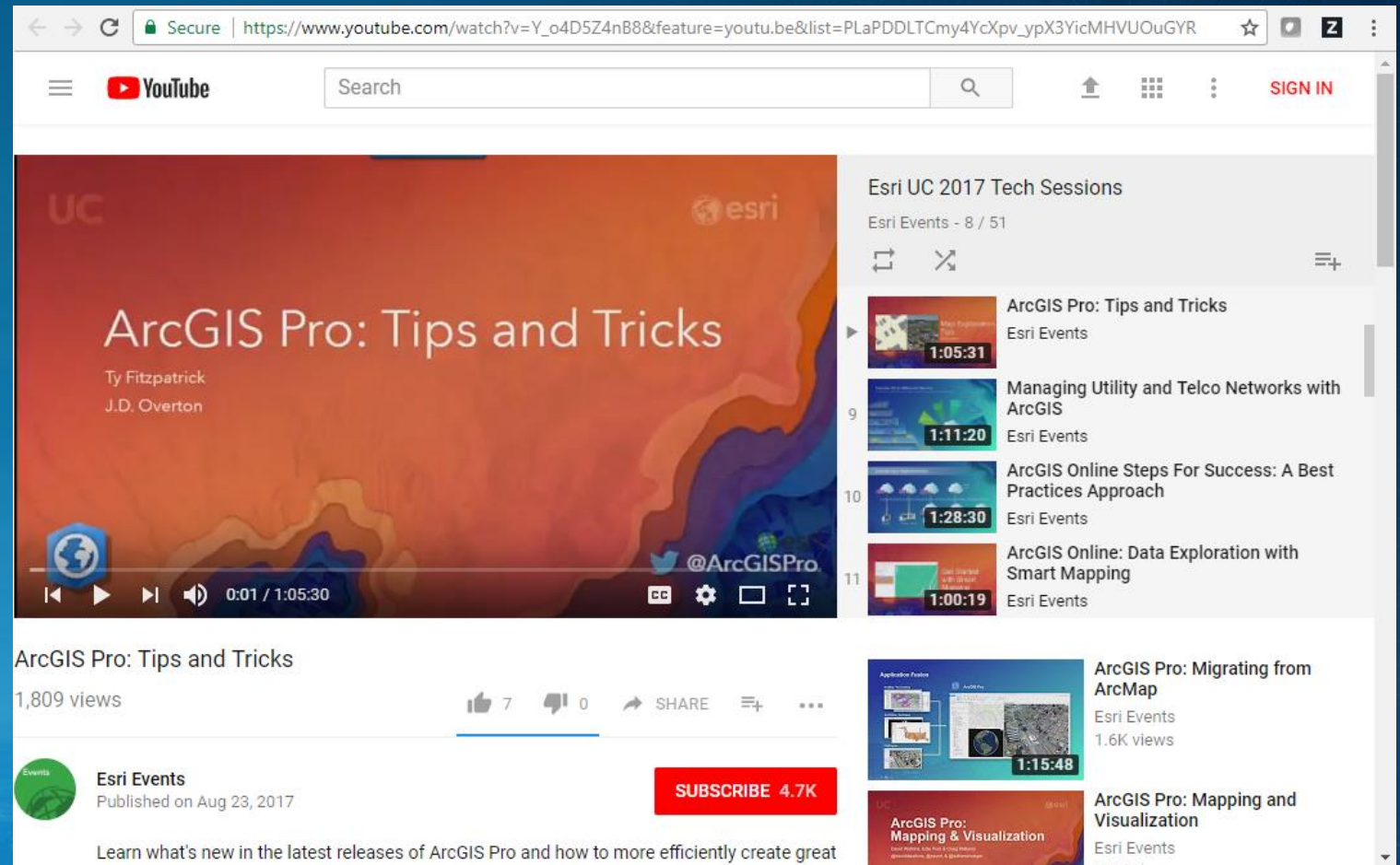
- Training Classes

The screenshot shows the Esri Training Catalog search results for 'Pro Migration'. The page has a dark blue header with the 'Training' logo and the tagline 'Your Location for lifelong learning'. Below the header is a navigation bar with links: Main, Catalog (selected), My Learning, Certification, and Help. A search bar contains the text 'Pro Migration'. Below the search bar are filters: 'Search tips', 'FILTER BY' (All GIS Capabilities, All Products, All Learning Formats), and checkboxes for 'Available with maintenance' and 'Free training'. The results are sorted by 'Relevance' and show 136 results with 30 items displayed. Three training items are visible:

Training Seminar	Duration	Title	Created
60 Minutes	Going Pro: ArcGIS Pro Essentials for ArcMap Users	Created June 15, 2017	
1 Hour	Building ArcGIS Pro Add-Ins and Solution Configurations	Created October 12, 2017	
2 Days (16 Hours)	Migrating from ArcMap to ArcGIS Pro	With faster tools and integrated 2D	

ArcGIS Pro Migration Resources

- Training Classes
- Videos



The screenshot displays a YouTube video player interface. The main video is titled "ArcGIS Pro: Tips and Tricks" by Ty Fitzpatrick and J.D. Overton. The video player shows a progress bar at 0:01 / 1:05:30. Below the video, the title "ArcGIS Pro: Tips and Tricks" is repeated, along with "1,809 views", "7 likes", "0 comments", and a "SHARE" button. The channel name "Esri Events" is shown, along with the publication date "Published on Aug 23, 2017" and a "SUBSCRIBE 4.7K" button. A description at the bottom reads: "Learn what's new in the latest releases of ArcGIS Pro and how to more efficiently create great".

The right sidebar features a playlist titled "Esri UC 2017 Tech Sessions" with "Esri Events - 8 / 51" items. The playlist includes the following videos:

- ArcGIS Pro: Tips and Tricks (Esri Events, 1:05:31)
- Managing Utility and Telco Networks with ArcGIS (Esri Events, 1:11:20)
- ArcGIS Online Steps For Success: A Best Practices Approach (Esri Events, 1:28:30)
- ArcGIS Online: Data Exploration with Smart Mapping (Esri Events, 1:00:19)
- ArcGIS Pro: Migrating from ArcMap (Esri Events, 1:15:48)
- ArcGIS Pro: Mapping & Visualization (Esri Events, 1:00:19)

ArcGIS Pro Migration Resources

- Training Classes
- Videos
- Learn.ArcGIS.com

← → ↻ Secure | <https://learn.arcgis.com/en/projects/get-started-with-arcgis-pro/> ☆ 📺 Z ⋮

Learn ArcGIS Lesson Gallery Support Sign In English ▾


Get Started with ArcGIS Pro

Overview Lessons

Overview

Spanning a series of islands in a shallow lagoon, the city of Venice is renowned for its beauty. But that beauty comes at a cost. The lagoon's tidal patterns mix with the islands' low elevation to cause acqua alta (high water), a periodic flooding that affects most of the city. Although not a threat to human life, acqua alta impedes transportation and endangers Venice's priceless architecture—and the problem is getting worse.

Historically, an exceptional tide (defined as 1.4 meters above sea level) occurs about every four years. In the past decade, however, exceptional tides have become an annual event. Efforts to chart, analyze, and control acqua alta will be crucial to protect Venice in the future.



[View the map](#)

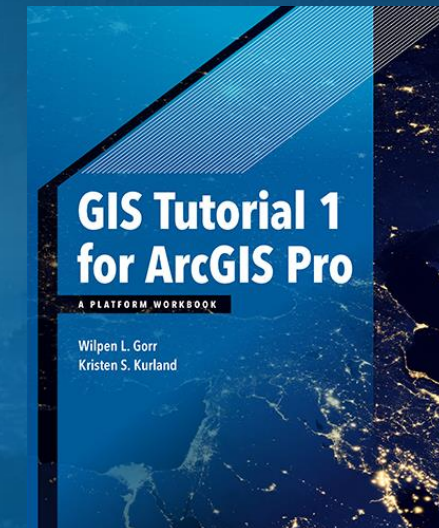
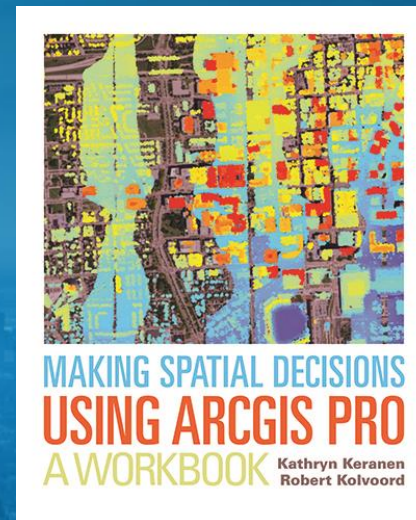
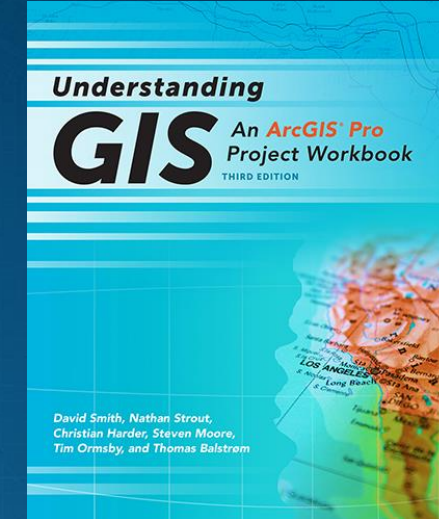
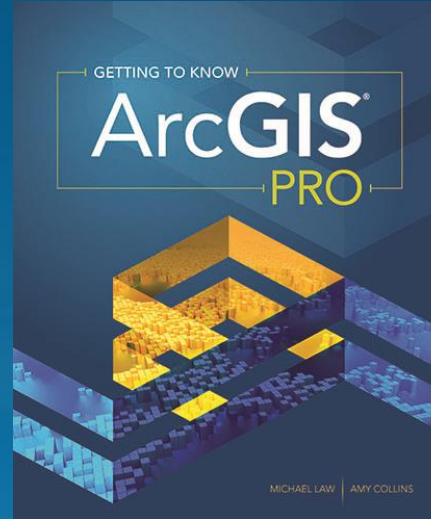
ArcGIS Pro Migration Resources

- Training Classes
- Videos
- Learn.ArcGIS.com
- Blogs



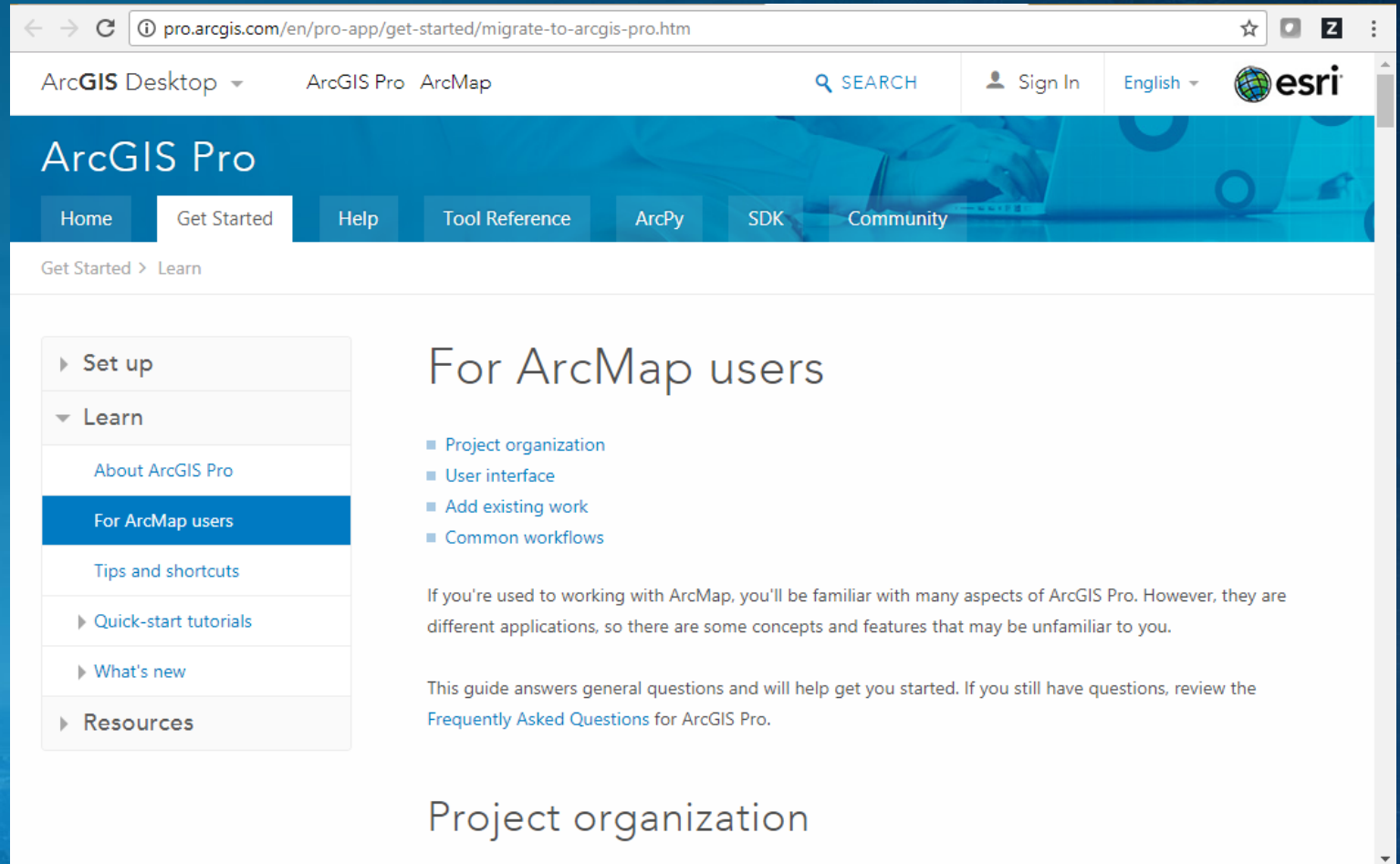
ArcGIS Pro Migration Resources

- Training Classes
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- [Learn.ArcGIS.com](https://www.esri.com/arcgis/training/)
- Blogs
- Books



ArcGIS Pro Migration Resources

- Training Classes
- Videos
- Learn.ArcGIS.com
- Blogs
- Books
- Help



The screenshot shows a web browser window with the URL `pro.arcgis.com/en/pro-app/get-started/migrate-to-arcgis-pro.htm`. The page is titled "ArcGIS Pro" and features a navigation bar with links for "Home", "Get Started", "Help", "Tool Reference", "ArcPy", "SDK", and "Community". The "Get Started" link is highlighted. Below the navigation bar, the page is divided into two main sections. On the left, a sidebar menu lists "Set up", "Learn", "Tips and shortcuts", "Quick-start tutorials", "What's new", and "Resources". The "Learn" section is expanded, showing "About ArcGIS Pro", "For ArcMap users" (which is highlighted), "Tips and shortcuts", "Quick-start tutorials", and "What's new". On the right, the main content area is titled "For ArcMap users" and contains a list of topics: "Project organization", "User interface", "Add existing work", and "Common workflows". Below this list, a paragraph states: "If you're used to working with ArcMap, you'll be familiar with many aspects of ArcGIS Pro. However, they are different applications, so there are some concepts and features that may be unfamiliar to you." This is followed by another paragraph: "This guide answers general questions and will help get you started. If you still have questions, review the [Frequently Asked Questions](#) for ArcGIS Pro." The page is designed with a clean, professional layout using a blue and white color scheme.

pro.arcgis.com/en/pro-app/get-started/migrate-to-arcgis-pro.htm

ArcGIS Desktop ArcGIS Pro ArcMap

SEARCH Sign In English esri

ArcGIS Pro

Home Get Started Help Tool Reference ArcPy SDK Community

Get Started > Learn

- ▶ Set up
- ▼ Learn
 - About ArcGIS Pro
 - For ArcMap users**
 - Tips and shortcuts
 - ▶ Quick-start tutorials
 - ▶ What's new
- ▶ Resources

For ArcMap users

- Project organization
- User interface
- Add existing work
- Common workflows

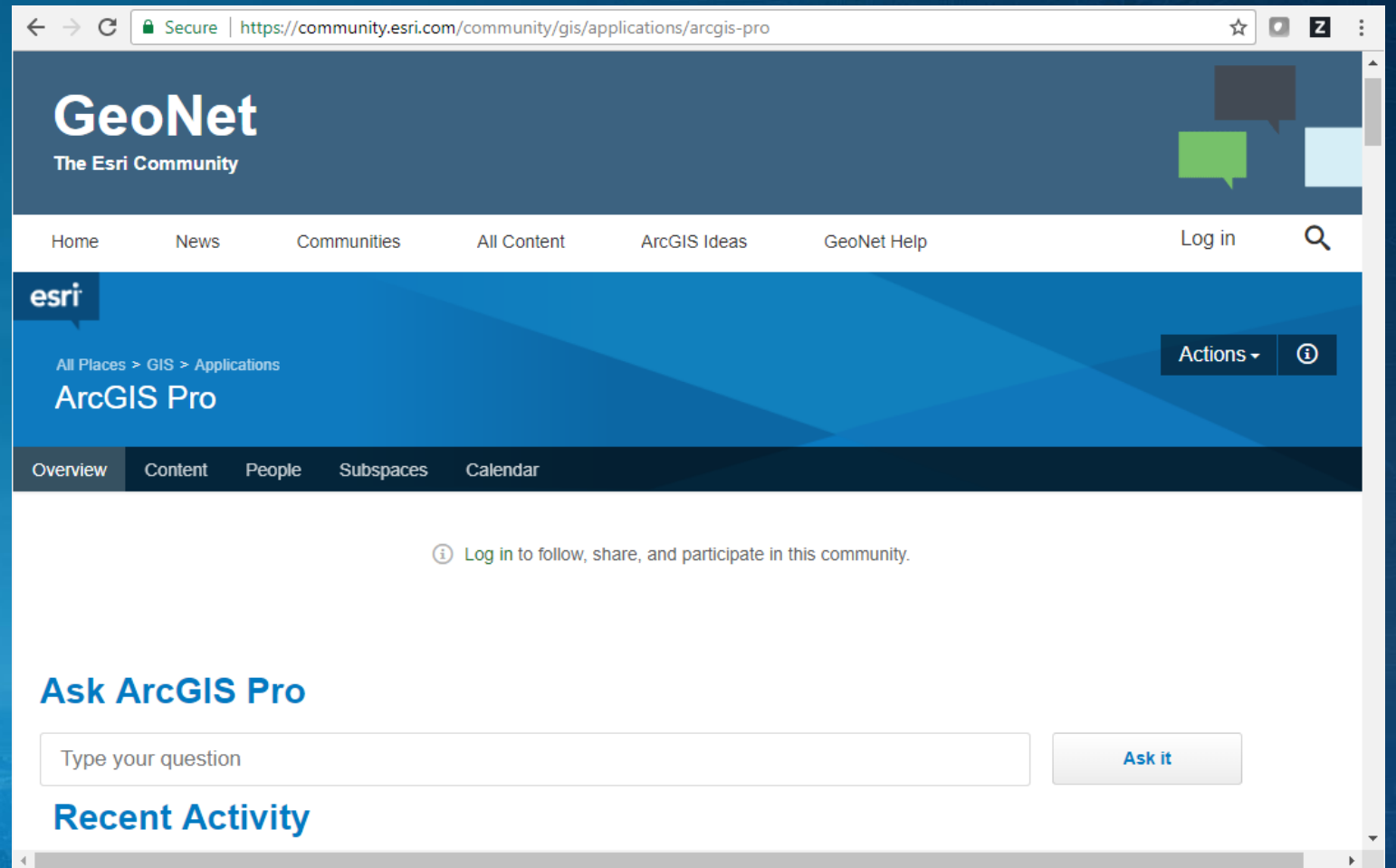
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Project organization

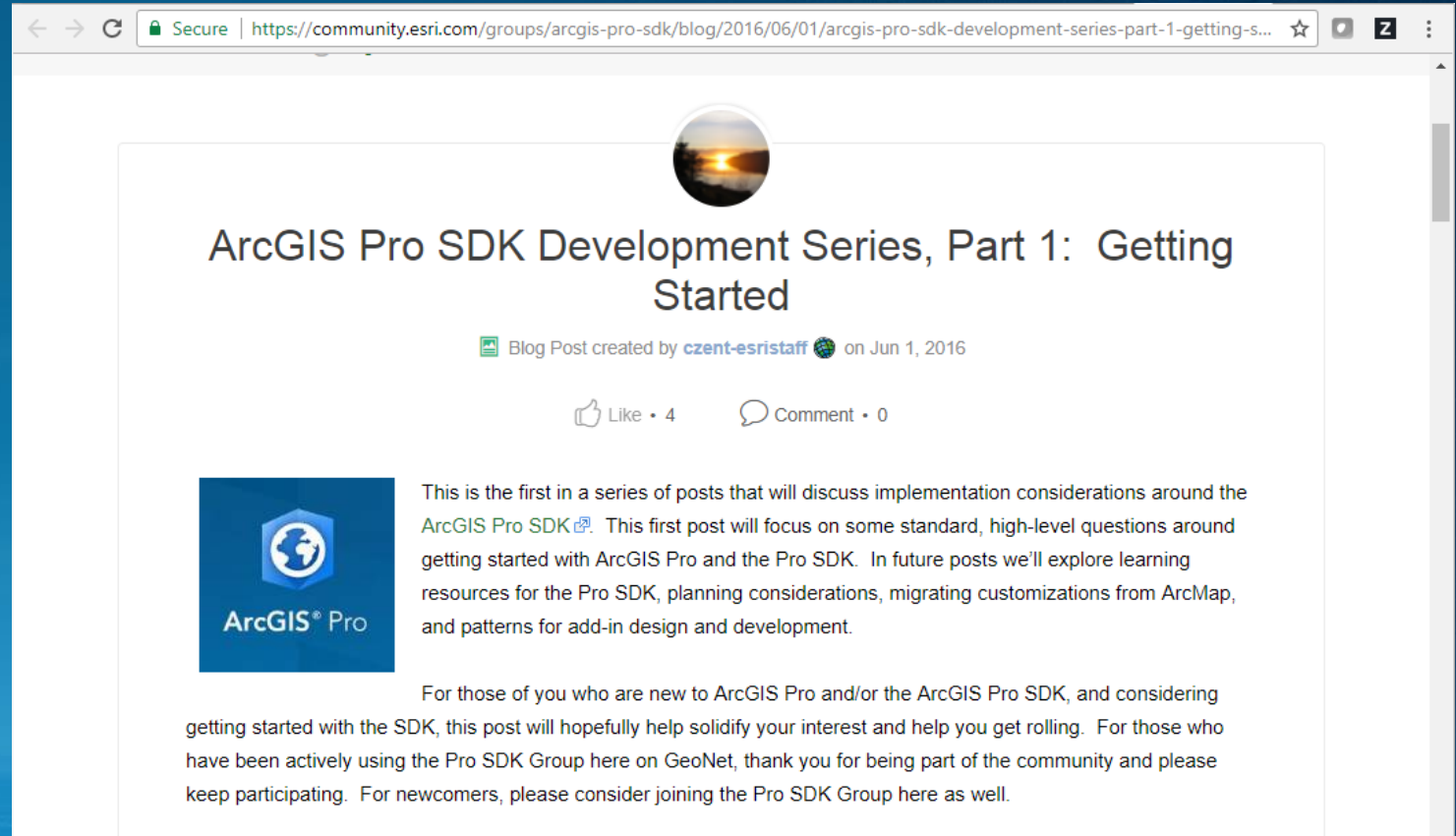
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- Blogs
- Books
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- GeoNet



ArcGIS Pro Migration Resources

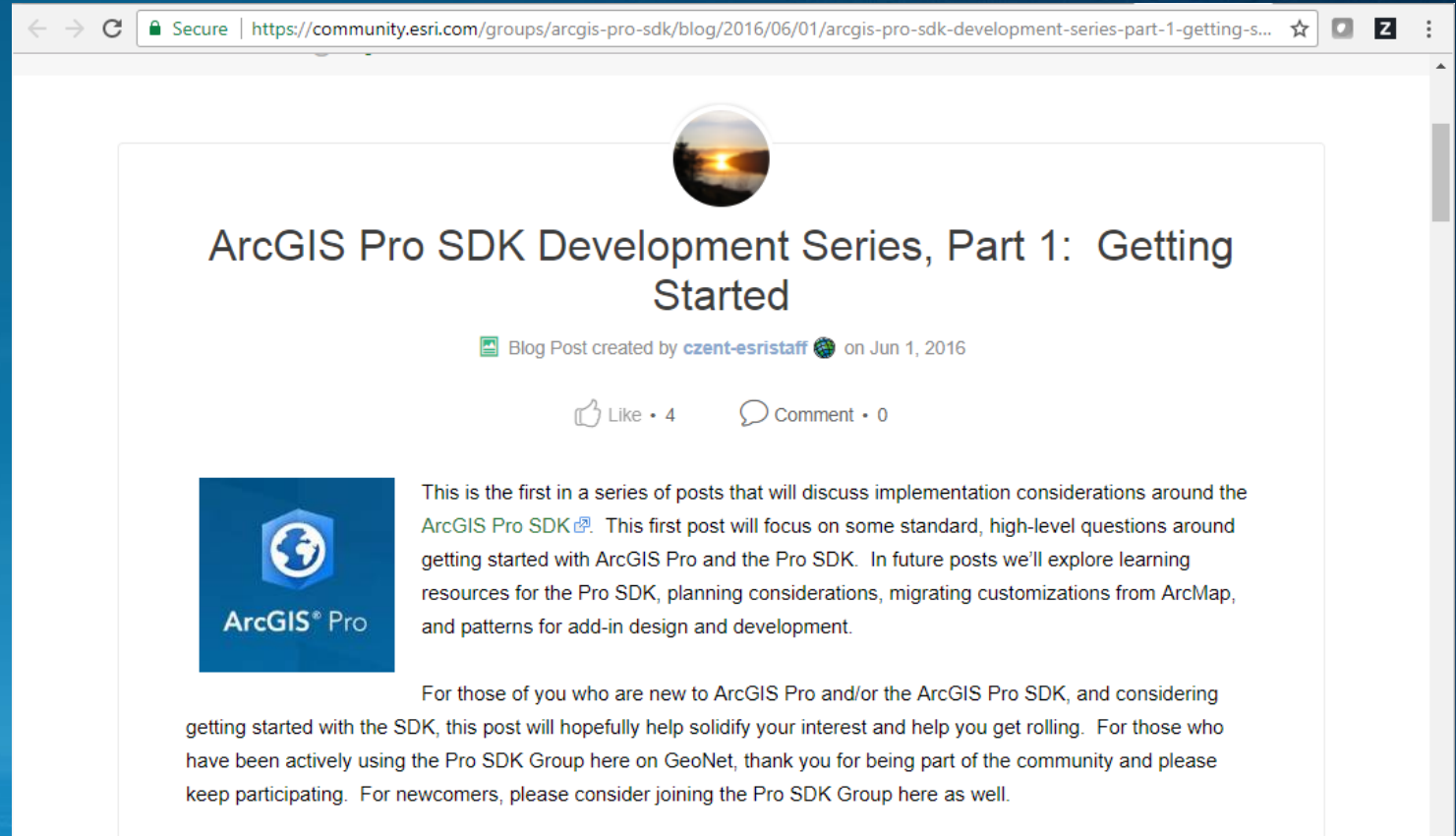
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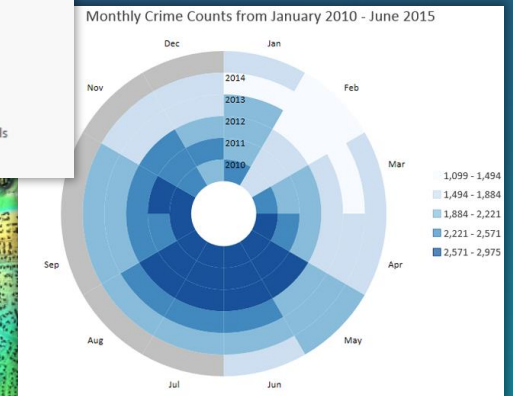
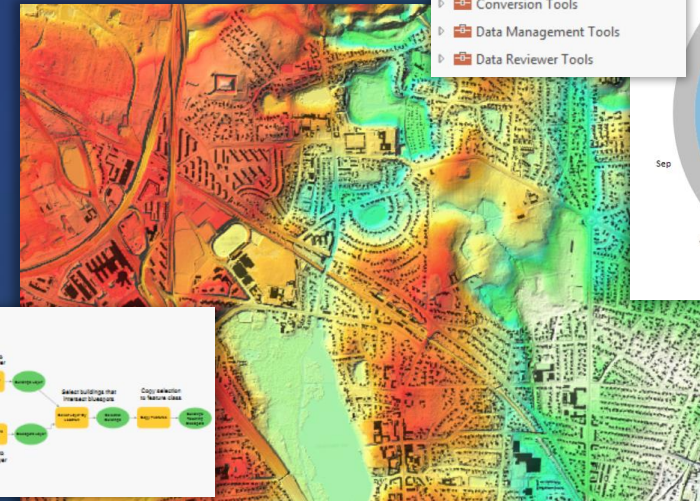
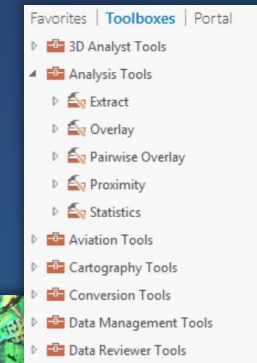


ArcGIS Capabilities

Highlights

ArcGIS Pro Analysis and Geoprocessing

- Geoprocessing tools and framework
- ModelBuilder
- Charts and exploratory analysis
- Python and R scripting
- Analytical extensions



ArcGIS Pro Analysis and Geoprocessing

What's Planned for Pro 2.3

- Parallel spatio-temporal analysis using Spark
- Store analysis result layers with symbology, charts, and other properties
- Create a road network from GPS points
- Create model or script from sequentially run tools
- Export ModelBuilder to Python
- Package Python code, toolboxes, and more into a conda package
- More chart types
- Machine learning tools for prediction

ArcGIS Pro Analytical Extensions

What's Planned for Pro 2.3

- Better user experience for suitability modeling (Spatial Analyst)
- 3D Interpolation (Geostatistical Analyst extension)
- Deep Learning tools for image analysis (Image Analyst)
- Add more network dataset property pages and network creation wizard (Network Analyst)
- Improved territory design (Business Analyst)
- LAS Point View for working with vertical slices of LIDAR points (3D Analyst)

Image Analyst

Image Analyst Extension Capabilities

- ArcGIS Pro in 2018

- Stereo Display and Capture
- Image Space Display, Capture, and Mensuration
- Advanced Image Analysis
- Full Motion Video (FMV)

- **ArcGIS Pro in 2019**

- Deep Learning
- Multipatch Editing in Stereo

- **ArcGIS Pro - Future**

- Pixel Editor

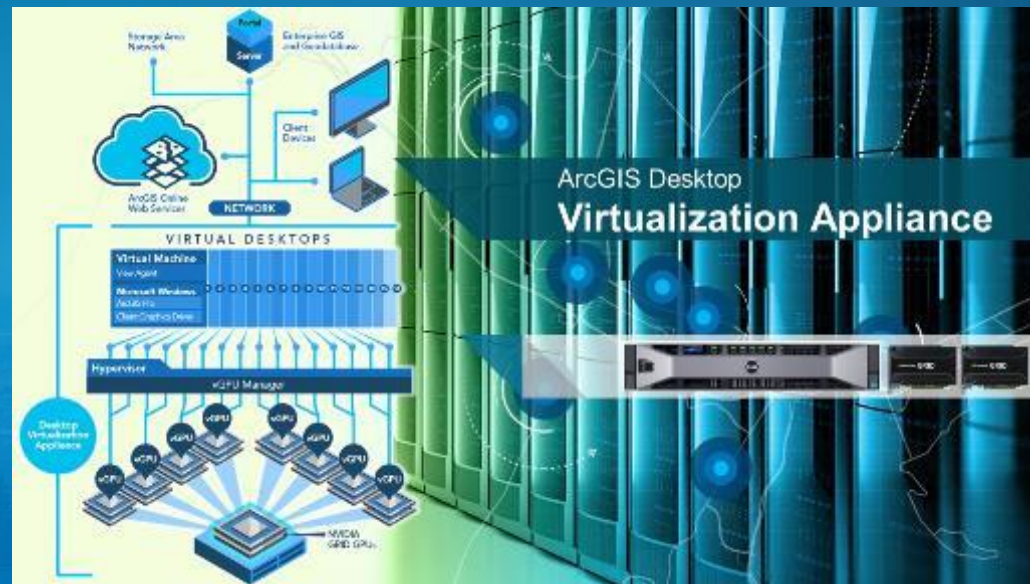
Virtualizing ArcGIS Pro



On-premise Virtualization

Virtualization Platform

- VMWare
 - ESXi
 - Horizon View
- Citrix
 - XenServer
 - XenDesktop



Cloud-based Virtualization

Microsoft Azure

- NV-Series VM
 - Nvidia GPU
 - 56 Gb Memory
 - 380 Gb storage
 - Demo'd at Microsoft Ignite

AWS

- GPU Workspace
 - Nvidia GPU
 - 8 vCPUs
 - 15 Gb Memory
 - 200 Gb storage



- ▶ Available Now
- ▶ Tested by Esri Performance Engineering – Great UX

The demo really demonstrated the “Workstation in the Cloud” scenario that is now really possible with Azure NV based Virtual Machines at Ignite! - Karan Batta, Microsoft Azure



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