<arcgis-map zoom="4" center="4" 34"
<arcgis-search position="4" center="4" center="

ArcGIS Pro 3.3 Overview

Anna Gonzalez | Solution Engineer

s-map zoom="4" center="-118,34" />

view.goTo({
 center: [-126, 49]
})
.catch(function(error))

if (error.name != "Abort console.error(error);

})

Administration

ArcGIS Pro 3.3 moves to .NET 8 Ensures latest security and performance improvements

• November 2020 - .NET Framework and .NET Core merged into a unified .NET

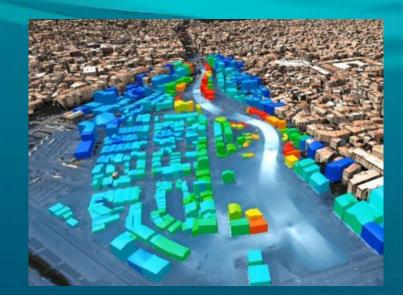
- Unified divergent frameworks, reduced code complexity, advanced cross-platform reach
- Even numbered .NET releases are Long Term Support (LTS supported for 3 years)

• ArcGIS Pro 3.0 - first release that moved to .NET 6 (first LTS .NET release)

- Major release that entailed breaking changes to move to the unified .NET
- ArcGIS Pro 3.3 moves to .NET 8
 - Minor release that provides new functionality, but NO BREAKING CHANGES
 - Requires .NET 8 to be installed on machines before installing ArcGIS Pro 3.3
 - No breaking changes continued compatibility with all ArcGIS Pro 3.x versions
 - Existing 3.x add-ins continue to work

Flood Simulation

- Predict and plan for potential flooding events
- Fast and interactive simulation and playback



Workflows

- Define an AOI, configure, and run a simulation
- Visualize results and review statistics
- Compare 'what-if' scenarios
- Test mitigation plans
- Share analysis results

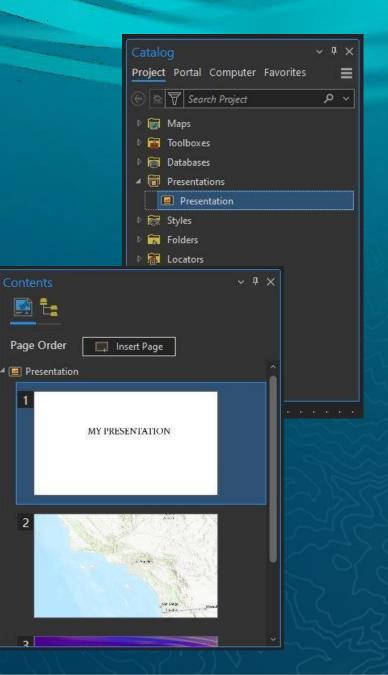


Presentations

- Use maps, scenes, videos and text to interactively present a GIS story
- A new document type stored in a Pro project
- Interactively present in full-screen mode
- Share presentation as PDF, images, or video

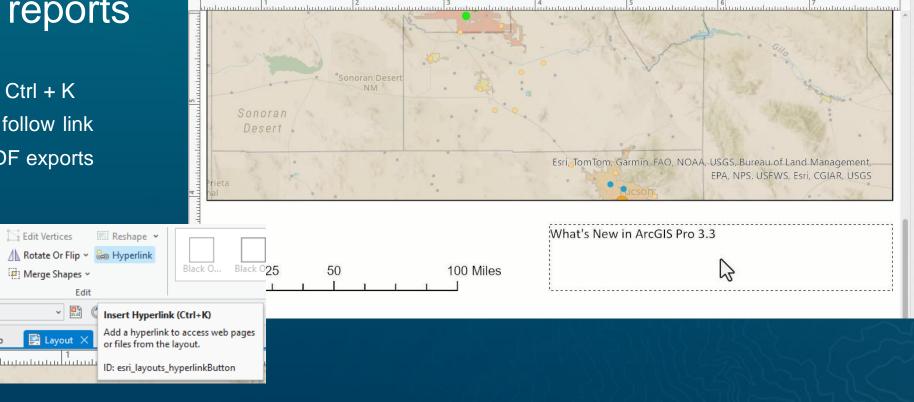
Examples

- Present analytical results to stakeholders
- Show a proposed urban development
- Describe events with a strong geographical component
- Export as a video for wider viewing



Hyperlink management in layouts and reports

- Familiar UX
 - Highlight text | Ctrl + K
 - Ctrl + Click to follow link
 - Included in PDF exports



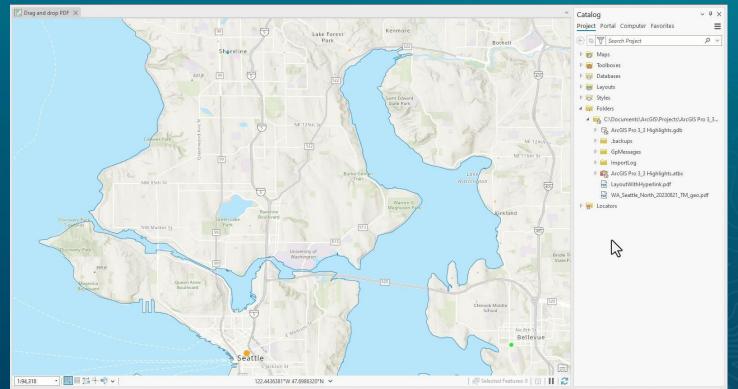
Export Attachments

- New geoprocessing tool
- Feature class/table to specified folder
- Export to subdirectories based on attribute value
- Rename exported files based on attribute value(s)

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Output Loca	ition	
ArcGIS Pro	3_3 Highlights	
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NAME		~ 读
Name Form	at	
Use Origina	al Filenames	~

• Add PDF directly as raster layer

- No need to duplicate data and store as TIFF
- Drag and drop from file system/Catalog
- Select page from multipage document
- Georeference if needed



Convert Schema Report

- Converts JSON or XLSX files created from Generate Schema Report tool (new in Pro 3.2) to XML workspace document
- XML \rightarrow create a geodatabase

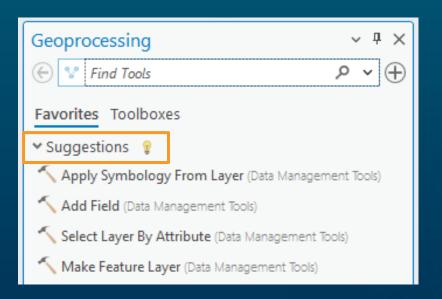
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Extract Data From Geodatabase

- New geoprocessing tool (Extract Data Wizard equivalency)
- Copy a subset of data by providing spatial extent, geometries or selection
- Extract to existing geodatabase, XML, or new geodatabase
- Extract schema and data, or schema only

Geoprocessing ~	ά×
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Geodatabase	~
Geodatabase to Extract Data to	
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Geometry Filter Type	
Contains	~
✓ Advanced Setting	
Expand Feature Classes and Tables	
Use defaults	~
Re-use Schema	
Do not reuse	~
Extract Related Data	
Get related	~
Extract Using Geometry Features	
All records for tables	

- Improved geoprocessing tool Search and Suggestions
 - Semantic search using conversational or plain-language queries
 - Suggestions in Favorites tab



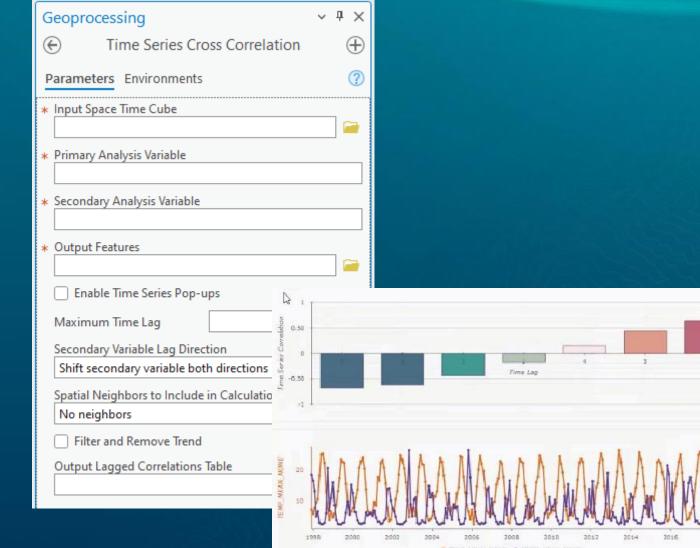
 Marry two datasets Management Tools) Imports changes fir a delta file into a replica geodatabase or imports an acknowledgment messa Create Replica (Data Management Tools) Creates a replica in a geodatabase from a specified list of feature classes, layers, datasets, and tables in an e Synchronize Changes (Data Management Tools) Synchronizes updates between two replica geodatabases in a specified direction. Export Data Change Message (Data Management Tools) Creates an output delta file containing updates from an input replica. Re-export Unacknowledged Messages (Data Mana Creates an output delta file containing unacknowledged replica updates from a one-way Create Replica From Server (Data Management Tools) Greates a replica using a specified list of feature classes, layers, feature datasets, and tables from a remote geo
Creates a replica in a geodatabase from a specified list of feature classes, layers, datasets, and tables in an e Synchronize Changes (Data Management Tools) Synchronizes updates between two replica geodatabases in a specified direction. Export Data Change Message (Data Management To Creates an output delta file containing updates from an input replica. Re-export Unacknowledged Messages (Data Mana Creates an output delta file containing unacknowledged replica updates from a one-way Create Replica From Server (Data Management Tools) Creates a replica using a specified list of feature classes,
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Creates a replica using a specified list of feature classes,
<
Add Global IDs (Data Management Tools) Adds global IDs to a list of geodatabase feature classes, tables, and feature datasets.
5
Import Replica Schema (Data Management Tools) Applies replica schema differences using an input replica geodatabase and an YML schema file 27 Items

Time Series Cross Correlation

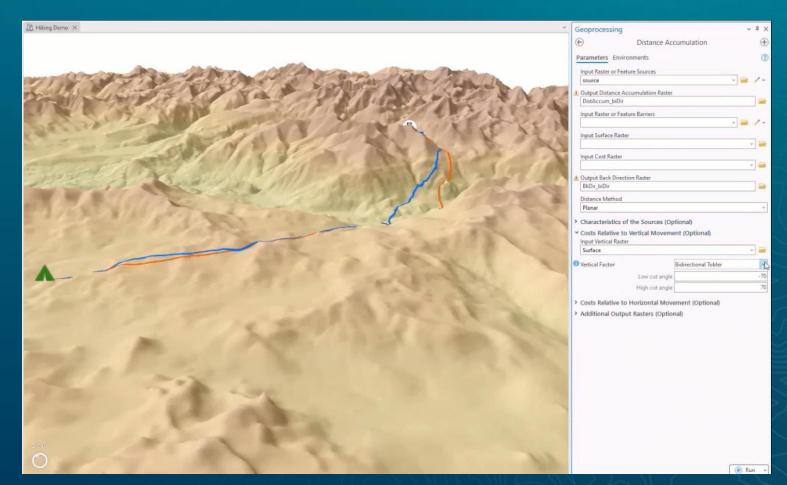
- Estimate delayed effects between primary and secondary analysis variables

Potential applications

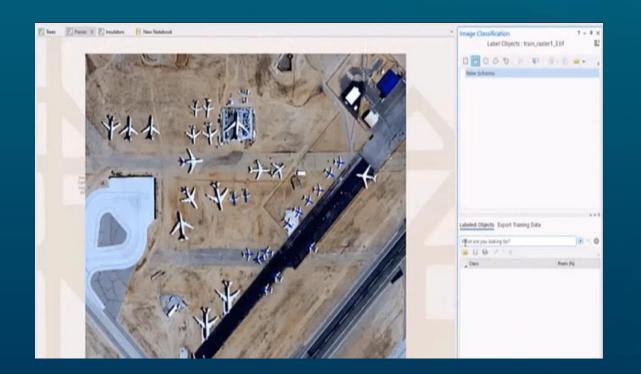
- Compare hourly temperature to electricity usage
- Estimate delay between increase in precipitation and increase in reservoir water volume
- Estimate delay between marketing spending and customer purchases

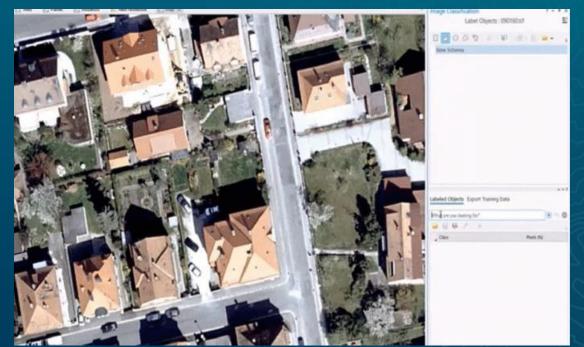


Tobler's Hiking function
Added to Distance Accumulation
Also added Bidirectional Tobler function



 AI assisted labeling for deep learning training
 Text prompt to automatically detect objects for labeling





- "Quantity by Category" renderer
 - Unique value renderer → Vary symbology by attribute
 - Classify data to specify method, number of classes, histogram

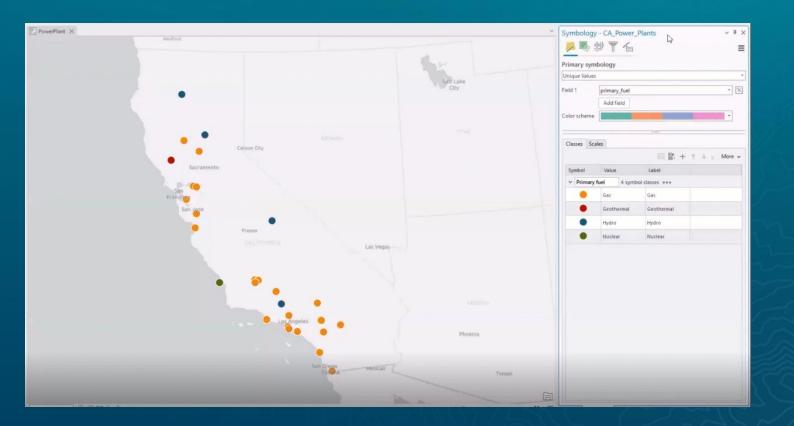
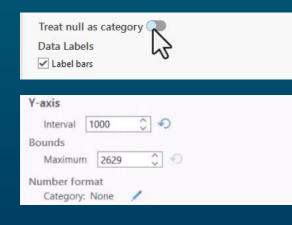
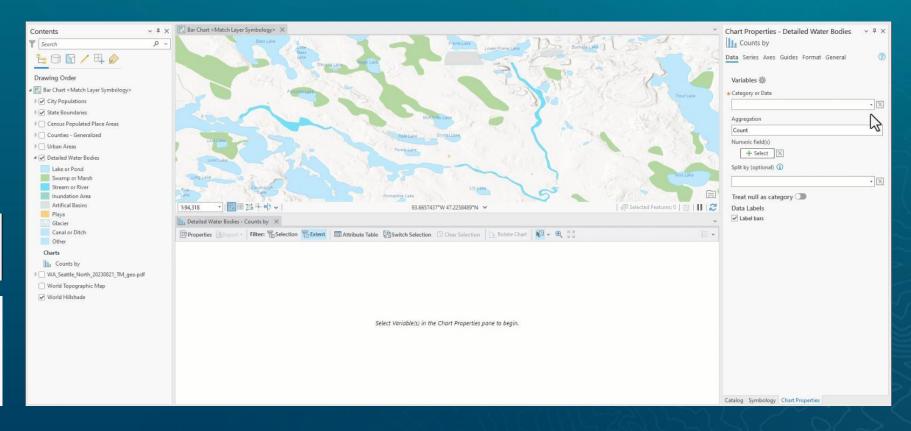


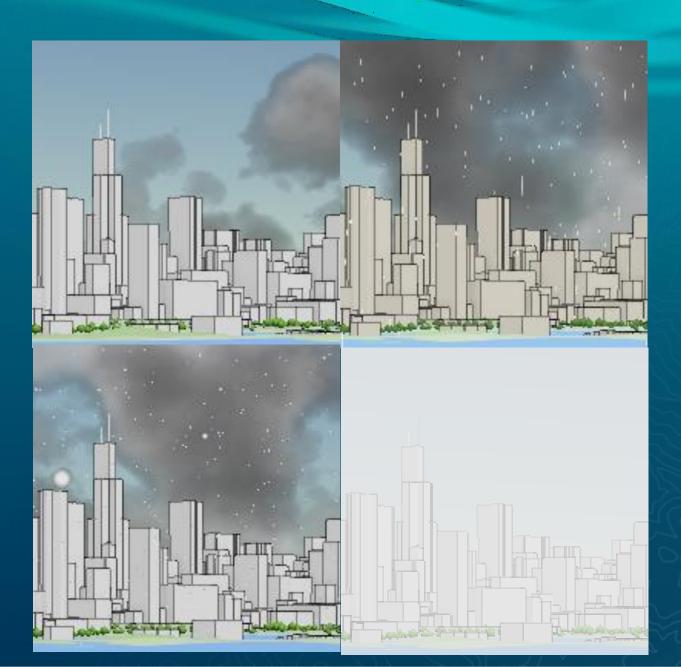
Chart improvements

- Match layer symbology for bar charts
- Treat null as category
- Custom intervals





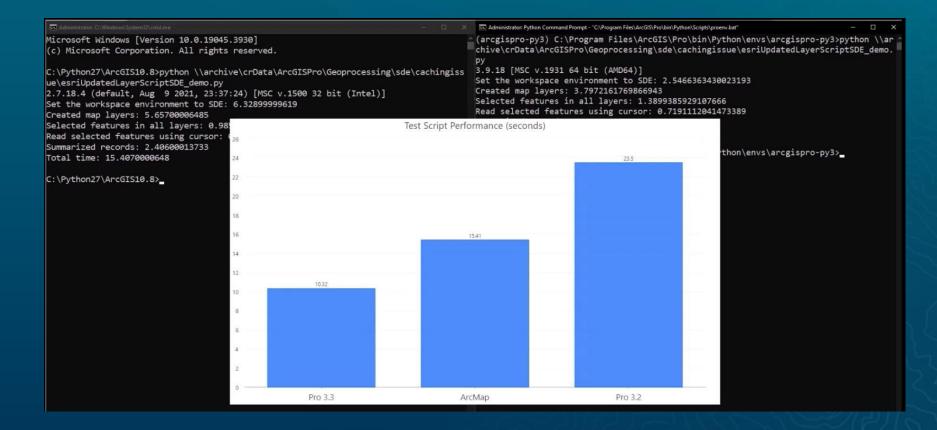
• Weather in global scenes (clouds, rain, snow, fog)



Performance and Productivity

Geoprocessing

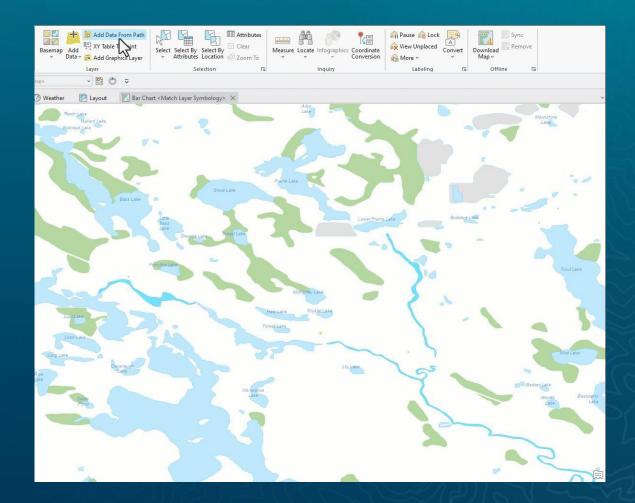
Geoprocessing workspace caching



Performance and Productivity

Application

 Configure Shortcut – new option to get directly to an appropriate context when setting up contextual keyboard shortcuts



Performance and Productivity Mapping

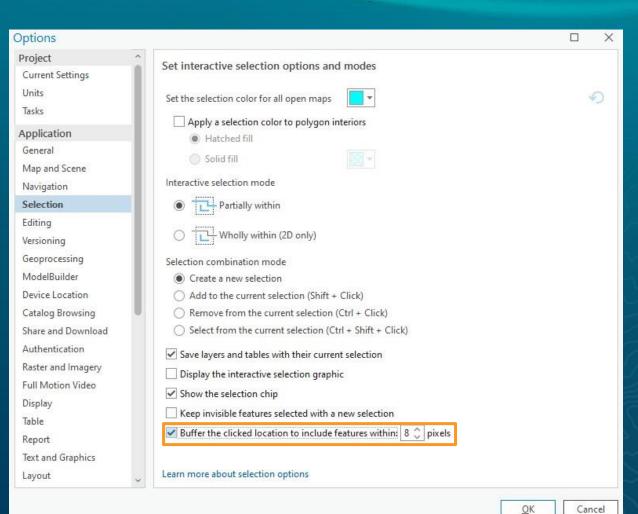
Navigate through Contents pane using first letter For example, C key

Contents ~ [‡] ×
Search Search
늘 🕞 🖸 🦯 🕂 🤌
Drawing Order
🔺 🔣 Bar Chart < Match Layer Symbology>
City Populations
▷ ✓ State Boundaries
Census Populated Place Areas
Counties - Generalized
▶ 🗌 Urban Areas
▲ 🗹 Detailed Water Bodies
Lake or Pond
Swamp or Marsh
Stream or River
Inundation Area
Artifical Basins
Playa
Glacier
Canal or Ditch
Other
Charts
Counts by FCODE
▷
World Topographic Map
🗹 World Hillshade

Performance and Productivity

Mapping

Click tolerance for selections and popups



Performance and Productivity Mapping

• Print attribute table

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1	1	Polyline	3	Coastline	0.00405		Show All Fields		
2	2	Polyline	3	Coastline	5.90407		Show All Fields		
3	3	Polyline	3	Coastline	0.0118		Reset Field Order		
4	4	Polyline	3	Coastline	0.64288		Fields View		
5	5	Polyline	3	Coastline	0.01825		Tields view		
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Performance and Productivity

Automation

Arcpy type hinting

- Example: show arcpy.da class, function and member args
- String literals
- Dictionary keys
- Result objects

🕏 type-hinting.py 1 🔍

14

type-hinting.py > ... import arcpy fc = r"c:\temp\f.gdb\cities" arcpy T arcpy.Buffer_analysis arcpy.analysis.Buffer arcpy ii = arcpy.GetInstallInfo() res = arcpy.analysis.Buffer(fc, buffer_distance_or_field=1)

- arcpy.analysis.Buffer(line_side)
- ras = arcpy.sa.Aspect()

Engaged ArcGIS Pro User Community

Our users' contributions make ArcGIS Pro better

 1,000+ new ideas in the past year •60+ ideas implemented in ArcGIS Pro 3.3 New dedicated ArcGIS Pro SDK idea exchange

ArcGIS Pro SDK					
Search	۹	This place 🗸 🗸			
Home > All Communities > Developers >	ArcGIS Pro SDK		Options		
Browse ArcGIS Pro SDK			Subscribe		
ArcGIS Pro SDK Blog	ArcGIS Pro SDK Questions	ArcGIS Pro SE	DK Documents ♣ 111 @ 14.4K ● 5		
ArcGIS Pro SDK Videos	ArcGIS Pro SDK Ideas				



Esri Contributor

Post Options *

Yesterday, ArcGIS Pro 3.2 was released. This release was an absolute blockbuster for ideas. In total, the Pro product team implemented nearly 120 user ideas in ArcGIS Pro 3.2! Collectively, these ideas had over 1,500 kudos, making these implemented ideas some of our most popular of all time in Esri Community.

To celebrate the implementation of these ideas, I have created an overview video highlighting about 70 of the ideas implemented in this release of ArcGIS Pro. While not all ideas made it into the video, all ideas implemented in this release are included in the below text, with hyperlinks to the original idea. Any idea with a video demo will also have a timestamp that hyperlinks to the demo in the compilation video.

Without further ado, here are your ideas in ArcGIS Pro 3.2



Top 10 Most Requested X-Ray for ArcGIS Pro (0:07)

In ArcGIS PRO allow formal edit sessions for unversioned data in an enterprise GDB (0:20)



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