

ArcGIS Pro 2.5 Functionality Every GIS Professional Should Know

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Emilie Rabeau, Technical Solutions Specialist

May 13, 2020

Today's Speakers



Sepideh Sepehr
Technical Solutions Specialist



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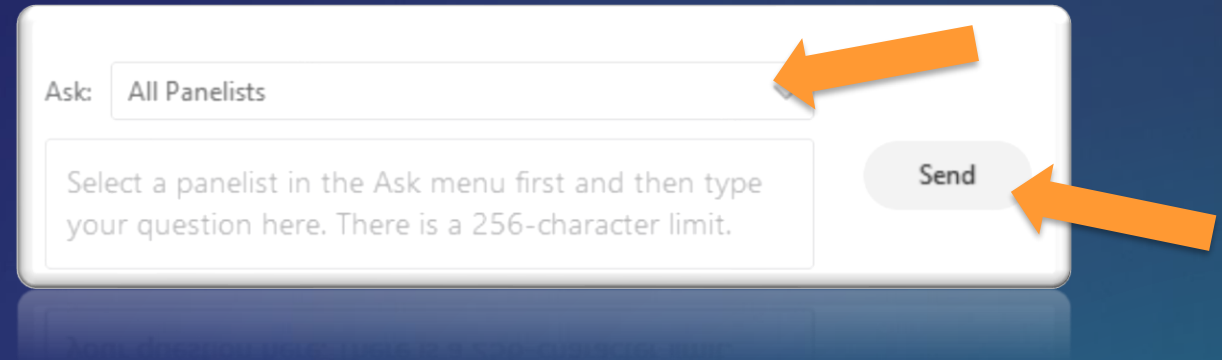


Surveys and Recordings

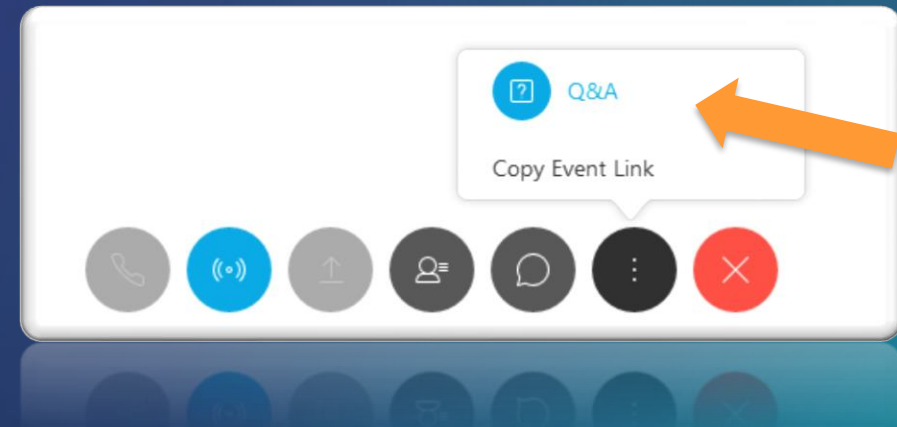
- We are recording today
- Expect an email from us with link
- Please share your thoughts on the exit survey

Open to Questions

- Please use the Q&A panel:
 - Choose *Ask: All Panelists*, type your question and click *Send*



- If you're unable to see the Q&A panel, click the three dots and then the Q&A button on the control dock at the bottom of your screen:



Today's Agenda

This webinar is designed to help you understand:

1. Explore productivity enhancements in ArcGIS Pro 2.5
2. Discover advancements in spatial data science workflows
3. Learn about advanced 3D functions

We All Have Problems We Are Trying to Solve!



Productivity enhancements

Tools that help you get the work done!

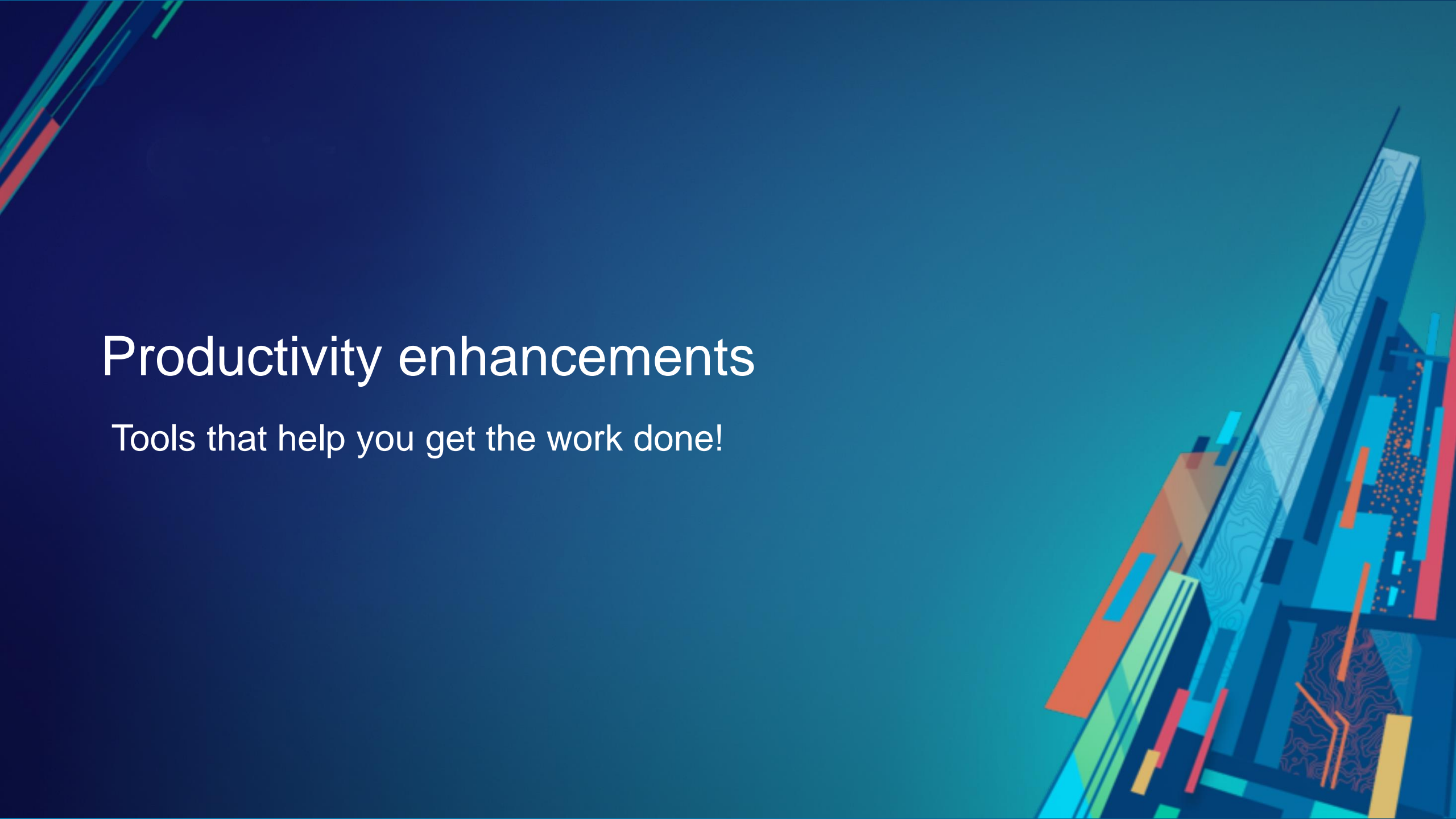




Table Enhancements



- The new Find and Replace functionality allows you to search tabular data 
- Ability to freeze one or more columns with the Free/Unfreeze Field tool 
- Set a default docking location for attribute tables

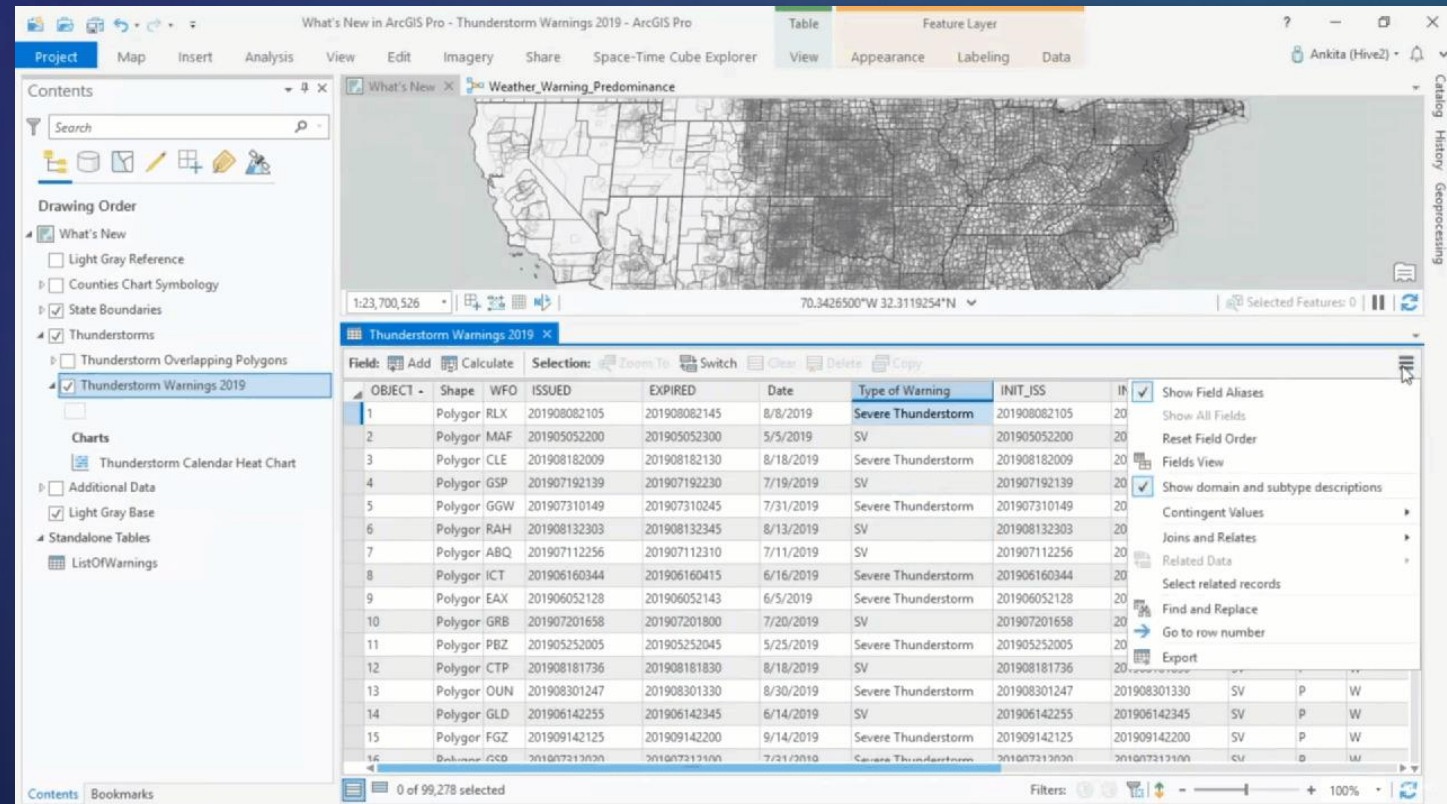


Chart Symbolology

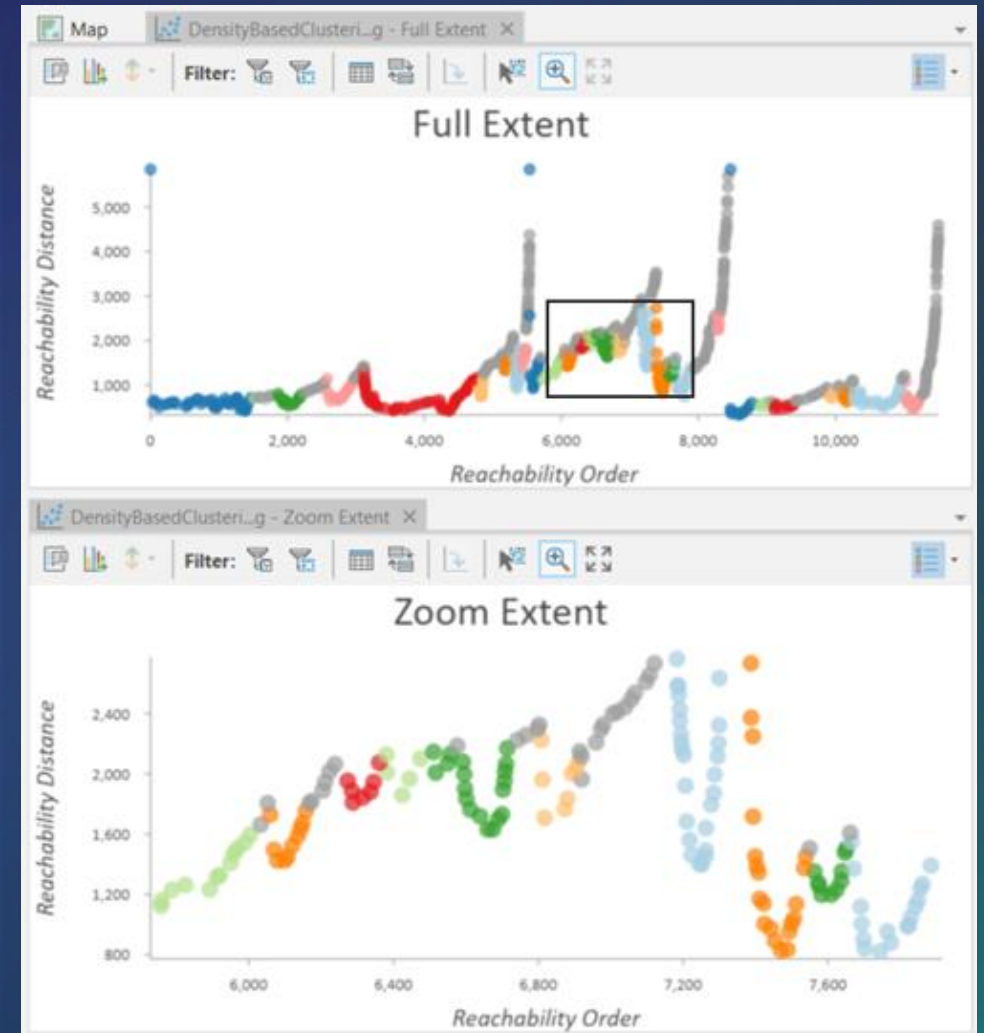


- Chart symbolology has been added for point, line and polygon features.
- Pies, bars and stacked bars are available
- Charts can be sized proportionally



Enhancements with Charts

- Chart data is rendered faster and asynchronously.
- All charts with axes have zooming and panning functionality



Demonstration I

ArcGIS Notebooks



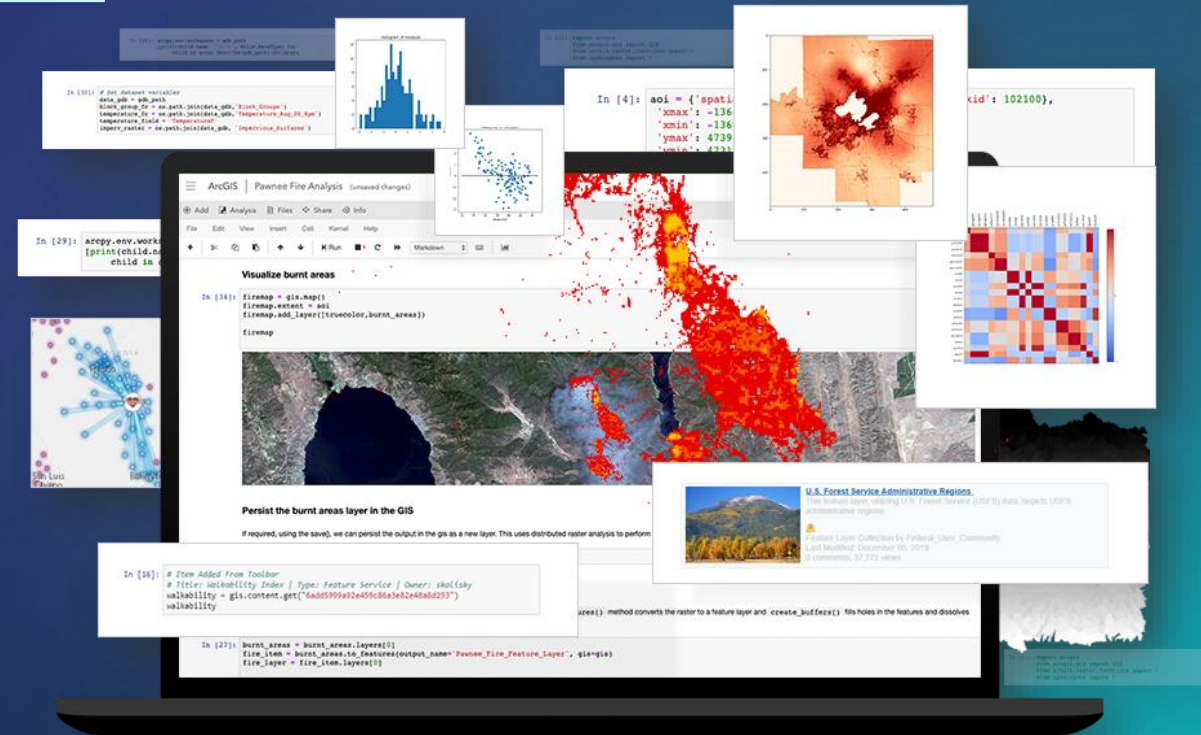
Five Tips To Get You Started With Jupyter Notebook

Introducing ArcGIS Notebooks in ArcGIS Pro

Learn more about ArcGIS Notebooks

ArcGIS Notebooks in ArcGIS Pro

Sample notebooks



Demonstration II

Review and Questions



Advancements in Spatial Data Science



Colocation Analysis

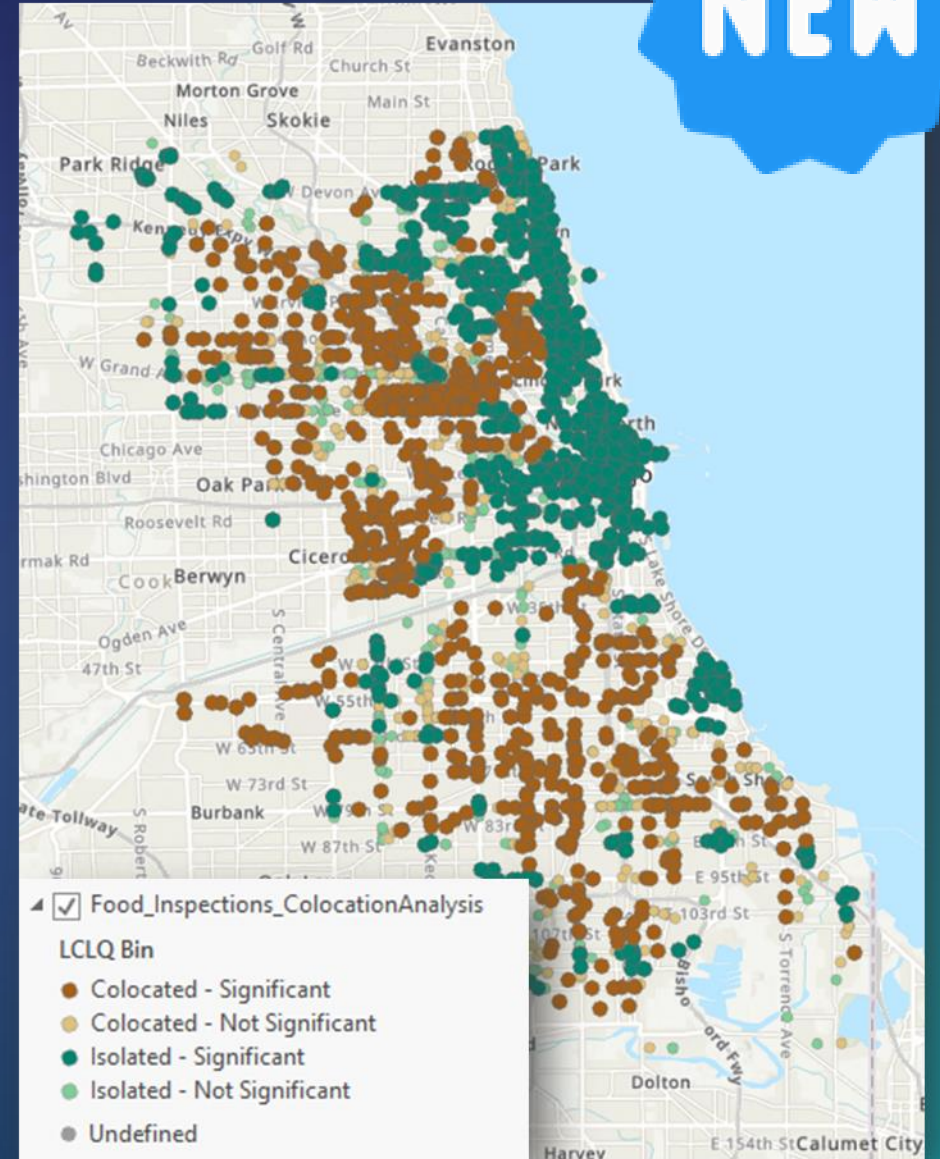
Problem

I want to know if two types of features in my dataset happen near each other in a way that is meaningful

Solution

Use spatial statistics to evaluate if the colocation of two categorical variables, or two sets of features, is statistically significant

NEW



Build Balanced Zones

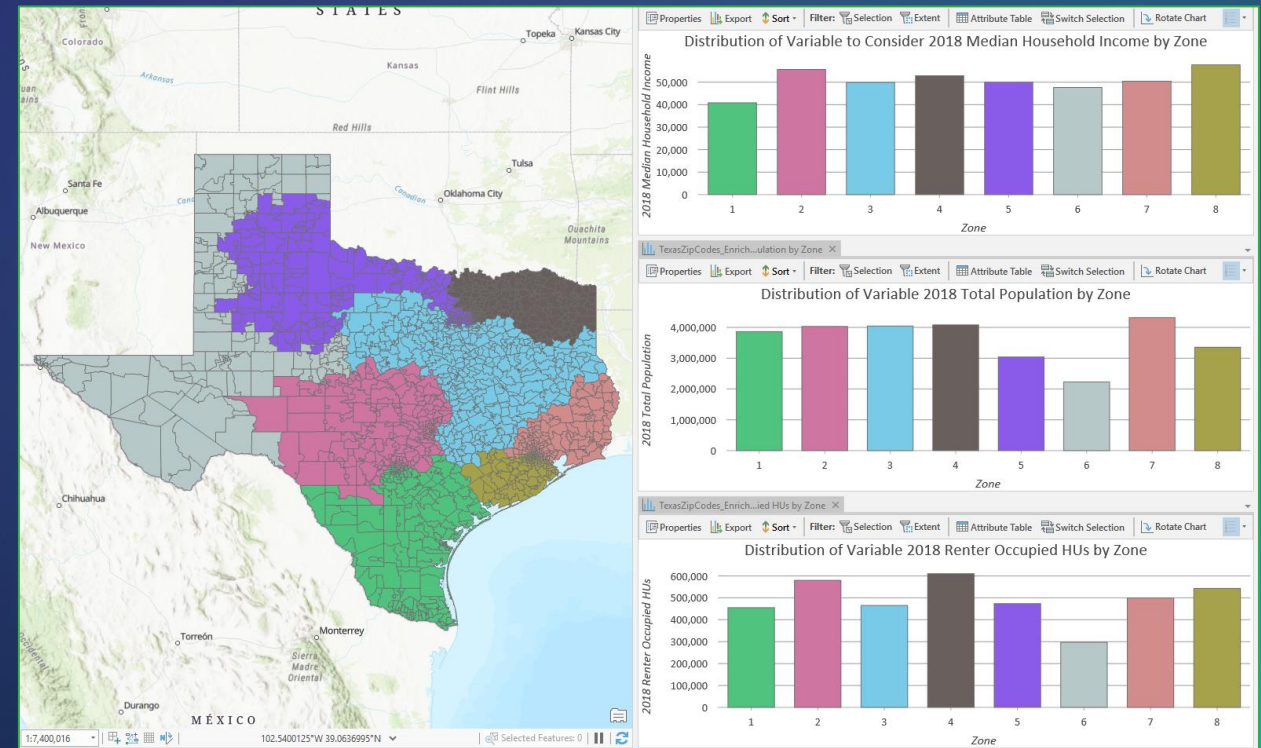


Problem

I want to create homogenous zones that are similar to each other in terms of a number of different characteristics and thresholds

Solution

Use machine learning techniques to find contiguous, homogenous zones based on criteria set by the user.



Local Bivariate Relationships

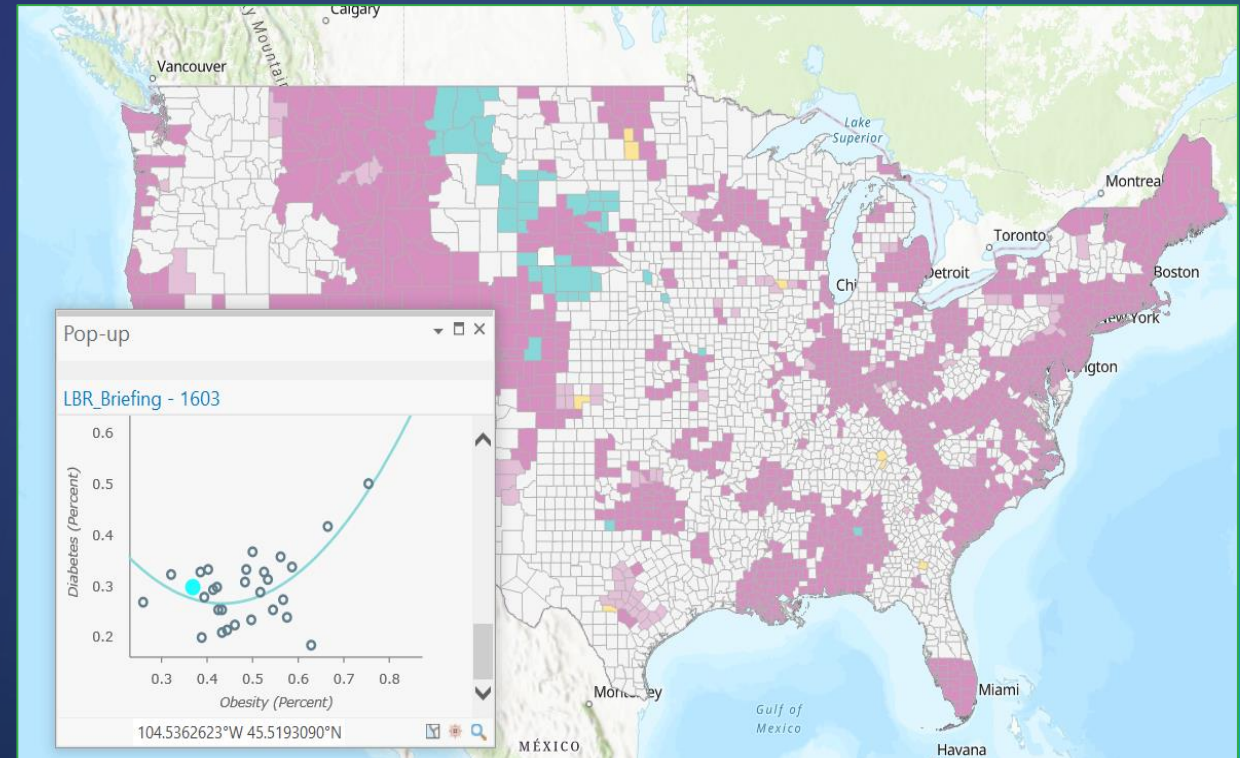


Problem

I want to build on my bivariate visualization and start to really understand if the patterns that I'm seeing are meaningful.

Solution

Use statistical techniques to evaluate the local relationship between two variables

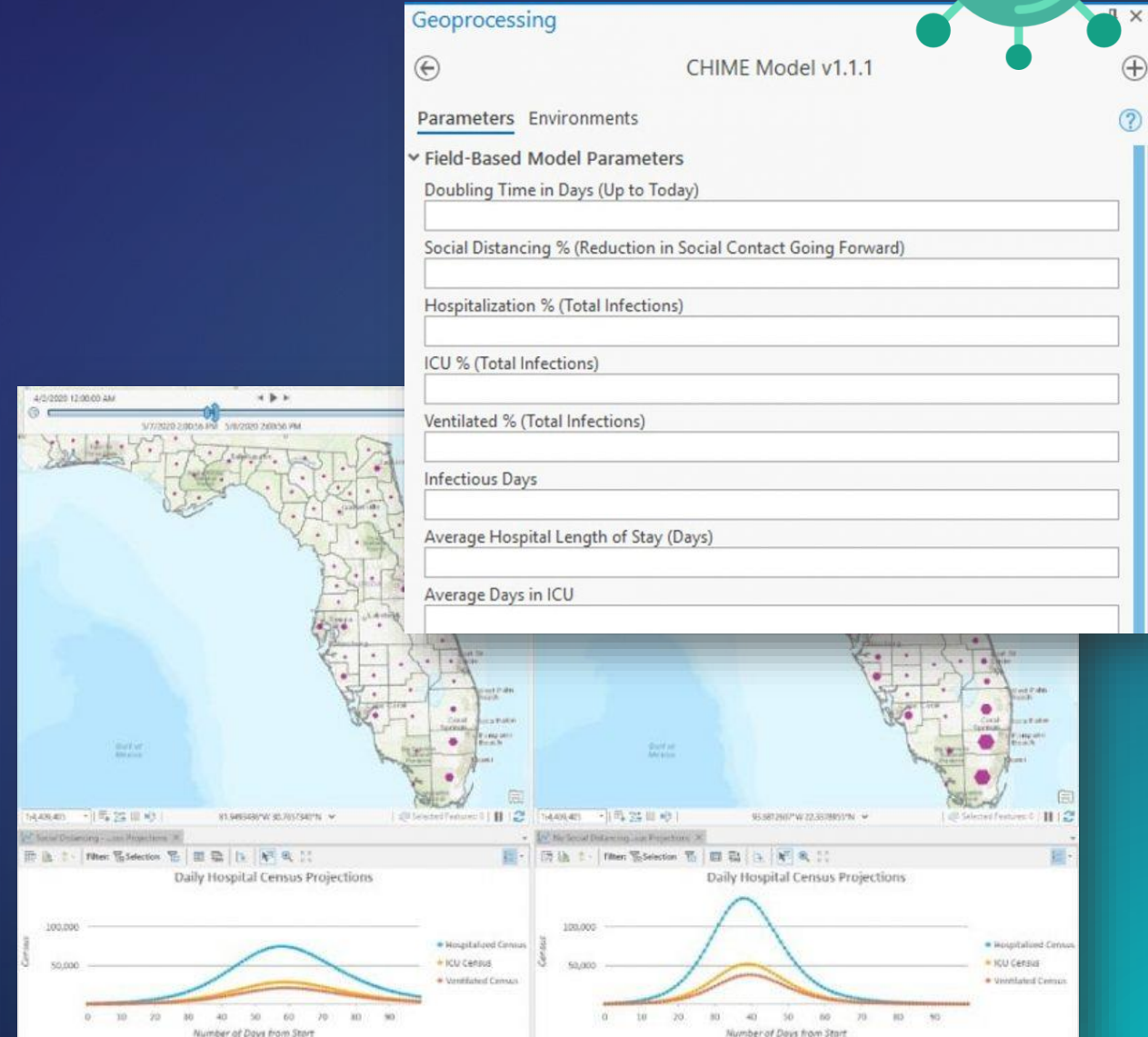


ArcGIS Pro COVID-19 Modeling Toolbox



- The **CHIME model** provides up-to-date estimates of how many people will need to be hospitalized, and of that number how many will need ICU beds and ventilators.
- It also factors social distancing policies and how they might impact disease spread.

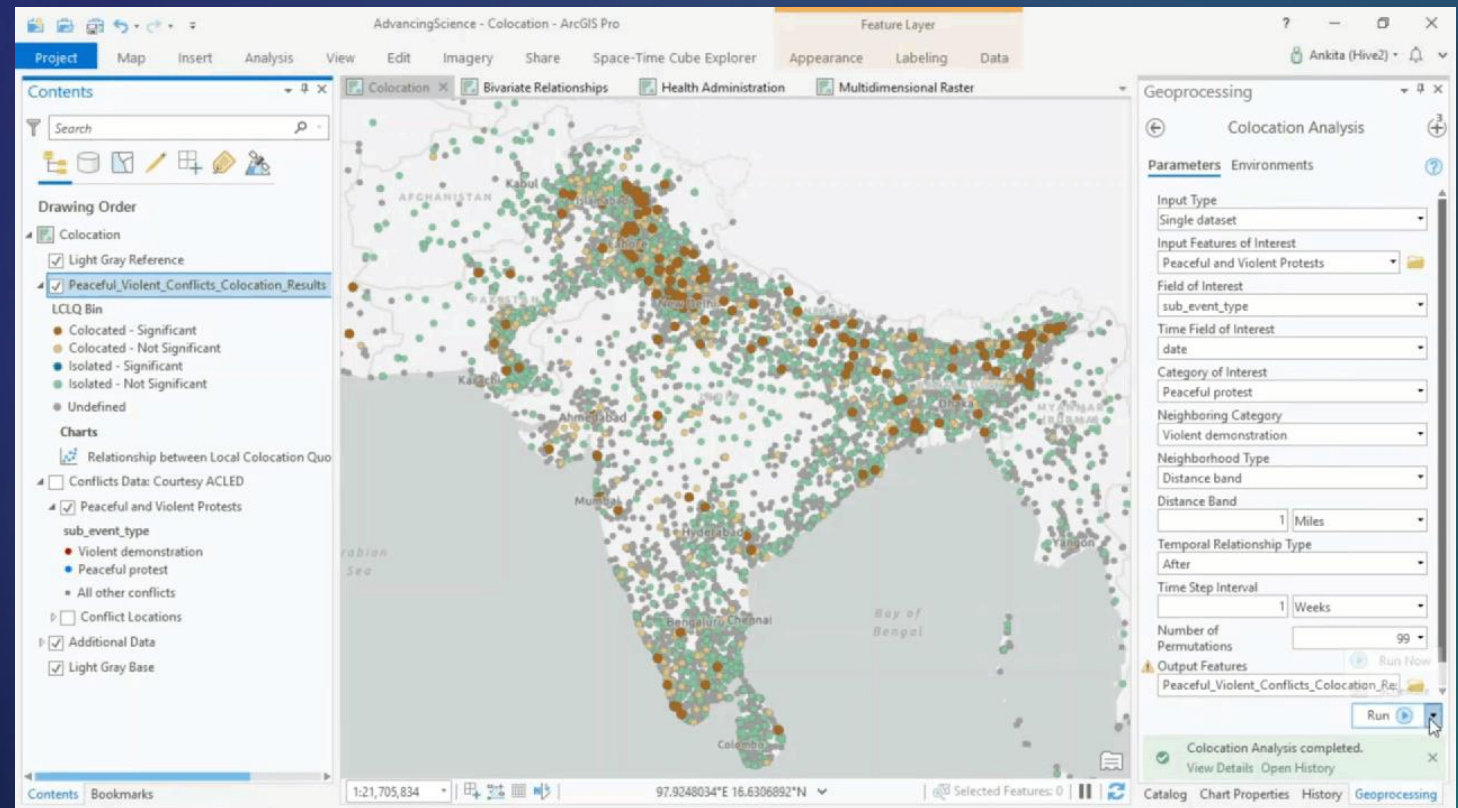
Find the [CHIME Geoprocessing Tool](#) here.



Tools that help you get the work done!

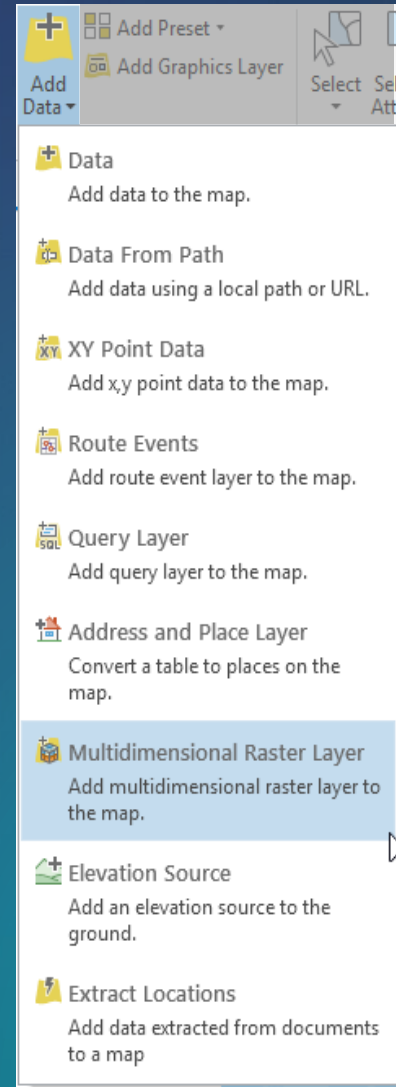
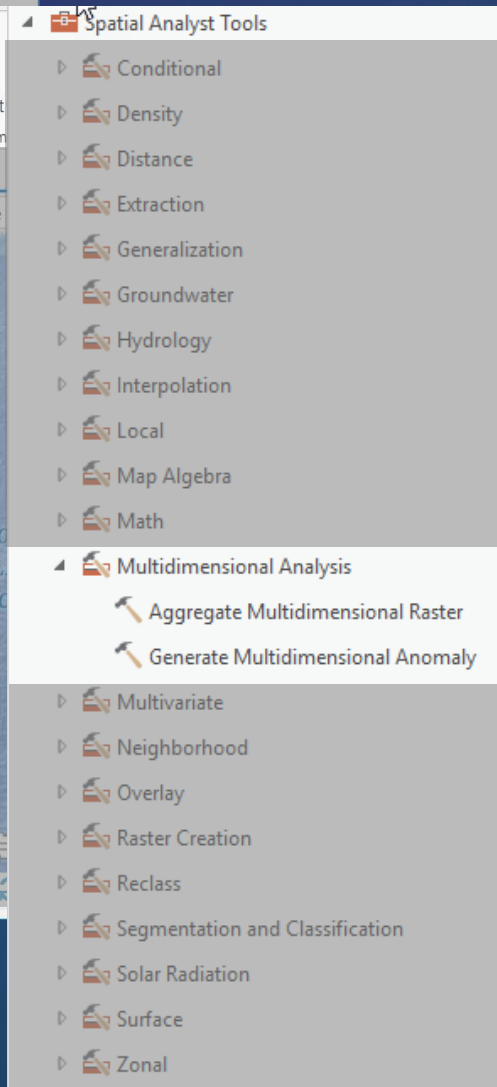
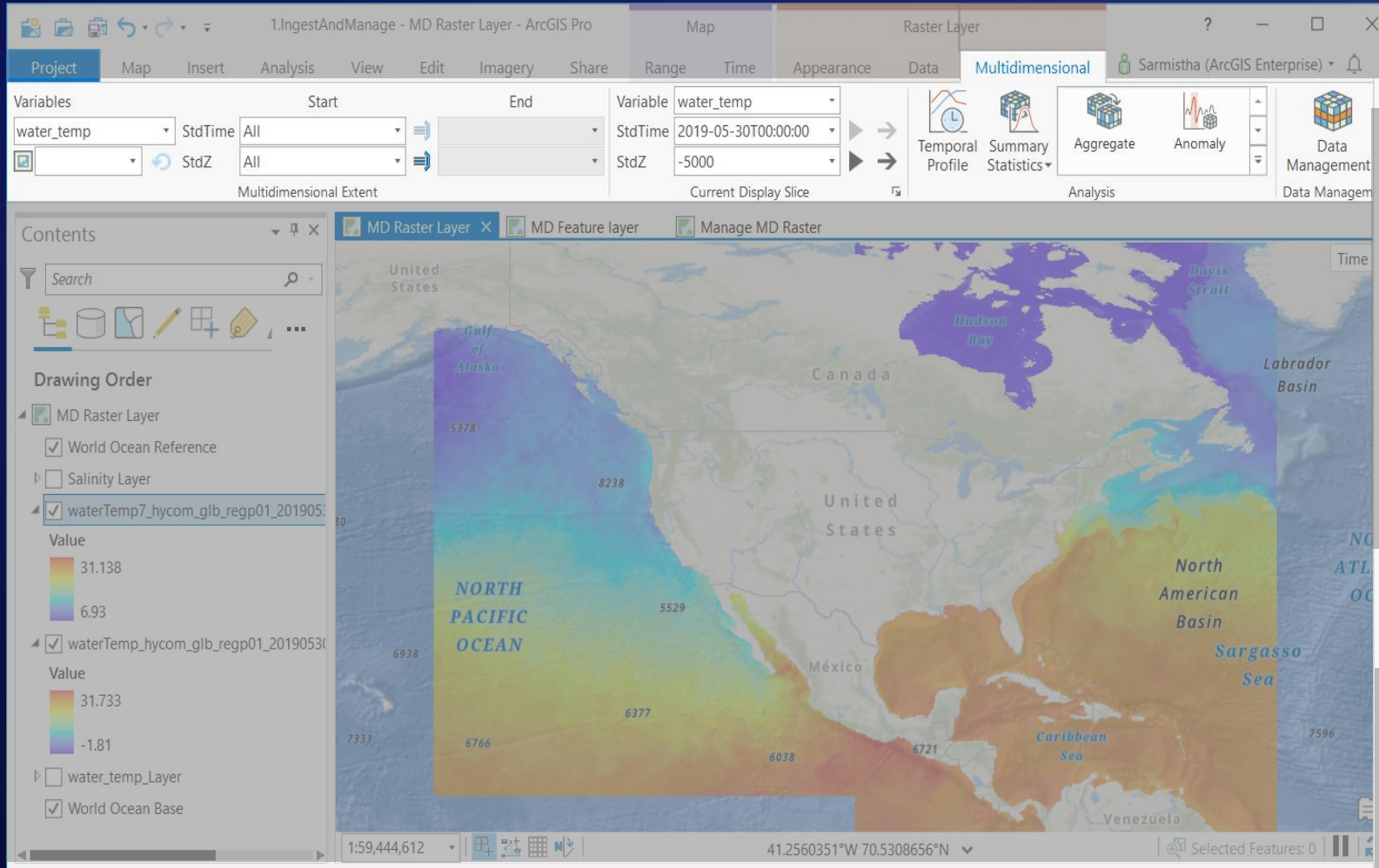
NEW

- Ability to schedule analytical tools to run later or with recurrence



Demonstration III

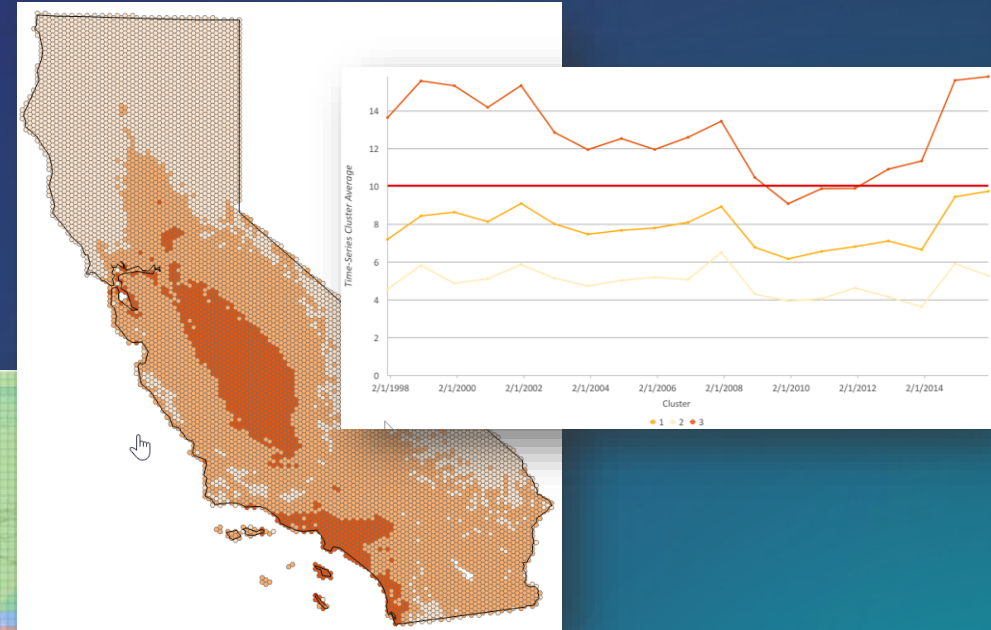
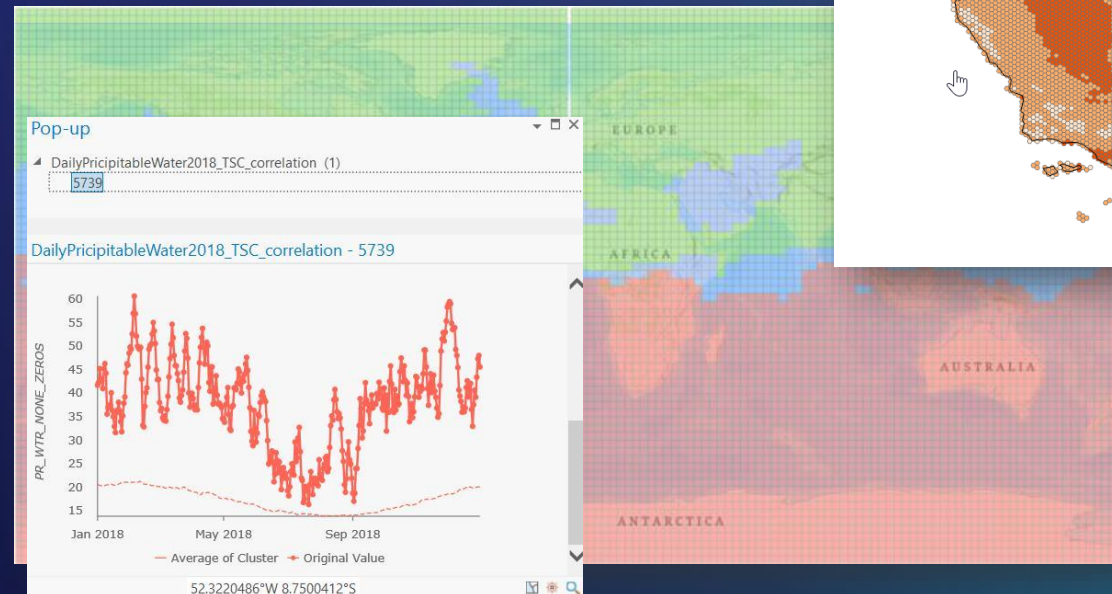
Working with Multidimensional Data



Explore Your Raster Data with Space Time Pattern Mining



- Time Series Clustering tool
- Create Space Time Cube from Multidimensional Raster Layer tool



Demonstration IV

Review and Questions



3D Functionalities

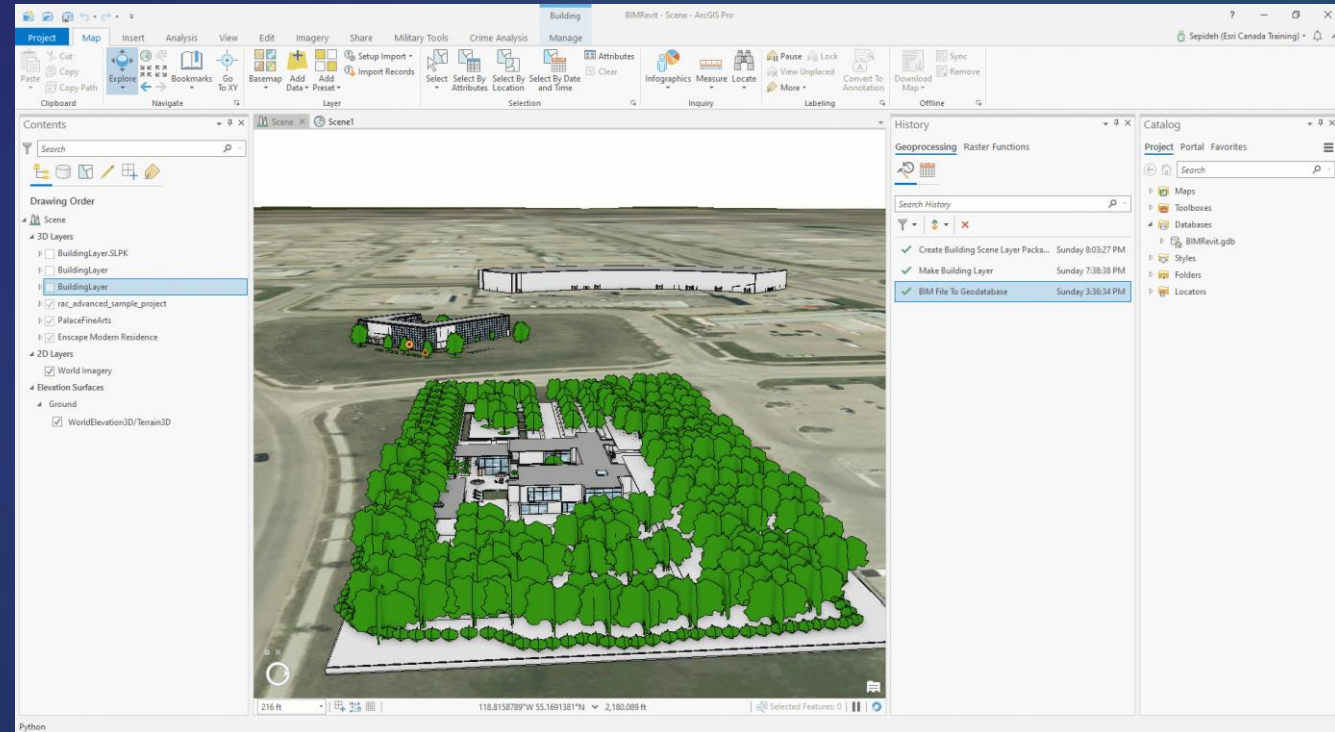
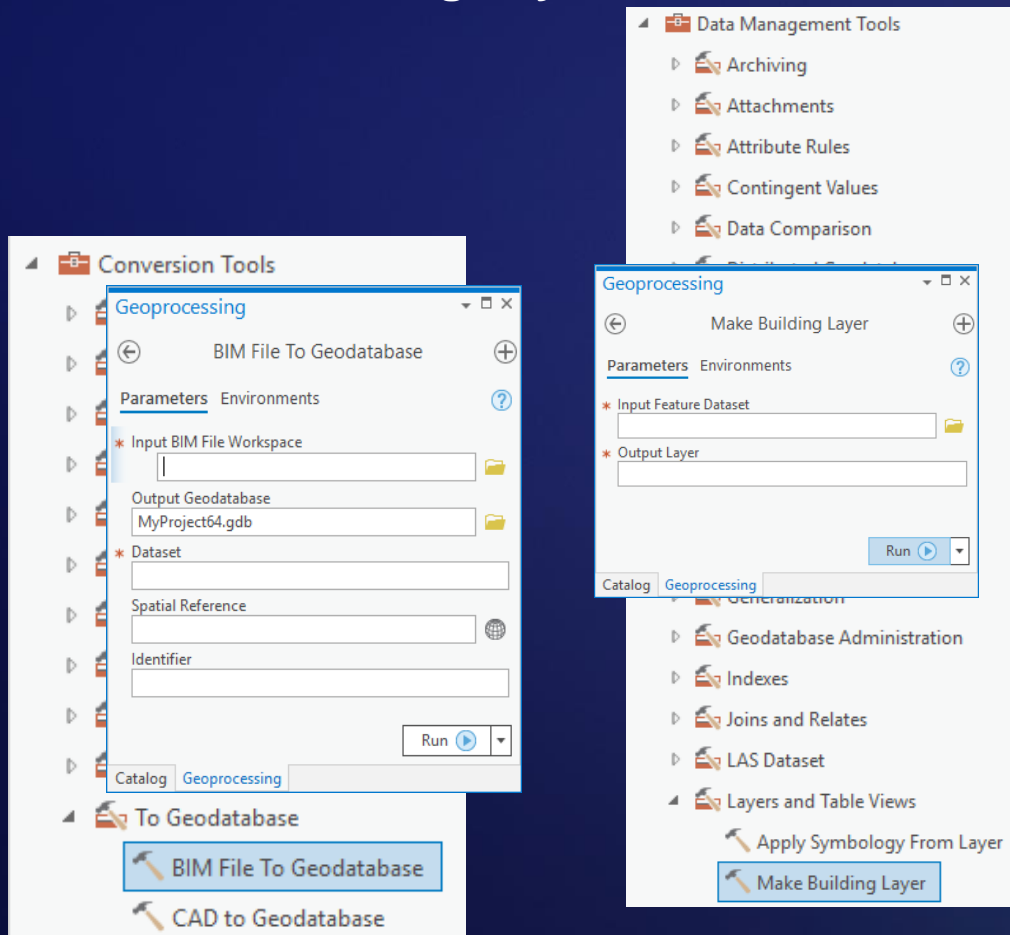


Revit



Handling multiple BIM datasets

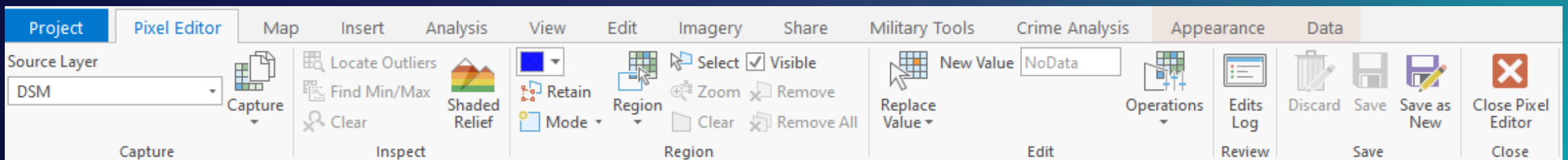
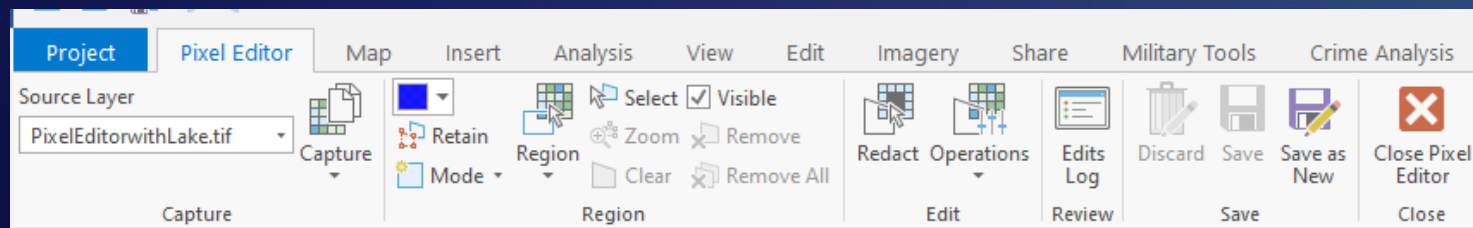
- BIM File to Geodatabase
- Make Building Layer



Pixel Editor

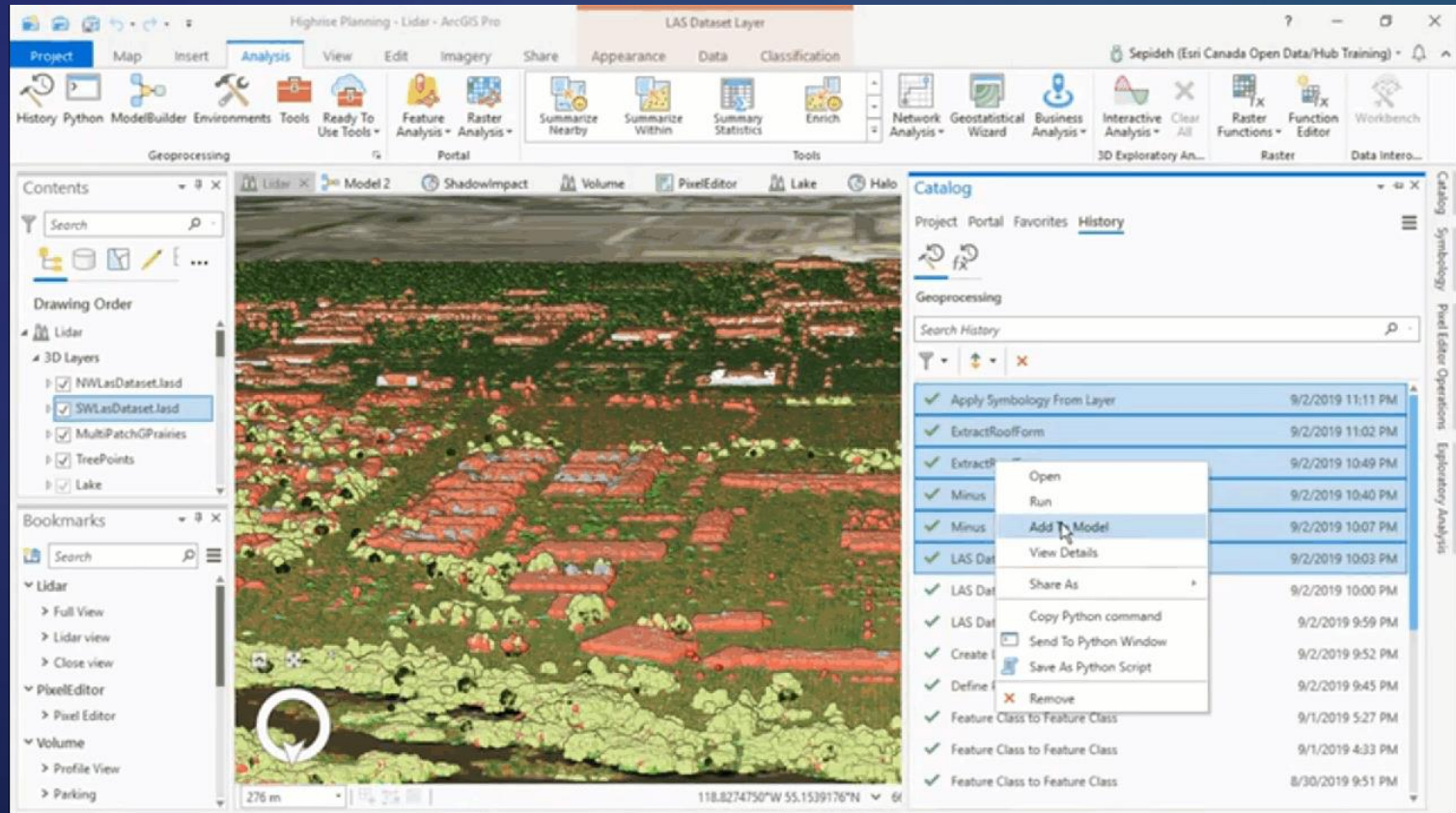
Operations have been added to the Pixel Editor:

- Custom Processing
- Interpolate from Edges
- Replace pixels



Tools that help you get the work done!

The output Python code generated by the **Export To Python File** and **Send To Python Window** commands has been enhanced.



What's coming next for 3D at Esri?

Pro 2.4

- Building scene layer
- 3D Slice, Merge, & Explode
- Water effects
- Cut & Fill tools
- Profile Viewing
- 3D Empirical Bayesian Kriging

New at Pro 2.5

- Mobile Scene Packages
- Multi BIM File to GDB
- New 3D Editing Options
- Building Scene Layer
- Performance Updates
- 3D symbols styles

Midterm +

- Civil 3D DWG import
- BIM 360 Catalog view
- Color & Texture Support from Revit
- Voxel desktop UX
- Voxel web experience
- IFC Import (Future)
- Indoor navigation in 3D scenes

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Review and Questions



Summary

In this webinar you learned about:

- Productivity enhancements like the Find and Replace tool and scheduling;
- Some great spatial data science tools like Colocation Analysis tool;
- Discovered available enhancements in 3D capabilities.



YOUR IDEAS — IN MOTION

- ArcGIS Pro 2.5 has delivered over 60 user-requested enhancements, many of them being ArcMap equivalency requests.

Visit the [ArcGIS Ideas](#) site to view the status of a request or to submit a new idea!

ArcGIS® Pro Roadmap



Near-term

- Map Graphics
- Parcel Adjustment
- Trace Networks
- Non-Spatial Objects in Utility Networks
- Voxel Layers
- Mesh Manipulation
- Geoprocessing Leveraging Spatial Databases
- Interactive Suitability Analysis
- Link Analysis
- New Extensions & Solutions
- GPS Support
- Bivariate Symbolology
- Data Engineering

Mid-term

- Catalog Layers
- Linear Reference Editing
- Knowledge Graphs
- Big Data Connections
- Projects in the Enterprise
- Material Textures
- Multipatch Editing Enhancements
- Multipatch Editing in Stereo
- Layer Blend Modes
- Presentations
- Dynamic Feature Clustering
- Voxel Layer Sharing
- Animated Symbols

Long-term

- Terrain Editing
- 3D Mesh as ground
- High Fidelity rendering

February 2020

Are you currently working from home?

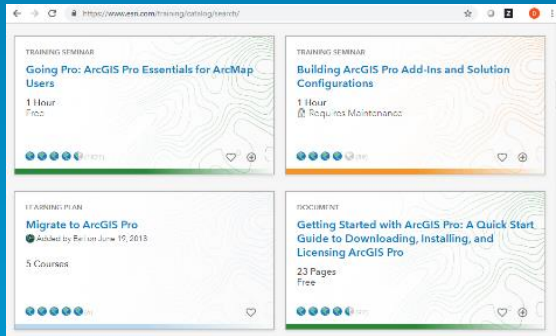
Blogs

- [How to access Esri technology while working from home](#)
- [Comment accéder à la technologie Esri tout en travaillant à la maison](#)
- [Working Well Remotely](#)

Webinars:

[Working from Home: ArcGIS Pro...Cloud hosted virtualization](#)

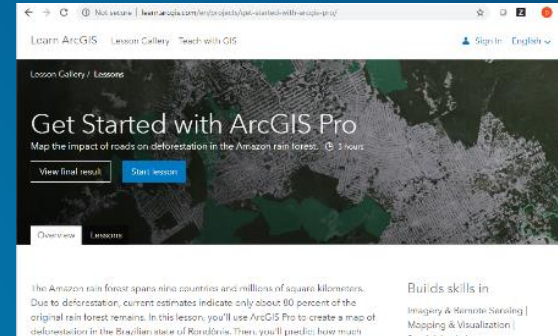
Resources



[Training Classes](#)



[Videos](#)



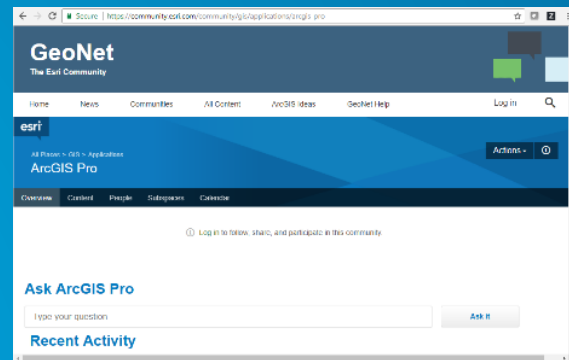
[Learn.ArcGIS.com](#)



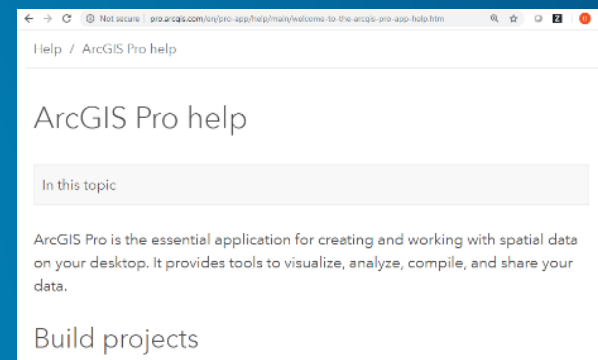
[Blogs](#)



[Esri User Conference](#)



[GeoNet](#)



[Help](#)



[Developer Resources](#)

Esri Canada Resources

- Upcoming webinars & events

- [Creating Tailored Web Page Experiences with ArcGIS Enterprise Sites](#), May 21, 2020
- [Tips & Tricks: GIS Solutions for COVID-19 Government Response](#), May 28, 2020
- [Online Bling: 6ix Headlines from ArcGIS Online](#), June 18, 2020

- Related training courses

- [Migrating from ArcMap to ArcGIS Pro](#)
- [Spatial Analysis with ArcGIS Pro](#)
- [ArcGIS Pro: Working with ModelBuilder](#)

Thank You

- The recording will be available online at: resources.esri.ca/webinars
- If you have any additional questions about the content presented to you, feel free to contact us:
 - Sepideh Sepehr, ssepehr@esri.ca
 - Emilie Rabeau, erabeau@esri.ca

Connect with us @esricanada



Resources Mentioned During Webinar

- Spatial Data Analysis Resources
 - <https://spatialstats.github.io/>
- LIDAR Data Resources
 - <https://canadiangis.com/free-canada-lidar-data.php>
- Early Adopter Program
 - <https://www.esri.com/en-us/early-adopter>



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