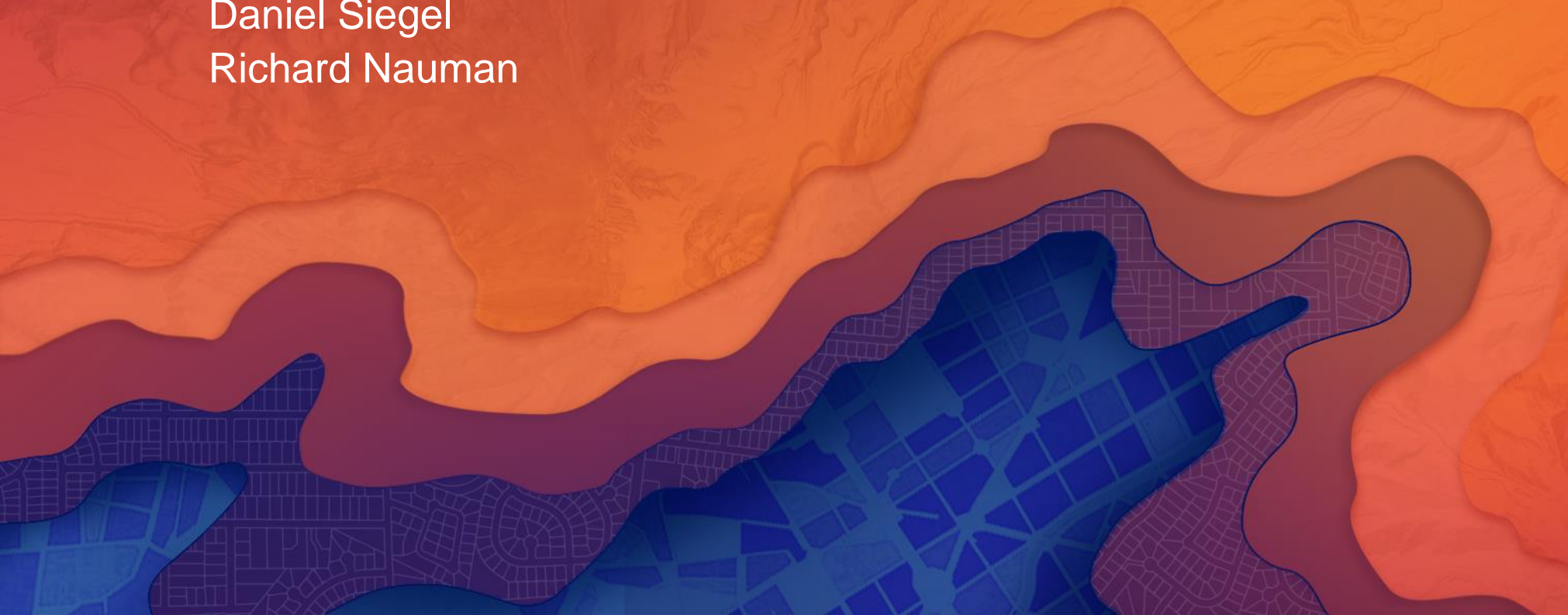


Using Living Atlas Layers in your Analysis

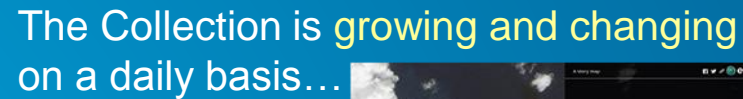
Deniz Karagulle

Daniel Siegel

Richard Nauman



Maps and Layers from Esri and Thousands of Contributors



... with Curated Content on Many Topics

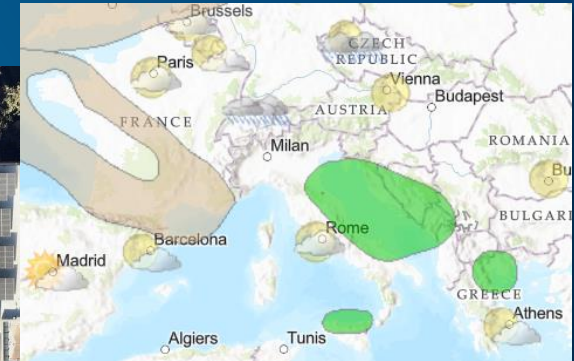
A word cloud of GIS-related terms on a blue background. The words are in various shades of blue and white, with different font sizes and orientations. The terms include: Transportation, Weather, Historical, Landscape, Habitats, Urban Systems, Basemaps, Elevation, Boundaries, Soils, Land Cover, Hazards, Imagery, Hydro, Observations, Oceans, and Demographics. The words are arranged in a dense, overlapping manner, with some words appearing more prominently than others.

Content is Published by Esri, Users, and Partners

Built by the ArcGIS Community and Curated by Esri

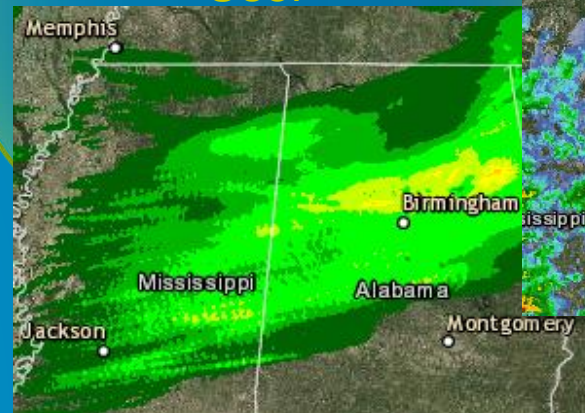
Esri
Content
COMMUNITY

7cm nearmap imagery



AccuWeather Sever Weather

NOAA Precip. Estimates



Real-Time Observations



Weather Radar



Accessing the Living Atlas through ArcGIS

Multiple ways to Experience the Living Atlas through ArcGIS Apps

- **ArcGIS Online & ArcGIS Enterprise (Portal) 10.5!**

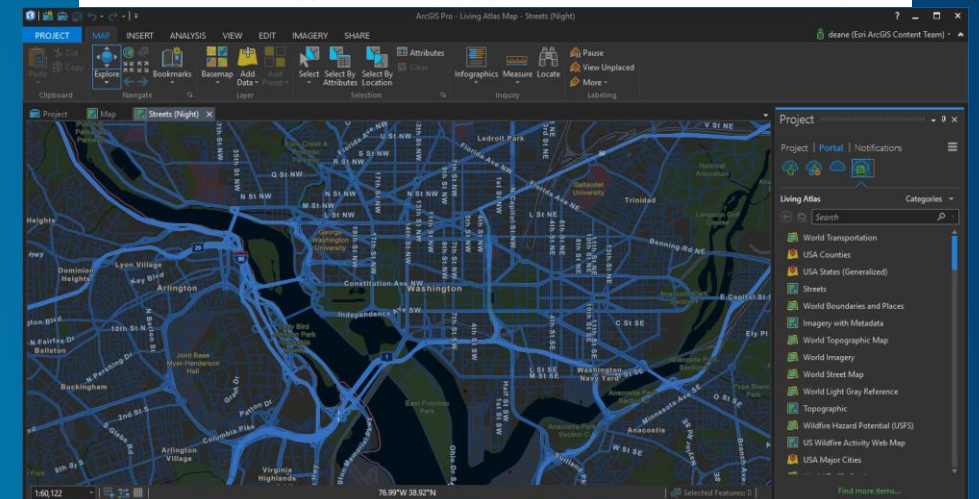
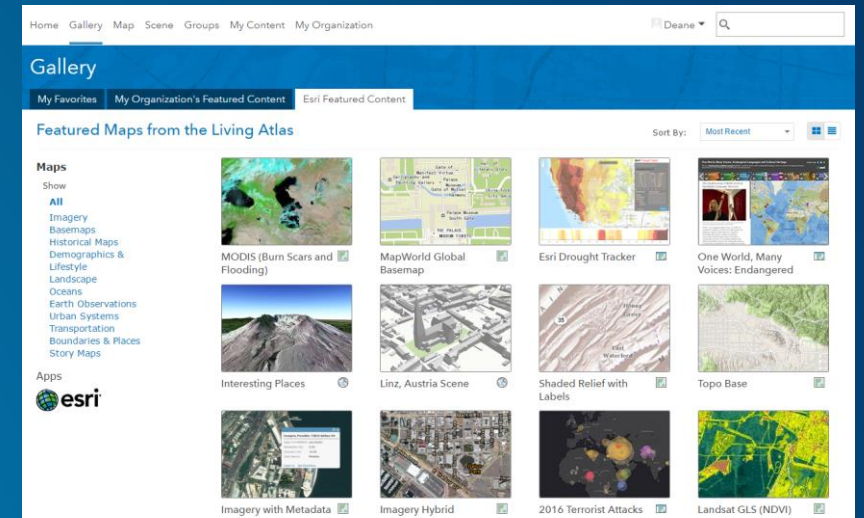
- Gallery: Esri Featured Content
- Add Data: Browse Living Atlas Layers
- Analysis: Choose Living Atlas Layers

- **Living Atlas of the World Website**

- Browse and preview maps, layers, and tools

- **ArcGIS Desktop**

- ArcGIS Pro 1.2+
- Open Maps, Add Layers, Perform Analysis

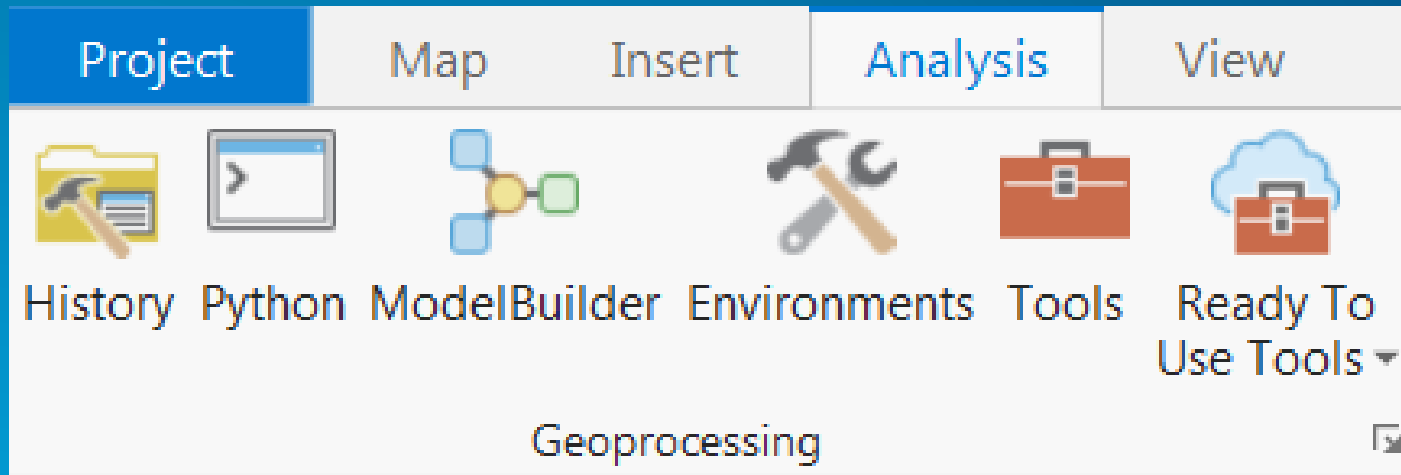


Esri Content Portfolio within Living Atlas

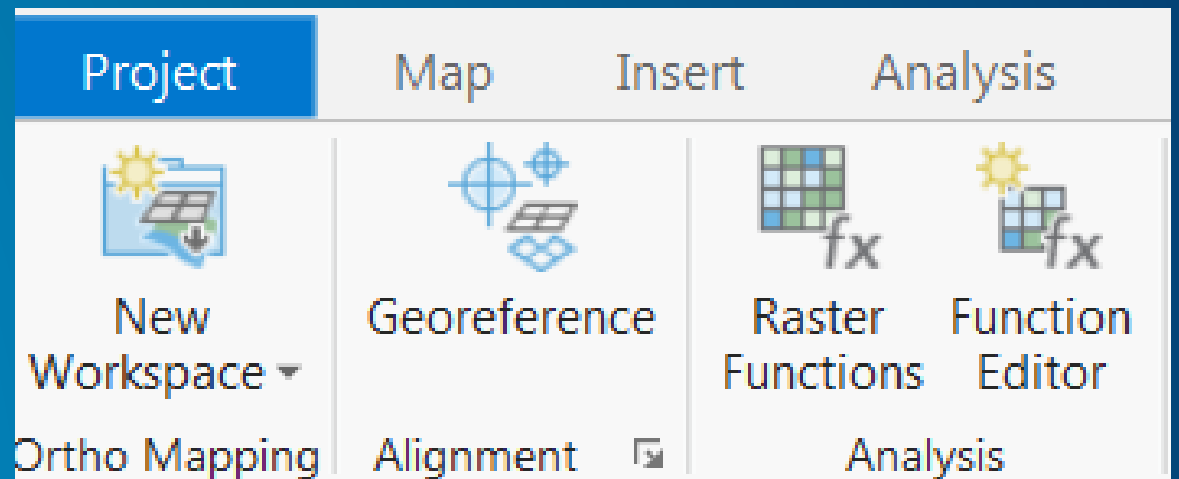




Geoprocessing Tools or Raster Functions?



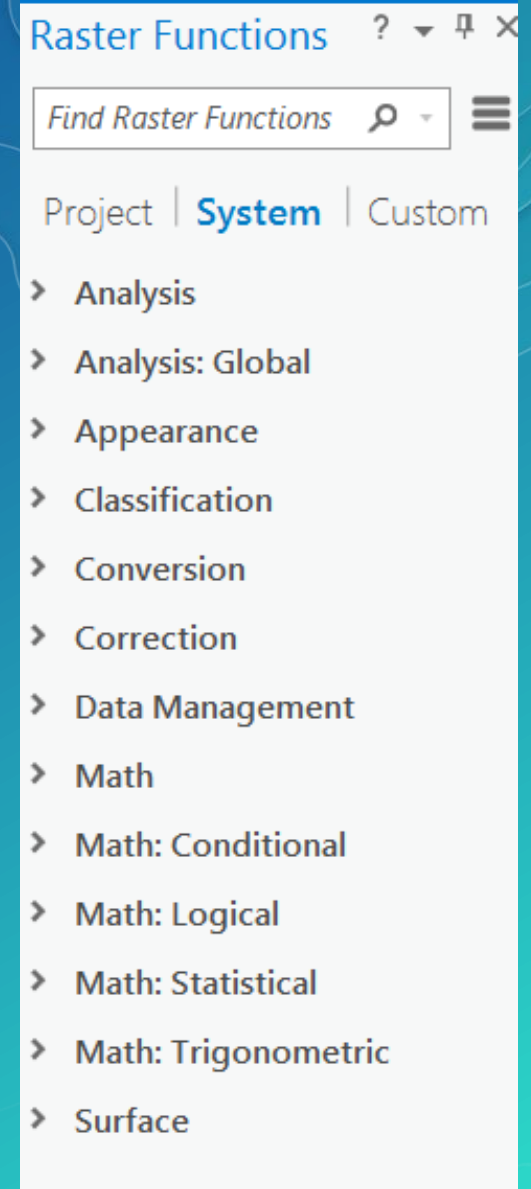
Geoprocessing Tools



Raster Functions

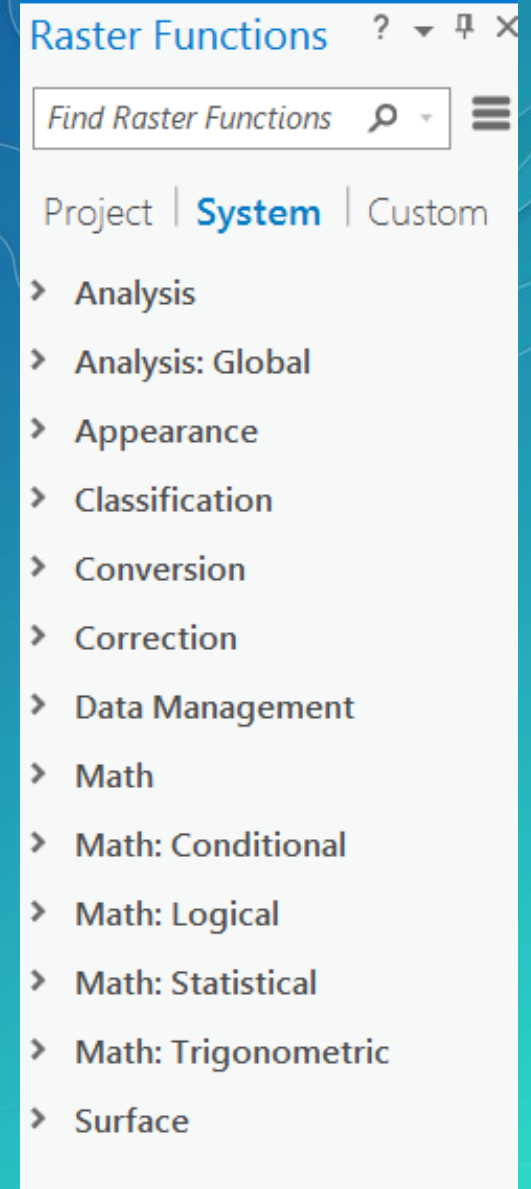
What are Raster Functions?

- Perform data analysis and generate on-the-fly information layers based on view extent
- Apply directly to the pixels of the imagery
- Do not save any intermediate data to disk



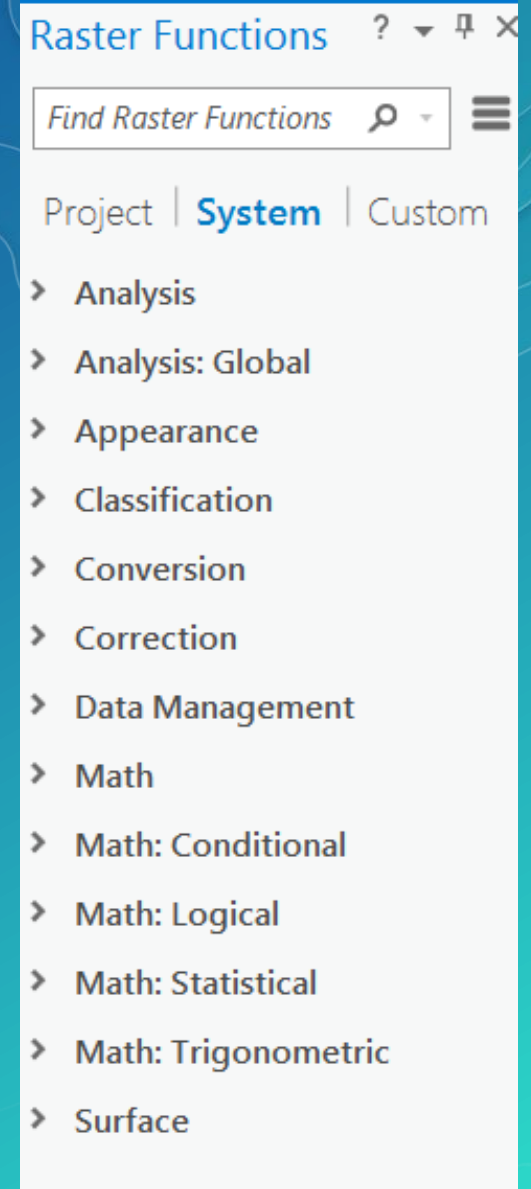
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Steps

1. Create a customized raster function in Raster Function Editor
2. Use data from Living Atlas, set appropriate parameters, and applied raster functions to image services.
3. How to share this workflow with a coworker by creating a raster function template item in AGOL
4. Import this raster function template item to our map

Steps

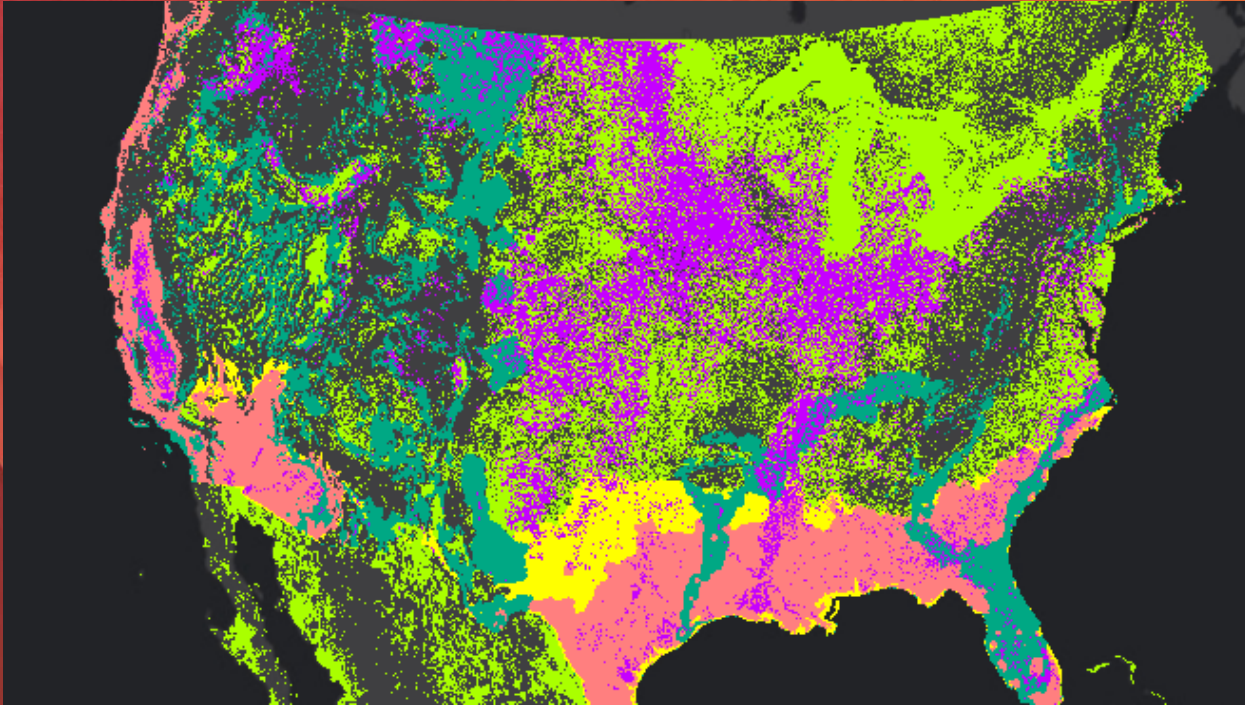
1. Create a customized raster function in Raster Function Editor
2. Use image services from the Living Atlas, set parameters, and applied raster functions to image services.
3. How to share this workflow with a coworker by creating a raster function template item in AGOL
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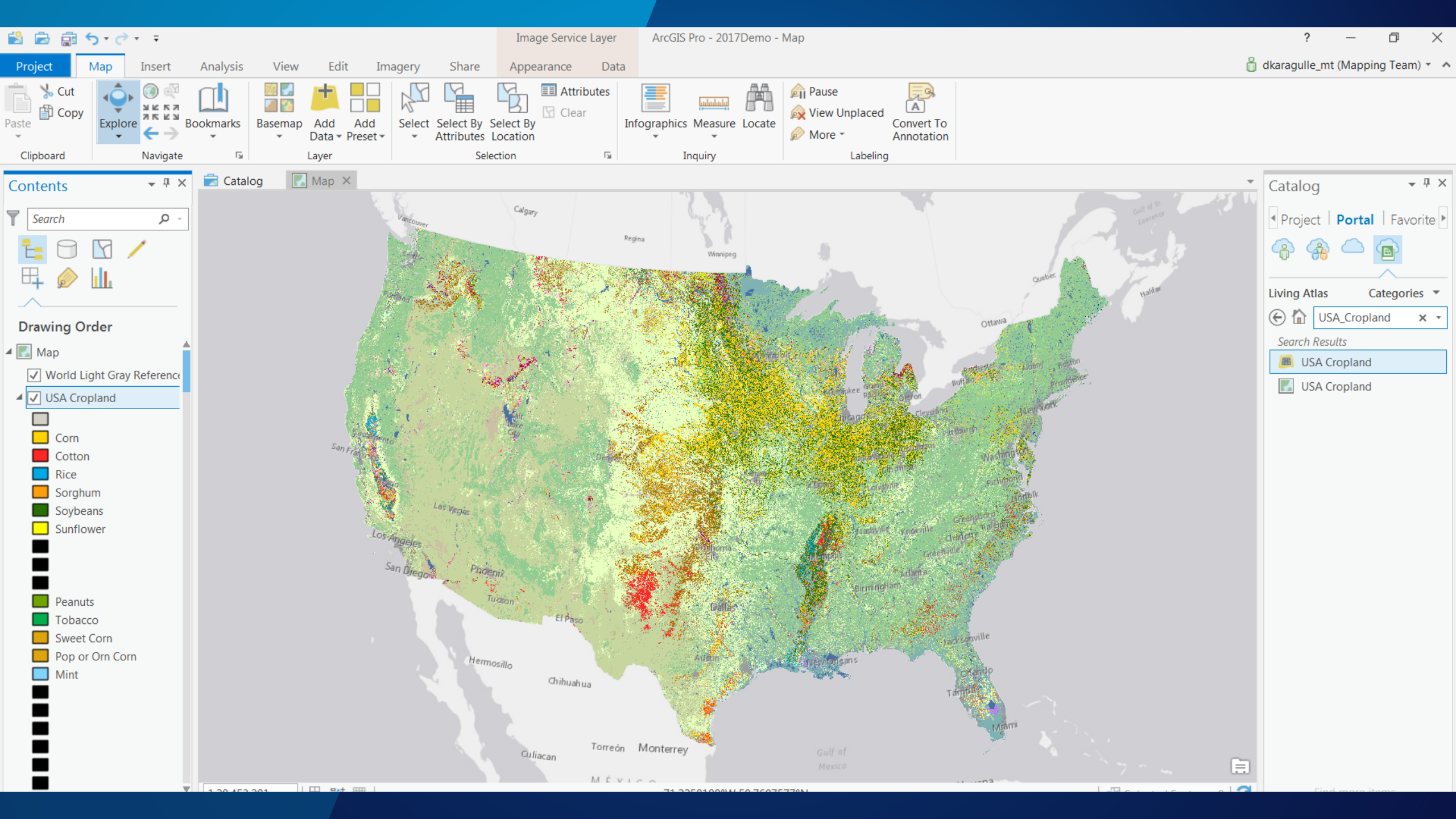
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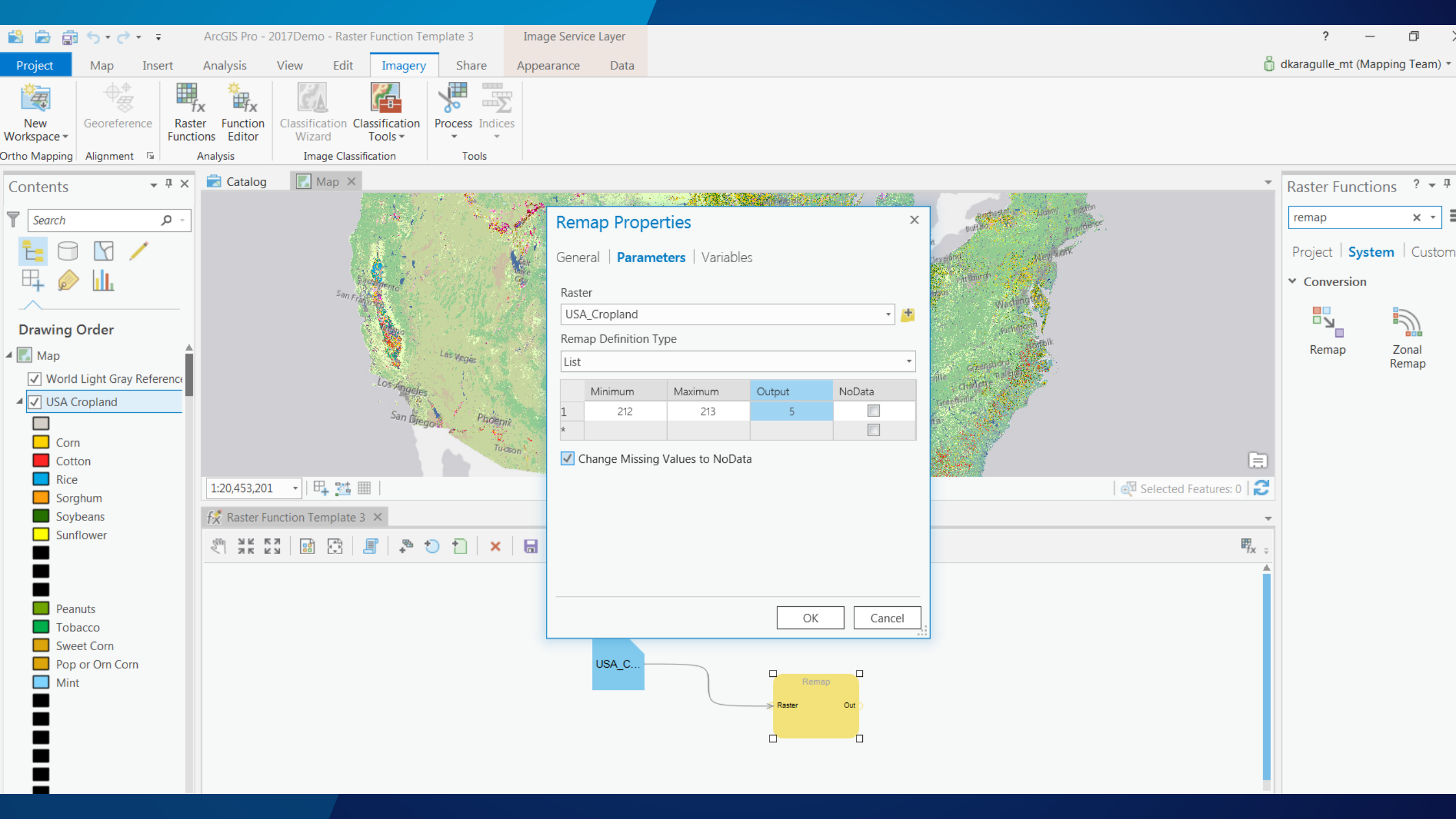
Steps

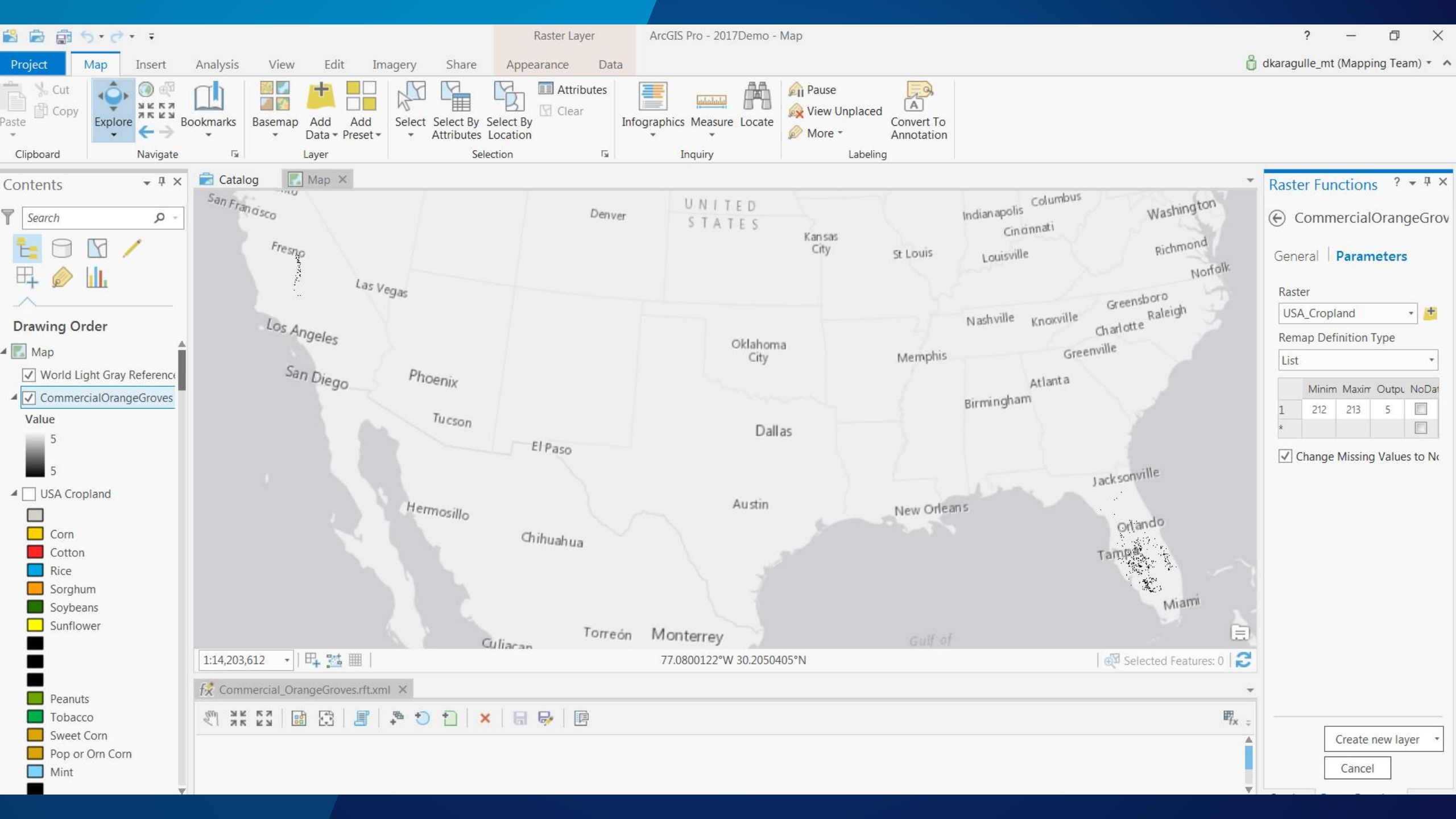
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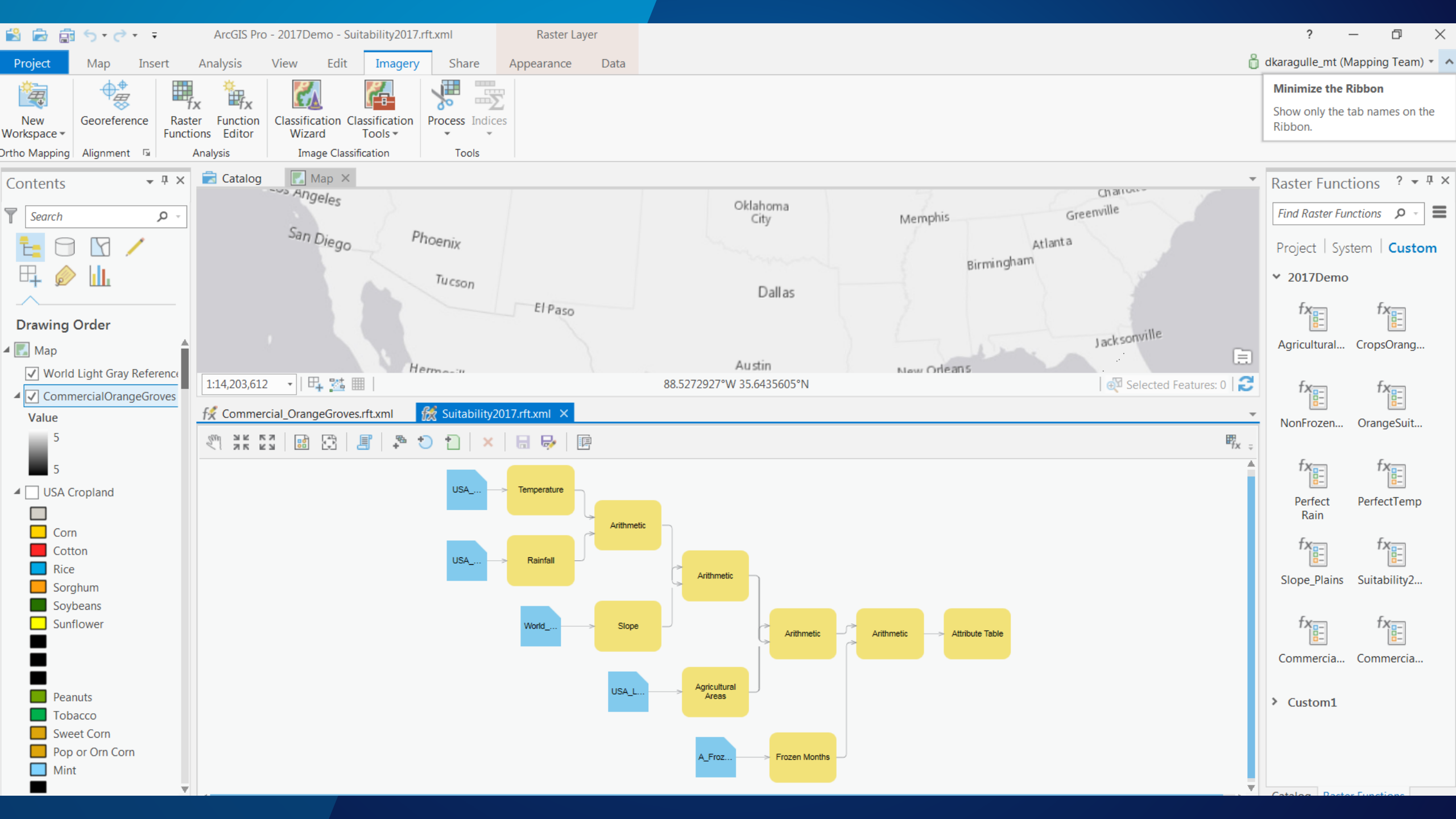


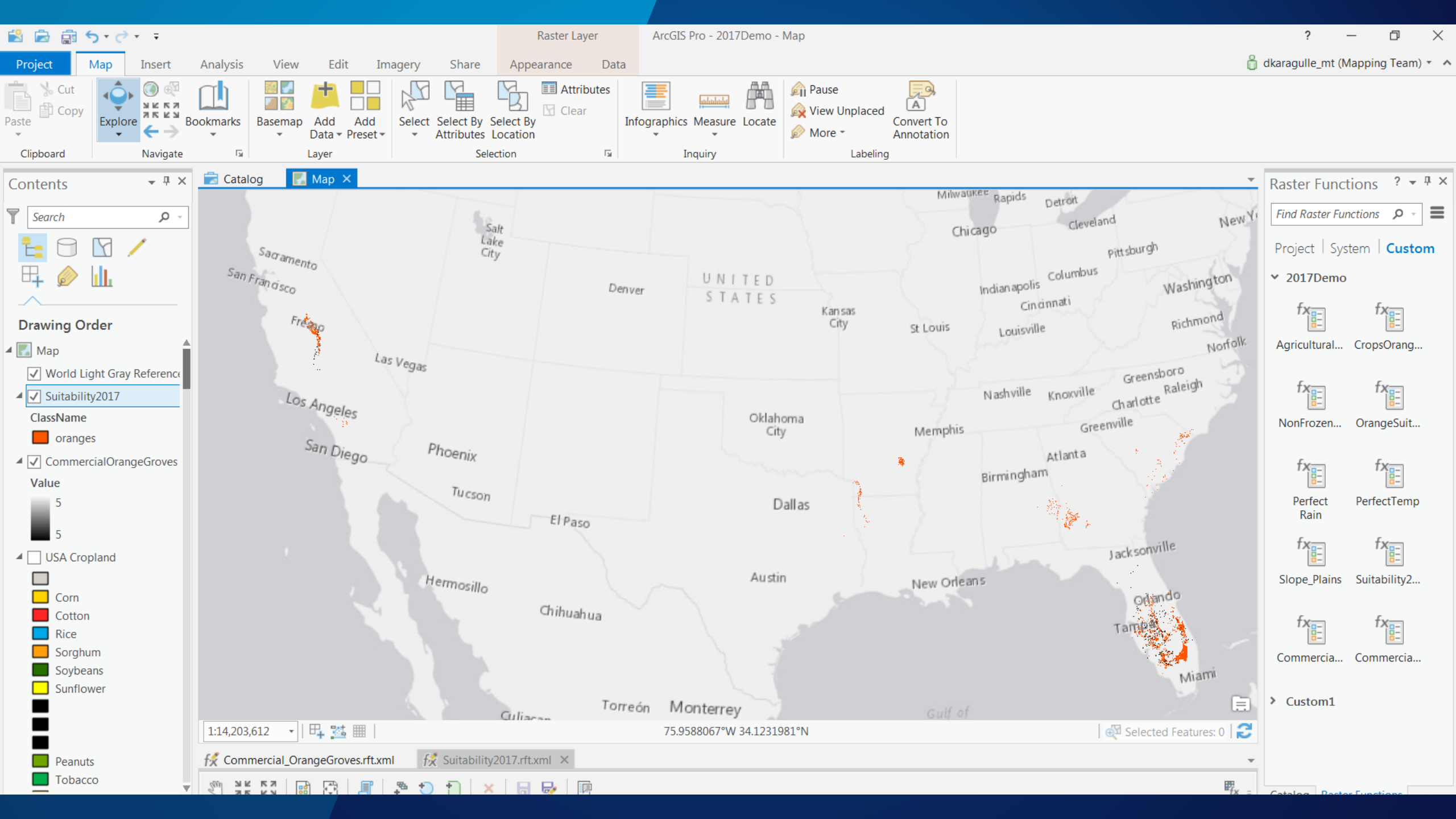
Where are the
Oranges?

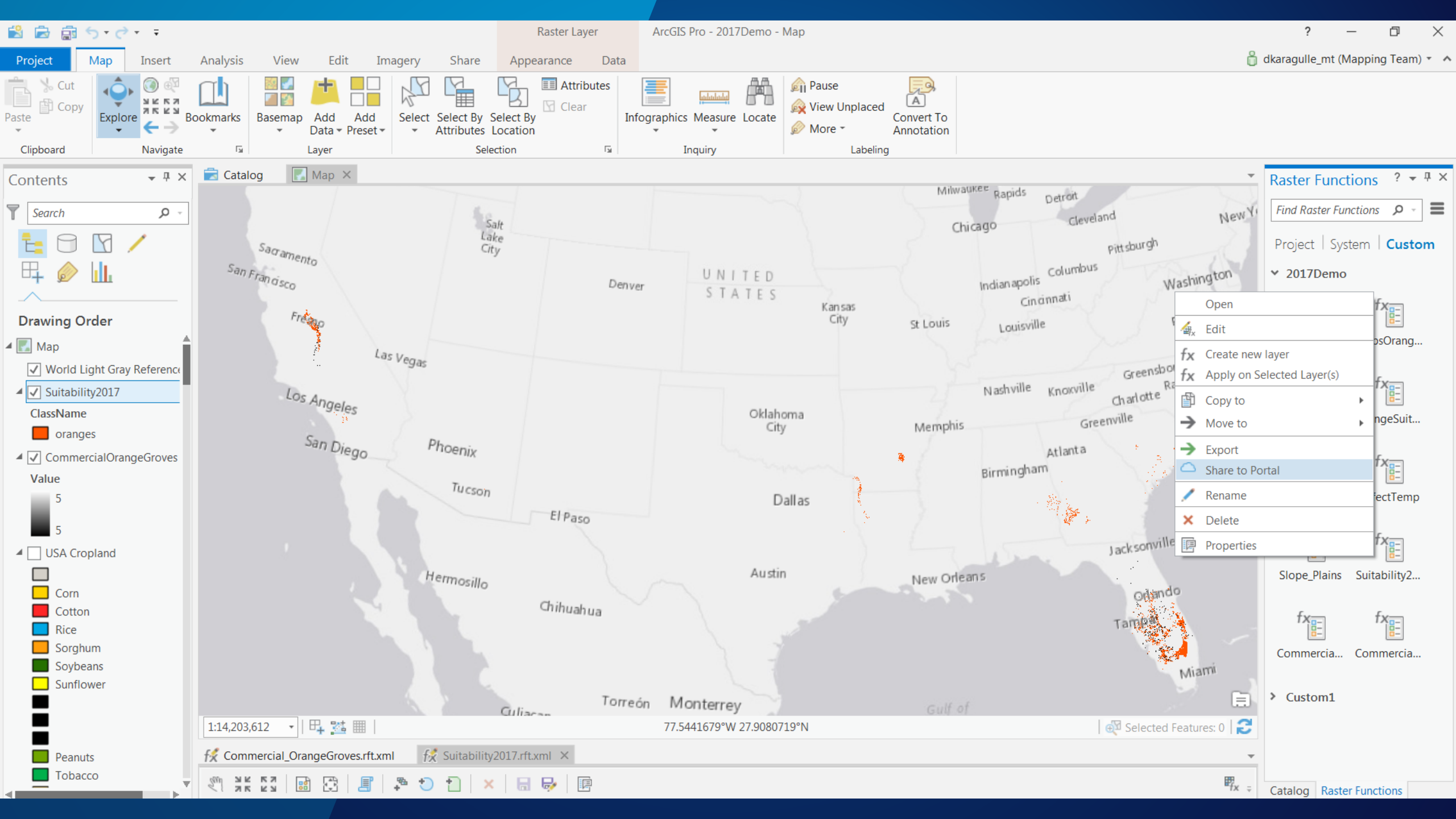












Conclusion

- Use curated ready-to-use global datasets in Living Atlas
- Accessed a raster function, set appropriate parameters, and applied raster functions to image services.
- Processed large imagery datasets on-the-fly, and saw the results immediately
- Share and consumed image processing



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SCIENCE
OF
WHERE