Using Living Atlas Layers in your Analysis

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ArcGIS includes a Living Atlas of the World
Maps and Layers from Esri and Thousands of Contributors

The Collection is growing and changing on a daily basis…

… with Curated Content on Many Topics
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

Basemaps
Demographics and Lifestyle
Transportation
Urban Systems
Boundaries and Places

Imagery
Landscape
Oceans
Earth Observations
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
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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