Living Atlas in ArcGIS Enterprise

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Agenda

• What is Living Atlas?
• Using Living Atlas content in ArcGIS Enterprise
• Demos
  - Enabling content - admin
  - Browsing and analysis – user
  - Publishing Esri boundary layers – admin
• Upgrading Living Atlas content
• What’s new
• Key points to take home
• Resources
Quick poll

• Do you currently use Living Atlas content in ArcGIS Online?
• Do you currently use Living Atlas content in ArcGIS Enterprise?
• Do you use the Esri boundary layers available from My Esri?
What is Living Atlas?
What is Living Atlas?

• A rich collection of geographic content, available in ArcGIS Online and ArcGIS Enterprise.
• Contains thousands of items: maps, layers, scenes, apps and tools to enrich your GIS.
• You can use the items as is or supplement with your own data.
Examples of Living Atlas content – basemaps

- Streets (Night)
- World Terrain Base
- Imagery (WGS84)
Examples of Living Atlas content – demographic and population

2017-2022 USA Population Growth

2017 USA Median Household Income

2017 USA Tablet Ownership
Examples of Living Atlas content – imagery

USA NAIP Imagery - False Color

Interesting Places Scene

Landsat
Examples of Living Atlas content – infrastructure

- World Urban Areas
- World Traffic Service
- USA Cropland
Using Living Atlas Content in ArcGIS Enterprise
Using Living Atlas content in ArcGIS Enterprise

Content referenced from ArcGIS Online

Esri boundary layers - hosted in ArcGIS Enterprise
Using Living Atlas content in ArcGIS Enterprise

Content referenced from ArcGIS Online

- Subset of Living Atlas content published by Esri
- Referenced from ArcGIS Online in ArcGIS Enterprise
- Internet access required
- The content itself is updated frequently
- Item details are updated at each new ArcGIS Enterprise release
- ~1,600 items

Esri boundary layers - hosted in ArcGIS Enterprise

- Boundary layers only:
  - State, province, census area, zip code boundaries
  - Includes population as an attribute
- Downloaded as .sd files from My Esri
- Published as hosted feature layers in your portal
- ~125 layers
- Optimized for analysis
- Option for both disconnected and connected environments
- Good for use in Insights for ArcGIS
## Content referenced from ArcGIS Online – three levels

<table>
<thead>
<tr>
<th>Default</th>
<th>Subscriber</th>
<th>Premium</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Available by default</td>
<td>- Needs to be configured by administrator</td>
<td>- Needs to be configured by administrator</td>
</tr>
<tr>
<td>- Does not require ArcGIS Online credentials</td>
<td>- Requires ArcGIS Online credentials</td>
<td>- Requires ArcGIS Online credentials</td>
</tr>
<tr>
<td>- Does not consume credits</td>
<td>- Does not consume credits</td>
<td>- Consumes nominal amount of credits</td>
</tr>
<tr>
<td>- Sample set of data</td>
<td>- Imagery, boundaries, historical maps, live feeds</td>
<td>- Demographics, lifestyle data, analysis tools</td>
</tr>
<tr>
<td>- Basemaps, imagery</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### World Imagery
- This layer presents satellite imagery for the United States and other areas.
- Tile Layer by esri_livingatlas
- Created: Jan 12, 2018  Updated: Apr 24, 2018

### World Country Boundaries 2016
- This layer shows the Country level boundaries of the World in 2016. The boundaries are optimized to support both visualization and analysis.
- Feature Layer by esri_livingatlas
- Created: Jan 12, 2018  Updated: Apr 24, 2018  View Count: 0

### 2017 USA Average Household Income
- This layer shows the average household income in the U.S. in 2017 in a multiscale map by country, state, county, ZIP Code, tract, and block group. ArcGIS Online subscription required.
- Map Image Layer by esri_livingatlas
- Created: Jan 12, 2018  Updated: Apr 24, 2018  View Count: 0
Unlock an additional three quarters of content at no additional cost!

1,653 total items at 10.6.1 (1,240 subscriber)

Three levels of content

ARCGIS ENTERPRISE 10.6.1
Mature support & retired content

- Mature support = item is no longer updated/maintained and could be retired
  - Search “tags:mature support”
- Retired = item is no longer available
  - Search the what’s new for retired items (10.5.1, 10.6)

Best practice: replace mature and retired items with newer versions!
Enabling content & using Living Atlas items
Content referenced from ArcGIS Online - configuring

- No need to explicitly enable default content – already available by default
- Administrators will need to manually enable subscriber and premium content using ArcGIS Online credentials
- If you do not want to access Living Atlas content, you can choose to disable it at any time
Configure Living Atlas Content

Note: Clicking Configure updates Living Atlas content in your portal and saves configuration changes. Content that is configured is shared with all users in your organization.

Check the box for the additional types of Living Atlas content you would like to enable in your portal, provide ArcGIS Online organizational account credentials for accessing them and click Configure. Using premium content in the portal consumes credits from the specified ArcGIS Online account.

To disable an existing type of content, uncheck the account checkbox and click Configure.

- Subscriber Update
- Premium (requires credits) Update
Browse & run analysis using Living Atlas data

In ArcGIS Enterprise
Benefits of using Living Atlas content in ArcGIS Enterprise

• Authoritative, ready to use content from Esri covering a variety of topics
• Access the most frequent updates in ArcGIS Online through ArcGIS Enterprise
• All Enterprise users can access the content once enabled
  - Browse and search content
  - Use as basemaps or as operational layers in web maps
  - Use in applications
  - Use in analysis
Hosted Esri boundary layers
Hosting Esri boundary layers

• Download from My Esri
• Administrator publishes layers via command line
• Creates hosted feature layers with the owner “esri_boundaries”
• Hosted boundary layers are available for all ArcGIS Enterprise users
Esri hosted boundary layers throughout the releases

At 10.5 – 2 boundary layers: 
USA 2015, World 2015

At 10.5.1 – 119 boundary layers in: 
- South America, North America, Europe, Asia, Africa, Australia, Oceania

At 10.6.x – 125 boundary layers: 
- Added Egypt, Tunisia, Sudan, Canada, Puerto Rico and Greenland
Publish boundary layers
In ArcGIS Enterprise
Run analysis on Esri boundary layers
In ArcGIS Enterprise
Benefits of using hosted boundary layers

- Ready to use boundaries from 120+ countries
- Included at no additional cost
- Great solution for disconnected Enterprise deployments
- Optimized for analysis
- Faster performance
- Population attributes included
Upgrading
### Upgrading Living Atlas content in ArcGIS Enterprise

<table>
<thead>
<tr>
<th>Content referenced from ArcGIS Online</th>
<th>Esri boundary layers - hosted in ArcGIS Enterprise</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Part of Enterprise upgrade process</td>
<td>- Download the most recent boundary layers and publish to Enterprise via command line</td>
</tr>
<tr>
<td>- Make sure index is in sync before upgrading the content</td>
<td>- Overwrite the existing layer with updated version</td>
</tr>
<tr>
<td>- After upgrading, replace the mature and retired layers in your maps and apps</td>
<td></td>
</tr>
</tbody>
</table>

**Tips:**
- Ensure index is up to date before upgrading.
- Replace mature and retired layers in maps and apps after upgrading.
- Use latest boundary layers hosted in ArcGIS Enterprise for accurate data.
What’s New
What’s New in Living Atlas at ArcGIS Enterprise 10.6.1

- New boundary layers:
  - Egypt, Tunisia, Sudan, Canada, Puerto Rico and Greenland
- Faster to enable and upgrade (1 minute or less)
- Over 200 new / updated items
- Focused tab under Content
- Categories
Key points to take home

- Living Atlas content is available directly in your portal at ArcGIS Enterprise 10.5 and up

- Content referenced from ArcGIS Online:
  - Over 90% of content is available at no additional cost
  - Available to everyone in your organization
  - Can be used in maps, apps, and for analysis
  - Upgrade the content when you upgrade ArcGIS Enterprise

- Esri boundary layers hosted in ArcGIS Enterprise:
  - Option for disconnected Enterprise deployments
  - Optimized for analysis
  - Updates throughout the year in My Esri
  - Republish new versions
Resources for you!

- **ArcGIS Enterprise documentation:**
  - Configure Living Atlas content
  - Configuring Esri boundary layers
  - Running analysis
  - Mature support and retired content
  - Upgrading

- **Blogs:**
  - ArcGIS Living Atlas of the World updates in ArcGIS Enterprise 10.6
  - Take Advantage of Living Atlas content in your ArcGIS Enterprise
  - New ArcGIS Living Atlas of the World Categories Make Content Discovery Straightforward

- **Website:** [www.livingatlas.arcgis.com](http://www.livingatlas.arcgis.com)
## Additional Living Atlas Sessions

<table>
<thead>
<tr>
<th>WORKSHOP</th>
<th>LOCATION</th>
<th>TIME FRAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Living Atlas of the World: An Introduction</td>
<td>SDCC – Room 05 A</td>
<td>Wednesday from 10am – 11am</td>
</tr>
<tr>
<td>Living Atlas: The Road Ahead</td>
<td>SDCC – Room 16 B</td>
<td>Wednesday from 1pm – 2pm</td>
</tr>
<tr>
<td></td>
<td>SDCC – Room 16 B</td>
<td>Thursday from 4pm – 5pm</td>
</tr>
<tr>
<td></td>
<td>SDCC Room 07 A/B</td>
<td>Friday from 9am – 10am</td>
</tr>
</tbody>
</table>

Also visit the ArcGIS Enterprise showcase or the Living Atlas area of the ArcGIS Online showcase.
Please Take Our Survey on the App

Download the Esri Events app and find your event

Select the session you attended

Scroll down to find the feedback section

Complete answers and select “Submit”