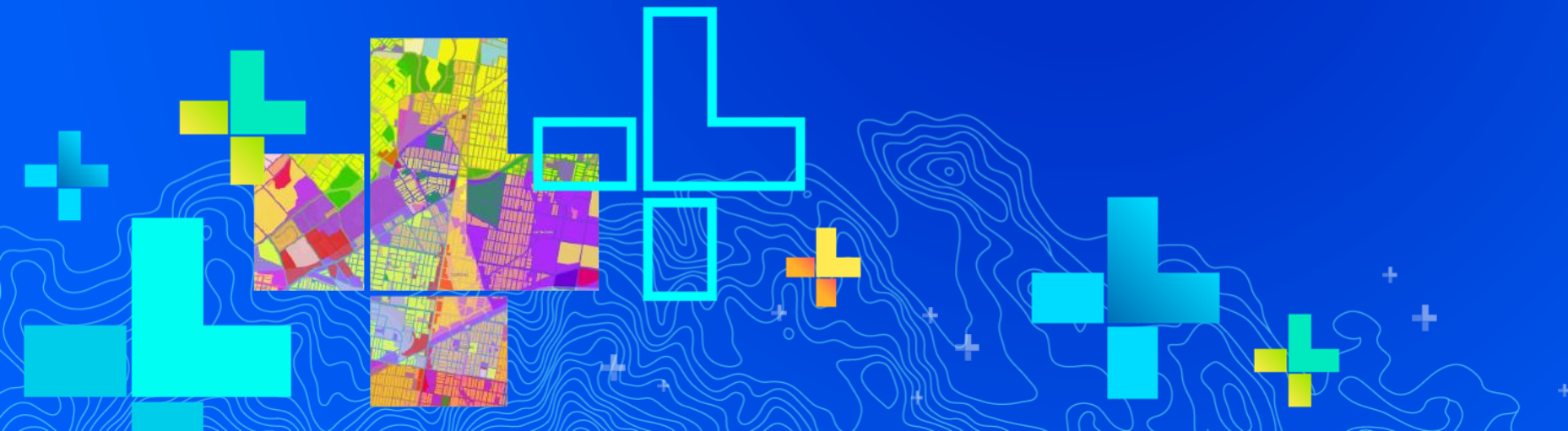


Green Infrastructure Planning with the Living Atlas and GeoPlanner

Ryan Perkl



Agenda

- Introduction to Esri's the Living Atlas
- Overview of Green Infrastructure Concepts
 - An Introduction to Esri's Green Infrastructure (GI) Initiative
 - An Exploration of Esri's GI Data
 - An Exploration of Esri's GI Apps
- Demonstrate a GI Planning workflow with GeoPlanner for ArcGIS

An Introduction to Esri's Living Atlas



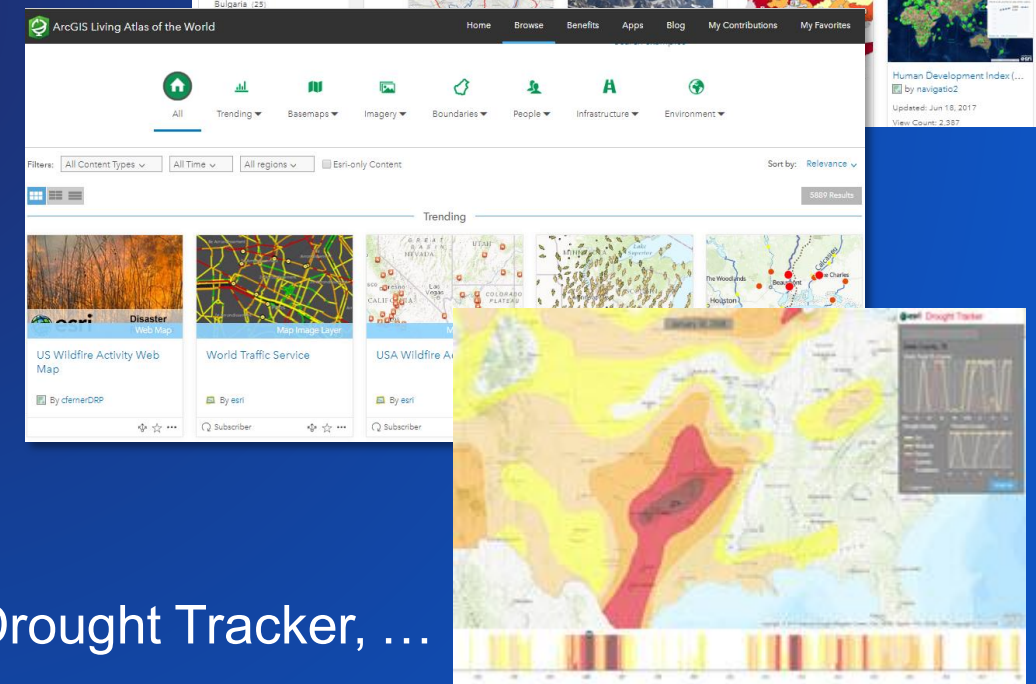
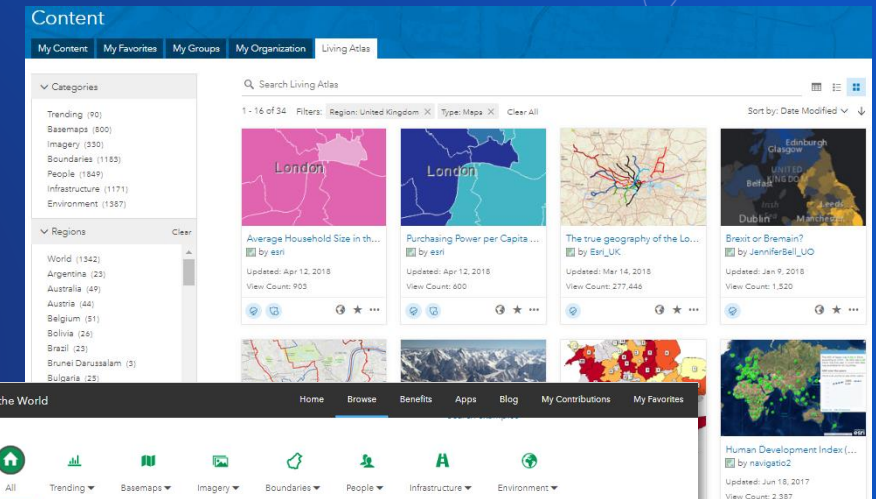
Maps and Layers from Esri and Thousands of Contributors

... with Curated Content on Many Topics

Accessing Living Atlas through ArcGIS

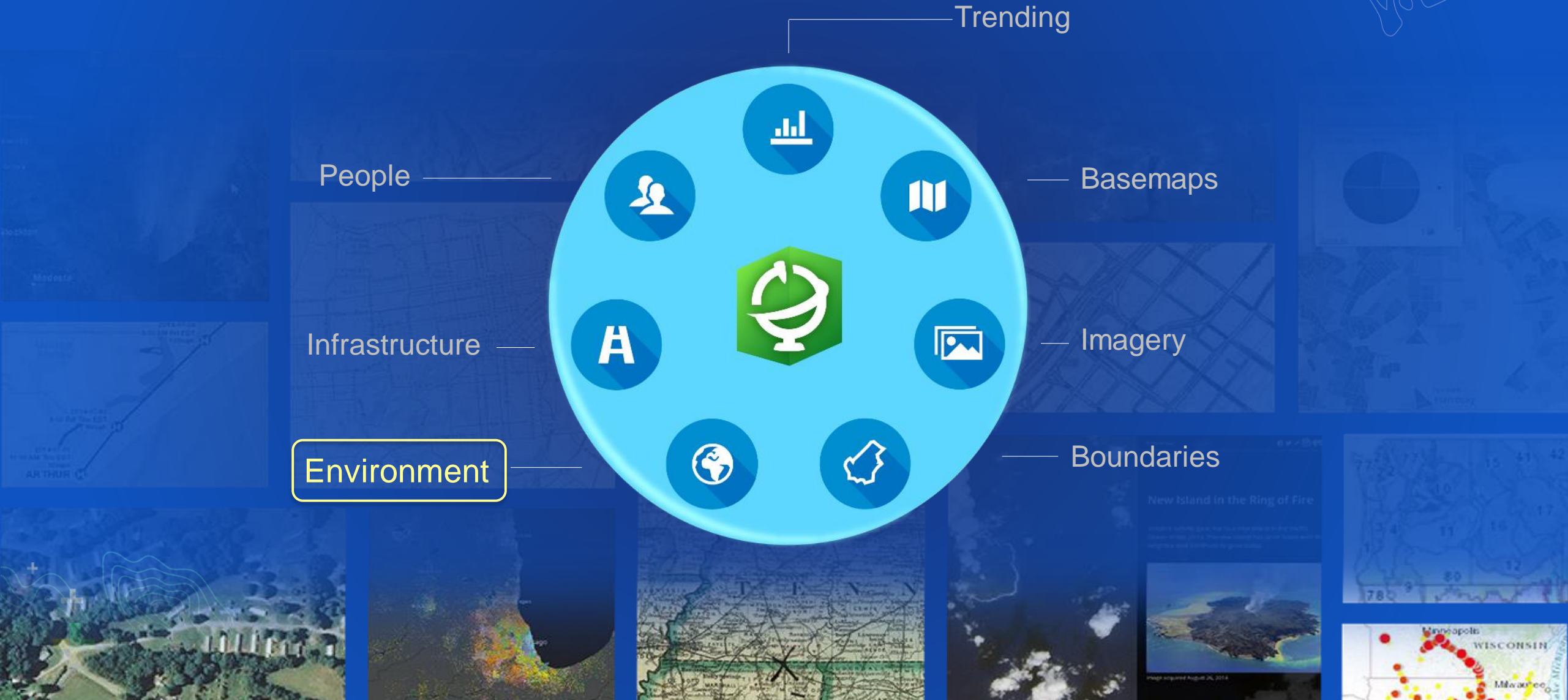
Multiple ways to Experience Living Atlas through ArcGIS Apps

- ArcGIS Online & ArcGIS Enterprise (Portal)
 - Content: Living Atlas Content
 - Add Data: Browse Living Atlas Layers
 - Analysis: Choose Living Atlas Layers
- ArcGIS Living Atlas of the World Website
 - Browse and Contribute @ livingatlas.arcgis.com
- ArcGIS Pro
 - Open Maps, Add Layers, Perform Analysis
- Many Custom Apps by Esri and Users
 - Wayback, Water Balance, Green Infrastructure, Drought Tracker, ...



Esri Content Portfolio within Living Atlas

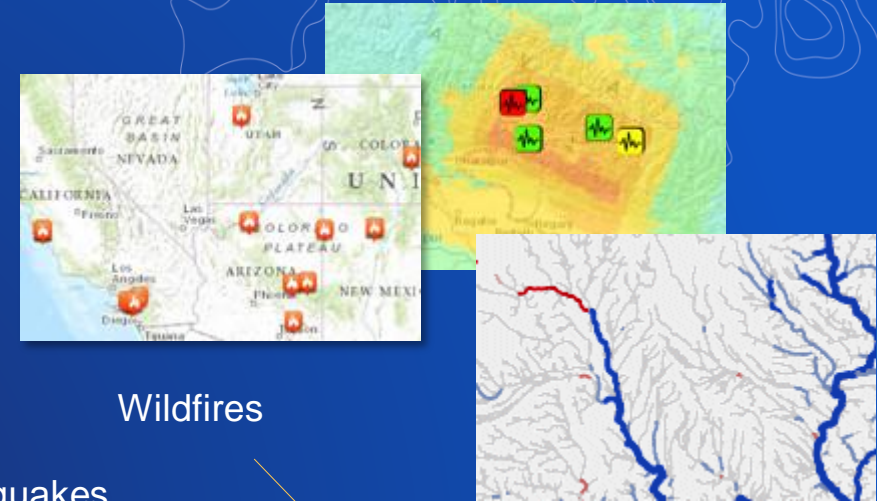
Esri Content Portfolio within Living Atlas



Live Feeds

What's New and Next

- New Live Feed Feature Layers
 - Open Access, No Sign In Required!
 - Designed to be Highly Scalable during Events
 - Leverages ArcGIS Online capabilities
- Access in in ArcGIS Online
 - [Live Feeds Group](#)
 - [Living Atlas](#)
- Use in Your Maps and Apps!



Wildfires

Earthquakes

Weather Models

Coral Reef Conditions

Active Hurricanes

Weather Observations

Air Quality

World Protected Areas

Live Feeds
Hosted Features



Road Ahead

How to Participate in the Living Atlas Community

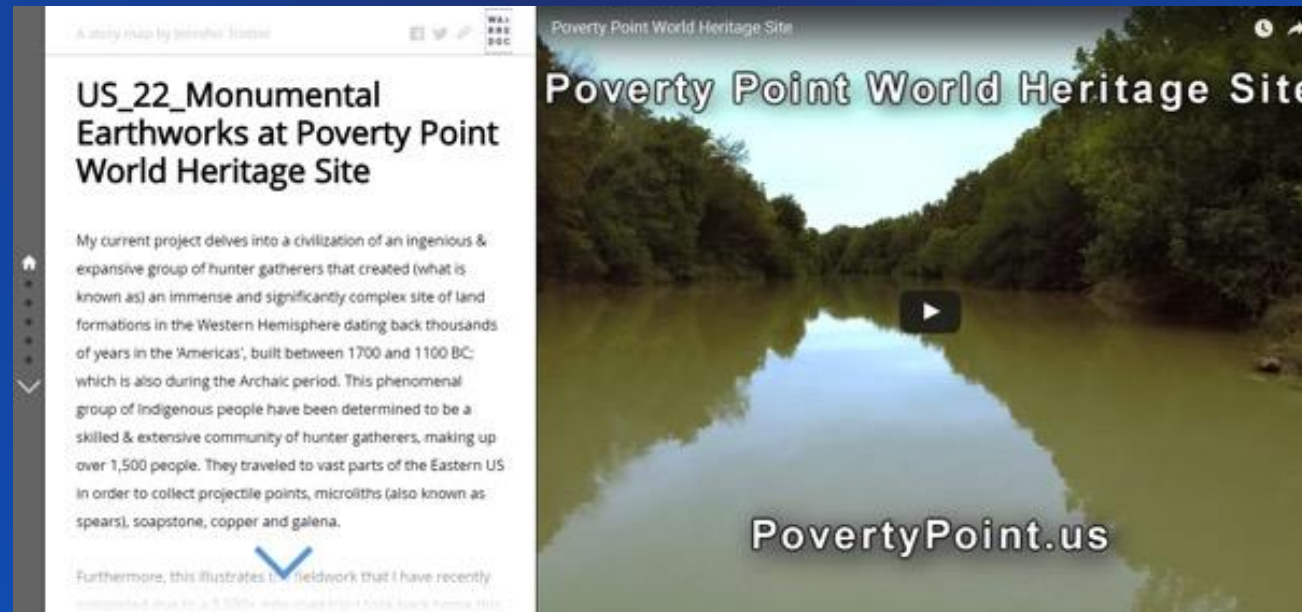
- Living Atlas Community includes:
 - **Contributors**: who **publish content** that is included in the Living Atlas
 - **Curators**: who **review, approve, and organize content** that is included in the Living Atlas
- Living Atlas Contributors can participate by:
 - a) Publishing content directly through ArcGIS Online
 - b) Publishing content indirectly through Community Maps
- Go to **livingatlas.arcgis.com** to Get Started!



User Contributor Comment

“Lastly, it’s truly a pleasure to have my work represented on a platform of this magnitude. I can’t begin to express my gratitude, truly.”

Jennifer Trotter, Journalist & Blogger



An Overview of Green Infrastructure Concepts





Green Infrastructure (GI)

is a strategically planned and managed network of open spaces, natural lands, wildlife habitats, parks, and other assets that provide communities with the vital services that enrich and sustain their quality of life.





Green Infrastructure Planning

seeks to situate land development and land conservation together in a way that leverages natural environmental patterns. In so doing, green infrastructure promotes both conservation and smart growth.





Green Infrastructure Planning reorders the traditional land development process by identifying, prioritizing, and protecting the landscapes most valuable assets first, as opposed to after development has already occurred.

Even in already developed areas, green infrastructure plans can illustrate resources that still need protection and highlight areas that would benefit from rehabilitation.

In this way, green infrastructure becomes a viable solution to many of our local and global challenges.

The Green Infrastructure Center outlines a six-step process for generating green infrastructure plans:





Esri's Green Infrastructure Initiative

Esri Derived Data



Source Data



Models



Apps





Esri derived national inventory of intact habitat cores, fragments, and national landscape connectivity data

Esri Derived Data



Source Data



Models



Apps

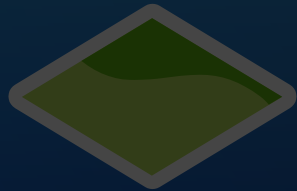


ArcGIS



A one stop location for downloading the most commonly used
and authoritative data for GI planning

New Core Data



Source Data



Models



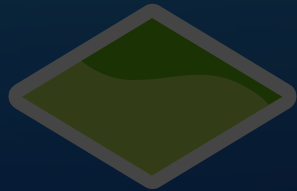
Apps





Freely available and configurable ArcGIS Desktop and Pro models
for generating your organization's GI assets using your data

New Core Data



Source Data



Models



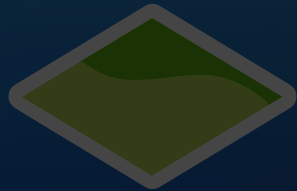
Apps





Apps that are both freely available and others that function with ArcGIS online for engaging in GI asset identification, prioritization, and customizable analysis

New Core Data



Source Data



Models



Apps



Live Demo



Esri GI
Web Resources



GI Web Mapping
Applications



GI Web Analysis
Applications



GI Planning with
GeoPlanner



Learn more about GeoPlanner

- Trial - <http://doc.arcgis.com/en/geoplanner/trial/>
- Purchase – <http://marketplace.arcgis.com>
- Get started - <http://doc.arcgis.com/en/geoplanner/get-started/set-up.htm>
- YouTube - https://www.youtube.com/channel/UCc7DP2_GOqGGqCVXXfMNCNA
- Product page - <http://www.esri.com/geoplanner>
- Geonet - <https://geonet.esri.com/community/gis/applications/geoplanner-for-arcgis>
- Blog - <https://blogs.esri.com/esri/arcgis/2017/03/03/76191/>
- Courses - <https://www.esri.com/training/catalog/search/>
- Jump Start: Esri consultants help you get started with your data including providing hosting



GI Resources

Esri Green Infrastructure Initiative Web Page: <http://www.esri.com/about-esri/greeninfrastructure>

GI Data:

Green Infrastructure Data Gallery: <https://nation.maps.arcgis.com/home/item.html?id=79f24082c91f4314b16bf8373c946ee5>

Intact Habitat Cores (map image layer): <https://nation.maps.arcgis.com/home/item.html?id=ee328d53ec9e4cccba005bed9374a25c>

Intact Habitat Cores (tile layer): <https://nation.maps.arcgis.com/home/item.html?id=0d2f35395c3c43ecb7685df9be63dd84>

Intact Habitat Cores (web map): <https://nation.maps.arcgis.com/home/item.html?id=b9155ee0caa04fcf9744e25cad76b44a>

Habitat Fragments (image layer): <https://nation.maps.arcgis.com/home/item.html?id=c27ff9b9a80b44dcb94ac7ad084a1eca>

Habitat Cost Surface (image layer): <https://nation.maps.arcgis.com/home/item.html?id=98882d18558a4659962d2b39a49ae7ed>

Habitat Connectors (map image layer): <https://nation.maps.arcgis.com/home/item.html?id=9e1925e34f9d4f1b88d9fa7aa4c8116d>

Habitat Connectors (tile layer): <https://nation.maps.arcgis.com/home/item.html?id=f8352a73777b4f23800cbd4cf83bcc72>

Intact Habitat Cores by Connectivity Importance (image layer): <https://nation.maps.arcgis.com/home/item.html?id=fe42b11c901d4dbab8833c2415ed21b7>

GI Apps:

Green Infrastructure Apps Gallery: <https://nation.maps.arcgis.com/home/item.html?id=cdaa4f3e12b246c0bee97cbb293703c8>

Intact Habitat Near Me App: <https://nation.maps.arcgis.com/home/item.html?id=7433627fbc674a90b0e6a3d7a5c5334d>

Landcover Change App: <https://nation.maps.arcgis.com/home/item.html?id=60d93ae835f54a98a2cd82edac76e740>

Select Your Intact Habitat Cores: <https://nation.maps.arcgis.com/home/item.html?id=7433627fbc674a90b0e6a3d7a5c5334d>

Prioritize Your Intact Habitat Cores: <https://nation.maps.arcgis.com/home/item.html?id=d2efd6dbda094741a661069263258293>

Investigate Core Weighting: <https://nation.maps.arcgis.com/home/item.html?id=4a47db0d498541cab0d3fdb14586d3b2>

Conduct Landscape Analysis: <https://nation.maps.arcgis.com/home/item.html?id=ad89d62e4b304396a7296be6898e61f2>

Contact: Ryan Perkl, rperkl@esri.com

Learn more about
Esri's Green Infrastructure Initiative

visit
www.esri.com/greeninfrastructure

Or Contact
rperkl@esri.com



esri

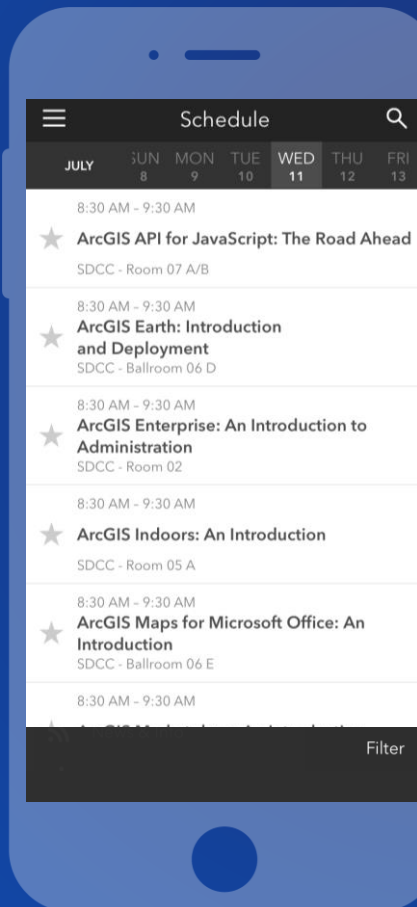
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WHERE

Please Take Our Survey on the App

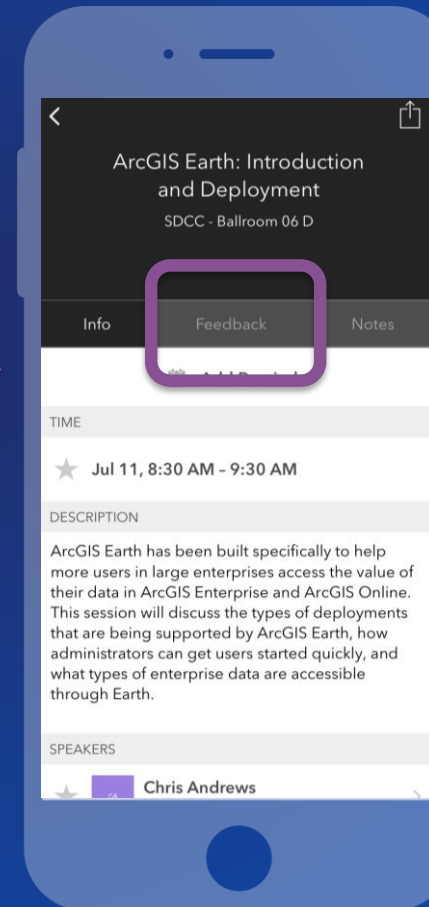
Download the Esri Events app and find your event



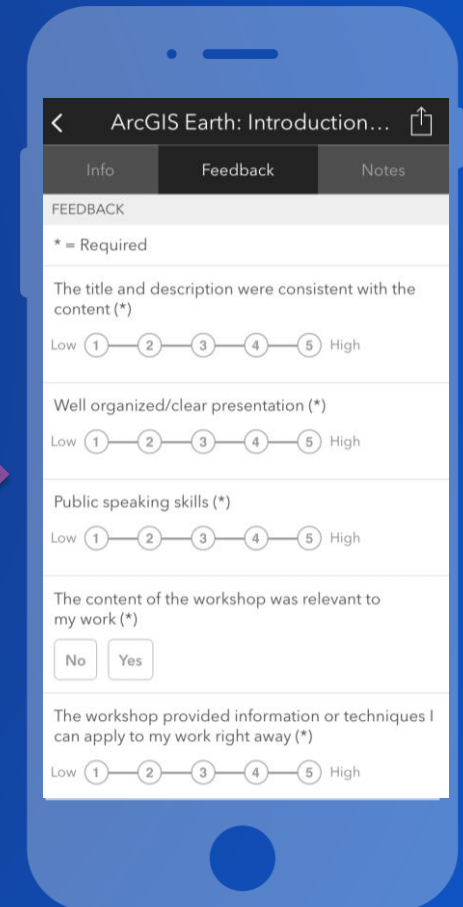
Select the session you attended



Scroll down to find the feedback section



Complete answers and select "Submit"





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