GeoPlanner℠ for ArcGIS®: An Introduction

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Agenda

• Application Overview

• Specific Capabilities
  - Configuration
  - Available Data
  - Spatial Analysis
  - Evaluating Plans
  - Communicating Decisions

• Q&A
GeoPlanner for ArcGIS
Enabling informed decision making through geodesign

Spatial Analysis
Weighted Overlay
Geo-Enrichment
User Content
Landscape Content
Imagery & Basemaps

Project
Data
Assess
Create
Evaluate
Compare
Report

...create, analyze, and report on design alternatives.
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Demonstration
Application Overview
Who can use GeoPlanner?
Supporting design and planning for many industries

- Government (All Levels)
- Utilities
- AE&C
- Community Development
- Natural Resources
- Commercial
- NGOs
- Public Safety
GeoPlanner Templates – A Configurable Rule-Base
Made by GIS professionals, shared with and used by everyone
What is a GeoPlanner Template?
A configurable rule-base that controls the application experience

• **User Perspective**
  - A rule-base that defines application functionality for a single, specific type of planning activity
    - Feature types
    - Symbols
    - Evaluation metrics

• **Application Perspective**
  - An ArcGIS Online group with a collection of shared items
    - Web map
    - Feature layer
GeoPlanner Configuration – Step 1
Create and share a group

- **Name** – GeoPlanner template name

- **Description** – Provides detailed information about the intended use of the template

- **Tags** – Required tag element `geodesignTemplate` is used to identify this as a GeoPlanner template

- **Sharing** – Determines who can see and use your template (i.e. only you, only your organization, or everyone).
GeoPlanner Configuration – Step 2
Create and share a web map

• **Data Content**
  - Any available basemap
  - Any number of available operation layers (maps, images, or features)

• **Tags**
  - Add ‘geodesignTemplateWebMap’ tag to identify as part of a GeoPlanner Template

• **Sharing**
  - Share with the GeoPlanner Template group
  - Provide same Public/Private visibility as GeoPlanner Template group
GeoPlanner Configuration – Step 3
Create and share a hosted feature layer

• **Content**
  - Features, symbols, attributes
  - Authored using Desktop

• **Tags**
  - Add ‘geodesignTemplateFeatureService’ tag to identify as part of a GeoPlanner Template

• **Sharing**
  - Share with the GeoPlanner Template group
  - Provide same Public/Private visibility as GeoPlanner Template group
Demonstration

Configuration
Leverage any data
Discover and use any dataset in your organization
Demonstration

Use your own data
Perform Spatial Analysis

Easy access to cloud-based spatial analytics

**Geo-Enrichment**

**Weighted Raster Overlay**

**Spatial Analysis**

**ArcGIS**
Demonstration

Analysis
Get Immediate Feedback
Quickly understand the impacts of your design alternatives

Compare design performance

Quantitative
Qualitative
Dashboards – Qualitative Charts
Evaluate design alternatives based on site suitability factors

• Charts
  - Left: Feature type distribution
  - Right: Site suitability overlay

• Assessment Layers
  - Weighted raster overlay output
  - Spatial analysis results
  - Any feature layer

• Options
  - Pie chart, bar chart, both
Dashboards – Quantitative Gauges
Evaluate design performance relative to key metrics

- **Features**
  - Points, lines, and polygons
  - Filter by types

- **Variables**
  - Area units (e.g. acres, square feet, etc.)
  - Linear units (e.g. feet, meters, etc)
  - Attribute field names

- **Equations**
  - Basic arithmetic (+, -, *, /)
  - SUM, AVERAGE
Demonstration

Dashboards
Anytime, anywhere, from any device
Pervasive access to designs for everyone in the organization

Esri Maps for Office
ArcGIS for Desktop
ArcGIS Online
Story Maps
Any app...
Demonstration

Reporting
Thank you...

Please fill out the session survey:

Offering ID: 1220

Online – [www.esri.com/ucsessionsurveys](http://www.esri.com/ucsessionsurveys)

Paper – pick up and put in drop box
Q & A

Come see us at the Online GIS Showcase!
Understanding our world.