GeoPlanner℠ for ArcGIS®: An Introduction

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Technical Workshop

Agenda

- Application Overview
- Specific Capabilities
  - Configuration
  - Avaliable Data
  - Spatial Analysis
  - Evaluating Plans
  - Communicating Decisions
- Q&A

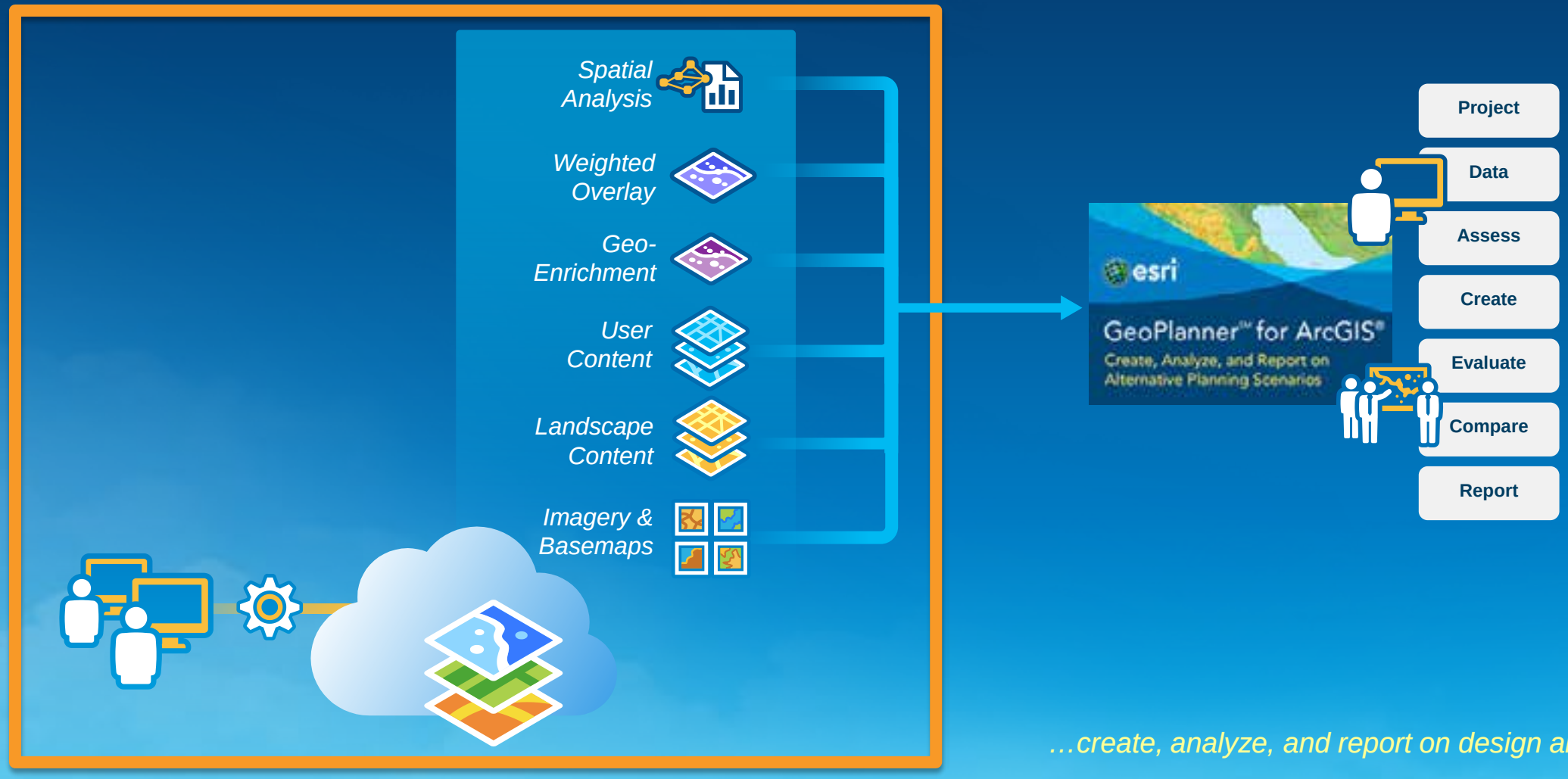
GeoPlanner for ArcGIS

Enabling informed decision making through geodesign

…create, analyze, and report on design alternatives.

GeoPlanner for ArcGIS

Enabling informed decision making through geodesign



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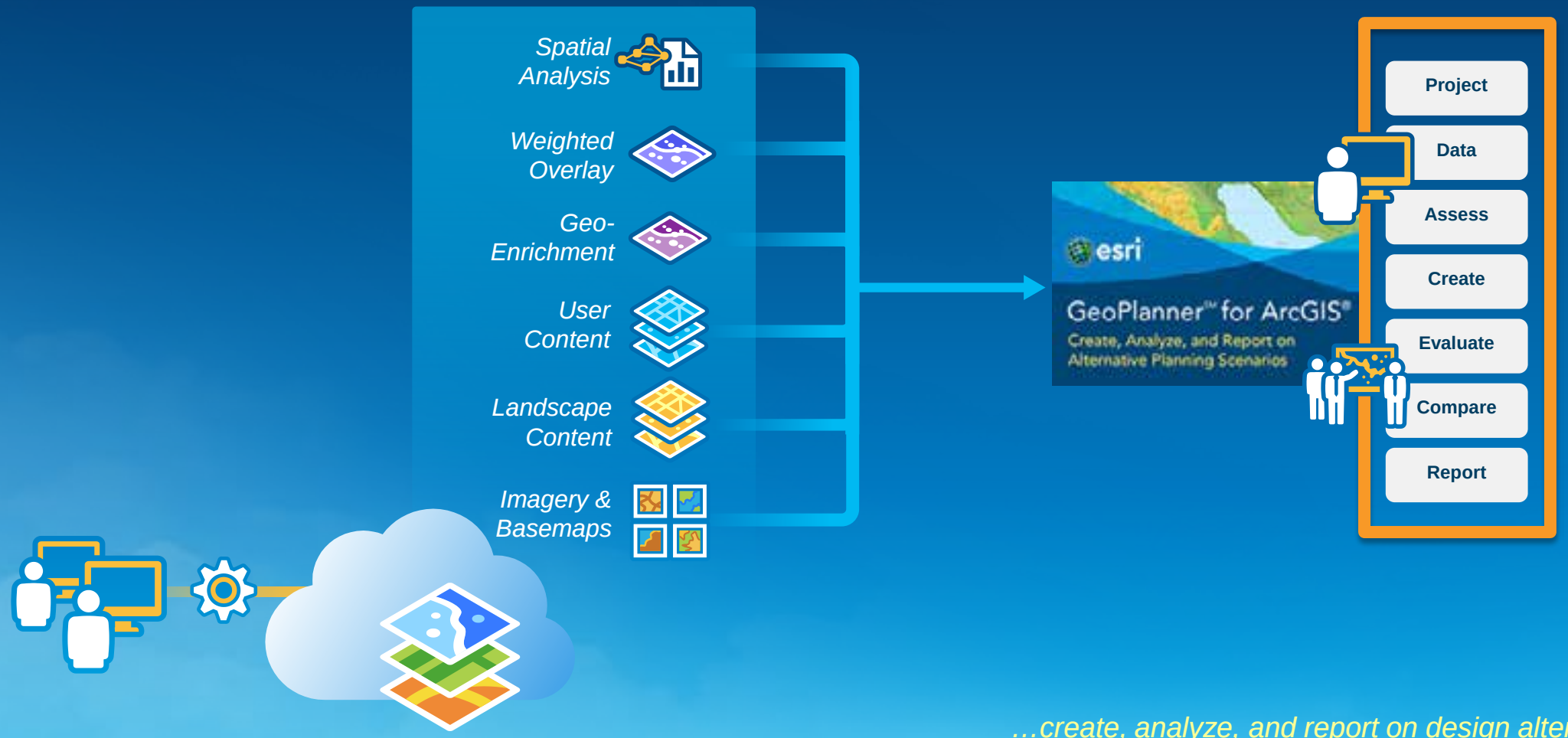

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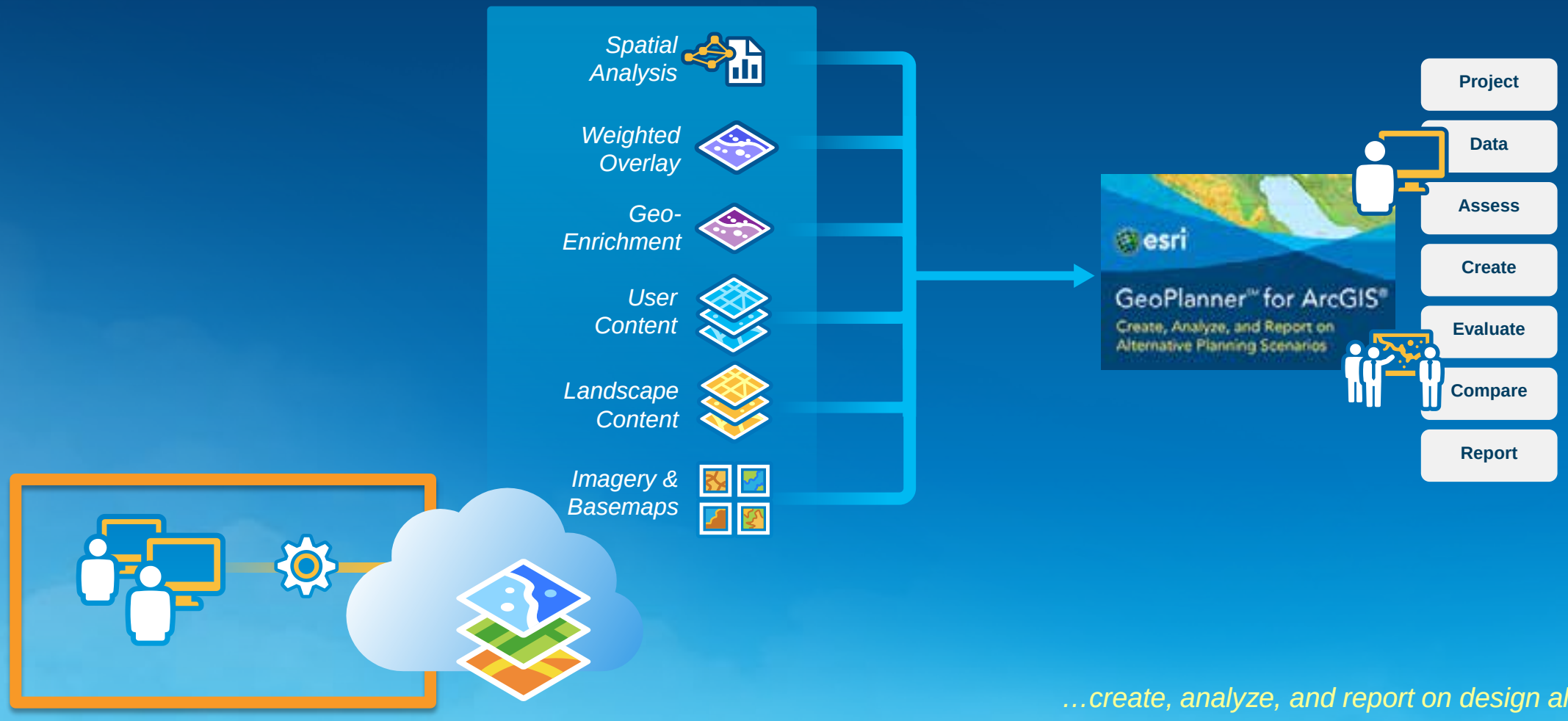

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Demonstration

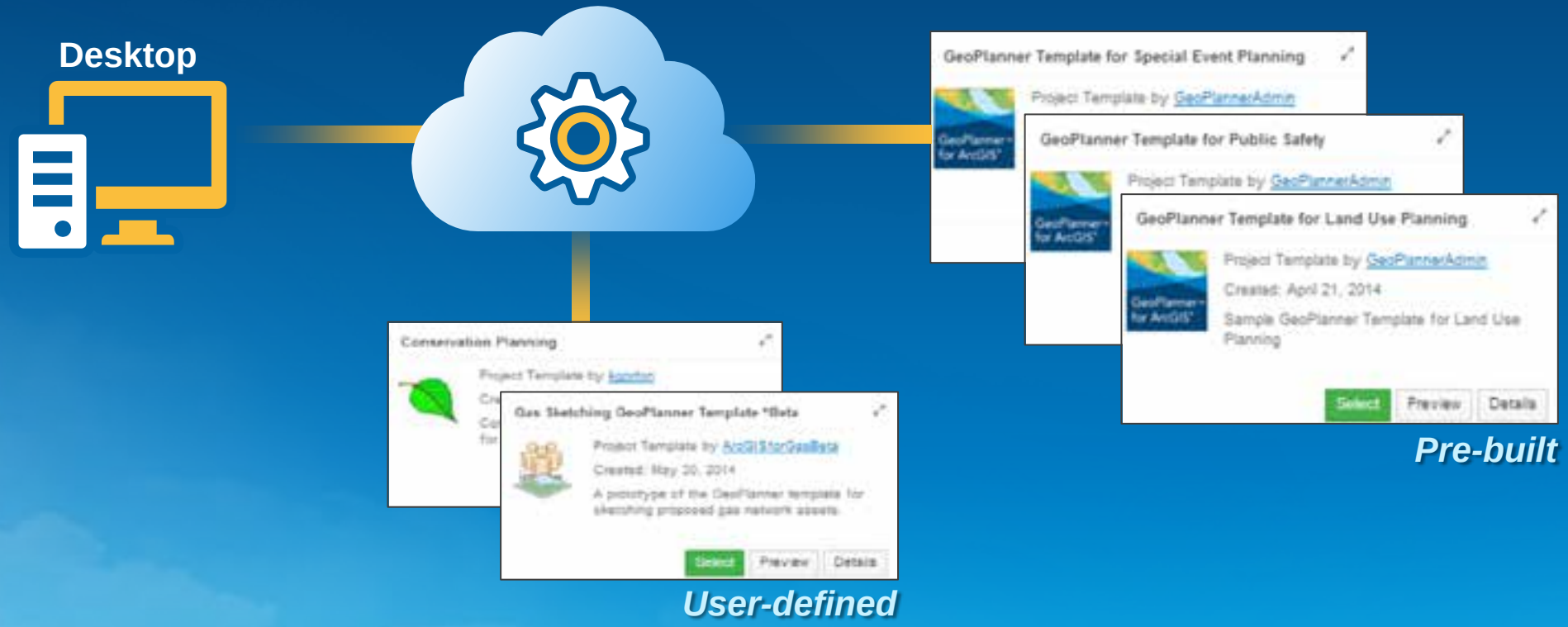
Application Overview

Who can use GeoPlanner?

Supporting design and planning for many industries

GeoPlanner Templates – A Configurable Rule-Base

Made by GIS professionals, shared with and used by everyone

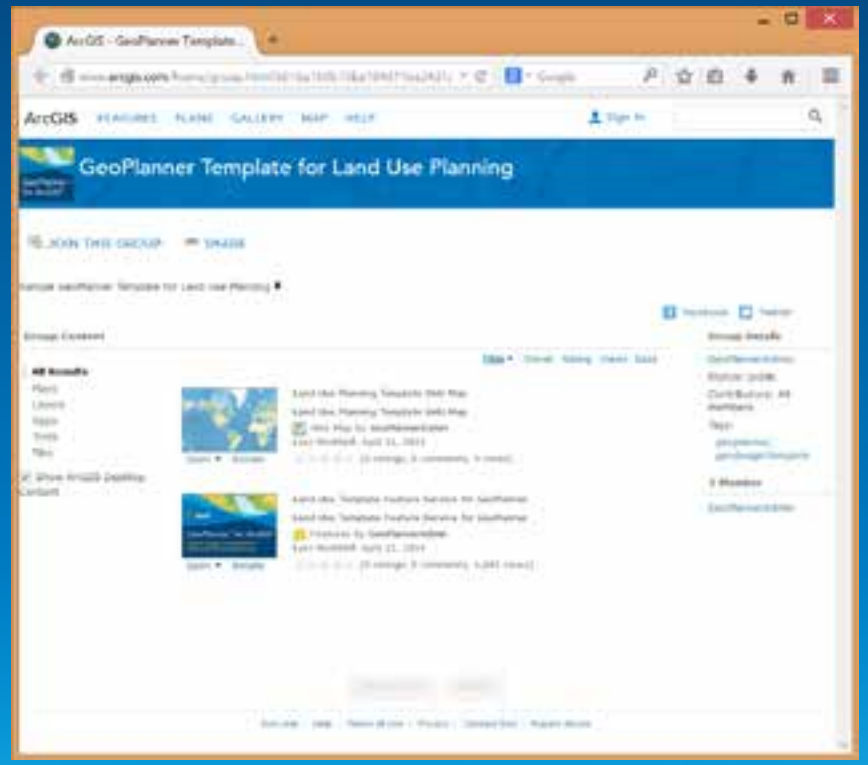


What is a GeoPlanner Template?

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

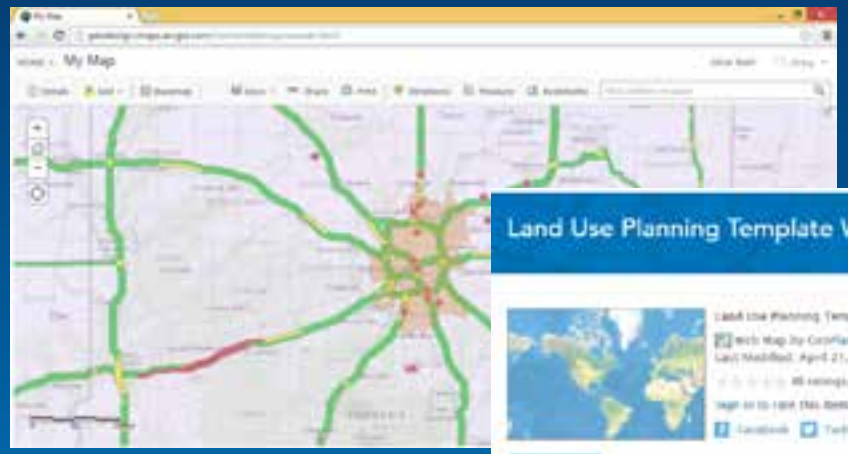
Create and share a group

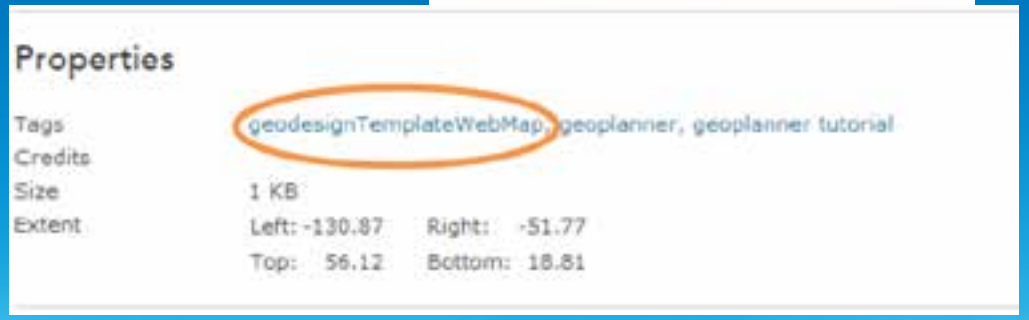
- **Name** – GeoPlanner template name
- **Description** – Provides detailed information about the intended use of the template
- **Tags** – Required tag element ***geodesignTemplate*** is used to identify this as a GeoPlanner template
- **Sharing** – Determines who can see and use your template (i.e. 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

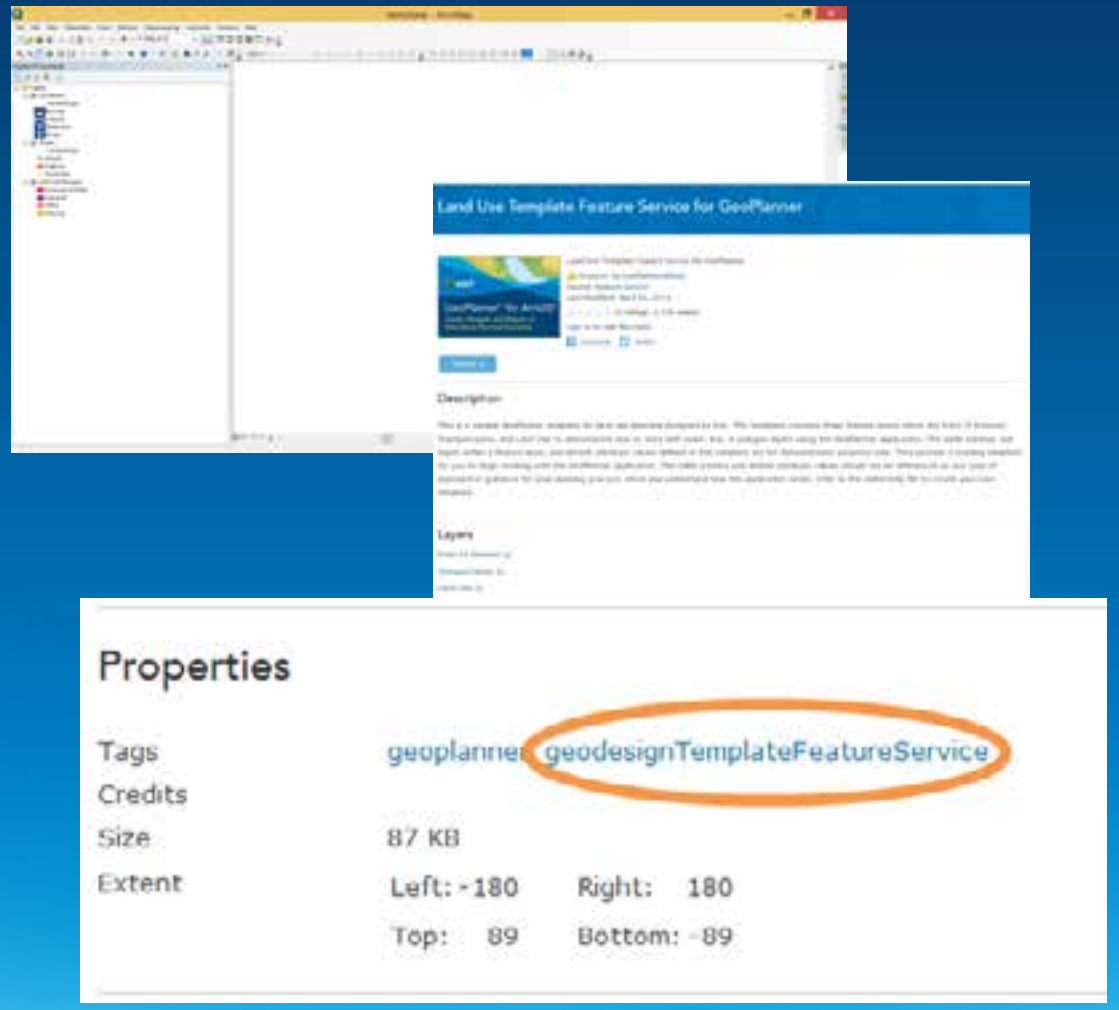




GeoPlanner Configuration – Step 3

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

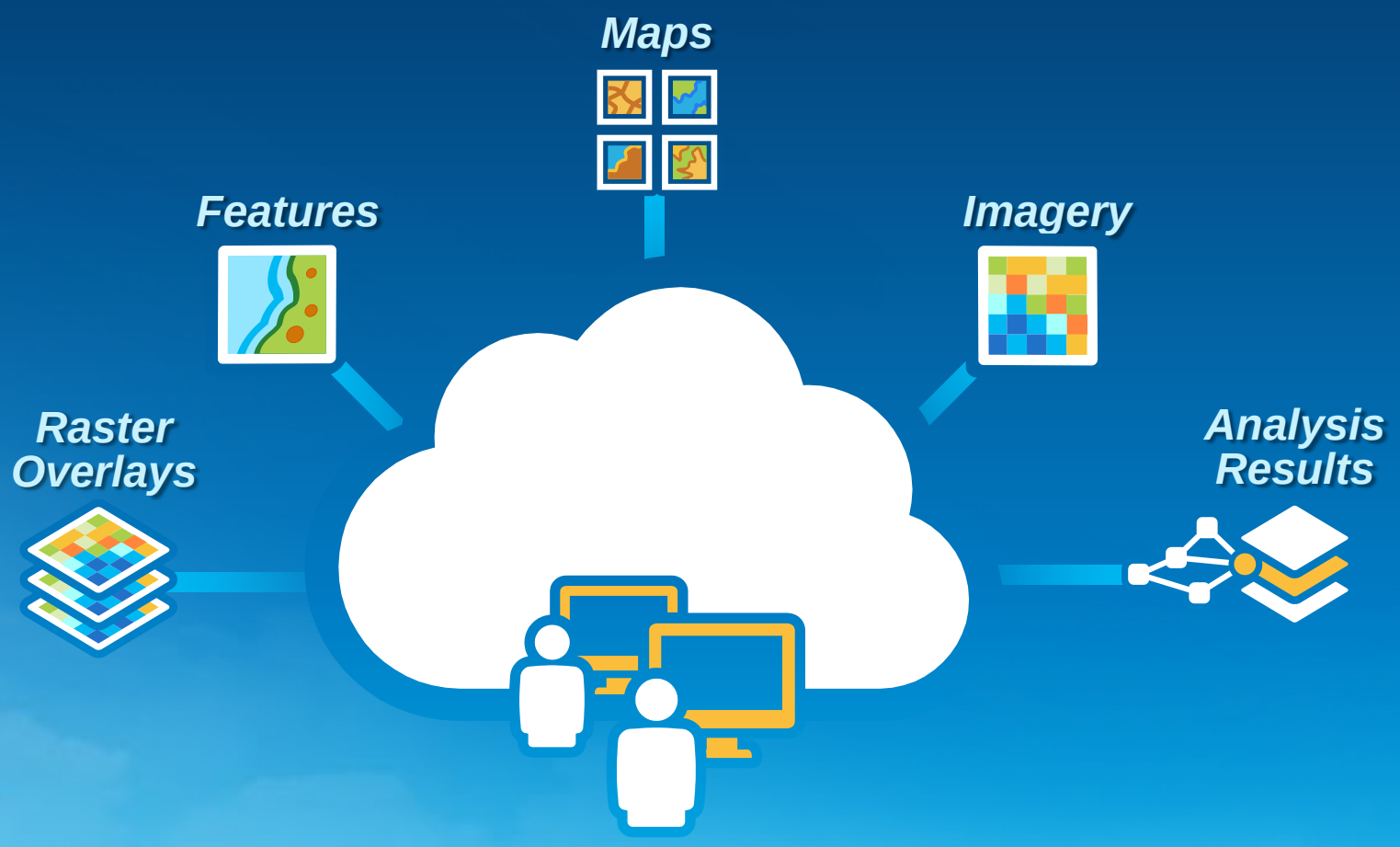


Demonstration

Configuration

Leverage any data

Discover and use any dataset in your organization

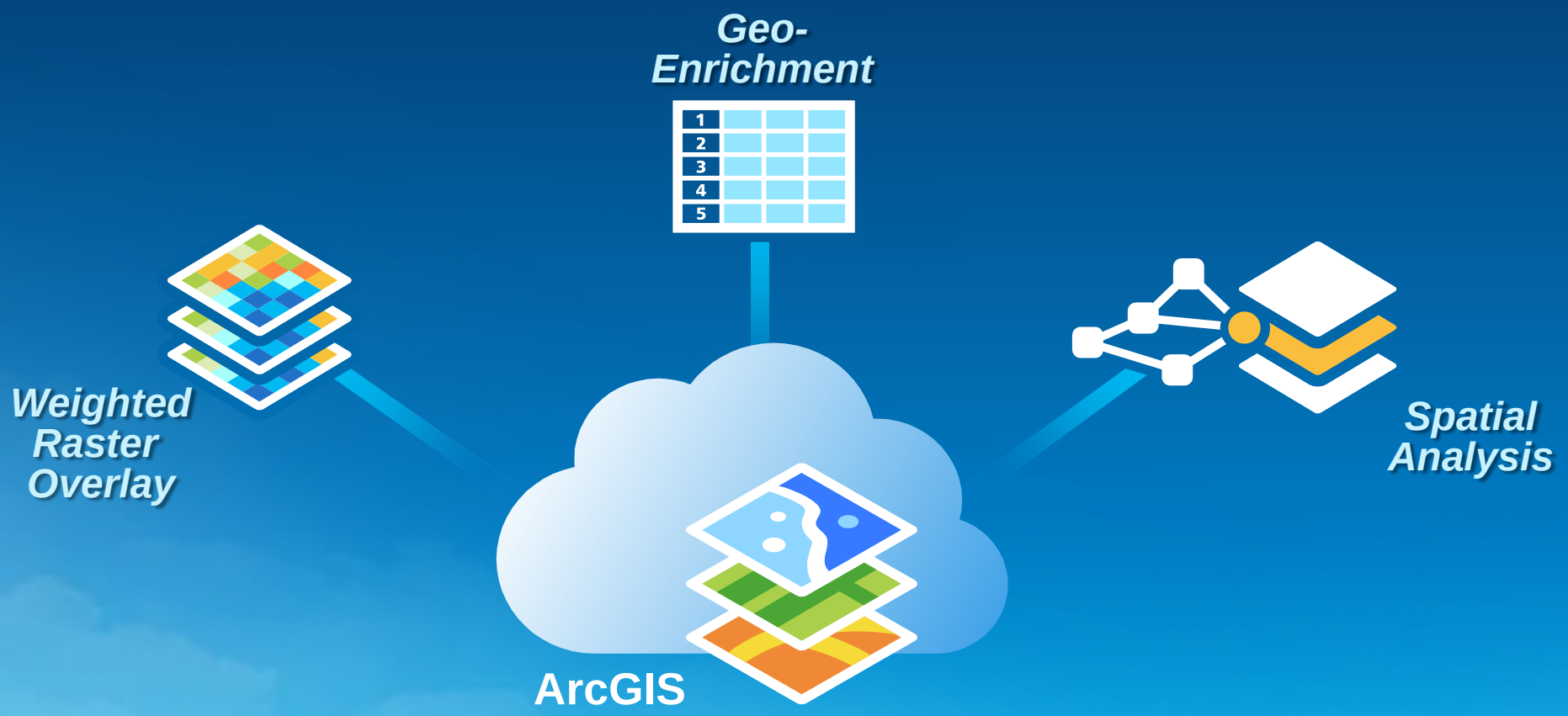


Demonstration

Use your own data

Perform Spatial Analysis

Easy access to cloud-based spatial analytics



Demonstration

Analysis

Get Immediate Feedback

Quickly understand the impacts of your design alternatives

Compare design performance

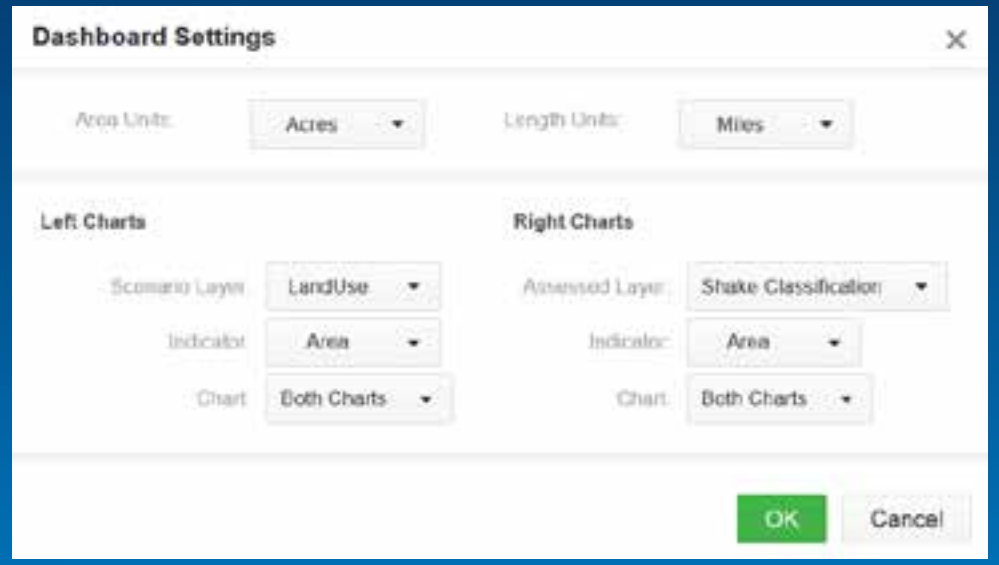
Quantitative

Qualitative

Dashboards – Qualitative Charts

Evaluate design alternatives based on site suitability factors

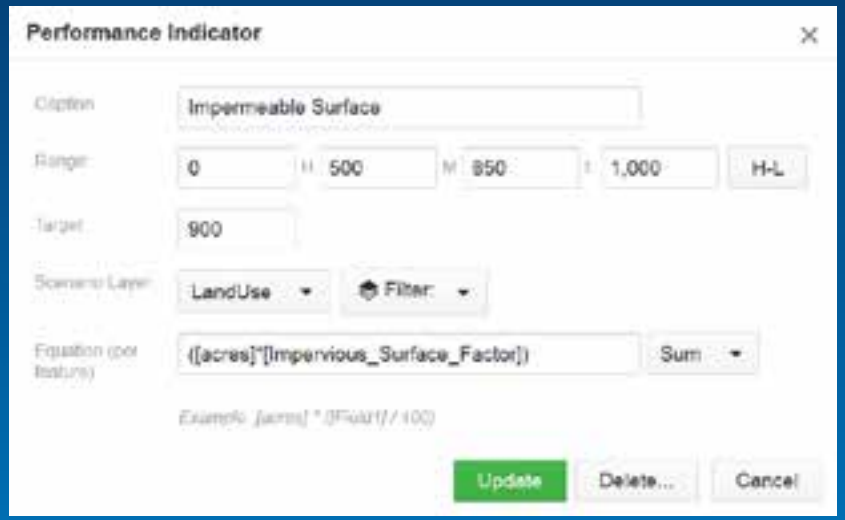
- **Charts**
  - Left: Feature type distribution
  - Right: Site suitability overlay
- **Assessment Layers**
  - Weighted raster overlay output
  - Spatial analysis results
  - Any feature layer
- **Options**
  - Pie chart, bar chart, both



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

Demonstration

Reporting

The Road Ahead

GeoPlanner for ArcGIS

Industry Configurations

Dashboards

Spatial Analysis Tools

Weighted Raster Overlay

Urban Observatory

Key Performance Indicators

On-Premises Deployment

Rapid Evaluation

Precision Edit Tools

Import Features

3D Design

Summary Reports

Scenario Management

Collaboration Tools

Esri Maps for Office

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Q & A

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