Insights for ArcGIS and ArcGIS Online Update
Dan Haag
“Data is important... However, not as important as the answers it provides or the stories that it tells.”
Insights for ArcGIS

- New Paradigm (Visual, Intuitive, Responsive)
- Dynamic Analysis
- Very Fast Data Access

Linked and Responsive Charts and Maps

Integrated Spatial and Tabular Analysis

On-The-Fly Visual Models

Extending and Complementing Traditional Analysis
Let's see it
Analytic Projects – Workbook, Pages, and Cards
Features at 10.5.1
Emphasis on Analysis

\[ \chi^2 = \sum \frac{(o_i - e_i)^2}{e_i} \]
Analysis: Interactivity
Analysis: Interactivity or Action button
Analysis: starts with questions
Analysis in Insights

Spatial Analysis:
- Spatial Filter
- Kernel Density
- Find Similar
- Spatial Aggregation
- Find Nearby
- Spatial Join
- Fixed Distance & Drive-time buffers

Data Analysis:
- Filters
- Summary Tables
- Field Calculations
- Queries
- Spatial Join
- Enrichment
- Summary Stats

Plus more…
Results of Analytic Operations are expressed in Cards

Visualizations
Standard Geographies
Tapestry Data
Demographics
Adding Data to Insights

- When adding data to a workbook, each layer, table, or view is added as a separate dataset by default.
Relationships
What data does Insights work with?

- Feature Layers (WebGIS)
- Spreadsheets
- GeoDatabase
- Business Databases
- Big Data
- Real-time data
Sharing

- Workbooks, Pages, Cards, Workflow Templates
  - Insights Viewer
  - Portal Items
- Result Datasets as Feature Layers
- Map Cards as Web Maps
- Results as Story Maps
- Dynamic or Static
ArcGIS Online Update
“The beauty of the online platform is how it pulls together people and departments across the organization, provides instant access to information, and creates time savings. People are finding information and are grateful for the efficiency this creates. The online platform opens minds and people ask for more. It is truly transformative.”

- Christina Kelso, GIS Supervisor, Santa Fe County GIS - May 25, 2017
Fueling Distributed GIS - Additional Capabilities and Improvements

• Advancing Web GIS Capabilities
• Simple and Efficient User Interaction
• Administration, Management and Enterprise Readiness
GIS Capabilities

**Tile Layers**
- Generated on-demand
- Updated automatically feature services
- Reduced the credit cost

**Visualization, Exploration and Analysis**
- Dynamic scripting for labels and pop-ups
- Save your analysis settings to re-run
- Join features, find outliers
- Smart mapping with color/size options and new color ramps

**Sharing Through Web Apps**
- 25% performance improvement - critical for embedding
- Standardized configuration
- 508/WCAG compliant templates

**Support for Using and Working With Content**
- Import Excel, Export Excel and KML
- ArcGIS vector tiles in map viewer basemap galleries
- View Layers - multiple views of a feature layer
- WMS, WMTS, and WFS, Serve WFS
- High accuracy templates for Collector

**Explore, Create, Publish 3D**
- Smart Mapping
- Scene layers from feature layers
- Support for point clouds, vector tiles
- More 3D symbols
Group Page Redesign
- Search and filter group members, content
- Configure groups to join without invitation or approval
- Multiple group managers

Content Access
- My content page includes your content, the orgs content, group content and your favorites
- Search and filter the content in each tab

Improved Search
- Improved search results layout
- Consistent search and filter experience

Items
- Improved tools to better control the look of your items thumbnail - drag and drop, auto scale, adjust
- Data tab (editing, add/remove fields, calculate)

Apps Launcher

Linked Accounts
- Link online accounts and easily switch between them
- Connect your Esri web sites (My Esri, Learn, GeoNet)

User Interface and Experience Advancements
Making Sophisticated Mapping Simple with Improvements to Workflows, Performance and Layout
Administration, Management and Enterprise Readiness

**Manage Users**
- Additional custom role privileges
- Level 1 memberships
- Assign groups and credits during onboarding
- Social logins for authentication
- License management for BA, CA and GeoPlanner

**Manage Items**
- Understand the status and usage of your subscription
- Sharing content between ArcGIS Enterprise and ArcGIS Online
- Premium Feature Data Stores for heavy data workloads

**Security and Trust**
- Advancing Trust.ArcGIS.com
- Continual updates to security, privacy and compliance
ArcGIS Online Road Ahead

2017

2018
ArcGIS Online Roadmap - 2017 - Web GIS Capabilities

- **Hosted Layers**
  - Vector tiles from feature layers + auto management
  - Feature layer management - fields and domains
  - Improved feature layer performance

- **Smart Mapping and Visualization**
  - Multi-scaled clustering that supports thematic visualization - small/medium in client, server-side for large datasets
  - Continued smart mapping enhancements

- **Enable Metadata to Flow Across the Platform for Hosted and Referenced Layers**
ArcGIS Online Roadmap - 2017 - UI/UX Advancements

• Improved Search Results
  - Categorize content in the organization and in groups

• Content Quality Improvements
  - Enable organizations to denote their authoritative content
  - Provide a smooth workflow to deprecate content
  - Use item scoring to boost items in search results

• Other Focused UI/UX Projects
  - Organization Home Page
  - Gallery Page
  - Add Item / Create Item
  - Group pages - select item types for default view, pending invitations
ArcGIS Online Roadmap - 2017 - Administration, Management and Enterprise Readiness

- Improved Collaboration Between Online Organizations
  - Members can work on the same items in Groups
  - Any content type can be included
  - Groups can have full editing and update capabilities for members
  - Configurable for different degrees of collaboration

- App Launcher Improvements
  - Admin can add apps
  - Admin can choose pinned apps

- Additional Admin Privileges
  - Share content publically
  - List items in Marketplace
  - Password resets

- Continued Administrative Improvements for Large Organizations
  - User & data management
ArcGIS Online Roadmap - 2018

- **New Map Viewer**
  - Based on the 4x JSAPI
  - Modern UX/UI
  - Improved display performance
  - Consistent pattern to search for layers (based on 2017 advances to search)
  - Improved experience for editing data
  - Group layer support
  - New experience for defining and displaying pop-ups
  - Organizational-level symbol groups

- **Additional 2018 Projects:**
  - More search improvements
    - Auto suggest/correct
    - Natural language
  - Charting
  - Design and implement custom user home pages
  - Social capabilities - follow, feeds, notifications
  - Continued progress on bulk management actions on users and items
  - Advancement of status reporting
Beyond basic maps