



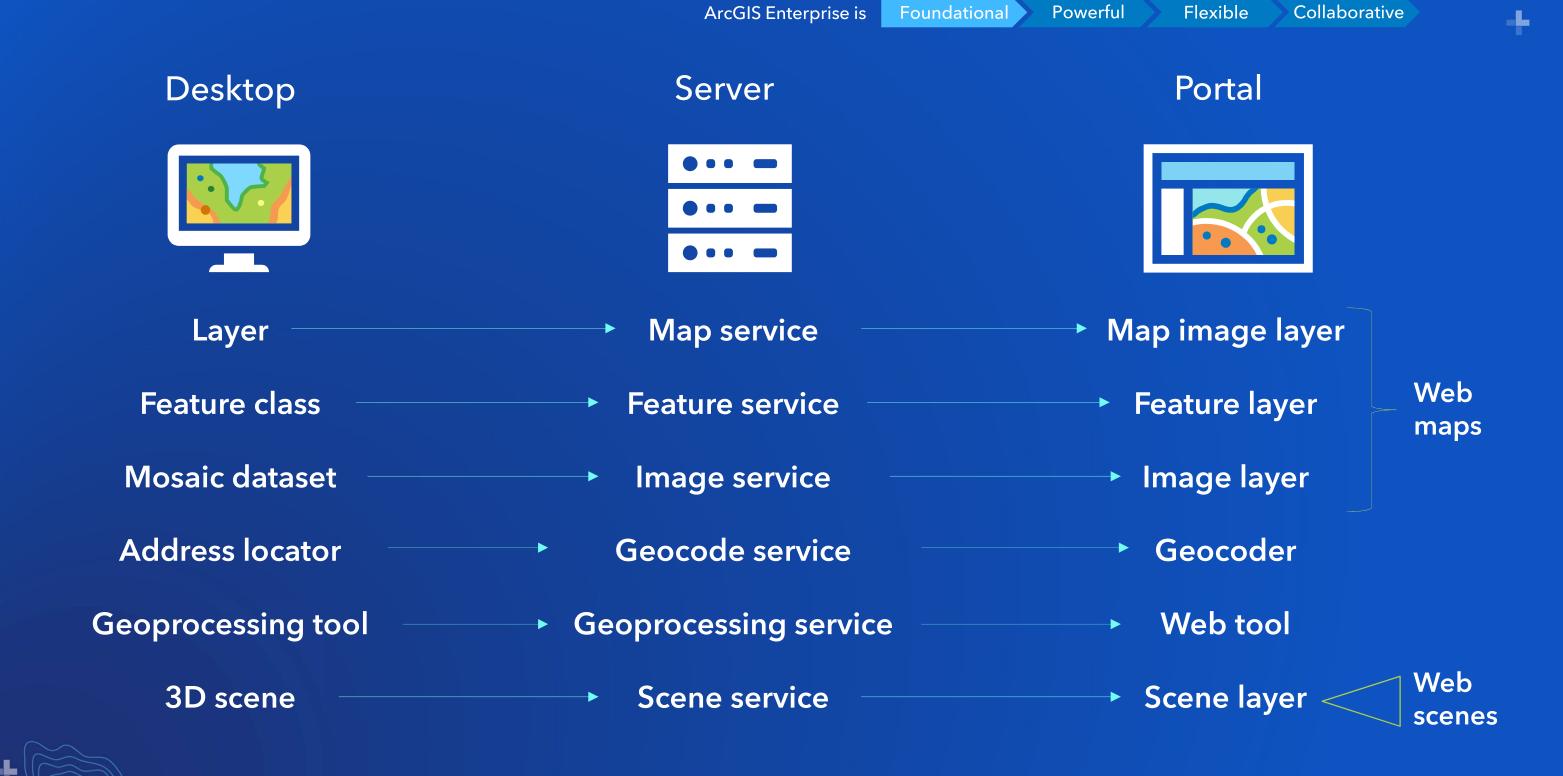
Dienstearchitektur in ArcGIS Enterprise: Das WebGIS Pattern

Matthias Schenker

ArcGIS Enterprise | Server GIS vs. Web GIS

Server GIS Web GIS Use of GIS services with custom front end applications Pervasive use of web layers, scenes, and maps within all of the ArcGIS apps Users Users App Apps ... n+1 Services Web Maps Services portal Web Scenes Web Layers Data

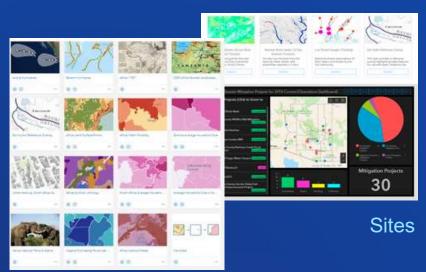
Data



ArcGIS

Organizes and Manages All Aspects of Geographic Knowledge

Data, Information Products, Apps, Models and People and Their Organizations

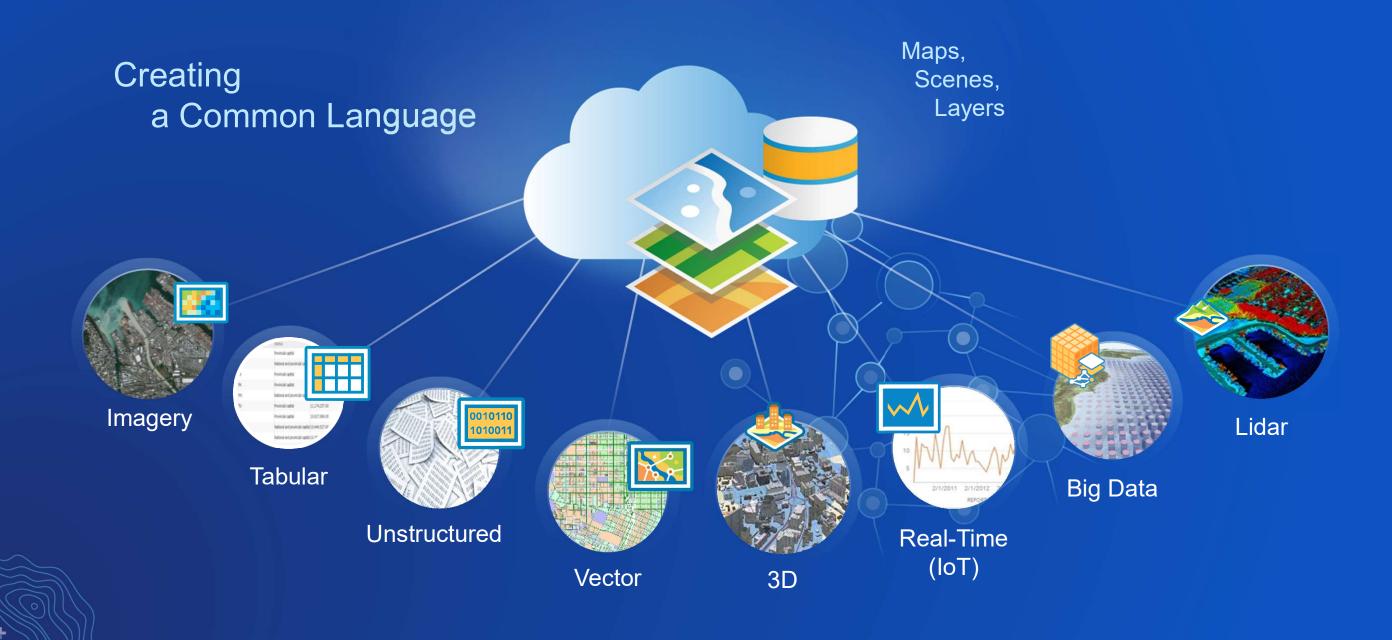


Catalog Integrated User Experiences



ArcGIS

Integrates All Types of Data



ArcGIS

ArcGIS Online

ArcGIS Enterprise

Core Web GIS functionality

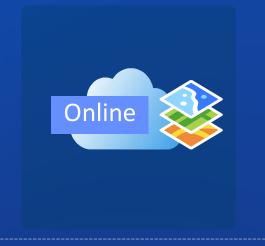
(Apps, visualization, smart mapping, analysis...)

- Hosted by Esri (SaaS)
 - Upgraded automatically (by Esri)
 - Esri controls SLA
- Esri-provided content and services
 - Basemaps
 - Living Atlas
 - GeoEnrichment, Routing, ...

- In your own infrastructure (Software)
 - Upgraded by the organization
 - Organization controls SLA
- Advanced GIS functionality
 - GIS Server
 - Image Server (optional)
 - GeoEvent Server (optional)
 - GeoAnalytics Server (optional)
 - Notebook Server (optional)

ArcGIS Enterprise | Web GIS Pattern Evolution

Begin with ArcGIS Online & SaaS





ArcGIS Enterprise

Customer Managed Infrastructure

> On-premises **Private Cloud** Public Cloud (AWS, Azure, others) **Managed Services**







ArcGIS Online





ArcGIS Enterprise

Begin with ArcGIS Enterprise & Software

User Types | Match the way how your team works



Identity



Capabilities



Apps





View Edit **Analyze** Create **Share Administer**















Creator (equivalent to L2)







Viewing

User Types

Viewer

(equivalent to L1)

Editing

Authoring, Mapping, & Analysis

- New licensing model for users beginning at 10.7
- Provides the much requested 'intermediate level' user
- Each user type has an identity, capabilities and included applications
- Match your licensing to your workflows

4

User Types | Summary

4

ViewerFormerly Level 1



Editor



Field Worker



Creator



GIS Professional



Viewing

Essential Apps

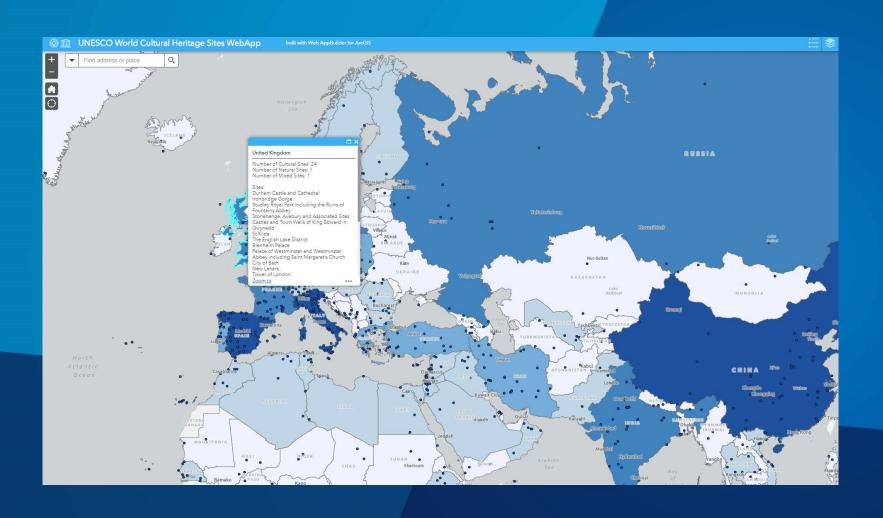
Editing

- Essential Apps
- Essential Apps
- Field Apps

Authoring, Mapping, & Analysis

- Essential Apps
- Field Apps
- Office Apps
- Essential Apps
- Field Apps
- Office Apps
- ArcGIS Pro





Using ArcGIS Enterprise

Upload CSV, Symbology, WebMap, Arcade

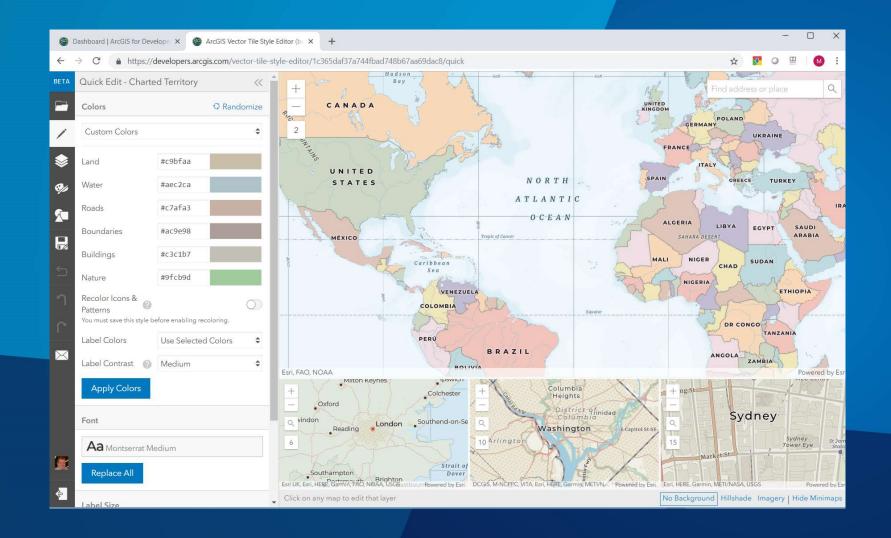
Styling Vectortiles

Using vector tiles in your applications

- Multiple ways to use vector tiles:
 - A) Use Esri provided vector tiles / styles
 - B) Style Esri vector tiles for your own use
 - Change colors
 - Drop layers
 - Match the needs of your application
 - C) Create your own vector tiles from your own data

Styling vector tiles

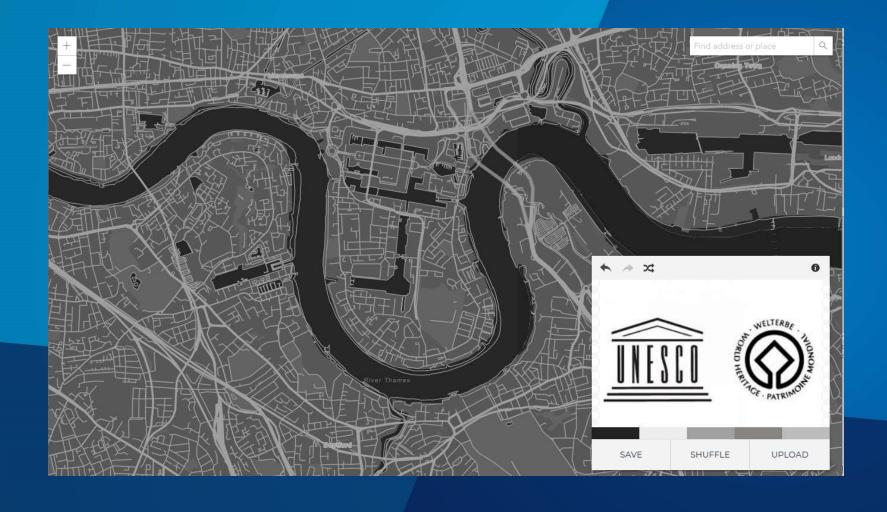
- Simple Style Copy
 - Save tile layer to Enterprise or Online account
- ArcGIS Vector Tile Style Editor now available in ArcGIS Online
- Two additional sample Vector Styling Apps simplify this:
 - Vector Style JSON Editor GitHub
 - Vector Basemap Style Editor GitHub
 - Mapstyler by Esri UK- GitHub
 - Hand editing JSON and uploading is also an option



Styling vector tiles

Demo

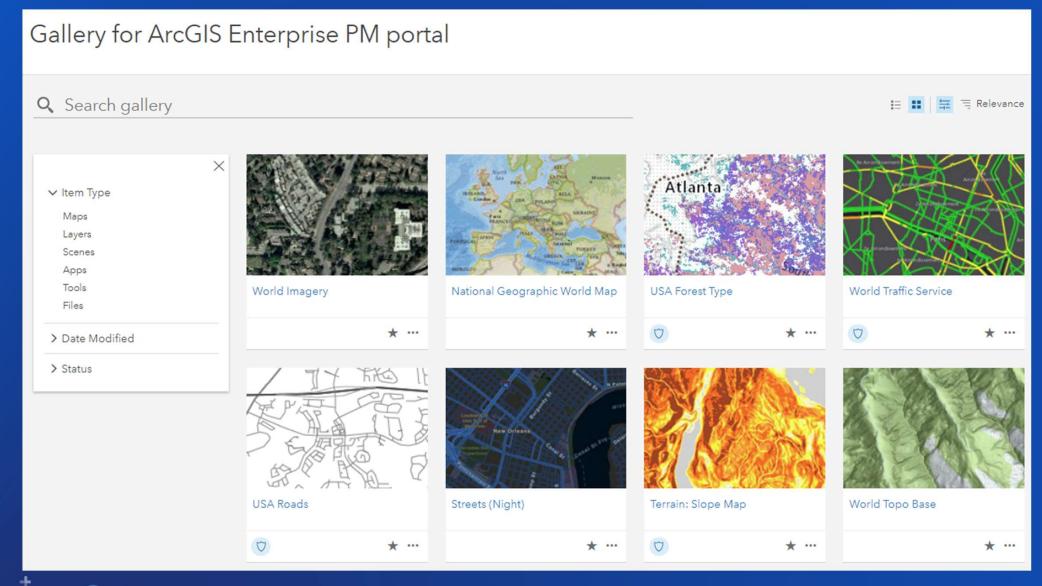
Vector Basemap Style Editor



Mapstyler Demo

Sharing Content with ArcGIS Enterprise

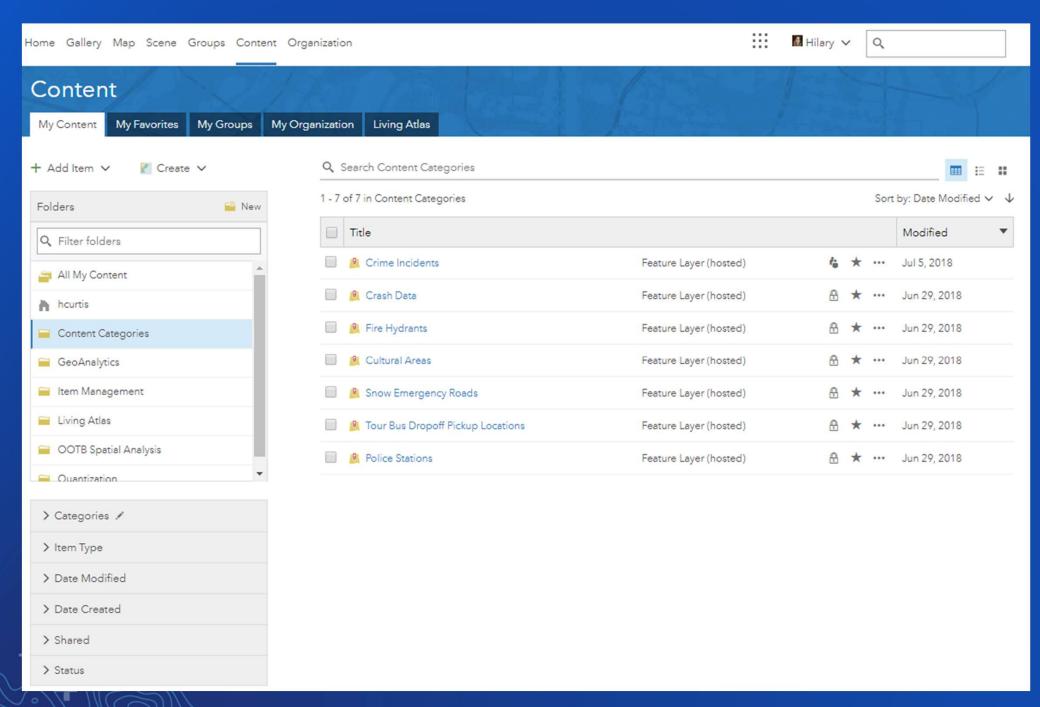
Gallery



- View all content or a curated group
- Filters: Date Modified, Status
- Search
- Living Atlas tab ('Esri Featured Content') moved to Content page

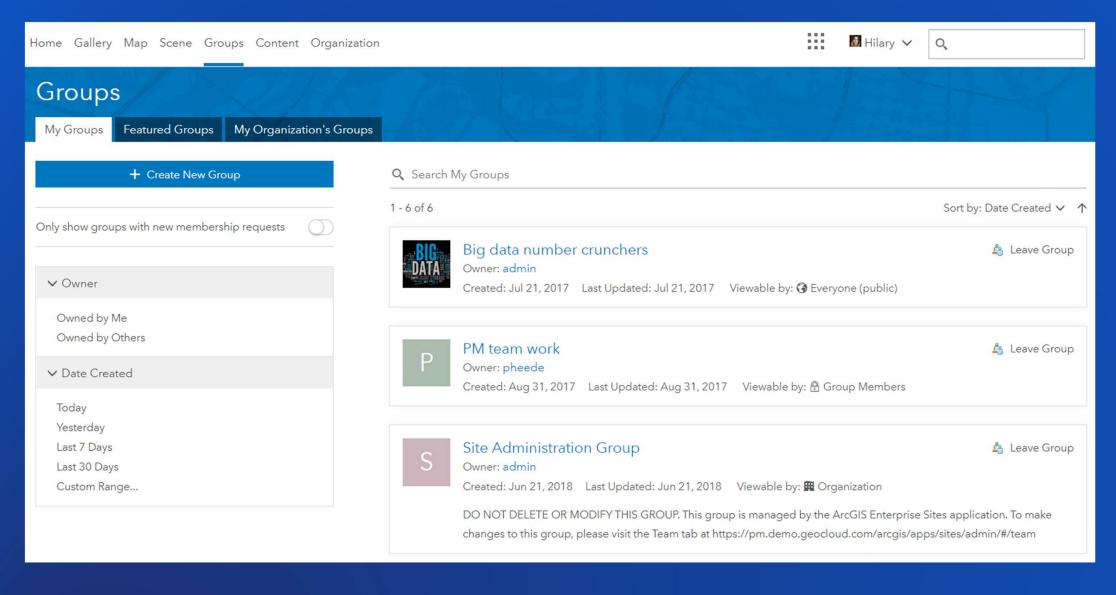
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Content



- Tabs for Subsets
- Filters: categories, date modified,
 date created, shared, status
- Sort by date modified, title
- Display: grid, table, list
- Search

Groups

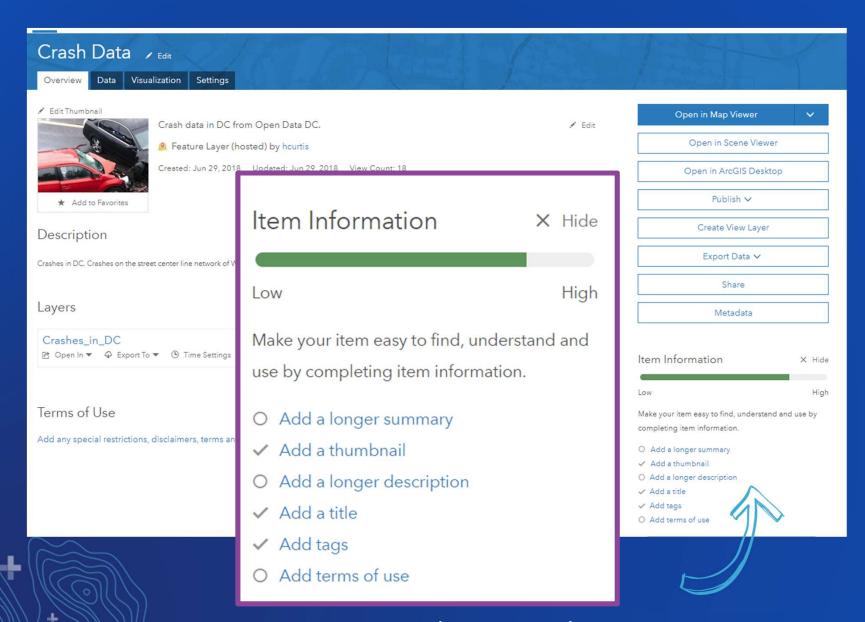


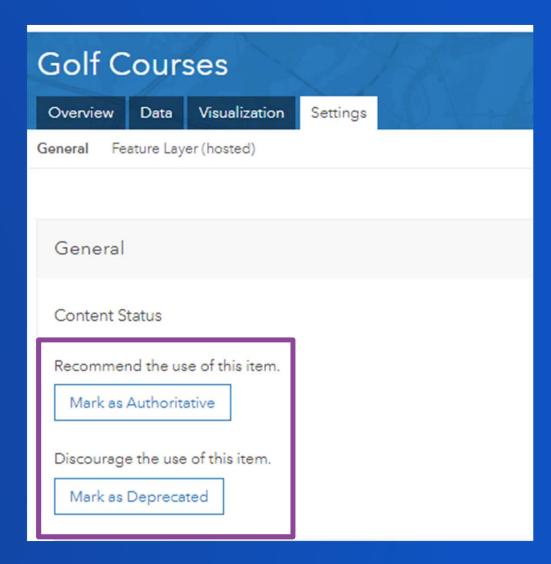
- Filters: date created, viewable by
- Sort by title, date modified, date created
- Search

Item level enhancements

- New item information bar

- Authoritative and deprecated badges





Promote quality items

Encourage quality metadata

Content categories

- A way to arrange and discover content based on organization-wide themes
- Categories allow members to organize items consistently and provide a simple way to browse content in the organization



Custom categories

Create your own categories to organize content within your organization.

ArcGIS categories

ArcGIS categories include a selection of topic categories and subcategories that can be used to categorize many types of geospatial content. These categories are used to support ArcGIS Living Atlas of the World.

ISO categories

ISO categories includes topic categories from the International Organization for Standardization that provide a method for describing and cataloging geographic information.

INSPIRE categories

INSPIRE categories include a comprehensive set of spatial data themes set out in the INSPIRE Directive.

- Use custom or template hierarchies
- Default administrator role or custom role with privilege 'manage categories'

Questions?



