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ArcGIS Enterprise 10.7 und 10.7.1: Neue Funktionen

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Things to consider - Updated product lifecycle

- **Starting with 10.7, ArcGIS Enterprise releases will be either:**
  - **Short term support: 3 years of support including 1.5 years of patches [10.7]**
  - **Long term support: 6 of support including 4 years of patches [10.7.1]**
- **All previous versions will remain long term support**

- When planning your upgrades, take these into consideration
  - Are you updating frequently (every year or two?)
  - Or do you need to choose a version and stay there for a longer time period?

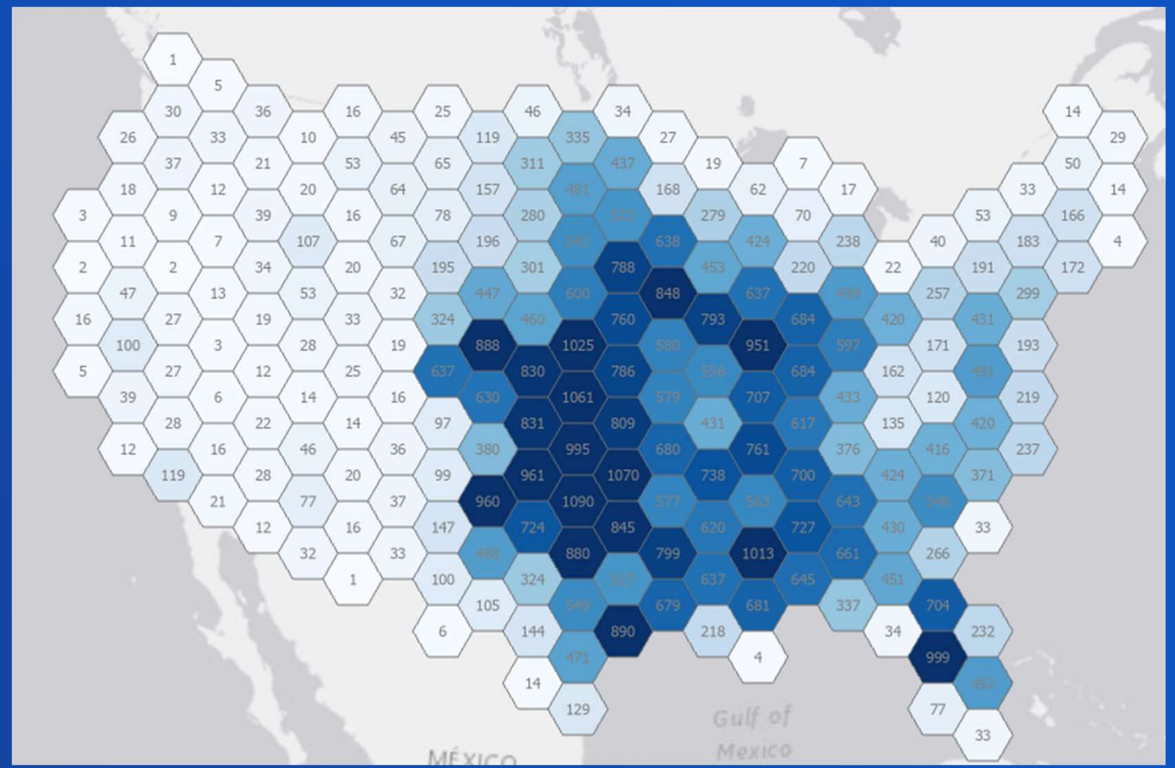
Mapping

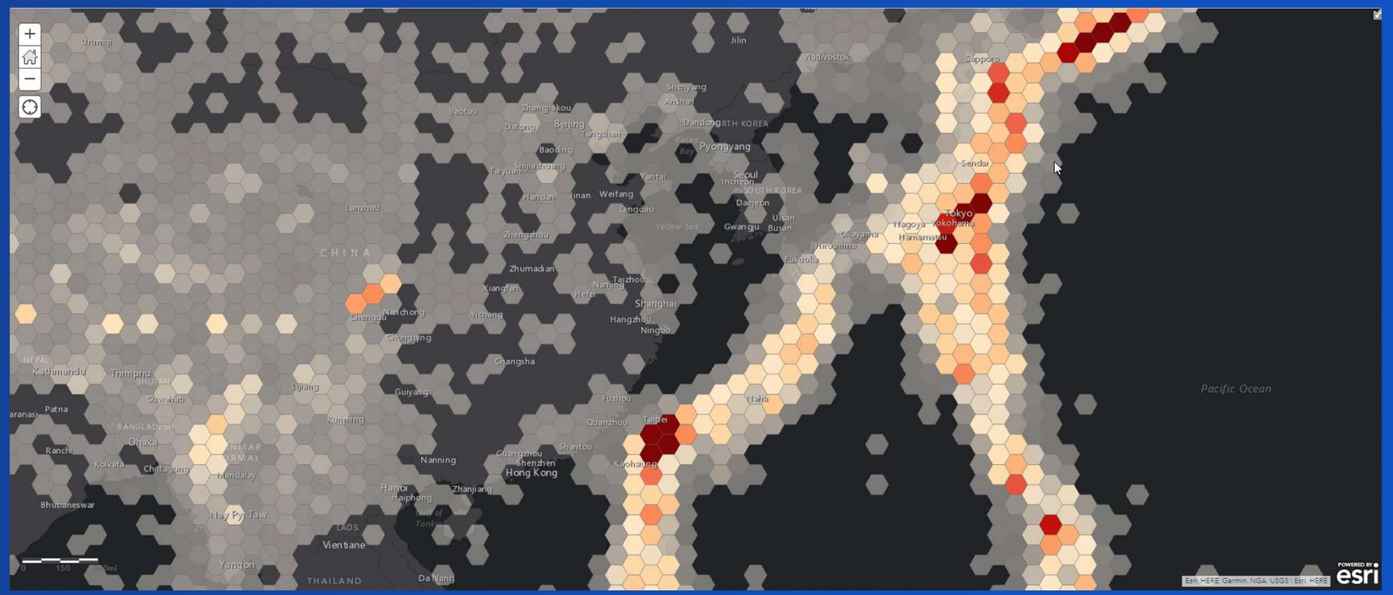
Key enhancements: making it easier to understand patterns in larger datasets and relationships within datasets using out of the box tools.

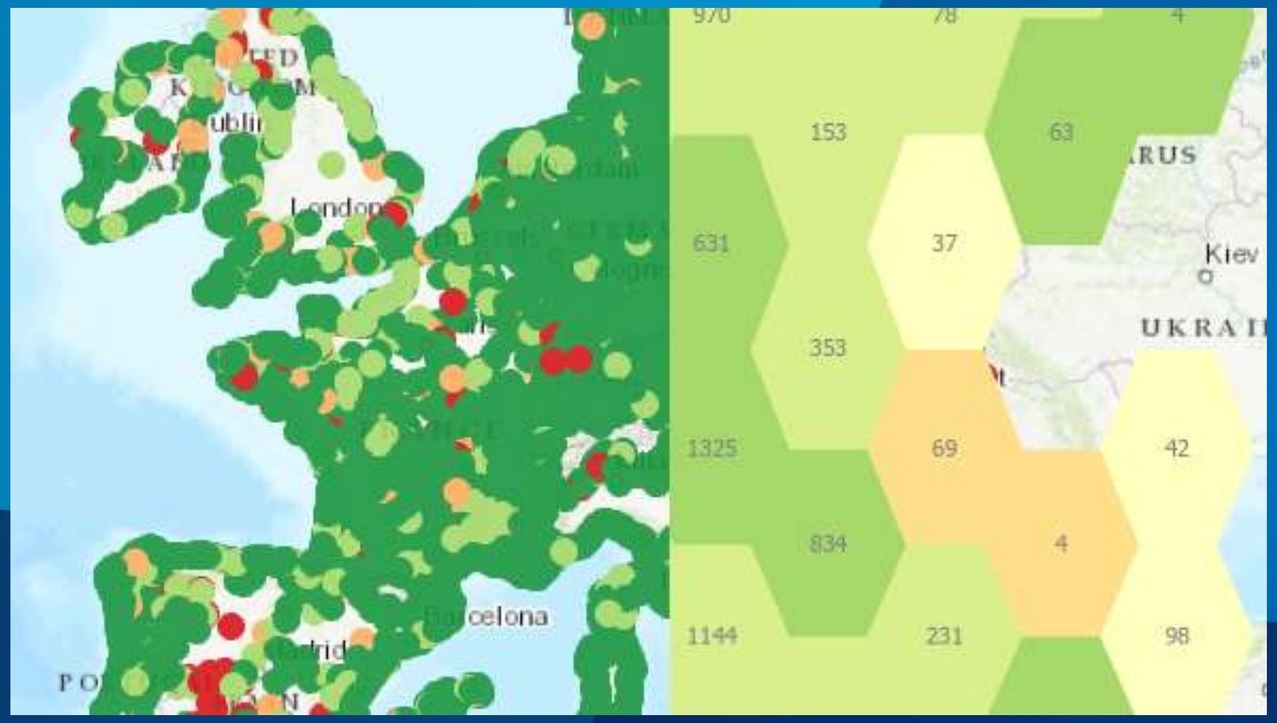
Feature binning

Dynamic visualization of large datasets

- Use server-side rendering to quickly and easily aggregate data into bins
- Helpful for very large and very dense point datasets
- Understand your data and see it dynamically adjust as you pan and zoom
- New for map services published from your own databases (2.4 and 10.7.1)







Feature Binning

Waterquality in Europe

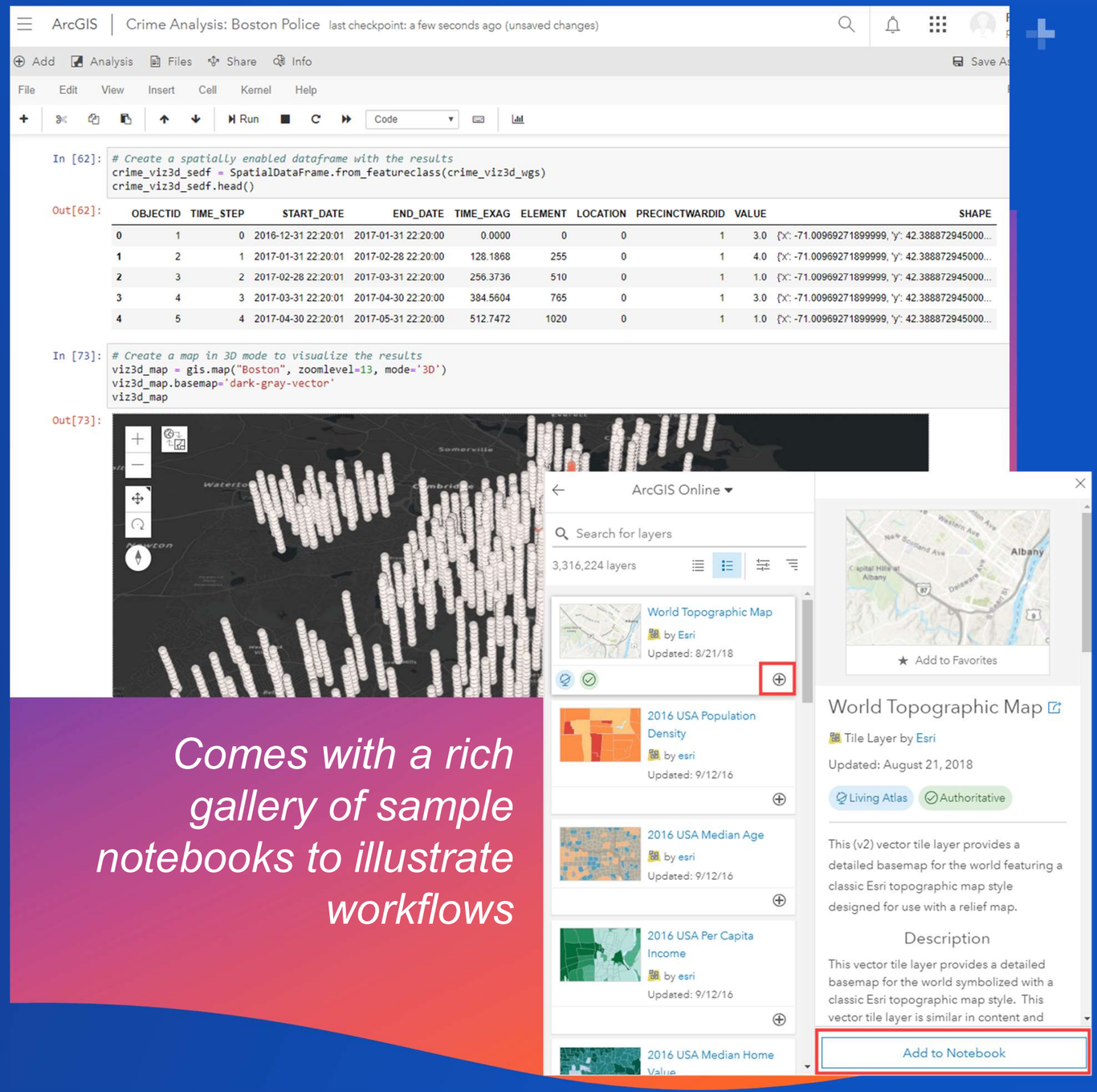
Analysis

Key enhancements: building a complete platform for spatial data science; delivering new tools for big data analysis and deep learning.

ArcGIS Notebook Server

Hosts Python notebooks in ArcGIS Enterprise

- Automate analysis and administration
- Open up access to a powerful data science platform
- Code with the Python API and ArcPy
- Isolate each author's workspace in Docker containers



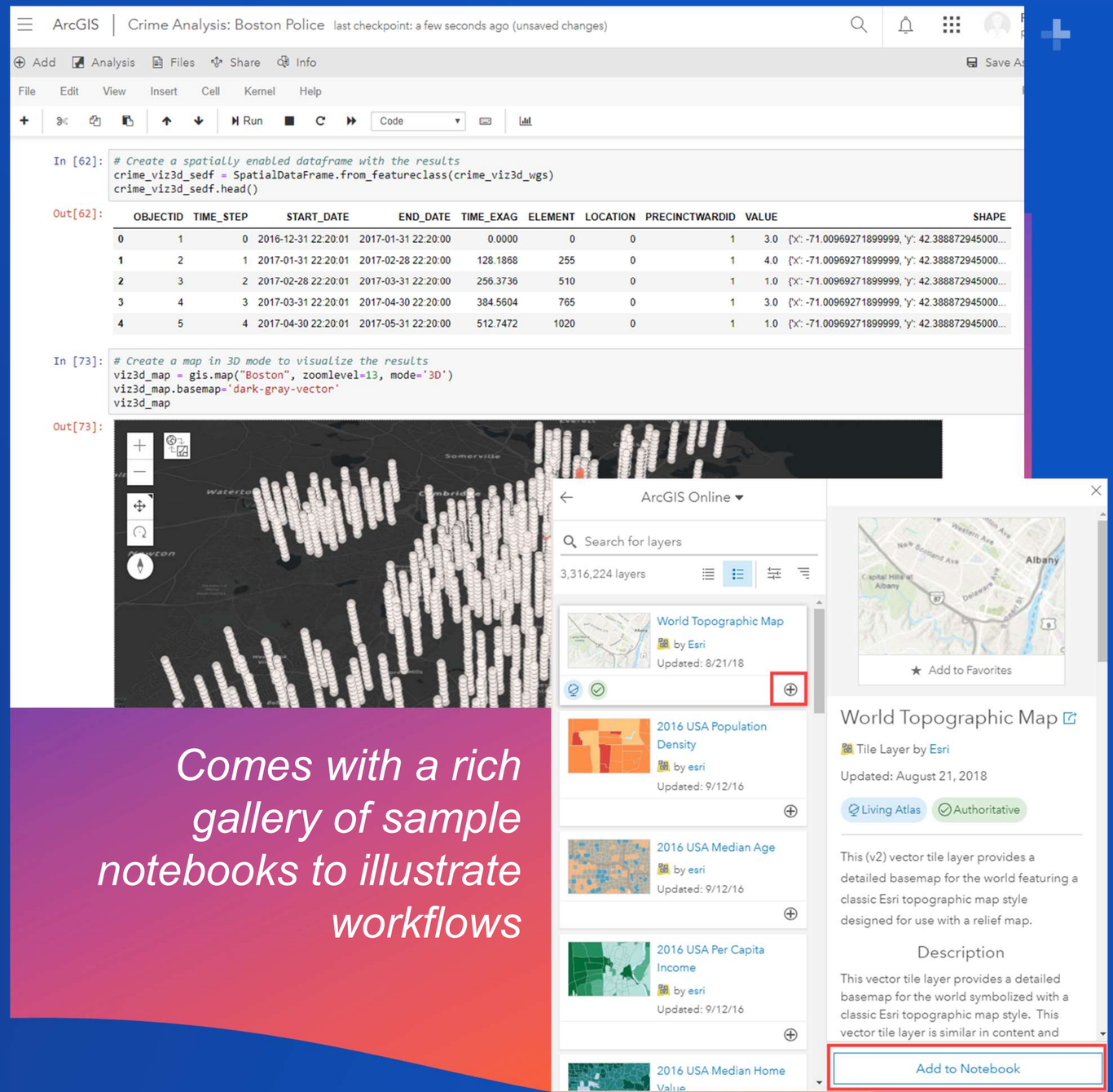
Comes with a rich gallery of sample notebooks to illustrate workflows

ArcGIS Notebook Server

Hosts Python notebooks in ArcGIS Enterprise

Fully integrated with your Enterprise portal:

- Users are granted notebook privileges
- Add and reference portal items from within your notebook
- Share notebooks with other users within your portal



Comes with a rich gallery of sample notebooks to illustrate workflows

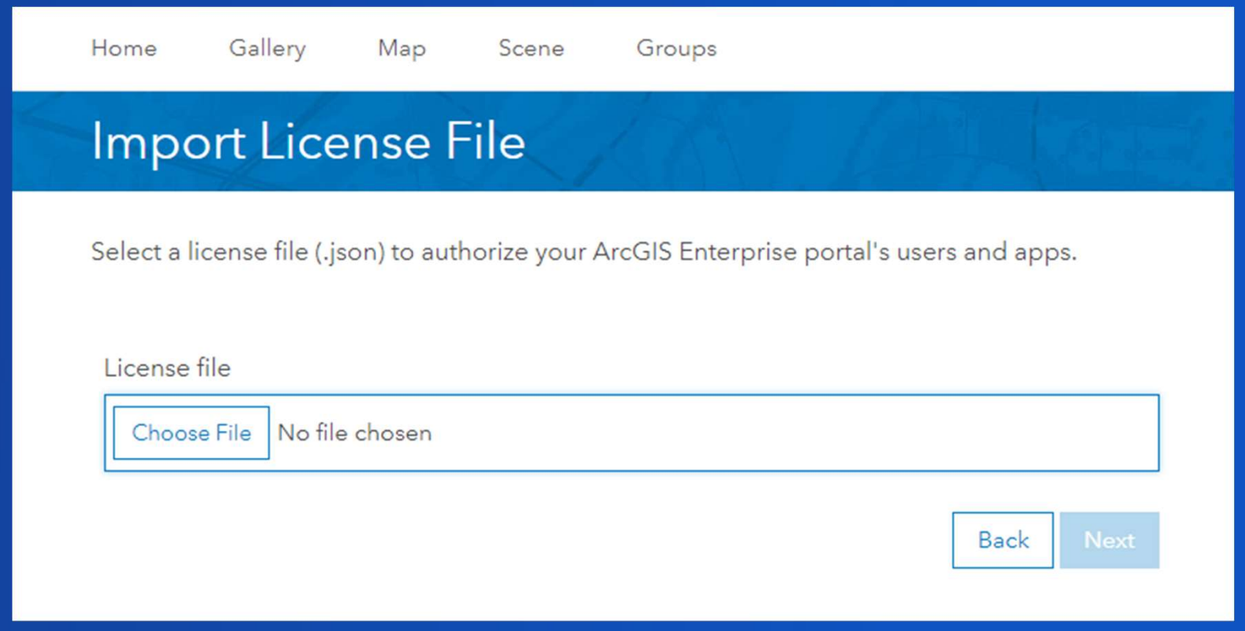
Administration

Key enhancements: making it easier to manage users and licenses, automate notifications of events, and make your deployment more efficient.

Easier ArcGIS Enterprise Licensing

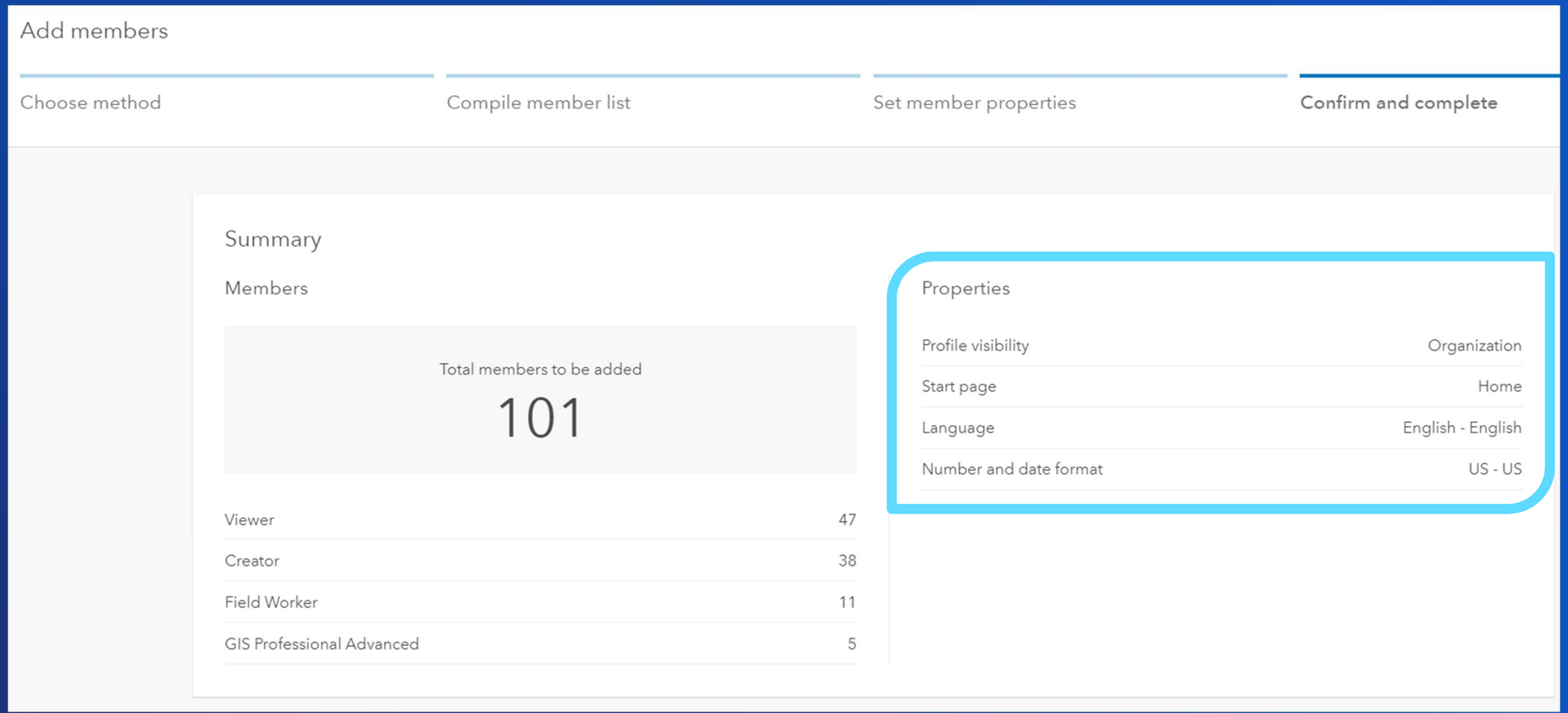
- **Licensing on My Esri**
- **Installing and upgrading**
- **Improved user administration**
- **Improved license management**

- **Single portal json file for user types and applications**
- **No more portal Software Authorization Wizard**



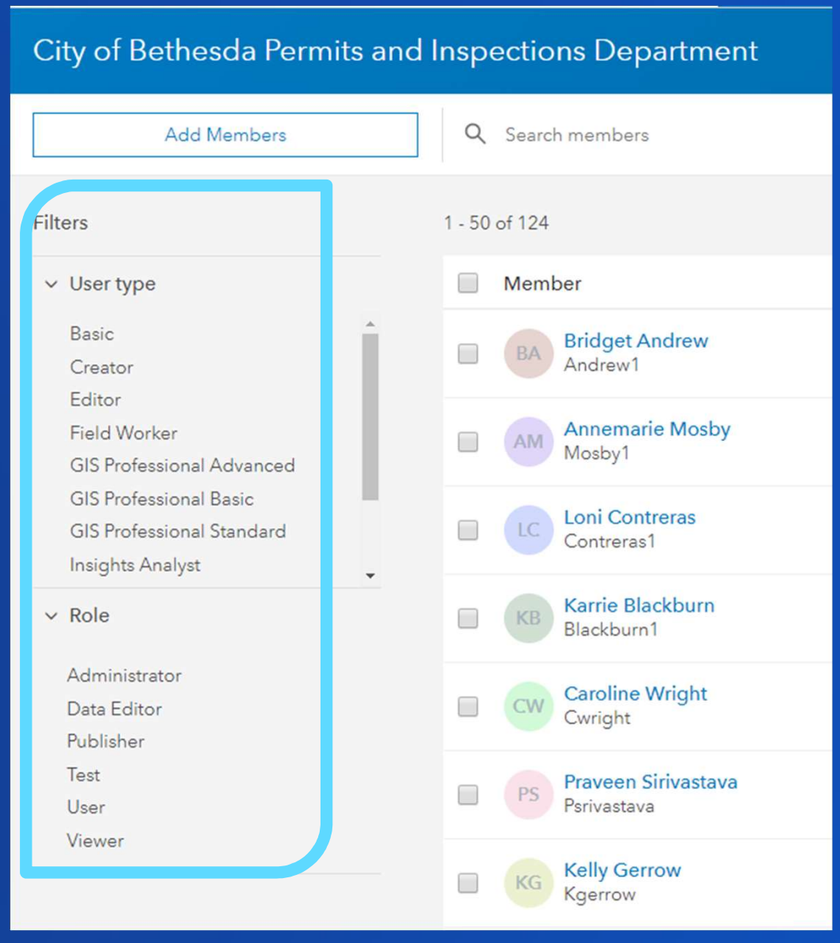
Improved user license management and user administration

- When adding members, can specify default properties & assign licenses



Improved user license management and user administration

- When adding members, can specify default properties & assign licenses
- Enhanced filtering when managing users and licenses:
  - Role
  - User Type
  - Groups (coming soon)



Introducing webhooks

Automate notifications based on portal actions

An action occurs.

- Something is published
- A user creates a new account
- An item is deleted

The webhook is triggered.

- Delivers JSON description of event
- Relevant info fields

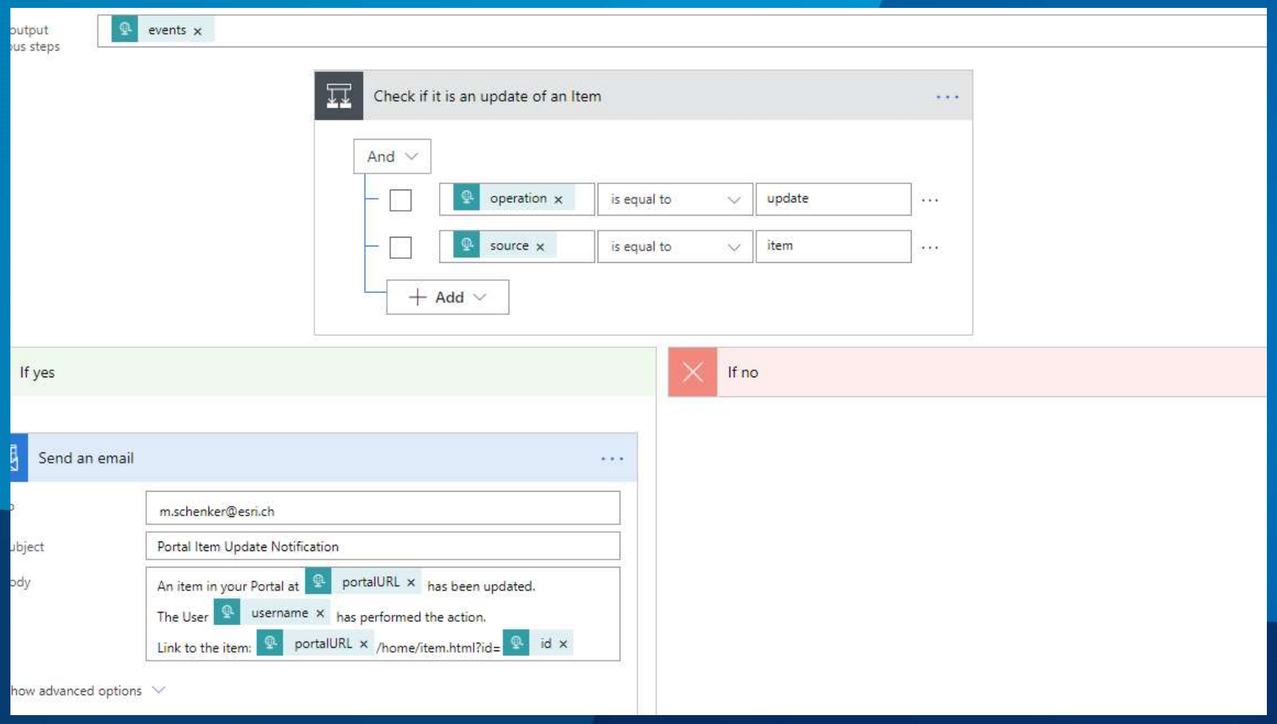

```
{
   "info": {
      "webhookName": "Group monitoring",
      "webhookId": "72fed926aeb74c9ca8a22aacddc6725a",
      "portalURL": "https://machineURL/portal/",
      "when": 1543192196521
   },
   "events": [{
      "username": "administrator",
      "userId": "173dd04b69134bdf99c5000aad0b6298",
      "when": 1543192196521,
      "operation": "update",
      "source": "group",
      "id": "173dd04b69134bdf99c5000aad0b6298",
      "properties": {}
   }]
}
```


Your platform of choice kicks in.

- IFTTT
- Integromat
- Microsoft Flow

It performs an action.

- Emails you
- Posts in Slack
- Alexa announces it at the dinner table (maybe not)



Webhooks

Notification email on updates

Shared instance pool

A game changer for service performance in ArcGIS Enterprise

Frequent traffic

Less frequent traffic

GPService

MapService1

MapService2

FeatService2

MapService3

MapService4

FeatService1

FeatService3

ARCGIS SERVER SITE

- Conserve memory and power usage from unused instances… **without** performance impact
- Isolate high-volume services in dedicated pools
- Reduce administrative overhead of maintaining separate pools for all services

Shared instance pool
New at 10.7

6 ArcSOCs

Participants:
MapService2
MapService3
MapService4
FeatService1
FeatService2
FeatService3

ARCGIS SERVER SITE

Data

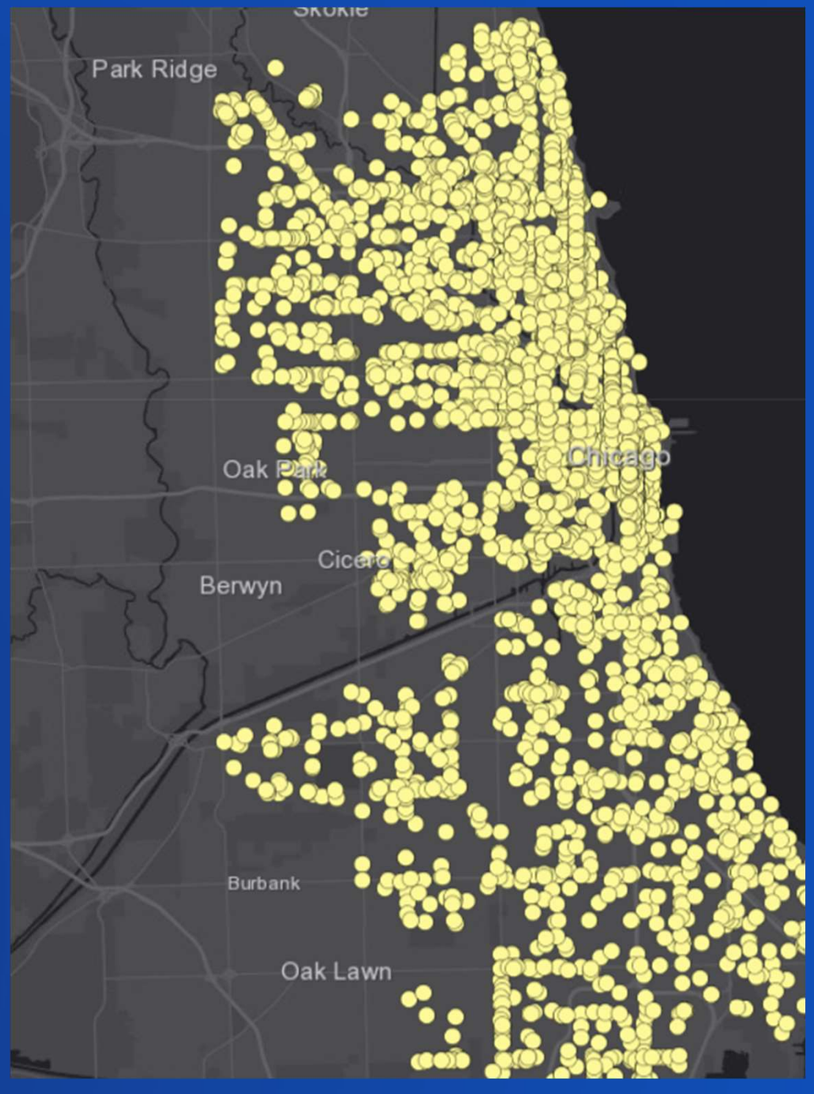
Key enhancements: supporting offline workflows, data integrity and quality & improvements to search, sharing, and collaboration.

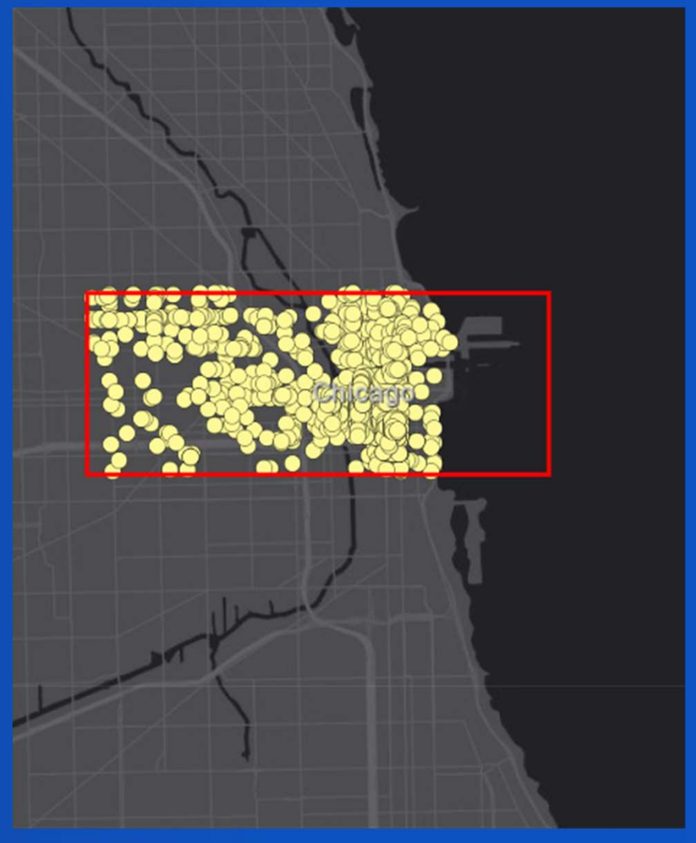
Hosted feature layer views

New option for drawing an area of interest

- Views stay connected to your source data but can have different:
  - Editing settings
  - Sharing settings
  - Symbology

- Expose only a subset of your data using any of these definitions:
  - Area of interest (new!)
  - Feature definition
  - Field definition





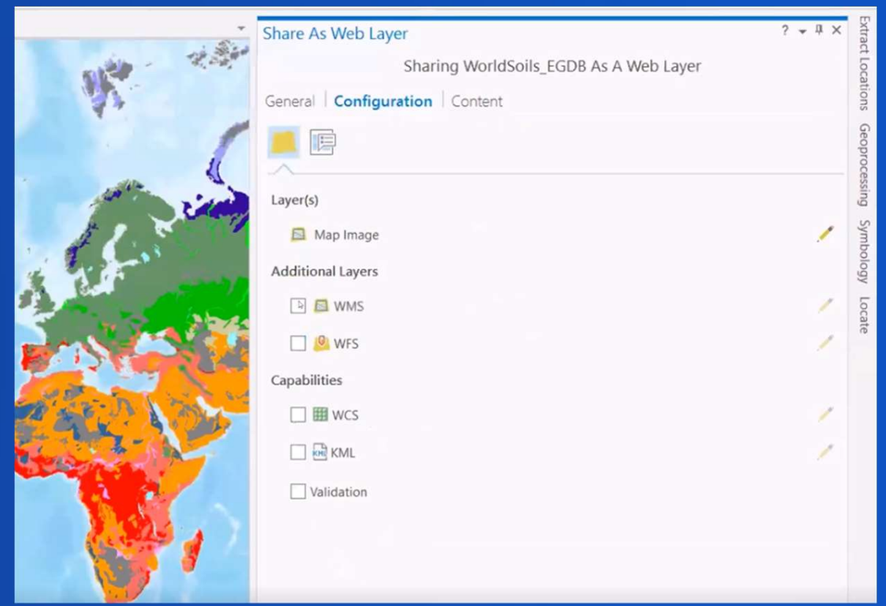
Publishing

Key enhancements: new options for making your data widely accessible to others, new features and functionality when publishing from ArcGIS Pro.

New in publishing

1 **Publish services from ArcGIS Pro to a standalone (unfederated) ArcGIS Server**

2 **Publish OGC services from ArcGIS Pro**
- WMS, WFS, WCS, KML



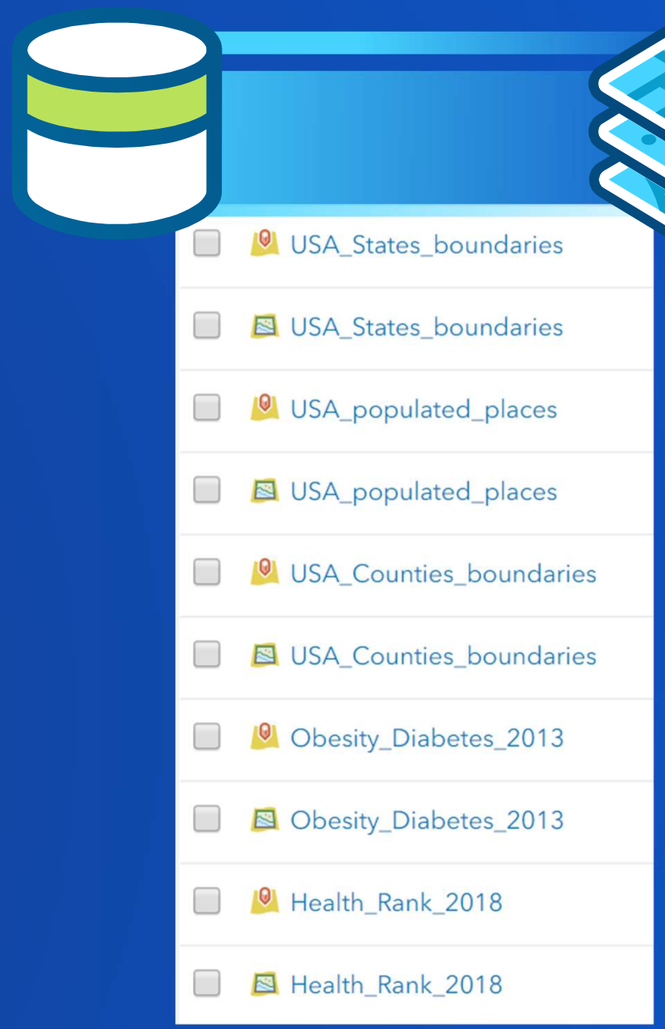
3 **Replace vector tile layer (with enhancements at 10.8)**

4 **Publish feature classes, tables, and imagery in bulk**

Bulk publishing

Quickly and easily create web services from your own data stores

- Creates layers, en masse, from user-managed storage: databases, folders
- Makes data from your own sources easily accessible across your organization: 10s, 100s of layers
- Layers (map and feature) will by default be read-only and use shared instances



Questions ?

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