



OKLAHOMA
Water Resources Board

MESHEK
& ASSOCIATES, LLC

The Oklahoma Flood Plan

Using an ArcGIS Online Partnered Collaboration
to Streamline Project Development and Delivery

Oklahoma SCAUG 2023

 **FREESE
AND
NICHOLS**



Collaborating Partners

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Presentation Goals



INTRODUCE OKLAHOMA
FLOOD PLAN



DISCUSS
COLLABORATIONS



DEMO COLLABORATION
CONFIGURATION



SHARE WORK-AROUNDS
AND LESSONS LEARNED



Oklahoma Flood Plan

- In the wake of historic flooding, the 2020 Oklahoma legislature passed Senate Bill 1269 to create Oklahoma's first statewide flood planning initiative.
- The Oklahoma Flood Plan, integrated with the Oklahoma Comprehensive Water Plan (OCWP), will raise awareness and motivate actions to reduce flood risk.
- At the community level, the plan will identify mitigation projects and provide a foundational structure for initiating and coordinating successful floodplain management programs.



OK Flood Plan GIS Goals



Gather and Summarize Available
Authoritative Data



Share compiled data and maps
with client and public



AGOL HUB Site
owrb.maps.arcgis.com

Data
Maps
Dashboard



ArcGIS Online Partnered Collaborations

- AGOL Organization to AGOL Organization
 - Host and Guest
 - Share content through Groups
 - No Enterprise Partners
- Each organization owns and manages its own content
 - Partners can view, contribute, and edit shared content
 - Create “Shared Update” Groups for group editing
 - Anything shared by guest is stored in the guests AGOL organization



ArcGIS Online Distributed Collaborations

- ArcGIS Online to ArcGIS Enterprise 10.5.1 or higher
 - AGOL is always the host organization
 - Only one AGOL organization allowed
 - Multiple Enterprise organizations can be guests
- Data Shared through Collaboration Workspaces
 - Workspaces Determine Sharing Model
 - References
 - Copies
 - Synchronization interval set by guests (Enterprise)
 - User Access Modes
 - Send, Receive, or Both
- Extremely Flexible
 - Can connect multiple Enterprise Deployments





Oklahoma Flood Plan -Partnered Collaboration

- AGOL to AGOL only
 - Host Partner -OWRB and Guest Partners -Meshek & FNI
- Access maps, apps, and data through existing Named Users
- Edit Maps, Apps, and Data through “Shared Update” Groups
- Content to be built in OWRB’s AGOL organization
 - Data, Maps, Apps, Dashboards etc.
 - Wait... –What happens when the project is completed?
 - Maps and data shared by Guests only exist in Guests AGOL
 - When collaborations end, all Partners lose access to each other’s content*
 - Enter the Work-Arounds!



Partnered Collaboration Set Up



Establish the Collaboration

Assign Name, Description, etc.



Assign Collaboration Coordinators

Coordinators Invite Users From Their
Respective AGOL Organizations
Can be assigned Group Managers



Create/Designate Shared Groups

Create “Shared Update” Group to Allow
Editing of Shared Content
“Shared Update” Groups Can’t be Public



Where to Start

The screenshot shows the 'Organization' settings page for 'Meshek & Associates LLC'. The top navigation bar includes links for Home, Gallery, Map, Scene, Notebook, Groups, Content, and Organization. The 'Organization' sub-menu is open, showing Overview, Members, Licenses, Status, and Settings. A search bar for 'Search Settings' is present. The left sidebar lists various settings categories: General, Home page, Gallery, Map, Items, Groups, Utility services, Members, New user defaults, and Collaborations. The main content area is titled 'Home page' and contains a 'Home page editor' section with a description and a 'Launch editor' button. A note at the bottom states: 'You can still view your [previous home page](#) if you need to.' Three numbered arrows indicate the navigation path: Arrow 1 points to the 'Organization' tab; Arrow 2 points to the 'Settings' sub-tab; Arrow 3 points to the 'Collaborations' link in the left sidebar.

3b: Don't forget this upfront

Marketplace

Collaborations

Credits

Collaboration coordinators

Designate members to represent your organization across all collaborations. These coordinators can easily be found and directly added to groups owned by partnered collaborations.

[Manage collaboration coordinators](#)



Sending Invites

Collaborations

Partnered

Partnered collaborations allow ArcGIS Online organizations to work closely and securely with each other in groups. In order to work in this way, you must establish a partnered collaboration with each organization.

[Learn more about partnered collaborations.](#)

Start a collaboration

Existing collaborations

4

Start a collaboration

Individual invitation

Multiple invitations

Organization's home page URL

Where do I find this?

https://orgurl.maps.arcgis.com/home/index.html

Allow this organization to search for members from Meshek & Associates LLC



Message to organization

Meshek & Associates LLC would like to start a collaboration with your organization.

5

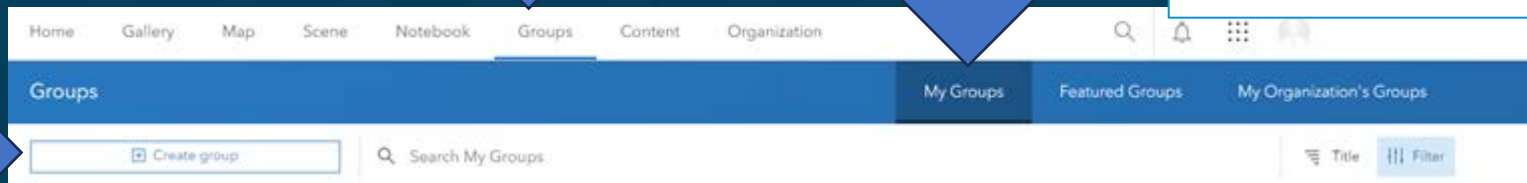
Start collaboration

Cancel



Setting up the Group

Don't forget the importance of "My Group" versus "My Organization" in menus



8

(Create a new group
OR update an existing
group)

If you're already in an externally created collaboration, the Group is going to be under "My Groups" not "My Organization's Groups," since your organization doesn't own the group



Distributed Collaboration Workspaces

1

Create Workspace

Step 1 of 4

Set a name and description for your workspace.

Workspace Name:

Provide a workspace name.

Workspace Description:

Provide a brief description of your workspace.

Collaborating participant organizations define specific items to share by placing them in a group while maintaining restrictive access to other content in their portals. Guest portals participate in collaboration projects by linking a group with collaboration workspaces.

Next Cancel

2

Create Workspace

Step 2 of 4

Select a group to link to the workspace. Note that a group may be associated with only one workspace.

Group

☐ New Group: Provide a group name.

Tags: Add tags

☒ Existing Group: Planning Projects

Back Next Cancel

How this looks on the
Enterprise end

2a

Edit Workspace

Group

☐ New Group: Provide a group name.

Tags: Add tags

☒ Existing Group: Meshek AGO Enterprise Collaboration Group

Sync Settings

Sync at scheduled intervals

Start syncing at 16:51

And then repeat every 24 hours

Access: Receive Content
(Your group will receive items from this workspace.)

Save Cancel

3

Create Workspace

Step 3 of 4

Set the workspace sync settings.

Sync Settings Sync at scheduled intervals

Guests will control the schedule at which content and feature layer edits will be synchronized.

Feature layers and views in my portal are sent as

☒ References

☐ Copies

Feature layers and views are accessed live by collaboration participants and are not copies. You must grant collaboration participants access to the layers and views in the originating portal.

Collaboration participants receive feature layers and views as hosted feature layers that are periodically synced. Ensure that you check 'Enable Sync' on the source feature layer's or view's item settings to send it as a copy. Learn more

☐ Allow two-way sharing of feature service edits to eligible participants

☒ If unable to share as copies share as references

Back Next Cancel

References or
Copies?



Collaboration Work-Arounds

- Host Organization has no available AGOL Named Users
 - Guest Send Map Packages to Host
 - Host Creates Groups, Shares Data,
 - Host must also initially create all Maps, Apps, Dashboards, Groups, etc.
 - Host Maintains Ownership of Content
 - Configuration Files Stored in Hosts Organization
 - Guests can then edit Maps, Apps & Data using “Shared Update” Groups
 - Benefits
 - Requires no additional licensing.
 - Higher Security
 - Drawbacks
 - More work for Host organization
 - Takes more Coordination/Less Nimble



Collaboration Work-Arounds

- Host Organization has available AGOL Named Users
 - Host can assign temporary “Visitor” Named User inside Host Organization
 - Allowed by ESRI licensing while under contract
 - Host Organization can still limit access to specific Groups & Content
 - Guests use their “Visitor” Named User for
 - Publishing Data
 - Creating Maps, Apps, Dashboards, etc.
 - Sharing content with Group
 - Benefits
 - Increased efficiency
 - Less required from Host organization
 - Drawbacks
 - Requires Available Named User
 - Lower Security





Collaboration Work-Arounds


- Pay attention to who creates the content
 - Content shared by guests exist in Guest AGOL
- If you create content as a guest and need it to be in Host AGOL
 - Use AGOL Assistant to transfer content
 - <https://ago-assistant.esri.com/>
 - Guest logs into AGOL Assistant
 - Copy JSON of content
 - Paste into text document
 - Send to Host
 - Host logs into AGOL Assistant
 - Pastes sent JSON into “Blank” content shell




Login with Guest Partners Credentials


ArcGIS Online Assistant

Search My Content  

I want to... 

Willard Gustafson (WillardGustafson) 

Willard Gustafson -
<https://wgust.maps.arcgis.com/>

Current User: Willard Gustafson (WillardGustafson) 

Root 1

CoolMaps 1



Find and Copy JSON into Text File

The screenshot illustrates the process of finding and copying JSON metadata from ArcGIS Online. On the left, the ArcGIS Online Assistant interface shows a search for 'OFP_TEST' under the user 'Willard Gustafson'. The search results list 'Root' and 'CoolMaps', with 'OFP_TEST' (Type: Web Map | Item ID: 2f0004) selected under 'CoolMaps'. On the right, a text editor window titled 'test1.txt' displays the JSON metadata for the selected item, starting with an opening curly brace and including fields like 'id', 'owner', 'created', 'isOrgItem', 'modified', 'guid', 'name', 'title', 'type', 'typeKeywords', 'description', 'tags', 'snippet', 'thumbnail', 'documentation', and 'extent'.

```
{
  "id": "2f0004ae517d419c97e2dc2d83520133",
  "owner": "WillardGustafson",
  "created": 1695688853000,
  "isOrgItem": true,
  "modified": 1695688853000,
  "guid": null,
  "name": null,
  "title": "OFP_TEST",
  "type": "Web Map",
  "typeKeywords": [
    "ArcGIS API for JavaScript",
    "ArcGIS Online",
    "Explorer Web Map",
    "Map",
    "Offline",
    "Online Map",
    "Web Map"
  ],
  "description": null,
  "tags": [],
  "snippet": null,
  "thumbnail": "thumbnail/ago_downloaded.png",
  "documentation": null,
  "extent": [
```



Host Pastes Copied JSON into New Blank Map

The screenshot displays the ArcGIS Online Assistant interface. On the left, a text editor shows a JSON object for a map item. The main panel displays the user's profile and a list of map items. The right panel shows a JSON object for a map item, which is being edited. The bottom panel shows a JSON object for a map item, which is being edited.

Left Panel (test1.txt):

```
{
  "id": "2f0004ae517",
  "owner": "WillardG",
  "created": 1695688,
  "isOrgItem": true,
  "modified": 1695688,
  "guid": null,
  "name": null,
  "title": "OFF_TEST",
  "type": "Web Map",
  "typeKeywords": [
    "ArcGIS API fo",
    "ArcGIS Online",
    "Explorer Web",
    "Map",
    "Offline",
    "Online Map",
    "Web Map"
  ],
  "description": null,
  "tags": [],
  "snippet": null,
  "thumbnail": "thumb",
  "documentation": null,
  "extent": null
}
```

Main Panel:

Willard Gustafson - <https://wgust.maps.arcgis.com/>
Current User: Willard Gustafson (WillardGustafson)

Root (1)

- ofp_test2
Type: Web Map | Item ID: a01042

CoolMaps (1)

- OFF_TEST
Type: Web Map | Item ID: 2f0004

Right Panel:

```
56 "commentsEnabled": true,
57 "numComments": 0,
58 "numRatings": 0,
59 "avgRating": 0,
60 "numViews": 9,
61 "itemControl": "admin",
62 "scoreCompleteness": 33,
63 "groupDesignations": null,
64 "tokenExpirationDate": -1,
65 "contentOrigin": "self",
66 "lastViewed": 1695690000000
67 }
```

Data Panel:

```
1 {
2   "operationalLayers": [],
3   "baseMap": {
4     "baseMapLayers": [
5       {
6         "id": "18acef77e9b-layer-0",
7         "title": "World Topo Map",
8         "url": "https://services
          .arcgisonline.com/ArcGIS
          /rest/services
```



In Summary

- AGOL Partnered Collaborations are easy to set up
- Collaborations enable simple sharing of Data, Maps, and Apps
 - Collaborative editing enabled using Shared Update Groups
- Collaborations do not *require* additional licensing or Named Users
 - If Available, “Visitor” Named Users in Host Org can simplify workflow
- Collaborations make working with external Consultants easier
- With Collaborations limitations can be overcome
 - Look for the work-arounds



Helpful Links –AGOL Collaborations

- [Understanding Collaborations](#)

- <https://doc.arcgis.com/en/arcgis-online/administer/understand-collaborations.htm>

- [Partnered Collaboration BLOG](#)

- <https://www.esri.com/arcgis-blog/products/arcgis-online/sharing-collaboration/partnered-collaboration-working-together-across-arcgis-online-organizations/>

- [Collaboration Q&A](#)

- <https://www.esri.com/arcgis-blog/products/arcgis-online/sharing-collaboration/answering-your-questions-on-collaborating-in-arcgis-online/>



OKLAHOMA Water Resources Board



Thank You!

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