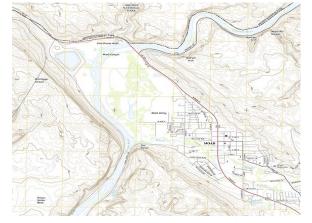
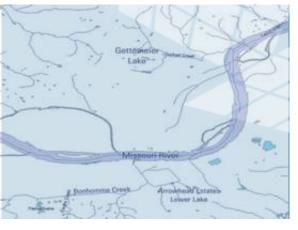
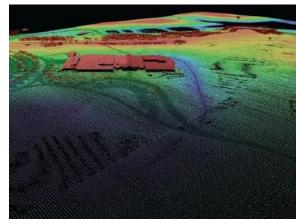
### ArcGIS Online 3DEP Contractor Acquisition and Production Status Application Overview













Geospatial Planning and Services Contractors

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National Geospatial Technical Operations Center

February 29, 2024

#### Outline

- ArcGIS Online 3DEP Contractor Acquisition and Production Status Application
- Account Set Up
- Understanding the Data Layers
- Data Entry
- Common Errors
- Demonstration of the Dashboard and Data Entry



# ArcGIS Online 3DEP Contractor Acquisition and Production Status Application

#### Overview

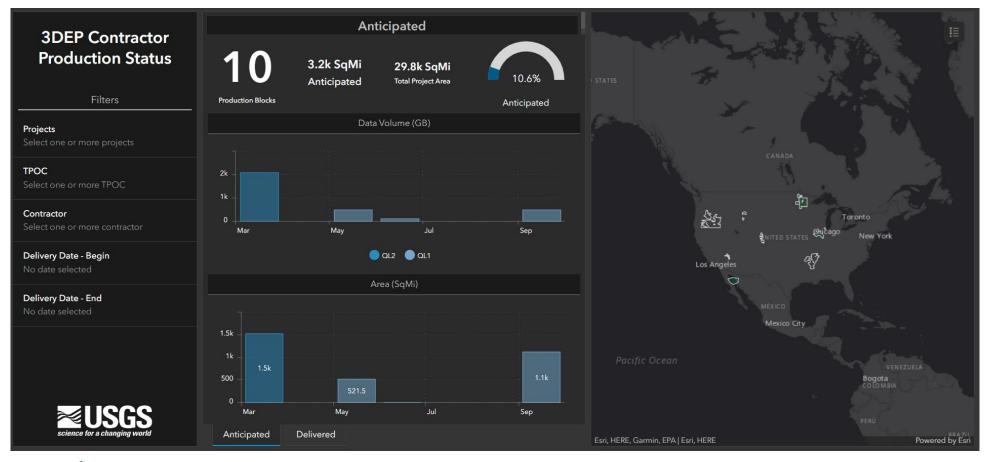
- Esri ArcGIS Online (AGOL) web application
- Intended to convey the status of 3DEP acquisition and data production to USGS stakeholders
- Contractors working on 3DEP projects add content to an Esri Geodatabase
- USGS users access this content using AGOL dashboards or with ArcGIS Pro
- Primary layers are:
  - Projects the defined project area (DPA) with a unique PTS ID
  - Flight Lines convey the status of aerial acquisition
  - Data Extent polygons represent the spatial extents of production blocks of data



# What is the ArcGIS Online 3DEP Contractor Acquisition and Production Status Application

#### Initial Data Delivery Dashboard

■ Shows the square mileage and data volume anticipated and delivered by month



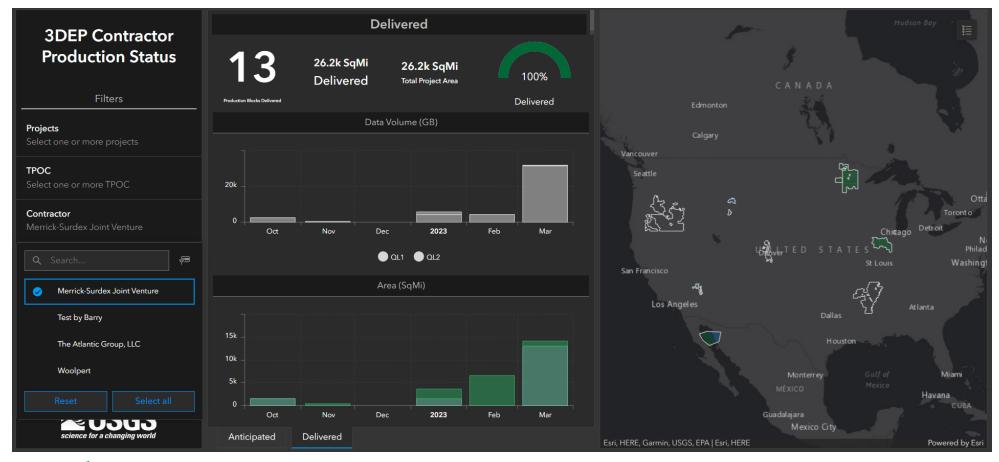




# What is the ArcGIS Online 3DEP Contractor Acquisition and Production Status Application

#### Initial Data Delivery Dashboard

■ Can filter based on project name, TPOC, contractor, or dates







# What is the ArcGIS Online 3DEP Contractor Acquisition and Production Status Application

#### **Data Acquisition Dashboard**

■ Shows the status of aerial flight line acquisition



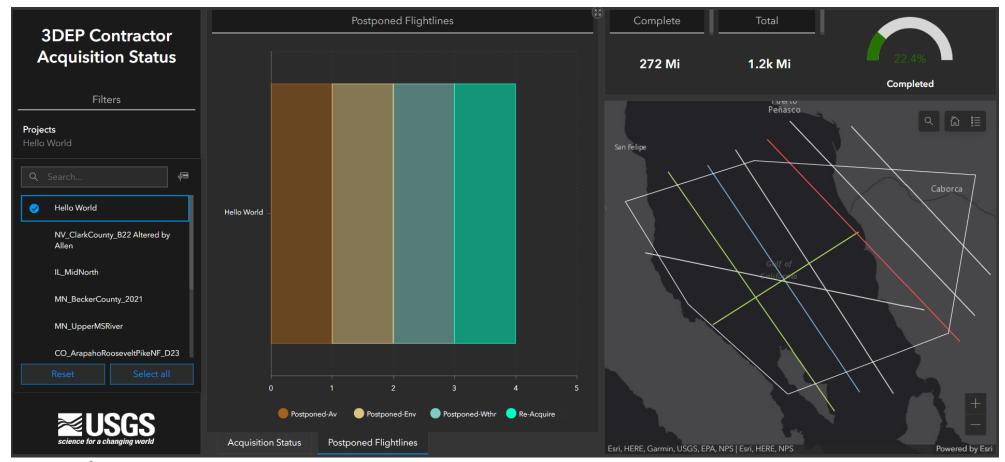




# What is the ArcGIS Online 3DEP Contractor Acquisition and Production Status Application

#### **Data Acquisition Dashboard**

Will show postponed flight line status as well





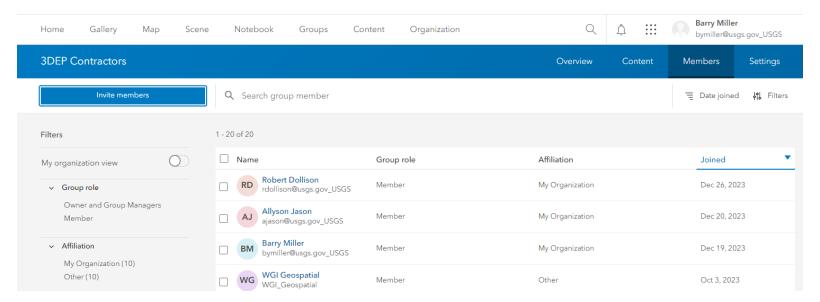




## Account Set Up

#### 3DEP Contractors Group

- USGS will send an Esri ArcGIS Online (AGOL) invitation to join the "3DEP Contractors" group
- Recommend each company set up one group account for all project managers to use
- Otherwise, an individual can only see and edit their own features







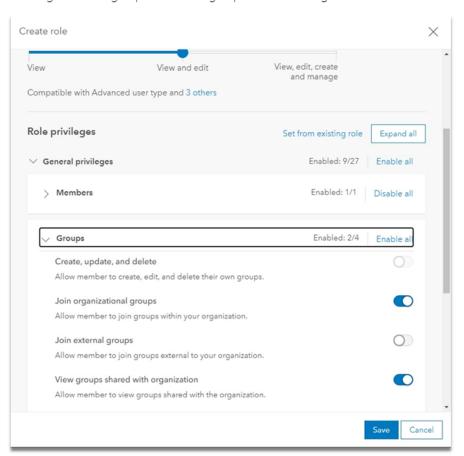


## Account Set Up

#### Join External Groups

 Ensure your ArcGIS Online administrator sets your account to be able to join external groups

"Join organizational groups" and "View groups shared with organization" should be enabled.



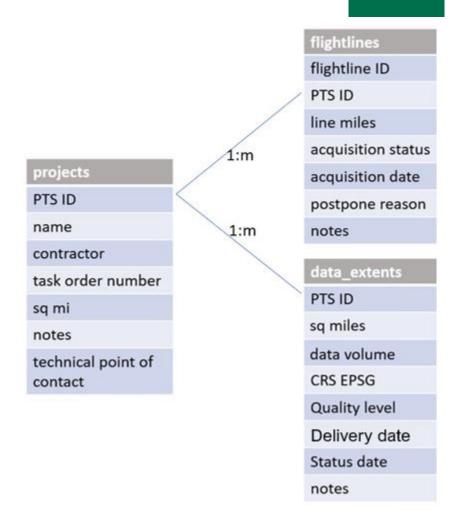
In the Groups privileges enable "Join external groups"

liew	View and edit	View, edit, create and manage	
Comp	atible with Advanced user type and 3 others		
≀ole	privileges	Set from existing role	Expand all
√ G	eneral privileges	Enabled: 10/27	Enable all
>	Members	Enabled: 1/1	Disable all
~	Groups	Enabled: 3/4	Disable all
	Create, update, and delete		0
	Allow member to create, edit, and delete their own groups.		
	Join organizational groups		
	Allow member to join groups within your organization.		
	Join external groups		0
	Allow member to join groups external to your organization.		
	View groups shared with organization		
	Allow member to view groups shared with the organization.		



#### Overview

- Data is entered by contractors
- Each contractor organization should use one AGOL account
- Each contractor can only see and edit their own data
- USGS can see all data and certain USGS power users can edit
- Refer to the feature template provided by the USGS Commercial Partnerships Team (CPT)







#### Projects feature class

- Use the defined project area geometry
- All fields except Notes must be populated
- PTS ID should be provided by the USGS CPT Project Manager (TPOC)
- Use the official name for the project as specified in the task order
- The Notes field can hold 1,000 characters and is where USGS will put edit updates

projects  PTS ID  name  contractor  task order number  sq mi  notes  technical point of contact		_
name contractor task order number sq mi notes technical point of	projects	
contractor task order number sq mi notes technical point of	PTS ID	
task order number sq mi notes technical point of	name	
sq mi notes technical point of	contractor	
notes technical point of	task order numb	er
technical point of	sq mi	
	notes	
		f

Fi	Field: 🛱 Add 🛱 Calculate   Selection: 🖺 Select By Attributes 🚭 Zoom To 🔡 Switch 🗎 Clear 💂 Delete 🖨 Copy								
	OBJECTID *	PTS ID *	Name	Contractor	Task Order Number	SqMi	Notes	Technical Point of Co	
1	65	231598	AR_NorthEast_D22	The Atlantic Group, LLC	140G0222F0247-AR_NorthEast_D22	749.5635	Barry added the PTS ID	Leslie Lansbery	
2	64	300128	CO_ArapahoRooseveltPikeNF_D23	Woolpert	140G0221D0013-CO_ArapahoRooseveltPikeNF_D23	3379	Barry corrected the con	Dan Vincent	





#### Flight Lines feature class

- The PTS ID is still required for this dataset as it is joined to other layers in the dashboards
- Populate a unique flightline\_id and calculate the line\_miles
- Refer to the acquisition status and postpone reasons table below

Fie	Field: ☐ Add ☐ Calculate Selection: ☐ Select By Attributes ☐ Zoom To ☐ Switch ☐ Clear ☐ Delete ☐ Copy							
4	OBJECTID * flightline_id * pts_id_prj * line_miles acq_status acq_date postpone_reason ▼ notes							
44	5422	549	300147	46.95227	Postponed	1/7/2024	Re-Acquire	Barry calculated the line miles
45	5430	541	300147	46.95418	Postponed	1/7/2024	Re-Acquire	Barry calculated the line miles

ľ	flightlines
-	flightline ID
	PTS ID
	line miles
	acquisition status
	acquisition date
	postpone reason
	notes

#### Flightlines:

acq_status		postpoi	ne_reason
Actual code value Display		Actual c	code same as display value
done	Done	-	Postponed-HW [hardware-related]
qc_ip	QC In-Progress	-	Postponed-Av [aviation-related]
not_done	Not Done	-	Postponed-Wthr [weather-related]
postponed	Postponed		Postponed-Env [environmental conditions-related]
		-	Re-Acquire





#### Data Extents feature class

■ This feature is intended to convey the extent of production blocks of data in work and does not necessarily equate to USGS-defined work units

■ USGS prefers the data extents be split by crs\_epsg and quality\_level where possible

■ Please populate the data volume (an estimate is fine) and the anticipated or actual delivery date (you can change these later, if necessary, be conservative +/- 2 weeks)

Fie	Field: ■ Add ■ Calculate Selection: Select By Attributes ● Zoom To ■ Switch ■ Clear ■ Delete ■ Copy								
4	OBJECTID *	pts_id_prj *	sq_mi	data_volume	crs_epsg	quality_level	delivery_status	delivery_date ▼	notes
15	170	223407	1474.2	2650	6344	QL1	Actual	11/1/2022	<null></null>
16	179	231598	228.04	<null></null>	6344	QL2	Anticipated	<null></null>	<null></null>

	data_extents
)	PTS ID
	sq miles
	data volume
	CRS EPSG
	Quality level
	Delivery date
	Status date
	notes

#### Data Extents:

pts_id_prj [pts id p	provided by USGS]	delivery_status
sq_mi [sq mi of da	ta extent]	Actual code value same as display value
data_volume [tota	al of tiled LAZ in GB]	- Anticipated [initial selection]
crs_epsg [- epsg co	ode of grid projection e]	- Actual [change to 'Actual' when
quality_level		delivery is imminent]
Actual code value s	ame as display value	
- QL0	- QL2	
- QL1	- QL3	

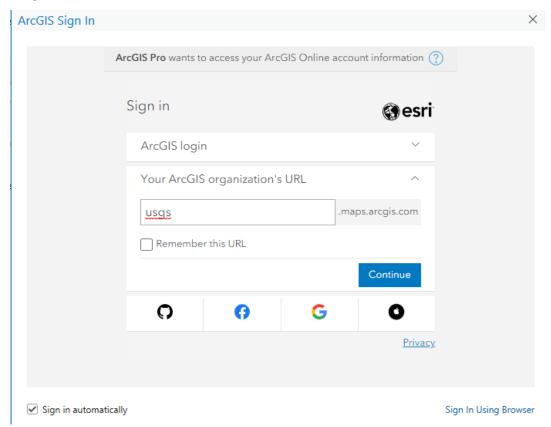


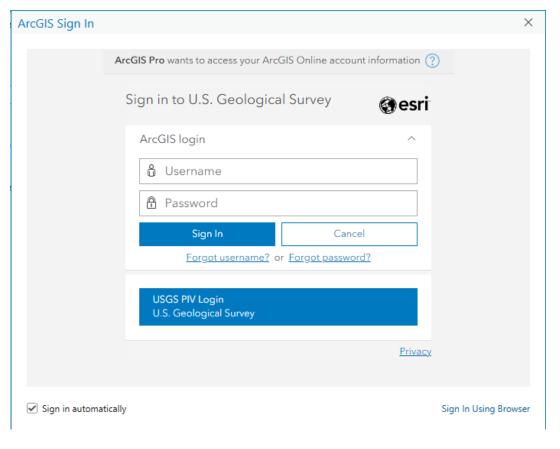


### Data Entry

#### Add the 3DEP\_project\_features\_Contractor\_View into ArcGIS Pro

■ Log into the named user account in usgs.maps.arcgis.com and make this your active portal







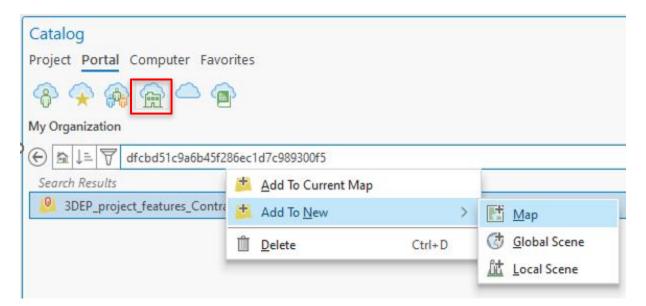




## Data Entry

#### Add the 3DEP\_project\_features\_Contractor\_View into ArcGIS Pro

- In the Catalog pane, click on the Portal tab >> My Organization and search for dfcbd51c9a6b45f286ec1d7c989300f5
- In the search results, right-click on the 3DEP\_project\_features layer and add it to a new map





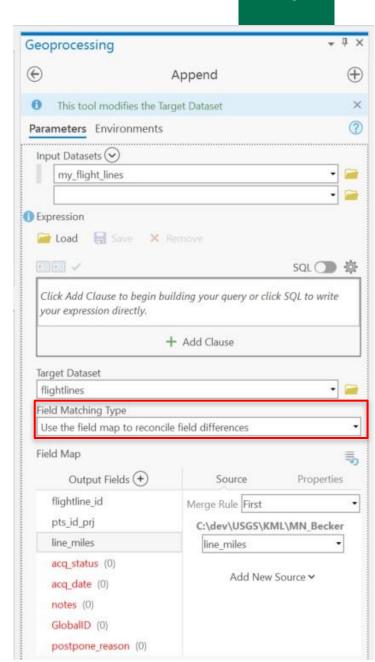


### Data Entry

#### Manually edit the three layers or Append

- You can manually edit the three layers: projects, flightlines, and data extents
  - Better for small updates to existing projects
- We recommend you create an empty feature class with the same schema as the template
- Append your data into this feature, make sure everything looks good and is populated correctly
- Then append this copy to the corresponding feature in the 3DEP\_project\_features\_Contractor\_View layer
  - For Field Matching Type, choose: "Use the field map to reconcile differences"
  - If you have a lot of flight lines, you may want to break the feature into smaller subsets
- You can fix attributes after the append but cannot delete the record
  - Contact USGS if you need us to delete a record loaded in error







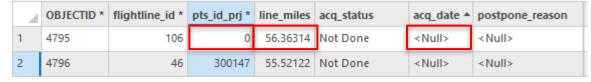
#### **Common Errors**

#### Don't forget to fill in all attributes!

Missing PTS ID or square miles in the Projects



Missing PTS ID, line miles, or acquisition date in the Flight Lines



■ Missing PTS ID, data volume, delivery date, or geometry in the Data Extents

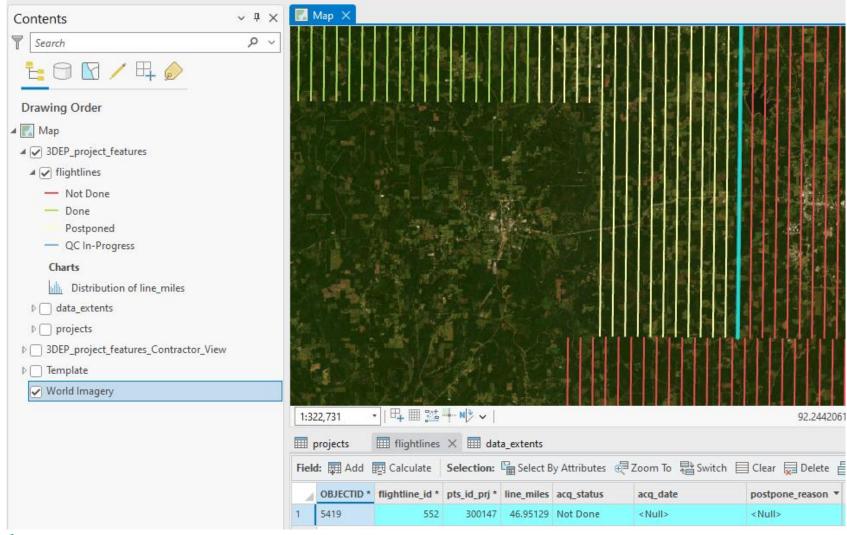








## Demonstration of the Dashboard and Data Entry









## Summary

- ArcGIS Online 3DEP Contractor Acquisition and Production Status Application
- Account Set Up
- Understanding the Data Layers
- Data Entry
- Common Errors
- Demonstration of the Dashboard and Data Entry



## Questions?



- Barry Miller USGS NGTOC Senior Elevation Applied Researcher (<u>bymiller@usgs.gov</u>)
- Martha Bearskin USGS NGTOC Applied Researcher (<u>mbearskin@usgs.gov</u>)





